



908 North Temperance Ave. ▽ Clovis, CA 93611 ▽ Phone 559-275-2175 ▽ Fax 559-275-4422

Certification Number: CA1312
NELAP Certification number: CA00046
DoD-ELAP Certificate number: 4064.01

Data Validatable Report

August 23, 2019

AECOM
1001 Bishop Street, Suite 1600
Honolulu, Hawaii 96813

Attn: Margie Pascua

Title: Report of Data: Case 89570

Project: 60571032 CV18F0126 Red Hill Fuel Storage. HI

Contract #: Prime contract # for DoD: NAVY CLEAN N62742-17-F-1800, CV18F0126
Subcontract: 18S-22209-HI27

Dear Ms. Pascua:

Five water samples were received July 23, 2019. Written results for the requested analyses are being provided on this August 23, 2019.

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

If you have any questions or require further information, please contact your APPL Project Manager, Libby Cheeseborough, libby@applinc.com, at your convenience. Thank you for choosing APPL, Inc.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC and DoD QSM. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

A handwritten signature in cursive script that reads "Paula McCartney".

Paula McCartney, Laboratory Director
APPL, Inc.

PM/lac
Enclosure
cc: File

Data Validation Package
for
60481245 CIV 0053 Red Hill Fuel Storage
APPL SDG 89570

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CASE NARRATIVE

Case Narrative

ARF: 89570

Project: 60571032 CV18F0126 Red Hill Fuel Storage. HI

Sample Receipt Information:

Five water samples were received July 23, 2019, at 0.2°C, 3.2°C, 0.3°C, 0.0°C, and 1.0°C. The sample group was assigned Analytical Request Form (ARF) number 89570.

Sample Preparation and Analysis Information:

For the EPA 8015B analysis, the samples were extracted according to EPA method 3520C. The sample extracts were silica gel cleaned according to APPL's SOP CLN004 and placed on hold.

For the EPA 8270D SIM analysis, the samples were extracted according to EPA method 3520C.

For the EPA 8270D Phenol analysis, the samples were extracted according to EPA method 3520C.

For the APPL SOP ANA2MEE analysis, the samples were extracted according to EPA method 3535.

For the EPA 8260B analysis, the samples were purged according to EPA method 5030B.

For the RSK-175 analysis, the samples were allowed to equilibrate for 10 minutes at 40°C and a portion of the headspace was analyzed.

For the EPA 9060A, 300.0, 353.2, SM 2320B, and SM 3500FeB analyses, the samples were prepared according to the methods.

Only the portion of the injection log relative to these samples is included. A full sequence log is available upon request. Measurement uncertainty can be reported upon request.

Analytical Exceptions, Deviations and Abnormalities.

EPA 8270D SIM: Manual integrations are performed in accordance with the SOP/ Chrysene was manually integrated in the ICAL. Before and after chromatograms are included in the package.

APPL SOP ANA2MEE: Manual integrations are performed in accordance with the SOP/ 1,4-DCB was manually integrated in the ICAL and CCVs. Before and after chromatograms are included in the package.

The LCSD recovered above the control limit. The samples were ND.

EPA 8260B:

RSK-175: In the MS/MSD performed on sample ERH838, Methane recovered outside the control limits. Corrective action: the client was notified.

qryCOC_APPLCaseNarrativeReport

SDG	Received	Client ID	APPL ID	Collected DateTime	Matrix	Method	Method Description
89570	07/23/19	ERH856	AZ95186	07/22/19 10:35:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER
89570	07/23/19	ERH856	AZ95186	07/22/19 10:35:00 AM	WATER	EPA 8260-GAS	EPA 8260 with GAS
89570	07/23/19	ERH856	AZ95186	07/22/19 10:35:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER
89570	07/23/19	ERH856	AZ95186	07/22/19 10:35:00 AM	WATER	RSK 175	METHANE BY RSK 175
89570	07/23/19	ERH857	AZ95187	07/22/19 10:40:00 AM	WATER	SM 2320B	Wetlab 2320B - Water
89570	07/23/19	ERH857	AZ95187	07/22/19 10:40:00 AM	WATER	EPA 300.0	Wetlab 300.0 - Water
89570	07/23/19	ERH857	AZ95187	07/22/19 10:40:00 AM	WATER	SM3500FeB	Ferrous Iron
89570	07/23/19	ERH857	AZ95187	07/22/19 10:40:00 AM	WATER	EPA 353.2	EPA 353.2 - WATER
89570	07/23/19	ERH857	AZ95187	07/22/19 10:40:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER
89570	07/23/19	ERH857	AZ95187	07/22/19 10:40:00 AM	WATER	EPA 8270D	EPA 8270D WATER
89570	07/23/19	ERH857	AZ95187	07/22/19 10:40:00 AM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER
89570	07/23/19	ERH857	AZ95187	07/22/19 10:40:00 AM	WATER	EPA 8015B-eLL	EPA 8015B TPH LIQ-LIQ
89570	07/23/19	ERH857	AZ95187	07/22/19 10:40:00 AM	WATER	EPA 8260-GAS	EPA 8260 with GAS
89570	07/23/19	ERH857	AZ95187	07/22/19 10:40:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER
89570	07/23/19	ERH857	AZ95187	07/22/19 10:40:00 AM	WATER	RSK 175	METHANE BY RSK 175
89570	07/23/19	ERH857	AZ95187	07/22/19 10:40:00 AM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ
89570	07/23/19	ERH857	AZ95187	07/22/19 10:40:00 AM	WATER	SW846 9060A	9060A TOC
89570	07/23/19	ERH837	AZ95188	07/22/19 9:00:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER
89570	07/23/19	ERH837	AZ95188	07/22/19 9:00:00 AM	WATER	EPA 8260-GAS	EPA 8260 with GAS
89570	07/23/19	ERH837	AZ95188	07/22/19 9:00:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER
89570	07/23/19	ERH837	AZ95188	07/22/19 9:00:00 AM	WATER	RSK 175	METHANE BY RSK 175
89570	07/23/19	ERH838	AZ95189	07/22/19 9:08:00 AM	WATER	SM 2320B	Wetlab 2320B - Water
89570	07/23/19	ERH838	AZ95189	07/22/19 9:08:00 AM	WATER	EPA 300.0	Wetlab 300.0 - Water
89570	07/23/19	ERH838	AZ95189	07/22/19 9:08:00 AM	WATER	SM3500FeB	Ferrous Iron
89570	07/23/19	ERH838	AZ95189	07/22/19 9:08:00 AM	WATER	EPA 353.2	EPA 353.2 - WATER
89570	07/23/19	ERH838	AZ95189	07/22/19 9:08:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER
89570	07/23/19	ERH838	AZ95189	07/22/19 9:08:00 AM	WATER	EPA 8270D	EPA 8270D WATER
89570	07/23/19	ERH838	AZ95189	07/22/19 9:08:00 AM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER
89570	07/23/19	ERH838	AZ95189	07/22/19 9:08:00 AM	WATER	EPA 8015B-eLL	EPA 8015B TPH LIQ-LIQ
89570	07/23/19	ERH838	AZ95189	07/22/19 9:08:00 AM	WATER	EPA 8260-GAS	EPA 8260 with GAS
89570	07/23/19	ERH838	AZ95189	07/22/19 9:08:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER
89570	07/23/19	ERH838	AZ95189	07/22/19 9:08:00 AM	WATER	RSK 175	METHANE BY RSK 175
89570	07/23/19	ERH838	AZ95189	07/22/19 9:08:00 AM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ
89570	07/23/19	ERH838	AZ95189	07/22/19 9:08:00 AM	WATER	SW846 9060A	9060A TOC
89570	07/23/19	ERH839	AZ95190	07/22/19 9:08:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER
89570	07/23/19	ERH839	AZ95190	07/22/19 9:08:00 AM	WATER	EPA 8270D	EPA 8270D WATER
89570	07/23/19	ERH839	AZ95190	07/22/19 9:08:00 AM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER
89570	07/23/19	ERH839	AZ95190	07/22/19 9:08:00 AM	WATER	EPA 8015B-eLL	EPA 8015B TPH LIQ-LIQ
89570	07/23/19	ERH839	AZ95190	07/22/19 9:08:00 AM	WATER	EPA 8260-GAS	EPA 8260 with GAS
89570	07/23/19	ERH839	AZ95190	07/22/19 9:08:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER
89570	07/23/19	ERH839	AZ95190	07/22/19 9:08:00 AM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ

APPL Inc.
Abbreviations and Flags


FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
MI1	Manual integration: integration does not follow baseline
MI2	Manual integration: non-target peak interference
MI3	Manual integration: to split a peak that was integrated as one peak by the computer.
MI4	Manual integration: to integrate a split peak
MI5	Manual integration: the whole peak or part of the peak was not integrated
MI6	Manual integration: computer integrated wrong peak
MI7	Manual integration: other – (See case narrative)
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, e.g. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, e.g. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, e.g. asphaltene, waste oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, e.g. asphaltene, waste oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel
U	Not detected
Y	Percent difference between primary and confirmation column > 40%

**SAMPLE RECORDS MANAGEMENT
CHAIN OF CUSTODY,
ARF, CRF, AND
CLIENT COMMUNICATION**

APPL - Analysis Request Form

89570

Client: AECOM
 Address: 1001 Bishop Street, Suite 1600
Honolulu, HI 96813
 Attn: Margie Pascua
 Phone: 808-356-5373 Fax: 808-523-8950
 Job: 60571032 CV18F0126 Red Hill Fuel Storage
 PO #: 18S-22209-HI27 PO# 102604
 Chain of Custody (Y/N): Y # 061-064,076
 RAD Screen (Y/N): Y pH (Y/N): Y
 Turn Around Type: 1 WEEK

Received by: AAR 
 Date Received: 07/23/19 Time: 10:17
 Delivered by: FEDEX
 Shuttle Custody Seals (Y/N): Y Time Zone: -10
 Chest Temp(s): SEE CRF
 Color: VOA/F-Pink/GS-BluYel
 Samples Chilled until Placed in Refrig/Freezer: Y
 Project Manager: Libby Cheesebor
 QC Report Type: DVP4DOD/EQUIS/HI
 Due Date: 07/30/19

Comments:

PM: login and F1s to Margie.Pascua@aecom.com
AN: 7 day TAT for Form 1s; 21 day TAT for PKG STYLE 1; DOD v5.1; DOD Forms (LOQ/LOD database/DL)
8260: BTEX & TPH-G only; 8270 SIM: 1-methylnaphthalene, 2-methylnaphthalene & naphthalene only.
TPH D & O both with and w/o SGC, reverse surrogate for the SGC; analyze SGC if detections
RSK: Methane only; \$87DC53W5: report phenol only; \$87DMEEW5: 2-MEE (LCS Spk 80ppb).
AZ95189:MS/MSD for 8015, 8260, 8270s
FR: HC to LDC, 2 labeled CDs to Margie Pascua.
EDD: AECOM EQUiS EDD 2.5.3 Red Hill 87DMEE->3535A to Margie.Pascua@aecom.com & jecklund@lab-data.com




Sample Distribution:

GC: 3-\$87DC53W5, 3-\$87DMEEW5, 3-\$DOC53W5LIQ, 3-\$SIM53LIQ51
Extractions: 3- LIQ003, 3- LIQ005, 3- MWE2MEE
VOA: 5-\$86BTOTXDOD5W, 5-\$GASBL, 5-\$GRO86BW, 4-\$RSKMETH
Wetlab: 2-\$232W(HCO3,CO3,ALK), 2-\$300W(CL,SO4), 2-\$35FE, 2-\$35OF(NO3), 1-\$TOCW53

Charges:

Invoice To:

ACCOUNTS PAYABLE
1001 Bishop Street, Ste 1600
USAPImaging@aecom.com
mary.basano@aecom.com

Client ID	APPL ID	Sampled	Analyses Requested
1. ERH856	AZ95186W LCSD 	07/22/19 10:35	\$86BTOTXDOD5W, \$GASBL, \$GRO86BW, \$RSKMETH
2. ERH857	AZ95187W LCSD 	07/22/19 10:40	\$232W(HCO3,CO3,ALK), \$300W(CL,SO4), \$35FE, \$35OF(NO3), \$86BTOTXDOD5W, \$87DC53W5, \$87DMEEW5, \$DOC53W5LIQ, \$GASBL, \$GRO86BW, \$RSKMETH, \$SIM53LIQ51, \$TOCW53 -- see comments
3. ERH837	AZ95188W LCSD 	07/22/19 09:00	\$86BTOTXDOD5W, \$GASBL, \$GRO86BW, \$RSKMETH

APPL - Analysis Request Form

89570

4. ERH838

GC/VOA/MS/MSD

AZ95189W 07/22/19 09:08


\$232W(HCO3,CO3,ALK), \$300W(CL,SO4),
\$35FE, \$35OF(NO3), \$86BTOTXDOD5W,
\$87DC53W5, \$87DMEEW5, \$DOC53W5LIQ,
\$GASBL, \$GRO86BW, \$RSKMETH,
\$SIM53LIQ51 -- see comments

5. ERH839

LCSD

AZ95190W 07/22/19 09:08


\$86BTOTXDOD5W, \$87DC53W5,
\$87DMEEW5, \$DOC53W5LIQ, \$GASBL,
\$GRO86BW, \$SIM53LIQ51 -- see comments

Note: All times, excluding sample collection times, are Pacific Time Zone unless noted otherwise. Collection times are in: -10 UTC

APPL Sample Receipt Form

ARF# 89570

Sample	Container Type	Count	p
AZ95186	¹³ VOAs - HCL	4	NA
AZ95187	³ PL 250mL	1	NA
	⁶ PL 500mL - HNO3	1	1.7
	¹⁰ PL 250mL - H2SO4	1	1.7
	¹³ VOAs - HCL	4	NA
	¹⁷ Amber Liter	5	NA
	³² Clear VOA - H2SO4	2	NA
	³⁸ 250mL brn poly, HCl prsvd	1	NA
	⁴⁰ 500mL Amber, unprsvd	2	NA
AZ95188	¹³ VOAs - HCL	4	NA
AZ95189	³ PL 250mL	1	NA
	⁶ PL 500mL - HNO3	2	1.7
	¹⁰ PL 250mL - H2SO4	1	1.7
	¹³ VOAs - HCL	8	NA
	¹⁷ Amber Liter	15	NA
	³² Clear VOA - H2SO4	2	NA
	³⁸ 250mL brn poly, HCl prsvd	1	1.7
	⁴⁰ 500mL Amber, unprsvd	6	NA
AZ95190	⁶ PL 500mL - HNO3	2	1.7
	¹³ VOAs - HCL	4	NA
	¹⁷ Amber Liter	5	NA
	⁴⁰ 500mL Amber, unprsvd	2	NA

Sample Container Type Count p



APPL, Inc.
 908 N Temperance Ave
 Clovis, CA 93611
 www.applinc.com

CHAIN OF CUSTODY RECORD

Phone: (559) 275-2175
 Fax: (559) 275-4422
 coc@applinc.com C.O.C. 061

Report to: <u>PLEASE PRINT</u>	Invoice to: <u>PLEASE PRINT</u>
Company Name: <u>AECOM</u> Phone: <u>808-356-5373</u>	Company Name: <u>AECOM</u> Phone: <u>808-529-7249</u>
Address: <u>1001 Bishop St, Suite 1600</u> <u>Honolulu, HI 96813</u> Fax: <u>808-523-8950</u>	Address: <u>1001 Bishop St, Suite 1600</u> <u>Honolulu, HI 96813</u> Fax: <u>808-523-8950</u>
Attn: <u>Margie Pascua</u>	Attn: <u>Mary Basano</u>
Email: <u>margie.pascua@aecom.com</u>	Email: <u>mary.basano@aecom.com; usapimaging@aecom.com</u>

Project Name/Number	Sampler (Print)	Analysis Requested/Method Number												Date Shipped: <u>7/22/19</u>	Carrier: <u>FedEx</u>																							
		Matrix			8260C BTEX, TPH-g	8260C DCA	8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/o w/ SGT	8270DSIM PAHs short list	8270D Phenol, THP	8270D 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane			SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N	SM2320B Alkalinity	900.0 Nitrate Sulfate, Chloride	900.0 Barium/Calcium/Sulfate	9010 Total Cr/Mg/Mn/K/Al	SM4500 Lead & Cadmium	9060A TOC															
Purchase Order Number	Sampler (Signature)	Sample Identification	Location	Date Collected	Time Collected	Time Zone	No. of Containers	Aq	Sed.	Soil													Waybill No.:	Comments:														
CV18F0126 / 60571032	CE, DH, KL																																					
102604	<i>MP Jr for CE, DH, KL</i>																																					
		ERH837	Trip Blank	7/22	09:00	HST	4	X				X																										
		ERH838	RTMW2254-01			HST	8	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	MS/MCO: 8015, 8260, 8270, 8270DSIM; see other codes
		ERH839	RTMW2254-01	7/22	09:08	HST	8	X				X	X	X*	X	X	X																				see other codes	

Shuttle Temperature:	Turnaround Requested: Check one <input type="checkbox"/> Standard 2-3 wk <input checked="" type="checkbox"/> One week <input type="checkbox"/> 3 days <input type="checkbox"/> 24/48 Hrs. <input type="checkbox"/> Other: _____	Sample Disposal: <input type="checkbox"/> Return to client <input checked="" type="checkbox"/> Disposal by Lab (30-day retention)			
Relinquished by sampler: <u>AECOM</u>	Date: <u>7/22</u> Time: <u>14:00</u>	Received by:	Relinquished by:	Date: <u>7-23-19</u> Time: <u>1017</u>	Received by:
Relinquished by:	Date: _____ Time: _____	Received by:	Relinquished by:	Date: _____ Time: _____	Received at lab by: <u>[Signature]</u>



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CHAIN OF CUSTODY RECORD

Phone: (559) 275-2175
 Fax: (559) 275-4422
 coc@applinc.com C.O.C. **064**

Report to: <u>PLEASE PRINT</u> Company Name: <u>AECOM</u> Phone: <u>808-356-5373</u> Address: <u>1001 Bishop St, Suite 1600</u> <u>Honolulu, HI 96813</u> Fax: <u>808-523-8950</u> Attn: <u>Margie Pascua</u> Email: <u>margie.pascua@aecom.com</u>	Invoice to: <u>PLEASE PRINT</u> Company Name: <u>AECOM</u> Phone: <u>808-529-7249</u> Address: <u>1001 Bishop St, Suite 1600</u> <u>Honolulu, HI 96813</u> Fax: <u>808-523-8950</u> Attn: <u>Mary Basano</u> Email: <u>mary.basano@aecom.com; usapimaging@aecom.com</u>
--	--

Project Name/Number CV18F0126 / 60571032	Sampler (Print) CE, DH, KL	Analysis Requested/Method Number										Date Shipped: <u>7/22/19</u>												
		Purchase Order Number 102604	Sampler (Signature) MP for CE, DH, KL	No. of Containers	Matrix			8260C BTEX;TPH-g	8260C DCA	8011 EDB	8015C TPH-d/o		3630/8015C TPH-d/o w/ SGT	8270DSIM PAHS short list	8270D Phenol, p,p'-DDE	8270D 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane	SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N	SM2320B Alkalinity	800.0 Nitrate, Sulfate, Chloride	8010 Total Cr-Mn-Mo-Ni-Pb	8040 Total Cd-Chromium-Copper	8060A TOC	Carrier: FedEx
Sample Identification	Location				Date Collected	Time Collected	Time Zone	Aq	Sed.	Soil														Waybill No.:
ERH838	RHMW2254-01	7/22	09:08	HST	8	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Comments: <u>MP/MED: 8015, 8060, 8270, 8270SIM, 8220 other LODs</u>
						MP 7/22																		

Shuttle Temperature:	Turnaround Requested: Check one <input type="checkbox"/> Standard 2-3 wk <input checked="" type="checkbox"/> One week <input type="checkbox"/> 3 days <input type="checkbox"/> 24/48 Hrs. <input type="checkbox"/> Other: _____						Sample Disposal: <input type="checkbox"/> Return to client <input checked="" type="checkbox"/> Disposal by Lab (30-day retention)				
Relinquished by sampler: AECOM <u>Morgan Donohue</u>	Date <u>7/22</u>	Time <u>14:00</u>	Received by:		Relinquished by:		Date	Time	Received by:		
Relinquished by:	Date	Time	Received by:		Relinquished by:		Date <u>7-23-19</u>	Time <u>10:17</u>	Received at lab by: <u>[Signature]</u>		



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CHAIN OF CUSTODY RECORD

C.O.C. 063

49570 DL@-1.2 1.0/-0.2
4.4/3.2
1.5/0.3
1.2/0.0
2.2/1.0

Report to: <u>PLEASE PRINT</u>	Invoice to: <u>PLEASE PRINT</u>
Company Name: <u>AECOM</u> Phone: <u>808-356-5373</u>	Company Name: <u>AECOM</u> Phone: <u>808-529-7249</u>
Address: <u>1001 Bishop St, Suite 1600</u> <u>Honolulu, HI 96813</u> Fax: <u>808-523-8950</u>	Address: <u>1001 Bishop St, Suite 1600</u> <u>Honolulu, HI 96813</u> Fax: <u>808-523-8950</u>
Attn: <u>Margie Pascua</u>	Attn: <u>Mary Basano</u>
Email: <u>margie.pascua@aecom.com</u>	Email: <u>mary.basano@aecom.com; usapimaging@aecom.com</u>

Project Name/Number CVI8F0126 / 60571032	Sampler (Print) CE, DH, KL					No. of Containers	Matrix			Analysis Requested/Method Number													Date Shipped: <u>7/22/19</u>				
	Purchase Order Number 102604	Sampler (Signature) MP for CE, DH, KL					Aq	Sed.	Soil	8260C BTEX, TPH-g	8260C DCA 8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/o w/ SGT	8270DSIM PAHs short list	8270D Phenol, THS	8270D 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane	SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N	SM2320B Alkalinity	300.0 Nitrate Sulfate, Chloride	SM2320B/7/19/19 8010 Total Crater-Metals-Ag SM2320B/7/19/19 SM2320B/7/19/19 SM2320B/7/19/19	8060A TOC	Carrier: FedEx	Waybill No.:	Comments:	
Sample Identification	Location	Date Collected	Time Collected	Time Zone																							
ERH 838	RHMW2324-01	7/22	09:08	HST	19	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			NE/MSD: 805, 8260, 8270 8270DSIM; see other coolers

Shuttle Temperature: <u>DL@-1.2 1.0/-0.2</u>	Turnaround Requested: Check one <input type="checkbox"/> Standard 2-3 wk <input checked="" type="checkbox"/> One week <input type="checkbox"/> 3 days <input type="checkbox"/> 24/48 Hrs. <input type="checkbox"/> Other: _____						Sample Disposal: <input type="checkbox"/> Return to client <input checked="" type="checkbox"/> Disposal by Lab (30-day retention)					
Relinquished by sampler: <u>AECOM</u> <u>Morgan Penolue</u>	Date <u>7/22</u>	Time <u>14:00</u>	Received by:			Relinquished by:	Date	Time	Received by:			
Relinquished by:	Date	Time	Received by:			Relinquished by:	Date	Time	Received at lab by:			
							<u>7-23-19</u>	<u>1017</u>	<u>[Signature]</u>			



APPL, Inc.
908 N Temperance Ave
Clovis, CA 93611
www.applinc.com

CHAIN OF CUSTODY RECORD

Phone: (559) 275-2175
Fax: (559) 275-4422
coc@applinc.com

C.O.C. 076

Report to: <u>PLEASE PRINT</u> Company Name: <u>AECOM</u> Phone: <u>808-356-5373</u> Address: <u>1001 Bishop St, Suite 1600</u> <u>Honolulu, HI 96813</u> Fax: <u>808-523-8950</u> Attn: <u>Margie Pascua</u> Email: <u>margie.pascua@aecom.com</u>	Invoice to: <u>PLEASE PRINT</u> Company Name: <u>AECOM</u> Phone: <u>808-529-7249</u> Address: <u>1001 Bishop St, Suite 1600</u> <u>Honolulu, HI 96813</u> Fax: <u>808-523-8950</u> Attn: <u>Mary Basano</u> Email: <u>mary.basano@aecom.com; usapimaging@aecom.com</u>
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Project Name/Number CV18F0126 / 60571032		Sampler (Print) <u>EB, GM, TV</u>			Analysis Requested/Method Number													Date Shipped: <u>7/22/19</u>									
Purchase Order Number 102604		Sampler (Signature) <u>MP for EB, GM, TV</u>			No. of Containers	Matrix			8260C BTEX, TPH-g	8260C DCA	8011 EDB	8015C TPH-d/o	8630/8015C TPH-d/o w/ SGT	8270DSIM PAHs short list	8270D Phenol, Phenols	8270D 2-(2-methoxyethoxy)ethanol	RSK175M Methane	SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N	SM2320B Alkalinity	300.0 Nitrate, Sulfate, Chloride	300.0 Bromide/Fluoride w/ Hg ²⁺	3010 Total Contaminants Lead	30400 Total Contaminants Silver	9060A TOC	Carrier: <u>FedEx</u>	
Sample Identification		Location		Date Collected		Time Collected	Time Zone	Aq	Sed.	Soil																Waybill No.:	
<u>ERH856</u>	<u>Trip Blank</u>	<u>7/22</u>	<u>10:35</u>	<u>HST</u>	<u>4</u>	<u>X</u>										<u>X</u>										Comments:	
<u>ERH857</u>	<u>RHMW07</u>	<u>7/22</u>	<u>10:40</u>	<u>HST</u>	<u>16</u>	<u>X</u>						<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>			
<u>M.A. 7/22/19</u>																											

Shuttle Temperature:	Turnaround Requested: Check one <input type="checkbox"/> Standard 2-3 wk <input checked="" type="checkbox"/> One week <input type="checkbox"/> 3 days <input type="checkbox"/> 24/48 Hrs. <input type="checkbox"/> Other: _____						Sample Disposal: <input type="checkbox"/> Return to client <input checked="" type="checkbox"/> Disposal by Lab (30-day retention)					
Relinquished by sampler: <u>AECOM</u> <u>Morgen Donohue</u>	Date <u>7/22</u>	Time <u>14:00</u>	Received by:			Relinquished by:	Date	Time	Received by:			
Relinquished by:	Date	Time	Received by:			Relinquished by:	Date <u>7-23-19</u>	Time <u>1017</u>	Received at lab by: <u>[Signature]</u>			



APPL, Inc.
908 N Temperance Ave
Clovis, CA 93611
www.applinc.com

CHAIN OF CUSTODY RECORD

Phone: (559) 275-2175
Fax: (559) 275-4422
coc@applinc.com

C.O.C. **062**

Report to: <u>PLEASE PRINT</u> Company Name: <u>AECOM</u> Phone: <u>808-356-5373</u> Address: <u>1001 Bishop St, Suite 1600</u> <u>Honolulu, HI 96813</u> Fax: <u>808-523-8950</u> Attn: <u>Margie Pascua</u> Email: <u>margie.pascua@aecom.com</u>	Invoice to: <u>PLEASE PRINT</u> Company Name: <u>AECOM</u> Phone: <u>808-529-7249</u> Address: <u>1001 Bishop St, Suite 1600</u> <u>Honolulu, HI 96813</u> Fax: <u>808-523-8950</u> Attn: <u>Mary Basano</u> Email: <u>mary.basano@aecom.com; usapimaging@aecom.com</u>
--	--

Project Name/Number CV18F0126 / 60571032	Sampler (Print) <u>CE, DH, KL</u>					No. of Containers	Matrix			Analysis Requested/Method Number													Date Shipped: <u>7/22/19</u>				
	Purchase Order Number 102604	Sampler (Signature) <u>MP for CE, DH, KL</u>					Aq	Sed.	Soil	8260C BTEX,TPH-g	8260C DCA	8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/o w/SGT	8270DSIM PAHs short list	8270D Phenol, PAHs	8270D 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane	SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N	SM2320B Alkalinity	800.0 Nitrate Sulfate, Chloride		8010 Total Gas-Methane	SM4690-Zinc-Ethoxysulfide	9060A TOC	Carrier: <u>FedEx</u>
Sample Identification	Location	Date Collected	Time Collected	Time Zone																						Waybill No.:	Comments:
<u>ERH 838</u>	<u>RHMW2754-01</u>	<u>7/22</u>	<u>09:08</u>	<u>HST</u>	<u>9</u>	<u>X</u>			<u>X</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		<u>MS/MSD: 815, 820, 8270, 8270 SIM; see other work</u>

Shuttle Temperature:	Turnaround Requested: Check one <input type="checkbox"/> Standard 2-3 wk <input checked="" type="checkbox"/> One week <input type="checkbox"/> 3 days <input type="checkbox"/> 24/48 Hrs. <input type="checkbox"/> Other: _____	Sample Disposal: <input type="checkbox"/> Return to client <input checked="" type="checkbox"/> Disposal by Lab (30-day retention)					
Relinquished by sampler: <u>AECOM</u> <u>Morgan Donohue</u>	Date: <u>7/22</u> Time: <u>14:00</u>	Received by:	Relinquished by:	Date:	Time:	Received by:	
Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date: <u>7.23.19</u>	Time: <u>1017</u>	Received at lab by: <u>[Signature]</u>

COOLER RECEIPT FORM

ARF: 89570

- 1) Project: 60571032 CV18F0126 Red Hill Fuel Storage Date Received: 07/23/19
- 2) Coolers: Number of Coolers: 5
- 3) YES Were custody seals present and intact?
How many? 10 Name/Date on seal? SEE BELOW
- 4) YES Was there a shipping slip? Carrier name: FEDEX
- 5) Type of packing in cooler: bubble wrap popcorn foam plastic bags other
 wet ice dry ice no ice gel ice
- 6) YES Were cooler temperatures acceptable?
- 7) Serial number of certified NIST thermometer use IR @ -1.2°C
- 8) Cooler temp(s): In °C. Thermometer Temp / Corrected Temp
1: 1.0°C / -0.2°C 2: 4.4°C / 3.2°C 3: 1.5°C / 0.3°C 4: 1.2°C / 0.0°C 5: 2.2°C / 1.0°C 6: _____
7: _____ 8: _____ 9: _____ 10: _____ 11: _____ 12: _____

Chain of custody:

- 9) YES Was a chain of custody received?
- 10) YES Were the custody papers complete/signed in the appropriate places?

Sample Labels:

- 11) YES Were all sample labels complete (sample ID, date/time of sampling, etc.)?
- 12) YES Did all container labels agree with custody papers?

Sample Containers:

- 13) YES Were all containers sealed in separate bags?
- 14) YES Did all containers arrive in good condition:(unbroken, no leakage, no cracked/broken lids)?
- 15) YES Were correct containers and preservatives used for the tests indicated?
- 16) YES Was a sufficient amount of sample sent for tests indicated?
- 17) Yes Were bubbles present in volatile samples?

If yes, the following were received with air bubbles:

Larger than a pea: _____

Smaller than a pea: AZ95187W01-4

Preservation Hold time:

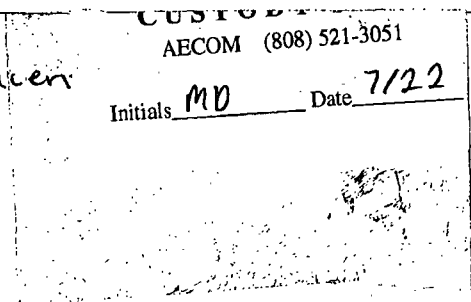
- 18) Yes Was a sufficient amount of holding time remaining to analyze the samples?
- 19) Yes Was the pH taken of all non-VOA preserved samples and written on the sample container?
- 20) Yes Was the pH of acid preserved non-VOA samples < 2?
- 21) NA Was the pH of sodium hydroxide preserved samples for Cyanide > 12 and Sulfide >9?
- 22) NO Were unpreserved VOA Vials received?
- 23) NA Are unpreserved VOA vials noted in the ADD TEST FIELD on the ARF?

pH strip lot number: 90B2031

Lab notified if pH was not adequate: _____

Notes/Deficiencies:

Metals canceled per client



Personnel receiving samples: ZG Second reviewer: AA
 Personnel labeling samples: ZG
 Project manager notified: AA Date/Time of notification 07/23/19
 Name of client notified: _____ Date/Time of notification _____

SAMPLE RESULTS

EPA 8015B TPH LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH857

Sample Collection Date: 07/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89570

APPL ID: AZ95187

QCG: #DOC53-190727A-243221

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-eL	DIESEL (C10-C24)	25.00 U	40.0	25.00	13.07	ug/L	07/27/19	07/30/19
EPA 8015B-eL	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	07/27/19	07/30/19
EPA 8015B-eL	SURROGATE: OCTACOSANE (S)	94.7	60-142			%	07/27/19	07/30/19
EPA 8015B-eL	SURROGATE: ORTHO-TERPHENYL (S)	84.4	56-125			%	07/27/19	07/30/19

Quant Method: DOC0617.M
Run #: 713257
Instrument: Apollo
Sequence: 190713
Dilution Factor: 1
Initials: BTI

Printed: 08/08/19 11:33:03 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89570
APPL ID: **AZ95189**
QCG: #DOC53-190727A-243221

Sample ID: ERH838

Sample Collection Date: 07/22/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-eL	DIESEL (C10-C24)	25.00 U	40.0	25.00	13.07	ug/L	07/27/19	07/30/19
EPA 8015B-eL	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	07/27/19	07/30/19
EPA 8015B-eL	SURROGATE: OCTACOSANE (S)	119	60-142			%	07/27/19	07/30/19
EPA 8015B-eL	SURROGATE: ORTHO-TERPHENYL (S)	81.4	56-125			%	07/27/19	07/30/19

Quant Method: DOC0617.M
Run #: 713260
Instrument: Apollo
Sequence: 190713
Dilution Factor: 1
Initials: BTI

Printed: 08/08/19 11:33:03 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89570
APPL ID: **AZ95190**
QCG: #DOC53-190727A-243221

Sample ID: ERH839

Sample Collection Date: 07/22/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-eL	DIESEL (C10-C24)	25.00 U	40.0	25.00	13.07	ug/L	07/27/19	07/30/19
EPA 8015B-eL	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	07/27/19	07/30/19
EPA 8015B-eL	SURROGATE: OCTACOSANE (S)	93.1	60-142			%	07/27/19	07/30/19
EPA 8015B-eL	SURROGATE: ORTHO-TERPHENYL (S)	80.8	56-125			%	07/27/19	07/30/19

Quant Method: DOC0617.M
Run #: 713261
Instrument: Apollo
Sequence: 190713
Dilution Factor: 1
Initials: BTI

Printed: 08/08/19 11:33:03 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH857

Sample Collection Date: 07/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89570

APPL ID: AZ95187

QCG: #SIM53-190725A-242823

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/25/19	07/30/19
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/25/19	07/30/19
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/25/19	07/30/19
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	97.7	39-114			%	07/25/19	07/30/19
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	109	58-120			%	07/25/19	07/30/19

Quant Method: Y0717P.M
Run #: 0717Y279
Instrument: Yoda
Sequence: Y190717P
Dilution Factor: 1
Initials: MA

Printed: 07/30/19 2:54:58 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH838

Sample Collection Date: 07/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89570

APPL ID: AZ95189

QCG: #SIM53-190725A-242823

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/25/19	07/30/19
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/25/19	07/30/19
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/25/19	07/30/19
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	101	39-114			%	07/25/19	07/30/19
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	114	58-120			%	07/25/19	07/30/19

Quant Method: Y0717P.M
Run #: 0717Y277
Instrument: Yoda
Sequence: Y190717P
Dilution Factor: 1
Initials: MA

Printed: 07/30/19 2:54:58 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89570
APPL ID: AZ95190
QCG: #SIM53-190725A-242823

Sample ID: ERH839

Sample Collection Date: 07/22/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/25/19	07/30/19
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/25/19	07/30/19
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/25/19	07/30/19
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	105	39-114			%	07/25/19	07/30/19
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	117	58-120			%	07/25/19	07/30/19

Quant Method: Y0717P.M
Run #: 0717Y278
Instrument: Yoda
Sequence: Y190717P
Dilution Factor: 1
Initials: MA

Printed: 07/30/19 2:54:58 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89570

Sample ID: ERH857

APPL ID: AZ95187

Sample Collection Date: 07/22/19

QCG: #87DC5-190725A-242822

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	07/25/19	07/29/19
EPA 8270D	SURROGATE: 2,4,6-TRIBROMOPHENO	96.2	43-140			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: 2-FLUORBIPHENYL (S)	80.6	44-119			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: 2-FLUOROPHENOL (S)	85.1	19-119			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: NITROBENZENE-D5 (S)	88.6	44-120			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: PHENOL-D6 (S)	86.4	10-115			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: TERPHENYL-D14 (S)	72.2	50-134			%	07/25/19	07/29/19

Quant Method: Y0722NC.M
Run #: 0722Y130
Instrument: Yoda
Sequence: Y190722
Dilution Factor: 1
Initials: JPR

Printed: 07/30/19 2:51:43 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH838

Sample Collection Date: 07/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89570

APPL ID: AZ95189

QCG: #87DC5-190725A-242822

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	07/25/19	07/29/19
EPA 8270D	SURROGATE: 2,4,6-TRIBROMOPHENO	93.7	43-140			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: 2-FLUORBIPHENYL (S)	81.0	44-119			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: 2-FLUOROPHENOL (S)	82.5	19-119			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: NITROBENZENE-D5 (S)	89.5	44-120			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: PHENOL-D6 (S)	84.5	10-115			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: TERPHENYL-D14 (S)	71.1	50-134			%	07/25/19	07/29/19

Quant Method: Y0722NC.M
Run #: 0722Y133
Instrument: Yoda
Sequence: Y190722
Dilution Factor: 1
Initials: JPR

Printed: 07/30/19 2:51:43 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89570
APPL ID: **AZ95190**
QCG: #87DC5-190725A-242822

Sample ID: ERH839

Sample Collection Date: 07/22/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	07/25/19	07/29/19
EPA 8270D	SURROGATE: 2,4,6-TRIBROMOPHENO	98.0	43-140			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: 2-FLUORBIPHENYL (S)	83.8	44-119			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: 2-FLUOROPHENOL (S)	87.0	19-119			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: NITROBENZENE-D5 (S)	90.4	44-120			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: PHENOL-D6 (S)	89.4	10-115			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: TERPHENYL-D14 (S)	76.9	50-134			%	07/25/19	07/29/19

Quant Method: Y0722NC.M
Run #: 0722Y134
Instrument: Yoda
Sequence: Y190722
Dilution Factor: 1
Initials: JPR

Printed: 07/30/19 2:51:43 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D MODIFIED WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH857

Sample Collection Date: 07/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89570

APPL ID: AZ95187

QCG: #87DME-190726A-242855

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	80.0 U	100	80.0	40.0	ug/L	07/26/19	07/30/19

Quant Method: LMEE0430.M
Run #: 0730L017
Instrument: Linus
Sequence: L190730M
Dilution Factor: 1
Initials: MA

Printed: 07/31/19 10:55:04 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D MODIFIED WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH838

Sample Collection Date: 07/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89570

APPL ID: AZ95189

QCG: #87DME-190726A-242855

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	80.0 U	100	80.0	40.0	ug/L	07/26/19	07/30/19

Quant Method: LMEE0430.M
Run #: 0730L020
Instrument: Linus
Sequence: L190730M
Dilution Factor: 1
Initials: MA

Printed: 07/31/19 10:55:04 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D MODIFIED WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89570
APPL ID: **AZ95190**
QCG: #87DME-190726A-242855

Sample ID: ERH839
Sample Collection Date: 07/22/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	80.0 U	100	80.0	40.0	ug/L	07/26/19	07/30/19

Quant Method: LMEE0430.M
Run #: 0730L021
Instrument: Linus
Sequence: L190730M
Dilution Factor: 1
Initials: MA

Printed: 07/31/19 10:55:04 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH856

Sample Collection Date: 07/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89570

APPL ID: AZ95186

QCG: #86BTO-190727BL-242776

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	07/27/19	07/27/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	07/27/19	07/27/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	07/27/19	07/27/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	07/27/19	07/27/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	104	81-118			%	07/27/19	07/27/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	91.8	85-114			%	07/27/19	07/27/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	107	80-119			%	07/27/19	07/27/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	96.7	89-112			%	07/27/19	07/27/19

Quant Method: L0724W.M
Run #: 0727L27
Instrument: Loki
Sequence: 190724
Dilution Factor: 1
Initials: DPO

Printed: 07/29/19 5:26:23 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89570

Sample ID: ERH857

APPL ID: AZ95187

Sample Collection Date: 07/22/19

QCG: #86BTO-190727BL-242776

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	07/27/19	07/27/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	07/27/19	07/27/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	07/27/19	07/27/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	07/27/19	07/27/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	106	81-118			%	07/27/19	07/27/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	92.6	85-114			%	07/27/19	07/27/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	108	80-119			%	07/27/19	07/27/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	102	89-112			%	07/27/19	07/27/19

Quant Method: L0724W.M
Run #: 0727L28
Instrument: Loki
Sequence: 190724
Dilution Factor: 1
Initials: DPO

Printed: 07/29/19 5:26:24 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH837
Sample Collection Date: 07/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89570
APPL ID: AZ95188
QCG: #86BTO-190727BL-242776

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	07/27/19	07/27/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	07/27/19	07/27/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	07/27/19	07/27/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	07/27/19	07/27/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	110	81-118			%	07/27/19	07/27/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	98.1	85-114			%	07/27/19	07/27/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	111	80-119			%	07/27/19	07/27/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	102	89-112			%	07/27/19	07/27/19

Quant Method: L0724W.M
Run #: 0727L29
Instrument: Loki
Sequence: 190724
Dilution Factor: 1
Initials: DPO

Printed: 07/29/19 5:26:24 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH838

Sample Collection Date: 07/22/19

ARF: 89570

APPL ID: AZ95189

QCG: #86BTO-190727BL-242776

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	07/27/19	07/27/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	07/27/19	07/27/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	07/27/19	07/27/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	07/27/19	07/27/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	99.4	81-118			%	07/27/19	07/27/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	91.3	85-114			%	07/27/19	07/27/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	106	80-119			%	07/27/19	07/27/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	92.6	89-112			%	07/27/19	07/27/19

Quant Method: L0724W.M
Run #: 0727L30
Instrument: Loki
Sequence: 190724
Dilution Factor: 1
Initials: DPO

Printed: 07/29/19 5:26:24 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH839

Sample Collection Date: 07/22/19

ARF: 89570

APPL ID: AZ95190

QCG: #86BTO-190727BL-242776

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	07/28/19	07/28/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	07/28/19	07/28/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	07/28/19	07/28/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	07/28/19	07/28/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	109	81-118			%	07/28/19	07/28/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	93.8	85-114			%	07/28/19	07/28/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	115	80-119			%	07/28/19	07/28/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	99.3	89-112			%	07/28/19	07/28/19

Quant Method: L0724W.M
Run #: 0727L31
Instrument: Loki
Sequence: 190724
Dilution Factor: 1
Initials: DPO

Printed: 07/29/19 5:26:24 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH856

Sample Collection Date: 07/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89570

APPL ID: AZ95186

QCG: #GRO86-190727BL-242770

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	07/27/19	07/27/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	91.8	85-114			%	07/27/19	07/27/19

Quant Method: LGAS716.M
Run #: 0727L27
Instrument: Loki
Sequence: 190724
Dilution Factor: 1
Initials: DPO

Printed: 07/29/19 4:22:00 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH857

Sample Collection Date: 07/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89570

APPL ID: AZ95187

QCG: #GRO86-190727BL-242770

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	07/27/19	07/27/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	92.6	85-114			%	07/27/19	07/27/19

Quant Method: LGAS716.M
Run #: 0727L28
Instrument: Loki
Sequence: 190724
Dilution Factor: 1
Initials: DPO

Printed: 07/29/19 4:22:00 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH837

Sample Collection Date: 07/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89570

APPL ID: AZ95188

QCG: #GRO86-190727BL-242770

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	07/27/19	07/27/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	98.1	85-114			%	07/27/19	07/27/19

Quant Method: LGAS716.M
Run #: 0727L29
Instrument: Loki
Sequence: 190724
Dilution Factor: 1
Initials: DPO

Printed: 07/29/19 4:22:00 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH838

Sample Collection Date: 07/22/19

ARF: 89570

APPL ID: AZ95189

QCG: #GRO86-190727BL-242770

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	07/27/19	07/27/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	91.3	85-114			%	07/27/19	07/27/19

Quant Method: LGAS716.M
Run #: 0727L30
Instrument: Loki
Sequence: 190724
Dilution Factor: 1
Initials: DPO

Printed: 07/29/19 4:22:00 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH839

Sample Collection Date: 07/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89570

APPL ID: AZ95190

QCG: #GRO86-190727BL-242770

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	07/28/19	07/28/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	93.8	85-114			%	07/28/19	07/28/19

Quant Method: LGAS716.M
Run #: 0727L31
Instrument: Loki
Sequence: 190724
Dilution Factor: 1
Initials: DPO

Printed: 07/29/19 4:22:00 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89570

Sample ID: ERH856

APPL ID: AZ95186

Sample Collection Date: 07/22/19

QCG: #RSKME-190725A-242676

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	07/25/19	07/25/19

Quant Method: RSK0618.M
Run #: 19072520
Instrument: Rocky
Sequence: 190618
Dilution Factor: 1
Initials: CMO

Printed: 07/26/19 8:43:09 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH857

Sample Collection Date: 07/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89570

APPL ID: AZ95187

QCG: #RSKME-190725A-242676

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	07/25/19	07/25/19

Quant Method: RSK0618.M
Run #: 19072521
Instrument: Rocky
Sequence: 190618
Dilution Factor: 1
Initials: CMO

Printed: 07/26/19 8:43:09 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH837

Sample Collection Date: 07/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89570

APPL ID: AZ95188

QCG: #RSKME-190725A-242676

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	07/25/19	07/25/19

Quant Method: RSK0618.M
Run #: 19072522
Instrument: Rocky
Sequence: 190618
Dilution Factor: 1
Initials: CMO

Printed: 07/26/19 8:43:09 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89570
APPL ID: **AZ95189**
QCG: #RSKME-190725A-242676

Sample ID: ERH838

Sample Collection Date: 07/22/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	07/25/19	07/25/19

Quant Method: RSK0618.M
Run #: 19072525
Instrument: Rocky
Sequence: 190618
Dilution Factor: 1
Initials: CMO

Printed: 07/26/19 8:43:09 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH857

Sample Collection Date: 07/22/19

APPL ID: AZ95187

ARF: 89570

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 300.0	NITRATE	3.4	0.5	0.18	0.04	mg/L	1	07/23/19	07/23/19
EPA 300.0	CHLORIDE	424	10.0	2.00	0.80	mg/L	10	07/23/19	07/23/19
EPA 300.0	SULFATE	65.1	10.0	2.00	0.90	mg/L	10	07/23/19	07/23/19

Printed: 08/23/19 2:02:18 PM

APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH838

Sample Collection Date: 07/22/19

APPL ID: AZ95189

ARF: 89570

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 300.0	NITRATE	2.6	0.5	0.18	0.04	mg/L	1	07/23/19	07/23/19
EPA 300.0	SULFATE	17.1	1.0	0.20	0.09	mg/L	1	07/23/19	07/23/19
EPA 300.0	CHLORIDE	100	10.0	2.00	0.80	mg/L	10	07/23/19	07/23/19

Printed: 08/23/19 2:02:18 PM

APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH857

Sample Collection Date: 07/22/19

APPL ID: AZ95187

ARF: 89570

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 353.2	NITRATE-NITRITE-N	0.89	0.10	0.090	0.028	mg/L	1	07/31/19	07/31/19
SM 2320B	BICARBONATE AS CaCO ₃	109	2.0	1.70	0.85	mg/L	1	07/31/19	07/31/19
SM 2320B	CARBONATE AS CaCO ₃	1.70 U	2.0	1.70	0.85	mg/L	1	07/31/19	07/31/19
SM 2320B	TOTAL ALKALINITY AS CaCO ₃	109	2.0	1.70	0.85	mg/L	1	07/31/19	07/31/19
SM3500FeB	FERROUS IRON	0.32 U	1.0	0.32	0.16	mg/L	1	08/02/19	08/02/19
SW846 9060A	TOTAL ORGANIC CARBON	0.71 J	0.93	0.350	0.130	mg/L	1	08/02/19	08/02/19

J = Estimated value.

Printed: 08/28/19 9:16:06 AM

APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH838

Sample Collection Date: 07/22/19

APPL ID: AZ95189

ARF: 89570

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 353.2	NITRATE-NITRITE-N	0.49	0.10	0.090	0.028	mg/L	1	07/31/19	07/31/19
SM 2320B	BICARBONATE AS CaCO ₃	60.3	2.0	1.70	0.85	mg/L	1	07/31/19	07/31/19
SM 2320B	CARBONATE AS CaCO ₃	1.70 U	2.0	1.70	0.85	mg/L	1	07/31/19	07/31/19
SM 2320B	TOTAL ALKALINITY AS CaCO ₃	60.3	2.0	1.70	0.85	mg/L	1	07/31/19	07/31/19
SM3500FeB	FERROUS IRON	0.32 U	1.0	0.32	0.16	mg/L	1	07/23/19	07/23/19
SW846 9060A	TOTAL ORGANIC CARBON	0.51 J	0.93	0.350	0.130	mg/L	1	08/02/19	08/02/19

J = Estimated value.

Printed: 08/28/19 9:16:06 AM

APPL-F1-SC-NoMC-REG MDLs

QC FORMS

EPA 8015B-eLL

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89570

Case No: 89570

Date Analyzed: 07/30/19

Matrix: WATER

Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: OCTACOSANE (S)			SURROGATE: ORTHO-TERPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190727A-BLK	Blank	60-142	106		56-125	81.7	
190727A-LCS	Lab Control Spike	60-142	124		56-125	98.8	
190727A-LCSD	Lab Control SpikeD	60-142	140		56-125	98.9	
AZ95187	ERH857	60-142	94.7		56-125	84.4	
AZ95189-MS	Matrix Spike	60-142	135		56-125	102	
AZ95189-MSD	Matrix SpikeD	60-142	113		56-125	98.0	
AZ95189	ERH838	60-142	119		56-125	81.4	
AZ95190	ERH839	60-142	93.1		56-125	80.8	

Comments: Batch: #DOC53-190727A

Printed: 08/08/19 11:32:40 AM
Form 2 & 8, Surrogate Recovery Summary

EPA 8015B-eL

Form 4

Blank Summary

Lab Name: APPL, Inc.
Case No: 89570
Matrix: WATER
Blank ID: 190727A-BLK

SDG No: 89570
Date Analyzed: 07/30/19
Instrument: Apollo
Time Analyzed: 1838

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190727A-BLK	Blank	713254	07/30/19 1838
190727A-LCS	Lab Control Spike	713255	07/30/19 1858
190727A-LCSD	Lab Control SpikeD	713256	07/30/19 1917
AZ95187	ERH857	713257	07/30/19 1937
190727A-MS	Matrix Spike	713258	07/30/19 1957
190727A-MSD	Matrix SpikeD	713259	07/30/19 2017
AZ95189	ERH838	713260	07/30/19 2037
AZ95190	ERH839	713261	07/30/19 2057

Comments: Batch: #DOC53-190727A

Method Blank
EPA 8015B TPH LIQ-LIQ

Blank Name/QCG: **190727W-95189 - 243221**
Batch ID: #DOC53-190727A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	DIESEL (C10-C24)	25.00 U	40.0	25.00	13.07	ug/L	07/27/19	07/30/19
BLANK	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	07/27/19	07/30/19
BLANK	SURROGATE: OCTACOSANE (S)	106	60-142			%	07/27/19	07/30/19
BLANK	SURROGATE: ORTHO-TERPHEN	81.7	56-125			%	07/27/19	07/30/19

Quant Method:DOC0617.M
Run #:713254
Instrument:Apollo
Sequence:190713
Initials:BTI

GC SC-Blank-REG MDLs-DOD
Printed: 08/08/19 11:32:39 AM

EPA 8015B-eL

Form 4

LCS Summary

Lab Name: APPL, Inc.
Case No: 89570
Matrix: WATER
LCS ID: 190727A-LCS

SDG No: 89570
Date Analyzed: 07/30/19
Instrument: Apollo
Time Analyzed: 1858

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190727A-BLK	Blank	713254	07/30/19 1838
190727A-LCS	Lab Control Spike	713255	07/30/19 1858
190727A-LCSD	Lab Control Spiked	713256	07/30/19 1917
AZ95187	ERH857	713257	07/30/19 1937
190727A-MS	Matrix Spike	713258	07/30/19 1957
190727A-MSD	Matrix Spiked	713259	07/30/19 2017
AZ95189	ERH838	713260	07/30/19 2037
AZ95190	ERH839	713261	07/30/19 2057

Comments: Batch: #DOC53-190727A

Laboratory Control Spike Recoveries

EPA 8015B TPH LIQ-LIQ

APPL ID: 190727W-95189 LCS - 243221
 Batch ID: #DOC53-190727A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
DIESEL (C10-C24)	1250	1140	1140	91.2	91.2	36-132	0.0	30
OIL (C24-C40)	1250	1190	1260	95.2	101	41-113	5.7	30

SURROGATE: OCTACOSANE (S)	75.0	92.7	105	124	140	60-142		
SURROGATE: ORTHO-TERPHENYL (S)	75.0	74.1	74.2	98.8	98.9	56-125		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	DOC0617.M	DOC0617.M
Extraction Date :	07/27/19	07/27/19
Analysis Date :	07/30/19	07/30/19
Instrument :	Apollo	Apollo
Run :	713255	713256
Initials :	BTI	

Matrix Spike Recoveries

EPA 8015B TPH LIQ-LIQ

APPL ID: 190727W-95189 MS - 243221
 Batch ID: #DOC53-190727A
 Sample ID: AZ95189
 Client ID: ERH838

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
DIESEL (C10-C24)	1250	ND	1170	1170	93.6	93.6	36-132	0.0	30
OIL (C24-C40)	1250	ND	1190	1200	95.2	96.0	41-113	0.84	30
SURROGATE: OCTACOSANE (S)	75.0	NA	101	84.4	135	113	60-142		
SURROGATE: ORTHO-TERPHENYL (S)	75.0	NA	76.5	73.5	102	98.0	56-125		

Comments: _____

	Primary	SPK	DUP
Quant Method :	DOC0617.M	DOC0617.M	DOC0617.M
Extraction Date :	07/27/19	07/27/19	07/27/19
Analysis Date :	07/30/19	07/30/19	07/30/19
Instrument :	Apollo	Apollo	Apollo
Run :	713258	713259	713259
Initials :	BTI		

Printed: 08/08/19 11:32:55 AM
 APPL MSD SCII

8270D-SIM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.
Case No: 89570
Matrix: WATER

SDG No: 89570
Date Analyzed: 07/30/19
Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: 2-METHYLNAPHTHALENE-D10 (S)			SURROGATE: FLUORANTHENE-D10 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190725A-BLK	Blank	39-114	99.7		58-120	118	
AZ95189	ERH838	39-114	101		58-120	114	
AZ95190	ERH839	39-114	105		58-120	117	
AZ95187	ERH857	39-114	97.7		58-120	109	
190725A-LCS	Lab Control Spike	39-114	105		58-120	110	
190725A-LCSD	Lab Control SpikeD	39-114	99.5		58-120	105	
AZ95189-MS	Matrix Spike	39-114	107		58-120	114	
AZ95189-MSD	Matrix SpikeD	39-114	101		58-120	113	

Comments: Batch: #SIM53-190725A

8270D-SIM

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89570

Case No: 89570

Date Analyzed: 07/30/19

Matrix: WATER

Instrument: Yoda

Blank ID: 190725A-BLK

Time Analyzed: 1034

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190725A-BLK	Blank	0717Y273	07/30/19 1034
AZ95189	ERH838	0717Y277	07/30/19 1217
AZ95190	ERH839	0717Y278	07/30/19 1240
AZ95187	ERH857	0717Y279	07/30/19 1303
190725A-LCS	Lab Control Spike	0717Y280	07/30/19 1327
190725A-LCSD	Lab Control Spiked	0717Y281	07/30/19 1350
190725A-MS	Matrix Spike	0717Y282	07/30/19 1413
190725A-MSD	Matrix Spiked	0717Y283	07/30/19 1437

Comments: Batch: #SIM53-190725A

Printed: 07/30/19 2:55:27 PM
Form 4, Blank Summary

Method Blank
EPA 8270D SIM LIQ-LIQ

Blank Name/QCG: **190725W-95189 - 242823**
Batch ID: #SIM53-190725A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/25/19	07/30/19
BLANK	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/25/19	07/30/19
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/25/19	07/30/19
BLANK	SURROGATE: 2-METHYLNAPHT	99.7	39-114			%	07/25/19	07/30/19
BLANK	SURROGATE: FLUORANTHENE-	118	58-120			%	07/25/19	07/30/19

Quant Method: Y0717P.M
Run #: 0717Y273
Instrument: Yoda
Sequence: Y190717P
Initials: MA

GC SC-Blank-REG MDLs-DOD
Printed: 07/30/19 2:54:57 PM

8270D-SIM

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89570

Case No: 89570

Date Analyzed: 07/30/19

Matrix: WATER

Instrument: Yoda

LCS ID: 190725A-LCS

Time Analyzed: 1327

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190725A-BLK	Blank	0717Y273	07/30/19 1034
AZ95189	ERH838	0717Y277	07/30/19 1217
AZ95190	ERH839	0717Y278	07/30/19 1240
AZ95187	ERH857	0717Y279	07/30/19 1303
190725A-LCS	Lab Control Spike	0717Y280	07/30/19 1327
190725A-LCSD	Lab Control Spiked	0717Y281	07/30/19 1350
190725A-MS	Matrix Spike	0717Y282	07/30/19 1413
190725A-MSD	Matrix Spiked	0717Y283	07/30/19 1437

Comments: Batch: #SIM53-190725A

Printed: 07/30/19 2:55:28 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8270D SIM LIQ-LIQ

APPL ID: 190725W-95189 LCS - 242823
 Batch ID: #SIM53-190725A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1-METHYLNAPHTHALENE	6.25	3.97	3.75	63.5	60.0	41-115	5.7	20
2-METHYLNAPHTHALENE	6.25	4.87	4.68	77.9	74.9	39-114	4.0	20
NAPHTHALENE	6.25	4.52	4.25	72.3	68.0	43-114	6.2	20

SURROGATE: 2-METHYLNAPHTHALEN	6.25	6.57	6.22	105	99.5	39-114		
SURROGATE: FLUORANTHENE-D10 (S)	6.25	6.87	6.57	110	105	58-120		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	Y0717P.M	Y0717P.M
Extraction Date :	07/25/19	07/25/19
Analysis Date :	07/30/19	07/30/19
Instrument :	Yoda	Yoda
Run :	0717Y280	0717Y281
Initials :	MA	

Matrix Spike Recoveries

EPA 8270D SIM LIQ-LIQ

APPL ID: 190725W-95189 MS - 242823
 Batch ID: #SIM53-190725A
 Sample ID: AZ95189
 Client ID: ERH838

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1-METHYLNAPHTHALENE	6.25	ND	4.02	3.95	64.3	63.2	41-115	1.8	20
2-METHYLNAPHTHALENE	6.25	ND	5.01	4.87	80.2	77.9	39-114	2.8	20
NAPHTHALENE	6.25	ND	4.52	4.39	72.3	70.2	43-114	2.9	20
SURROGATE: 2-METHYLNAPHTHALEN	6.25	NA	6.68	6.29	107	101	39-114		
SURROGATE: FLUORANTHENE-D10 (S)	6.25	NA	7.13	7.05	114	113	58-120		

Comments: _____

Primary	SPK	DUP
Quant Method :	Y0717P.M	Y0717P.M
Extraction Date :	07/25/19	07/25/19
Analysis Date :	07/30/19	07/30/19
Instrument :	Yoda	Yoda
Run :	0717Y282	0717Y283
Initials :	MA	

Printed: 07/30/19 2:55:18 PM
 APPL MSD SCII

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: _____
Matrix: Soil
ID: 0717Y002.D

SDG No: _____
Date Analyzed: 07/17/19
Instrument: Yoda
Time Analyzed: 9:34

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	0.1 SIM 07/10/19	0717Y003.D	07/17/19 9:51
2	0.2 SIM 07/10/19	0717Y004.D	07/17/19 10:14
3	0.5 SIM 07/10/19	0717Y005.D	07/17/19 10:38
4	1.0 SIM 07/10/19	0717Y006.D	07/17/19 11:01
5	5.0 SIM 07/10/19	0717Y007.D	07/17/19 11:25
6	10 SIM 07/10/19	0717Y008.D	07/17/19 11:48
7	50 SIM 07/10/19	0717Y009.D	07/17/19 12:11
8	100 SIM 07/10/19	0717Y010.D	07/17/19 12:35
9	SS SIM 07/10/19	0717Y012.D	07/17/19 13:32
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

m/e

51 10 - 80% of mass 198	<u>25.9</u>
68 0 - 2% of mass 69	<u>0.0</u>
70 0 - 2% of mass 69	<u>0.5</u>
127 10 - 80% of mass 198	<u>42.1</u>
197 0 - 2% of mass 198	<u>0.0</u>
198 100 - 100% of mass 198	<u>100.0</u>
199 5 - 9% of mass 198	<u>6.7</u>
275 10 - 60% of mass 198	<u>34.0</u>
365 1 - 100% of mass 198	<u>4.6</u>
441 0.01 - 24% of mass 442	<u>16.2</u>
442 50 - 500% of mass 198	<u>178.7</u>
443 17 - 23% of mass 442	<u>19.8</u>

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: 89570
 Matrix: Water
 ID: 0717Y271.D

SDG No: 89570
 Date Analyzed: 7/30/2019
 Instrument: Yoda
 Time Analyzed: 9:50

Client Sample No.	APPL ID.	File ID.	Date Analyzed	
1	Blank	190725A BLK 1/800	0717Y273.D	7/30/2019 10:34
2	ERH838	AZ95189W26 1/800	0717Y277.D	7/30/2019 12:17
3	ERH839	AZ95190W07 1/800	0717Y278.D	7/30/2019 12:40
4	ERH857	AZ95187W14 1/800	0717Y279.D	7/30/2019 13:03
5	Lab Control Spike	190725A LCS-2 1/800	0717Y280.D	7/30/2019 13:27
6	Lab Control SpikeD	190725A LCSD-2 1/800	0717Y281.D	7/30/2019 13:50
7		AZ95189W27 MS-2 1/80	0717Y282.D	7/30/2019 14:13
8		AZ95189W30 MSD-2 1/8	0717Y283.D	7/30/2019 14:37
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e

51	10 - 80% of mass 198	25.5
68	0 - 2% of mass 69	0.0
70	0 - 2% of mass 69	0.0
127	10 - 80% of mass 198	42.9
197	0 - 2% of mass 198	0.0
198	100 - 100% of mass 198	100.0
199	5 - 9% of mass 198	6.6
275	10 - 60% of mass 198	33.0
365	1 - 100% of mass 198	4.6
441	0.01 - 24% of mass 442	11.5
442	50 - 500% of mass 198	195.9
443	17 - 23% of mass 442	19.8

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89570
 Lab File ID (Standard): 0717Y272.D Date Analyzed: 07/30/19
 Instrument ID: Yoda Time Analyzed: 10:06
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

	Napthalene-D8(IS)		Acenaphthene-D10(IS)		Phenanthrene-D10(IS)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	72290	4.53	38053	6.66	79844	8.41
UPPER LIMIT	144580	4.70	76106	6.83	159688	8.58
LOWER LIMIT	36145	4.36	19027	6.49	39922	8.24
SAMPLE NO.						
01 190725A BLK 1/800	72894	4.53	40606	6.66	83470	8.42
02 AZ95189W26 1/800	79138	4.53	44395	6.67	89657	8.43
03 AZ95190W07 1/800	76476	4.52	42642	6.66	88846	8.42
04 AZ95187W14 1/800	77564	4.52	42587	6.66	91490	8.42
05 190725A LCS-2 1/800	69733	4.52	38363	6.66	87976	8.42
06 190725A LCSD-2 1/800	75112	4.52	40135	6.66	93783	8.41
07 AZ95189W27 MS-2 1/800	73796	4.52	39692	6.66	87469	8.41
08 AZ95189W30 MSD-2 1/800	76637	4.52	41434	6.66	88361	8.42
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89570
 Lab File ID (Standard): 0717Y272.D Date Analyzed: 07/30/19
 Instrument ID: Yoda Time Analyzed: 10:06
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

	Chrysene-D12(IS)		Perylene-D12(IS)		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12 HOUR STD	107147	11.68	115550	14.21		
UPPER LIMIT	214294	11.85	231100	14.38		
LOWER LIMIT	53574	11.51	57775	14.04		
SAMPLE NO.						
01 190725A BLK 1/800	119346	11.70	121130	14.22		
02 AZ95189W26 1/800	126993	11.69	131345	14.21		
03 AZ95190W07 1/800	123087	11.69	129727	14.21		
04 AZ95187W14 1/800	125737	11.69	114613	14.21		
05 190725A LCS-2 1/800	125618	11.68	133560	14.21		
06 190725A LCSD-2 1/800	124961	11.68	87220	14.21		
07 AZ95189W27 MS-2 1/800	120068	11.68	126712	14.21		
08 AZ95189W30 MSD-2 1/800	124443	11.68	133404	14.21		
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

EPA 8270D

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89570

Case No: 89570

Date Analyzed: 07/29/19

Matrix: WATER

Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: 2,4,6-TRIBROMOPHENOL (S)			SURROGATE: 2-FLUORBIPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190725A-BLK	Blank	43-140	93.5		44-119	77.7	
190725A-LCS	Lab Control Spike	43-140	94.4		44-119	80.0	
190725A-LCSD	Lab Control SpikeD	43-140	94.0		44-119	78.5	
AZ95187	ERH857	43-140	96.2		44-119	80.6	
AZ95189-MS	Matrix Spike	43-140	95.6		44-119	81.6	
AZ95189-MSD	Matrix SpikeD	43-140	95.6		44-119	81.6	
AZ95189	ERH838	43-140	93.7		44-119	81.0	
AZ95190	ERH839	43-140	98.0		44-119	83.8	

Comments: Batch: #87DC5-190725A

Printed: 07/30/19 2:51:48 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8270D

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89570

Case No: 89570

Date Analyzed: 07/29/19

Matrix: WATER

Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: 2-FLUOROPHENOL (S)			SURROGATE: NITROBENZENE-D5 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190725A-BLK	Blank	19-119	79.3		44-120	88.5	
190725A-LCS	Lab Control Spike	19-119	82.4		44-120	86.4	
190725A-LCSD	Lab Control Spiked	19-119	82.0		44-120	84.0	
AZ95187	ERH857	19-119	85.1		44-120	88.6	
AZ95189-MS	Matrix Spike	19-119	77.6		44-120	85.6	
AZ95189-MSD	Matrix Spiked	19-119	81.2		44-120	86.4	
AZ95189	ERH838	19-119	82.5		44-120	89.5	
AZ95190	ERH839	19-119	87.0		44-120	90.4	

Comments: Batch: #87DC5-190725A

Printed: 07/30/19 2:51:48 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8270D

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.
Case No: 89570
Matrix: WATER

SDG No: 89570
Date Analyzed: 07/29/19
Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: PHENOL-D6 (S)			SURROGATE: TERPHENYL-D14 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190725A-BLK	Blank	10-115	79.9		50-134	71.3	
190725A-LCS	Lab Control Spike	10-115	80.8		50-134	77.2	
190725A-LCSD	Lab Control Spiked	10-115	81.6		50-134	75.7	
AZ95187	ERH857	10-115	86.4		50-134	72.2	
AZ95189-MS	Matrix Spike	10-115	79.2		50-134	77.4	
AZ95189-MSD	Matrix Spiked	10-115	80.8		50-134	74.6	
AZ95189	ERH838	10-115	84.5		50-134	71.1	
AZ95190	ERH839	10-115	89.4		50-134	76.9	

Comments: Batch: #87DC5-190725A

EPA 8270D

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89570

Case No: 89570

Date Analyzed: 07/29/19

Matrix: WATER

Instrument: Yoda

Blank ID: 190725A-BLK

Time Analyzed: 1431

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190725A-BLK	Blank	0722Y127	07/29/19 1431
190725A-LCS	Lab Control Spike	0722Y128	07/29/19 1500
190725A-LCSD	Lab Control Spiked	0722Y129	07/29/19 1527
AZ95187	ERH857	0722Y130	07/29/19 1555
190725A-MS	Matrix Spike	0722Y131	07/29/19 1623
190725A-MSD	Matrix Spiked	0722Y132	07/29/19 1651
AZ95189	ERH838	0722Y133	07/29/19 1719
AZ95190	ERH839	0722Y134	07/29/19 1747

Comments: Batch: #87DC5-190725A

Printed: 07/30/19 2:51:55 PM
Form 4, Blank Summary

Method Blank
EPA 8270D WATER

Blank Name/QCG: **190725W-95189 - 242822**
Batch ID: #87DC5-190725A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	07/25/19	07/29/19
BLANK	SURROGATE: 2,4,6-TRIBROMOP	93.5	43-140			%	07/25/19	07/29/19
BLANK	SURROGATE: 2-FLUORBIPHENY	77.7	44-119			%	07/25/19	07/29/19
BLANK	SURROGATE: 2-FLUOROPHENO	79.3	19-119			%	07/25/19	07/29/19
BLANK	SURROGATE: NITROBENZENE-	88.5	44-120			%	07/25/19	07/29/19
BLANK	SURROGATE: PHENOL-D6 (S)	79.9	10-115			%	07/25/19	07/29/19
BLANK	SURROGATE: TERPHENYL-D14 (	71.3	50-134			%	07/25/19	07/29/19

Quant Method: Y0722NC.M
Run #: 0722Y127
Instrument: Yoda
Sequence: Y190722
Initials: JPR

GC SC-Blank-REG MDLs-DOD
Printed: 07/30/19 2:52:02 PM

EPA 8270D

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89570

Case No: 89570

Date Analyzed: 07/29/19

Matrix: WATER

Instrument: Yoda

LCS ID: 190725A-LCS

Time Analyzed: 1500

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190725A-BLK	Blank	0722Y127	07/29/19 1431
190725A-LCS	Lab Control Spike	0722Y128	07/29/19 1500
190725A-LCSD	Lab Control Spiked	0722Y129	07/29/19 1527
AZ95187	ERH857	0722Y130	07/29/19 1555
190725A-MS	Matrix Spike	0722Y131	07/29/19 1623
190725A-MSD	Matrix Spiked	0722Y132	07/29/19 1651
AZ95189	ERH838	0722Y133	07/29/19 1719
AZ95190	ERH839	0722Y134	07/29/19 1747

Comments: Batch: #87DC5-190725A

Printed: 07/30/19 2:52:12 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8270D WATER

APPL ID: 190725W-95189 LCS - 242822
 Batch ID: #87DC5-190725A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
PHENOL	62.5	56.0	54.9	89.6	87.8	10-115	2.0	20
SURROGATE: 2,4,6-TRIBROMOPHENOL	250	236	235	94.4	94.0	43-140		
SURROGATE: 2-FLUOROBIPHENYL (S)	125	100	98.1	80.0	78.5	44-119		
SURROGATE: 2-FLUOROPHENOL (S)	250	206	205	82.4	82.0	19-119		
SURROGATE: NITROBENZENE-D5 (S)	125	108	105	86.4	84.0	44-120		
SURROGATE: PHENOL-D6 (S)	250	202	204	80.8	81.6	10-115		
SURROGATE: TERPHENYL-D14 (S)	125	96.5	94.6	77.2	75.7	50-134		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	Y0722NC.M	Y0722NC.M
Extraction Date :	07/25/19	07/25/19
Analysis Date :	07/29/19	07/29/19
Instrument :	Yoda	Yoda
Run :	0722Y128	0722Y129
Initials :	JPR	

Matrix Spike Recoveries

EPA 8270D WATER

APPL ID: 190725W-95189 MS - 242822
 Batch ID: #87DC5-190725A
 Sample ID: AZ95189
 Client ID: ERH838

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
PHENOL	62.5	ND	56.5	57.3	90.4	91.7	10-115	1.4	20
SURROGATE: 2,4,6-TRIBROMOPHENOL	250	NA	239	239	95.6	95.6	43-140		
SURROGATE: 2-FLUOROBIPHENYL (S)	125	NA	102	102	81.6	81.6	44-119		
SURROGATE: 2-FLUOROPHENOL (S)	250	NA	194	203	77.6	81.2	19-119		
SURROGATE: NITROBENZENE-D5 (S)	125	NA	107	108	85.6	86.4	44-120		
SURROGATE: PHENOL-D6 (S)	250	NA	198	202	79.2	80.8	10-115		
SURROGATE: TERPHENYL-D14 (S)	125	NA	96.7	93.2	77.4	74.6	50-134		

Comments: _____

Primary	SPK	DUP
Quant Method :	Y0722NC.M	Y0722NC.M
Extraction Date :	07/25/19	07/25/19
Analysis Date :	07/29/19	07/29/19
Instrument :	Yoda	Yoda
Run :	0722Y131	0722Y132
Initials :	JPR	

Printed: 07/30/19 2:52:23 PM
 APPL MSD SCII

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: _____
 Matrix: Soil
 ID: 0722Y002.D

SDG No: _____
 Date Analyzed: 07/22/19
 Instrument: Yoda
 Time Analyzed: 13:46

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	4ug/ml 8270 07/12/19	0722Y003.D	07/22/19 14:01
2	5ug/ml 8270 07/12/19	0722Y004.D	07/22/19 14:29
3	10ug/ml 8270 07/12/1	0722Y005.D	07/22/19 14:57
4	20ug/ml 8270 07/12/1	0722Y006.D	07/22/19 15:25
5	40ug/ml 8270 07/12/1	0722Y007.D	07/22/19 15:53
6	50ug/ml 8270 07/12/1	0722Y008.D	07/22/19 16:21
7	60ug/ml 8270 07/12/1	0722Y009.D	07/22/19 16:49
8	80ug/ml 8270 07/12/1	0722Y010.D	07/22/19 17:17
9	100ug/ml 8270 07/12/	0722Y011.D	07/22/19 17:45
10	SS 8270 07/12/19	0722Y012.D	07/22/19 18:13
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

m/e

51 9.95 - 80.04% of mass 198	<u>26.6</u>
68 0 - 2% of mass 69	<u>0.0</u>
70 0 - 2% of mass 69	<u>0.5</u>
127 10 - 80% of mass 198	<u>42.2</u>
197 0 - 2% of mass 198	<u>0.0</u>
198 100 - 100% of mass 198	<u>100.0</u>
199 5 - 9% of mass 198	<u>6.7</u>
275 10 - 60% of mass 198	<u>32.8</u>
365 1 - 100% of mass 198	<u>4.2</u>
441 0.01 - 24% of mass 442	<u>16.1</u>
442 50 - 500% of mass 198	<u>176.3</u>
443 15 - 24% of mass 442	<u>19.5</u>

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 89570
Matrix: Water
ID: 0722Y119.D

SDG No: 89570
Date Analyzed: 07/29/19
Instrument: Yoda
Time Analyzed: 9:07

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	50ug/ml 8270 07/12/1	0722Y121.D	07/29/19 10:45
2	Blank	190725A BLK 1/800	07/29/19 14:31
3	Lab Control Spike	190725A LCS-1 1/800	07/29/19 15:00
4	Lab Control SpikeD	190725A LCSD-1 1/800	07/29/19 15:27
5	ERH857	AZ95187W14 1/800	07/29/19 15:55
6		AZ95189W24 MS-1 1/80	07/29/19 16:23
7		AZ95189W31 MSD-1 1/8	07/29/19 16:51
8	ERH838	AZ95189W26 1/800	07/29/19 17:19
9	ERH839	AZ95190W07 1/800	07/29/19 17:47
10		50ug/ml 8270 07/12/1	07/29/19 21:03
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

m/e

51 9.95 - 80.04% of mass 198	28.1
68 0 - 2% of mass 69	0.0
70 0 - 2% of mass 69	0.5
127 10 - 80% of mass 198	44.5
197 0 - 2% of mass 198	0.0
198 100 - 100% of mass 198	100.0
199 5 - 9% of mass 198	6.9
275 10 - 60% of mass 198	32.4
365 1 - 100% of mass 198	4.2
441 0.01 - 24% of mass 442	16.3
442 50 - 500% of mass 198	177.6
443 15 - 24% of mass 442	19.6

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89570
 Lab File ID (Standard): 0722Y121.D Date Analyzed: 07/29/19
 Instrument ID: Yoda Time Analyzed: 10:45
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

		1,4-dichlorobenzene-D4(IS)		Napthalene-D8(IS)		Acenaphthene-D10(IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		283867	5.01	1092760	6.49	603872	8.53
UPPER LIMIT		567734	5.18	2185520	6.66	1207744	8.70
LOWER LIMIT		141934	4.84	546380	6.32	301936	8.36
SAMPLE NO.							
01	190725A BLK 1/800	277806	5.00	1158340	6.47	692778	8.52
02	190725A LCS-1 1/800	276356	5.00	1135470	6.47	688835	8.52
03	190725A LCSD-1 1/800	277066	5.00	1172430	6.47	702341	8.52
04	AZ95187W14 1/800	265149	5.00	1157970	6.47	697115	8.52
05	AZ95189W24 MS-1 1/800	261380	5.00	1136860	6.48	671721	8.52
06	AZ95189W31 MSD-1 1/800	273193	5.00	1142480	6.47	689652	8.52
07	AZ95189W26 1/800	271768	5.00	1167970	6.48	708289	8.52
08	AZ95190W07 1/800	271212	5.00	1160530	6.47	684458	8.51
09	50ug/ml 8270 07/12/19 (	338373	5.00	1326300	6.48	741640	8.52
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89570
 Lab File ID (Standard): 0722Y121.D Date Analyzed: 07/29/19
 Instrument ID: Yoda Time Analyzed: 10:45
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

		Phenanthrene-D10(IS)		Chrysene-D12(IS)		Perylene-D12(IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		1210710	10.28	1108200	13.40	1284640	15.15
UPPER LIMIT		2421420	10.45	2216400	13.57	2569280	15.32
LOWER LIMIT		605355	10.11	554100	13.23	642320	14.98
SAMPLE NO.							
01	190725A BLK 1/800	1407710	10.27	1400270	13.38	1506560	15.14
02	190725A LCS-1 1/800	1424540	10.27	1320110	13.39	1532800	15.14
03	190725A LCSD-1 1/800	1425790	10.27	1330410	13.39	1539580	15.14
04	AZ95187W14 1/800	1413990	10.26	1389770	13.38	1388000	15.14
05	AZ95189W24 MS-1 1/800	1376710	10.27	1272610	13.39	1479580	15.15
06	AZ95189W31 MSD-1 1/800	1414580	10.27	1326050	13.39	1521430	15.14
07	AZ95189W26 1/800	1430690	10.26	1404810	13.38	1538810	15.14
08	AZ95190W07 1/800	1353460	10.27	1336450	13.39	1447490	15.14
09	50ug/ml 8270 07/12/19 (	1527030	10.27	1382390	13.39	1619110	15.15
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

EPA 8270D

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89570

Case No: 89570

Date Analyzed: 07/30/19

Matrix: WATER

Instrument: Linus

Blank ID: 190726A-BLK

Time Analyzed: 1645

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190726A-BLK	Blank	0730L014	07/30/19 1645
190726A-LCS	Lab Control Spike	0730L015	07/30/19 1709
190726A-LCSD	Lab Control SpikeD	0730L016	07/30/19 1732
AZ95187	ERH857	0730L017	07/30/19 1756
190726A-MS	Matrix Spike	0730L018	07/30/19 1819
190726A-MSD	Matrix SpikeD	0730L019	07/30/19 1842
AZ95189	ERH838	0730L020	07/30/19 1905
AZ95190	ERH839	0730L021	07/30/19 1928

Comments: Batch: #87DME-190726A

Printed: 07/31/19 10:55:09 AM
Form 4, Blank Summary

Method Blank
EPA 8270D MODIFIED WATER

Blank Name/QCG: **190726W-95189 - 242855**
Batch ID: #87DME-190726A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	2-(2-METHOXYETHOXY)-ETHAN	80.0 U	100	80.0	40.0	ug/L	07/26/19	07/30/19

Quant Method: LMEE0430.M
Run #: 0730L014
Instrument: Linus
Sequence: L190730M
Initials: MA

GC SC-Blank-REG MDLs-DOD
Printed: 07/31/19 10:55:03 AM

EPA 8270D

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89570

Case No: 89570

Date Analyzed: 07/30/19

Matrix: WATER

Instrument: Linus

LCS ID: 190726A-LCS

Time Analyzed: 1709

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190726A-BLK	Blank	0730L014	07/30/19 1645
190726A-LCS	Lab Control Spike	0730L015	07/30/19 1709
190726A-LCSD	Lab Control Spiked	0730L016	07/30/19 1732
AZ95187	ERH857	0730L017	07/30/19 1756
190726A-MS	Matrix Spike	0730L018	07/30/19 1819
190726A-MSD	Matrix Spiked	0730L019	07/30/19 1842
AZ95189	ERH838	0730L020	07/30/19 1905
AZ95190	ERH839	0730L021	07/30/19 1928

Comments: Batch: #87DME-190726A

Printed: 07/31/19 10:55:10 AM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8270D MODIFIED WATER

APPL ID: 190726W-95189 LCS - 242855
 Batch ID: #87DME-190726A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
2-(2-METHOXYETHOXY)-ETHANOL	80.0	103	121	129	151 #	30-130	16.1	20

= Recovery is outside QC limits.

Comments:

Primary	SPK	DUP
Quant Method :	LMEE0430.M	LMEE0430.M
Extraction Date :	07/26/19	07/26/19
Analysis Date :	07/30/19	07/30/19
Instrument :	Linus	Linus
Run :	0730L015	0730L016
Initials :	MA	

Matrix Spike Recoveries

EPA 8270D MODIFIED WATER

APPL ID: 190726W-95189 MS - 242855
 Batch ID: #87DME-190726A
 Sample ID: AZ95189
 Client ID: ERH838

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
2-(2-METHOXYETHOXY)-ETHANOL	80.0	ND	90.8	92.5	114	116	30-130	1.9	20

Comments: _____

	<u>SPK</u>	<u>DUP</u>
Quant Method :	LMEE0430.M	LMEE0430.M
Extraction Date :	07/26/19	07/26/19
Analysis Date :	07/30/19	07/30/19
Instrument :	Linus	Linus
Run :	0730L018	0730L019
Initials :	MA	

Printed: 07/31/19 10:55:08 AM
 APPL MSD SCII

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: 89570
 Matrix: Water
 ID: 0730L013.D

SDG No: 89570
 Date Analyzed: 7/30/2019
 Instrument: Linus
 Time Analyzed: 16:20

Client Sample No.	APPL ID.	File ID.	Date Analyzed	
1	SV TUNE 07/11/19	0730L013.D	7/30/2019 16:20	
2	Blank	190726A BLK 2/500	0730L014.D	7/30/2019 16:45
3	Lab Control Spike	190726A LCS-1 2/500	0730L015.D	7/30/2019 17:09
4	Lab Control SpikeD	190726A LCSD-1 2/500	0730L016.D	7/30/2019 17:32
5	ERH857	AZ95187W10 2/500	0730L017.D	7/30/2019 17:56
6		AZ95189W36 MS-1 2/50	0730L018.D	7/30/2019 18:19
7		AZ95189W18 MSD-1 2/5	0730L019.D	7/30/2019 18:42
8	ERH838	AZ95189W35 2/500	0730L020.D	7/30/2019 19:05
9	ERH839	AZ95190W06 2/500	0730L021.D	7/30/2019 19:28
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e

51 10 - 80% of mass 198	12.6
68 0 - 2% of mass 69	0.0
69 100 - 100% of mass 69	100.0
70 0 - 2% of mass 69	0.3
127 10 - 80% of mass 198	33.4
197 0 - 2% of mass 198	0.0
198 100 - 100% of mass 198	100.0
199 5 - 9% of mass 198	6.7
275 10 - 60% of mass 198	33.7
365 1 - 100% of mass 198	4.5
441 0.01 - 24% of mass 442	15.4
442 50 - 500% of mass 198	221.2
443 15 - 24% of mass 442	19.5

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89570
 Lab File ID (Standard): 0730L008.D Date Analyzed: 07/30/19
 Instrument ID: Linus Time Analyzed: 14:27
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

	Phenanthrene-D10(IS)		Chrysene-D12(IS)		Perylene-D12(IS)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	9164100	9.59	9844620	11.89	9933890	13.66
UPPER LIMIT	18328200	9.76	19689240	12.06	19867780	13.83
LOWER LIMIT	4582050	9.42	4922310	11.72	4966945	13.49
SAMPLE NO.						
01 190726A BLK 2/500	8123030	9.59	8906230	11.90	9831220	13.67
02 190726A LCS-1 2/500	7472320	9.59	8004560	11.88	8866060	13.64
03 190726A LCSD-1 2/500	7321660	9.59	7997470	11.88	10753500	13.64
04 AZ95187W10 2/500	7602500	9.59	7725860	11.87	8202910	13.62
05 AZ95189W36 MS-1 2/500	7721520	9.59	8712760	11.87	10823700	13.63
06 AZ95189W18 MSD-1 2/500	7680950	9.59	8479140	11.88	9000810	13.65
07 AZ95189W35 2/500	8085070	9.59	9204490	11.89	10445000	13.66
08 AZ95190W06 2/500	8456640	9.59	8834770	11.90	10808300	13.67
09 500ug/ml MEE 04/30/19	6445650	9.58	8956590	11.88	9413880	13.64
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89570
 Lab File ID (Standard): 0730L008.D Date Analyzed: 07/30/19
 Instrument ID: Linus Time Analyzed: 14:27
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

		1,4-dichlorobenzene-D4(IS)		Napthalene-D8(IS)		Acenaphthene-D10(IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		1716820	6.12	6268020	7.05	4318910	8.42
UPPER LIMIT		3433640	6.29	12536040	7.22	8637820	8.59
LOWER LIMIT		858410	5.95	3134010	6.88	2159455	8.25
SAMPLE NO.							
01	190726A BLK 2/500	1336800	6.14	4953760	7.06	3582060	8.42
02	190726A LCS-1 2/500	1275340	6.14	4717280	7.06	3276410	8.42
03	190726A LCSD-1 2/500	1099450	6.14	4328760	7.06	3177080	8.42
04	AZ95187W10 2/500	1182140	6.14	4594830	7.06	3381600	8.42
05	AZ95189W36 MS-1 2/500	1410010	6.14	5289150	7.06	3419320	8.42
06	AZ95189W18 MSD-1 2/500	1283910	6.15	4839040	7.06	3412510	8.42
07	AZ95189W35 2/500	1216550	6.15	4923550	7.06	3533970	8.42
08	AZ95190W06 2/500	1399210	6.15	5321440	7.06	3710730	8.42
09	500ug/ml MEE 04/30/19	1430070	6.12	4679510	7.05	3697830	8.42
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89570

Case No: 89570

Date Analyzed: 07/27/19

Matrix: WATER

Instrument: Loki

APPL ID.	Client Sample No.	SURROGATE: 1,2-DICHLOROETHANE-D4 (S)			SURROGATE: 4-BROMOFLUOROBENZENE (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190727BL-LCS	Lab Control Spike	81-118	93.6		85-114	100	
190727BL-LCSD	Lab Control SpikeD	81-118	92.8		85-114	108	
190727BL-BLK	Blank	81-118	101		85-114	97.7	
AZ95186	ERH856	81-118	104		85-114	91.8	
AZ95187	ERH857	81-118	106		85-114	92.6	
AZ95188	ERH837	81-118	110		85-114	98.1	
AZ95189	ERH838	81-118	99.4		85-114	91.3	
AZ95190	ERH839	81-118	109		85-114	93.8	
AZ95189-MS	Matrix Spike	81-118	93.6		85-114	101	
AZ95189-MSD	Matrix SpikeD	81-118	92.8		85-114	96.4	

Comments: Batch: #86BTO-190727BL

Printed: 07/29/19 5:26:18 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.
Case No: 89570
Matrix: WATER

SDG No: 89570
Date Analyzed: 07/27/19
Instrument: Loki

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190727BL-LCS	Lab Control Spike	80-119	98.4		89-112	93.2	
190727BL-LCSD	Lab Control SpikeD	80-119	100		89-112	97.2	
190727BL-BLK	Blank	80-119	107		89-112	100.0	
AZ95186	ERH856	80-119	107		89-112	96.7	
AZ95187	ERH857	80-119	108		89-112	102	
AZ95188	ERH837	80-119	111		89-112	102	
AZ95189	ERH838	80-119	106		89-112	92.6	
AZ95190	ERH839	80-119	115		89-112	99.3	
AZ95189-MS	Matrix Spike	80-119	95.6		89-112	90.8	
AZ95189-MSD	Matrix SpikeD	80-119	94.0		89-112	90.0	

Comments: Batch: #86BTO-190727BL

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89570

Case No: 89570

Date Analyzed: 07/27/19

Matrix: WATER

Instrument: Loki

Blank ID: 190727BL-BLK

Time Analyzed: 2148

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190727BL-LCS	Lab Control Spike	0727L21	07/27/19 1924
190727BL-LCSD	Lab Control Spiked	0727L22	07/27/19 1953
190727BL-BLK	Blank	0727L26	07/27/19 2148
AZ95186	ERH856	0727L27	07/27/19 2217
AZ95187	ERH857	0727L28	07/27/19 2245
AZ95188	ERH837	0727L29	07/27/19 2314
AZ95189	ERH838	0727L30	07/27/19 2343
AZ95190	ERH839	0727L31	07/28/19 0012
190727BL-MS	Matrix Spike	0727L34	07/28/19 0138
190727BL-MSD	Matrix Spiked	0727L35	07/28/19 0207

Comments: Batch: #86BTO-190727BL

Printed: 07/29/19 5:26:22 PM
Form 4, Blank Summary

Method Blank
EPA 8260B BTEX WATER

Blank Name/QCG: 190727W-95189 - 242776
Batch ID: #86BTO-190727BL

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	07/27/19	07/27/19
BLANK	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	07/27/19	07/27/19
BLANK	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	07/27/19	07/27/19
BLANK	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	07/27/19	07/27/19
BLANK	SURROGATE: 1,2-DICHLOROET	101	81-118			%	07/27/19	07/27/19
BLANK	SURROGATE: 4-BROMOFLUORO	97.7	85-114			%	07/27/19	07/27/19
BLANK	SURROGATE: DIBROMOFLUOR	107	80-119			%	07/27/19	07/27/19
BLANK	SURROGATE: TOLUENE-D8 (S)	100.0	89-112			%	07/27/19	07/27/19

Quant Method: GROE0716.M
Run #: 0727L26
Instrument: Loki
Sequence: 190724
Initials: DPO

GC SC-Blank-REG MDLs-DOD
Printed: 07/29/19 5:26:17 PM

EPA 8260B

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89570

Case No: 89570

Date Analyzed: 07/27/19

Matrix: WATER

Instrument: Loki

LCS ID: 190727BL-LCS

Time Analyzed: 1924

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190727BL-LCS	Lab Control Spike	0727L21	07/27/19 1924
190727BL-LCSD	Lab Control SpikeD	0727L22	07/27/19 1953
190727BL-BLK	Blank	0727L26	07/27/19 2148
AZ95186	ERH856	0727L27	07/27/19 2217
AZ95187	ERH857	0727L28	07/27/19 2245
AZ95188	ERH837	0727L29	07/27/19 2314
AZ95189	ERH838	0727L30	07/27/19 2343
AZ95190	ERH839	0727L31	07/28/19 0012
190727BL-MS	Matrix Spike	0727L34	07/28/19 0138
190727BL-MSD	Matrix Spiked	0727L35	07/28/19 0207

Comments: Batch: #86BTO-190727BL

Printed: 07/29/19 5:26:23 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8260B BTEX WATER

APPL ID: 190727W-95189 LCS - 242776
 Batch ID: #86BTO-190727BL

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
BENZENE	10.00	9.08	10.9	90.8	109	79-120	18.2	20
ETHYLBENZENE	10.00	9.12	10.4	91.2	104	79-121	13.1	20
TOLUENE	10.00	9.48	10.9	94.8	109	80-121	13.9	20
XYLENES (TOTAL)	30.0	26.8	31.1	89.3	104	79-121	14.9	20

SURROGATE: 1,2-DICHLOROETHANE-D	25.0	23.4	23.2	93.6	92.8	81-118		
SURROGATE: 4-BROMOFLUOROBENZE	25.0	25.0	26.9	100	108	85-114		
SURROGATE: DIBROMOFLUOROMETH	25.0	24.6	25.1	98.4	100	80-119		
SURROGATE: TOLUENE-D8 (S)	25.0	23.3	24.3	93.2	97.2	89-112		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	L0724W.M	L0724W.M
Extraction Date :	07/27/19	07/27/19
Analysis Date :	07/27/19	07/27/19
Instrument :	Loki	Loki
Run :	0727L21	0727L22
Initials :	DPO	

Matrix Spike Recoveries

EPA 8260B BTEX WATER

APPL ID: 190728W-95189 MS - 242776
 Batch ID: #86BTO-190727BL
 Sample ID: AZ95189
 Client ID: ERH838

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
BENZENE	10.00	ND	9.69	9.03	96.9	90.3	79-120	7.1	20
ETHYLBENZENE	10.00	ND	8.92	8.91	89.2	89.1	79-121	0.11	20
TOLUENE	10.00	ND	10.0	9.56	100	95.6	80-121	4.5	20
XYLENES (TOTAL)	30.0	ND	25.7	26.7	85.7	89.0	79-121	3.8	20

SURROGATE: 1,2-DICHLOROETHANE-D	25.0	NA	23.4	23.2	93.6	92.8	81-118		
SURROGATE: 4-BROMOFLUOROBENZE	25.0	NA	25.2	24.1	101	96.4	85-114		
SURROGATE: DIBROMOFLUOROMETH	25.0	NA	23.9	23.5	95.6	94.0	80-119		
SURROGATE: TOLUENE-D8 (S)	25.0	NA	22.7	22.5	90.8	90.0	89-112		

Comments: _____

Primary	SPK	DUP
Quant Method :	L0724W.M	L0724W.M
Extraction Date :	07/28/19	07/28/19
Analysis Date :	07/28/19	07/28/19
Instrument :	Loki	Loki
Run :	0727L34	0727L35
Initials :	DPO	

Printed: 07/29/19 5:26:21 PM
 APPL MSD SCII

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: _____
 Matrix: Water
 ID: _____

SDG No: _____
 Date Analyzed: 7/24/2019
 Instrument: Loki
 Time Analyzed: 13:52

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	0.3ug/L VOC STD 07/2	0724L15.D	7/24/2019 15:18
2	0.5ug/L VOC STD 07/2	0724L16.D	7/24/2019 15:47
3	1.0ug/L VOC STD 07/2	0724L17.D	7/24/2019 16:16
4	2.0ug/L VOC STD 07/2	0724L18.D	7/24/2019 16:45
5	5.0ug/L VOC STD 07/2	0724L19.D	7/24/2019 17:14
6	10ug/L VOC STD 07/24	0724L20.D	7/24/2019 17:42
7	20ug/L VOC STD 07/24	0724L21.D	7/24/2019 18:11
8	40ug/L VOC STD 07/24	0724L22.D	7/24/2019 18:40
9	100ug/L VOC STD 07/2	0724L23.D	7/24/2019 19:09
10	SS 10ug/L VOC STD 07	0724L26.D	7/24/2019 20:36
11	SS 30ug/L VOC STD 07	0724L27.D	7/24/2019 21:04
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

m/e

50 15.0 - 40.0% of mass 95	<u>15.3</u>
75 30.0 - 60.0% of mas 95	<u>43.6</u>
95 Base peak, 100% relative abundance	<u>100.0</u>
96 5.0 - 9.0% of mass 95	<u>7.5</u>
173 Less than 2.0% of mass 174	<u>0.0</u>
174 50.0 - 100.0% of mass 95	<u>110.7</u>
175 5.0 - 9.0% of mass 174	<u>7.4</u>
176 95.0 - 101.0% of mass 174	<u>95.5</u>
177 5.0 - 9.0% of mass 176	<u>6.4</u>

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: 89570
 Matrix: Water
 ID: _____

SDG No: 89570
 Date Analyzed: 7/27/2019
 Instrument: Loki
 Time Analyzed: 18:26

Client Sample No.	APPL ID.	File ID.	Date Analyzed	
1		190727B CCV 10ug/L	0727L20.D	7/27/2019 18:55
2	Lab Control Spike	190727B LCS 10ug/L	0727L21.D	7/27/2019 19:24
3	Lab Control SpikeD	190727B LCSD 10ug/L	0727L22.D	7/27/2019 19:53
4	Blank	190727B BLK	0727L26.D	7/27/2019 21:48
5	ERH856	AZ95186W01	0727L27.D	7/27/2019 22:17
6	ERH857	AZ95187W01	0727L28.D	7/27/2019 22:45
7	ERH837	AZ95188W01	0727L29.D	7/27/2019 23:14
8	ERH838	AZ95189W01	0727L30.D	7/27/2019 23:43
9	ERH839	AZ95190W01	0727L31.D	7/28/2019 0:12
10		AZ95189W02 MS 10ug/L	0727L34.D	7/28/2019 1:38
11		AZ95189W03 MSD 10ug/	0727L35.D	7/28/2019 2:07
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e

50	15.0 - 40.0% of mass 95	14.6
75	30.0 - 60.0% of mas 95	44.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.0
174	50.0 - 100.0% of mass 95	111.3
175	5.0 - 9.0% of mass 174	8.6
176	95.0 - 101.0% of mass 174	98.7
177	5.0 - 9.0% of mass 176	6.1

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89570
 Lab File ID (Standard): 0724L21.D Date Analyzed: 07/24/19
 Instrument ID: Loki Time Analyzed: 18:11
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

	Fluorobenzene (IS)		Chlorobenzene-D5 (IS)		1,4-Dichlorobenzene-D (IS)		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12 HOUR STD	252480	5.71	227712	9.24	144064	11.79	
UPPER LIMIT	504960	5.88	455424	9.41	288128	11.96	
LOWER LIMIT	126240	5.54	113856	9.07	72032	11.62	
SAMPLE NO.							
01	190727B CCV 10ug/L	191296	5.71	181568	9.24	108024	11.79
02	190727B LCS 10ug/L	203648	5.71	188800	9.24	109992	11.79
03	190727B LCSD 10ug/L	194944	5.71	180992	9.24	111920	11.79
04	190727B BLK	177664	5.71	161600	9.24	83280	11.79
05	AZ95186W01	179008	5.71	162560	9.24	85152	11.79
06	AZ95187W01	169984	5.71	156480	9.24	82080	11.79
07	AZ95188W01	168704	5.71	154944	9.24	78944	11.79
08	AZ95189W01	184064	5.71	169728	9.24	80552	11.79
09	AZ95190W01	158144	5.71	155904	9.24	81280	11.79
10	AZ95189W02 MS 10ug/	195264	5.71	192512	9.24	116680	11.79
11	AZ95189W03 MSD 10ug	201664	5.71	193216	9.24	110944	11.79
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89570

Case No: 89570

Date Analyzed: 07/27/19

Matrix: WATER

Instrument: Loki

APPL ID.	Client Sample No.	SURROGATE: 4-BROMOFLUOROBENZENE (S)					
		Limits	Result	Qualifier	Limits	Result	Qualifier
190727BL-LCS	Lab Control Spike	85-114	100				
190727BL-LCSD	Lab Control SpikeD	85-114	101				
190727BL-BLK	Blank	85-114	97.7				
AZ95186	ERH856	85-114	91.8				
AZ95187	ERH857	85-114	92.6				
AZ95188	ERH837	85-114	98.1				
AZ95189	ERH838	85-114	91.3				
AZ95190	ERH839	85-114	93.8				
AZ95189-MS	Matrix Spike	85-114	97.2				
AZ95189-MSD	Matrix Spiked	85-114	92.8				

Comments: Batch: #GRO86-190727BL

Printed: 07/29/19 4:21:33 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89570

Case No: 89570

Date Analyzed: 07/27/19

Matrix: WATER

Instrument: Loki

Blank ID: 190727BL-BLK

Time Analyzed: 2148

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190727BL-LCS	Lab Control Spike	0727L24	07/27/19 2050
190727BL-LCSD	Lab Control SpikeD	0727L25	07/27/19 2119
190727BL-BLK	Blank	0727L26	07/27/19 2148
AZ95186	ERH856	0727L27	07/27/19 2217
AZ95187	ERH857	0727L28	07/27/19 2245
AZ95188	ERH837	0727L29	07/27/19 2314
AZ95189	ERH838	0727L30	07/27/19 2343
AZ95190	ERH839	0727L31	07/28/19 0012
190727BL-MS	Matrix Spike	0727L36	07/28/19 0236
190727BL-MSD	Matrix SpikeD	0727L37	07/28/19 0304

Comments: Batch: #GRO86-190727BL

Printed: 07/29/19 4:21:58 PM
Form 4, Blank Summary

Method Blank
EPA 8260B GRO WATER

Blank Name/QCG: **190727W-95189 - 242770**
Batch ID: #GRO86-190727BL

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	07/27/19	07/27/19
BLANK	SURROGATE: 4-BROMOFLUORO	97.7	85-114			%	07/27/19	07/27/19

Quant Method:LGAS716.M
Run #:0727L26
Instrument:Loki
Sequence:190724
Initials:DPO

GC SC-Blank-REG MDLs-DOD
Printed: 07/29/19 4:21:32 PM

EPA 8260B

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89570

Case No: 89570

Date Analyzed: 07/27/19

Matrix: WATER

Instrument: Loki

LCS ID: 190727BL-LCS

Time Analyzed: 2050

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190727BL-LCS	Lab Control Spike	0727L24	07/27/19 2050
190727BL-LCSD	Lab Control Spiked	0727L25	07/27/19 2119
190727BL-BLK	Blank	0727L26	07/27/19 2148
AZ95186	ERH856	0727L27	07/27/19 2217
AZ95187	ERH857	0727L28	07/27/19 2245
AZ95188	ERH837	0727L29	07/27/19 2314
AZ95189	ERH838	0727L30	07/27/19 2343
AZ95190	ERH839	0727L31	07/28/19 0012
190727BL-MS	Matrix Spike	0727L36	07/28/19 0236
190727BL-MSD	Matrix Spiked	0727L37	07/28/19 0304

Comments: Batch: #GRO86-190727BL

Printed: 07/29/19 4:21:59 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries
EPA 8260B GRO WATER

APPL ID: 190727W-95189 LCS - 242770
 Batch ID: #GRO86-190727BL

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
GASOLINE RANGE ORGANICS	300	273	293	91.0	97.7	78-122	7.1	20
SURROGATE: 4-BROMOFLUOROBENZE	25.0	25.1	25.3	100	101	85-114		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	LGAS716.M	LGAS716.M
Extraction Date :	7/27/2019	7/27/2019
Analysis Date :	7/27/2019	7/27/2019
Instrument :	Loki	Loki
Run :	0727L24	0727L25
Initials :	DPO	

Matrix Spike Recoveries

EPA 8260B GRO WATER

APPL ID: 190728W-95189 MS - 242770
 Batch ID: #GRO86-190727BL
 Sample ID: AZ95189
 Client ID: ERH838

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
GASOLINE RANGE ORGANICS	300	ND	274	263	91.3	87.7	78-122	4.1	20
SURROGATE: 4-BROMOFLUOROBENZE	25.0	NA	24.3	23.2	97.2	92.8	85-114		

Comments: _____

Primary	SPK	DUP
Quant Method :	LGAS716.M	LGAS716.M
Extraction Date :	07/28/19	07/28/19
Analysis Date :	07/28/19	07/28/19
Instrument :	Loki	Loki
Run :	0727L36	0727L37
Initials :	DPO	

Printed: 07/29/19 4:21:51 PM
 APPL MSD SCII

RSK 175

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89570

Case No: 89570

Date Analyzed: 07/25/19

Matrix: WATER

Instrument: Rocky

Blank ID: 190725A-BLK

Time Analyzed: 1408

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190725A-LCS	Lab Control Spike	19072517	07/25/19 1400
190725A-LCSD	Lab Control SpikeD	19072518	07/25/19 1403
190725A-BLK	Blank	19072519	07/25/19 1408
AZ95186	ERH856	19072520	07/25/19 1414
AZ95187	ERH857	19072521	07/25/19 1419
AZ95188	ERH837	19072522	07/25/19 1422
190725A-MS	Matrix Spike	19072523	07/25/19 1426
190725A-MSD	Matrix SpikeD	19072524	07/25/19 1432
AZ95189	ERH838	19072525	07/25/19 1436

Comments: Batch: #RSKME-190725A

Printed: 07/26/19 8:42:43 AM
Form 4, Blank Summary

Method Blank
METHANE

Blank Name/QCG: **190725W-95189 - 242676**
Batch ID: #RSKME-190725A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	METHANE	1.00 U	5.0	1.00	0.25	ug/L	07/25/19	07/25/19

Quant Method:RSK0618.M
Run #:19072519
Instrument:Rocky
Sequence:190618
Initials:CMO

GC SC-Blank-REG MDLs-DOD
Printed: 07/26/19 8:43:12 AM

RSK 175

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89570

Case No: 89570

Date Analyzed: 07/25/19

Matrix: WATER

Instrument: Rocky

LCS ID: 190725A-LCS

Time Analyzed: 1400

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190725A-LCS	Lab Control Spike	19072517	07/25/19 1400
190725A-LCSD	Lab Control Spiked	19072518	07/25/19 1403
190725A-BLK	Blank	19072519	07/25/19 1408
AZ95186	ERH856	19072520	07/25/19 1414
AZ95187	ERH857	19072521	07/25/19 1419
AZ95188	ERH837	19072522	07/25/19 1422
190725A-MS	Matrix Spike	19072523	07/25/19 1426
190725A-MSD	Matrix Spiked	19072524	07/25/19 1432
AZ95189	ERH838	19072525	07/25/19 1436

Comments: Batch: #RSKME-190725A

Printed: 07/26/19 8:42:40 AM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

METHANE

APPL ID: 190725W-95189 LCS - 242676

Batch ID: #RSKME-190725A

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
METHANE	83.4	83.2	86.5	99.8	104	72-125	3.9	30

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	RSK0618.M	RSK0618.M
Extraction Date :	07/25/19	07/25/19
Analysis Date :	07/25/19	07/25/19
Instrument :	Rocky	Rocky
Run :	19072517	19072518
Initials :	CMO	

Matrix Spike Recoveries

METHANE

APPL ID: 190725W-95189 MS - 242676
 Batch ID: #RSKME-190725A
 Sample ID: AZ95189
 Client ID: ERH838

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
METHANE	83.4	ND	166	167	199 #	200 #	72-125	0.60	30

= Recovery is outside QC limits.

Comments:

	<u>SPK</u>	<u>DUP</u>
Quant Method :	RSK0618.M	RSK0618.M
Extraction Date :	07/25/19	07/25/19
Analysis Date :	07/25/19	07/25/19
Instrument :	Rocky	Rocky
Run :	19072523	19072524
Initials :	CMO	

Printed: 07/26/19 8:42:46 AM
 APPL MSD SCII

EPA 300.0

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89570

Case No: 89570

Date Analyzed: 07/23/19

Matrix: WATER

Instrument: Charlie

Blank ID: 190723A-BLK

Time Analyzed: 0757

APPL ID.	Client Sample No.	File ID.	Date Analyzed
AZ95189	ERH838	14	07/23/19 1614
AZ95187	ERH857	15	07/23/19 1621
AZ95189	ERH838	18	07/23/19 1643
AZ95187	ERH857	19	07/23/19 1651
190723A-BLK	Blank	2	07/23/19 0757
190723A-LCS	Lab Control Spike	3	07/23/19 0804
190723A-LCSD	Lab Control SpikeD	4	07/23/19 0812

Comments: Batch: #300W-190723A

Printed: 08/23/19 2:02:37 PM
Form 4, Blank Summary

WETLAB BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
EPA 300.0	CHLORIDE	0.20 U	1.0	0.20	0.08	mg/L	07/23/19	07/23/19	#300W-190723A-AZ95189
EPA 300.0	NITRATE	0.18 U	0.5	0.18	0.04	mg/L	07/23/19	07/23/19	#300W-190723A-AZ95189
EPA 300.0	SULFATE	0.20 U	1.0	0.20	0.09	mg/L	07/23/19	07/23/19	#300W-190723A-AZ95189

Wetlab SC-Blank-REG MDLs
Printed: 08/23/19 2:02:17 PM

EPA 300.0

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89570

Case No: 89570

Date Analyzed: 07/23/19

Matrix: WATER

Instrument: Charlie

LCS ID: 190723A-LCS

Time Analyzed: 0804

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
AZ95189	ERH838	14	07/23/19 1614
AZ95187	ERH857	15	07/23/19 1621
AZ95189	ERH838	18	07/23/19 1643
AZ95187	ERH857	19	07/23/19 1651
190723A-BLK	Blank	2	07/23/19 0757
190723A-LCS	Lab Control Spike	3	07/23/19 0804
190723A-LCSD	Lab Control SpikeD	4	07/23/19 0812

Comments: Batch: #300W-190723A

Printed: 08/23/19 2:02:38 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

WETLAB

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
EPA 300.0	CHLORIDE	25.0	24.6	24.6	98.4	98.4	0.0	20	90-110	07/23/19	07/23/19	07/23/19	07/23/19	#300W-190723A-AZ95189
EPA 300.0	NITRATE	22.1	21.7	21.8	98.2	98.6	0.46	20	90-110	07/23/19	07/23/19	07/23/19	07/23/19	#300W-190723A-AZ95189
EPA 300.0	SULFATE	25.0	24.2	24.2	96.8	96.8	0.0	20	90-110	07/23/19	07/23/19	07/23/19	07/23/19	#300W-190723A-AZ95189

Comments: _____

EPA 353.2

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89570

Case No: 89570

Date Analyzed: 07/31/19

Matrix: WATER

Instrument: EVE

Blank ID: 190731A-BLK

Time Analyzed: 1829

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190731A-BLK	Blank	19	07/31/19 1829
190731A-LCS	Lab Control Spike	20	07/31/19 1831
190731A-LCSD	Lab Control SpikeD	21	07/31/19 1834
AZ95187	ERH857	22	07/31/19 1836
AZ95189	ERH838	23	07/31/19 1838
190731A-MS	Matrix Spike	24	07/31/19 1840
190731A-MSD	Matrix SpikeD	25	07/31/19 1843

Comments: Batch: #35OF-190731A

Printed: 08/23/19 1:54:01 PM
Form 4, Blank Summary

SM 2320B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89570

Case No: 89570

Date Analyzed: 07/31/19

Matrix: WATER

Instrument: Tiamo

Blank ID: 190731A-BLK

Time Analyzed: 1918

APPL ID.	Client Sample No.	File ID.	Date Analyzed
AZ95189	ERH838	13	07/31/19 1710
190731A-DUP	Duplicate	13	07/31/19 1718
190731A-MS	Matrix Spike	15	07/31/19 1727
190731A-MSD	Matrix SpikeD	16	07/31/19 1734
190731A-LCS	Lab Control Spike	2	07/31/19 1502
190731A-BLK	Blank	24	07/31/19 1918
190731A-LCSD	Lab Control SpikeD	3	07/31/19 1508

Comments: Batch: #232W-190731A

Printed: 08/23/19 1:54:01 PM
Form 4, Blank Summary

SM 2320B

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 89570
Case No: 89570 Date Analyzed: 07/31/19
Matrix: WATER Instrument: Tiamo
Blank ID: 190731A2-BLK Time Analyzed: 1918

APPL ID.	Client Sample No.	File ID.	Date Analyzed
AZ95187	ERH857	12	07/31/19 1702
190731A2-LCS	Lab Control Spike	2	07/31/19 1502
190731A2-BLK	Blank	24	07/31/19 1918
190731A2-LCSD	Lab Control Spiked	3	07/31/19 1508

Comments: Batch: #232W-190731A2

Printed: 08/23/19 1:54:01 PM
Form 4, Blank Summary

SM3500FeB

Form 4

Blank Summary

Lab Name: APPL, Inc.
Case No: 89570
Matrix: WATER
Blank ID: 190724A-BLK

SDG No: 89570
Date Analyzed: 07/24/19
Instrument: Manual Spec
Time Analyzed: 1028

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190724A-LCS	Lab Control Spike	27	07/24/19 1020
190724A-LCSD	Lab Control SpikeD	29	07/24/19 1022
190724A-MS	Matrix Spike	32	07/24/19 1025
190724A-MSD	Matrix SpikeD	34	07/24/19 1026
190724A-BLK	Blank	36	07/24/19 1028
AZ95189	ERH838	37	07/26/19 1626

Comments: Batch: #35FE-190724A

Printed: 08/23/19 1:54:01 PM
Form 4, Blank Summary

SM3500FeB

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89570

Case No: 89570

Date Analyzed: 08/02/19

Matrix: WATER

Instrument: Manual Spec

Blank ID: 190802B-BLK

Time Analyzed: 1700

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190802B-BLK	Blank	34	08/02/19 1700
190802B-LCS	Lab Control Spike	35	08/02/19 1701
AZ95187	ERH857	36	08/02/19 1701
190802B-MSD	Matrix SpikeD	37	08/02/19 1702
190802B-MS	Matrix Spike	38	08/02/19 1702

Comments: Batch: #35FE-190802B

Printed: 08/23/19 1:54:01 PM
Form 4, Blank Summary

SW846 9060A

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89570

Case No: 89570

Date Analyzed: 08/02/19

Matrix: WATER

Instrument: TICTOC

Blank ID: 190731B-BLK

Time Analyzed: 0123

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190731B-LCSD	Lab Control Spiked	10	08/02/19 0232
AZ95187	ERH857	28	08/02/19 1222
190731B-BLK	Blank	8	08/02/19 0123
190731B-LCS	Lab Control Spike	9	08/02/19 0157

Comments: Batch: #TOCW5-190731B

Printed: 08/23/19 1:54:01 PM
Form 4, Blank Summary

SW846 9060A

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89570

Case No: 89570

Date Analyzed: 08/02/19

Matrix: WATER

Instrument: TICTOC

Blank ID: 190731B1-BLK

Time Analyzed: 0123

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190731B1-LCSD	Lab Control SpikeD	10	08/02/19 0232
AZ95189	ERH838	29	08/02/19 1253
190731B1-BLK	Blank	8	08/02/19 0123
190731B1-LCS	Lab Control Spike	9	08/02/19 0157

Comments: Batch: #TOCW5-190731B

Printed: 08/23/19 1:54:01 PM
Form 4, Blank Summary

WETLAB BLANK

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
SM 2320B	BICARBONATE AS	1.70 U	2.0	1.70	0.85	mg/L	07/31/19	07/31/19	#232W-190731A2-AZ95187
SM 2320B	CARBONATE AS C	1.70 U	2.0	1.70	0.85	mg/L	07/31/19	07/31/19	#232W-190731A2-AZ95187
SM 2320B	TOTAL ALKALINITY	1.70 U	2.0	1.70	0.85	mg/L	07/31/19	07/31/19	#232W-190731A2-AZ95187
SM3500Fe	FERROUS IRON	0.32 U	1.0	0.32	0.16	mg/L	08/02/19	08/02/19	#35FE-190802B-AZ95187
SW846 90	TOTAL ORGANIC C	0.350 U	0.93	0.350	0.130	mg/L	08/02/19	08/02/19	#TOCW5-190731B-AZ95187
SM 2320B	BICARBONATE AS	3.7	2.0	1.70	0.85	mg/L	07/31/19	07/31/19	#232W-190731A-AZ95189
SM 2320B	CARBONATE AS C	1.70 U	2.0	1.70	0.85	mg/L	07/31/19	07/31/19	#232W-190731A-AZ95189
SM 2320B	TOTAL ALKALINITY	3.7	2.0	1.70	0.85	mg/L	07/31/19	07/31/19	#232W-190731A-AZ95189
SM3500Fe	FERROUS IRON	0.32 U	1.0	0.32	0.16	mg/L	07/24/19	07/24/19	#35FE-190724A-AZ95189
EPA 353.2	NITRATE-NITRITE-	0.090 U	0.10	0.090	0.028	mg/L	07/31/19	07/31/19	#35OF-190731A-AZ95189
SW846 90	TOTAL ORGANIC C	0.350 U	0.93	0.350	0.130	mg/L	08/02/19	08/02/19	TOCW5-190731B1-AZ95189

Wetlab SC-Blank-REG MDLs
 Printed: 08/23/19 1:53:40 PM

EPA 353.2

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89570

Case No: 89570

Date Analyzed: 07/31/19

Matrix: WATER

Instrument: EVE

LCS ID: 190731A-LCS

Time Analyzed: 1831

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190731A-BLK	Blank	19	07/31/19 1829
190731A-LCS	Lab Control Spike	20	07/31/19 1831
190731A-LCSD	Lab Control SpikeD	21	07/31/19 1834
AZ95187	ERH857	22	07/31/19 1836
AZ95189	ERH838	23	07/31/19 1838
190731A-MS	Matrix Spike	24	07/31/19 1840
190731A-MSD	Matrix SpikeD	25	07/31/19 1843

Comments: Batch: #35OF-190731A

Printed: 08/23/19 1:54:01 PM
Form 4, LCS Summary

SM 2320B

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89570

Case No: 89570

Date Analyzed: 07/31/19

Matrix: WATER

Instrument: Tiamo

LCS ID: 190731A-LCS

Time Analyzed: 1502

APPL ID.	Client Sample No.	File ID.	Date Analyzed
AZ95189	ERH838	13	07/31/19 1710
190731A-DUP	Duplicate	13	07/31/19 1718
190731A-MS	Matrix Spike	15	07/31/19 1727
190731A-MSD	Matrix SpikeD	16	07/31/19 1734
190731A-LCS	Lab Control Spike	2	07/31/19 1502
190731A-BLK	Blank	24	07/31/19 1918
190731A-LCSD	Lab Control SpikeD	3	07/31/19 1508

Comments: Batch: #232W-190731A

Printed: 08/23/19 1:54:01 PM
Form 4, LCS Summary

SM 2320B

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89570

Case No: 89570

Date Analyzed: 07/31/19

Matrix: WATER

Instrument: Tiamo

LCS ID: 190731A2-LCS

Time Analyzed: 1502

APPL ID.	Client Sample No.	File ID.	Date Analyzed
AZ95187	ERH857	12	07/31/19 1702
190731A2-LCS	Lab Control Spike	2	07/31/19 1502
190731A2-BLK	Blank	24	07/31/19 1918
190731A2-LCSD	Lab Control Spiked	3	07/31/19 1508

Comments: Batch: #232W-190731A2

Printed: 08/23/19 1:54:01 PM
Form 4, LCS Summary

SM3500FeB

Form 4

LCS Summary

Lab Name: APPL, Inc.
Case No: 89570
Matrix: WATER
LCS ID: 190724A-LCS

SDG No: 89570
Date Analyzed: 07/24/19
Instrument: Manual Spec
Time Analyzed: 1020

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190724A-LCS	Lab Control Spike	27	07/24/19 1020
190724A-LCSD	Lab Control Spiked	29	07/24/19 1022
190724A-MS	Matrix Spike	32	07/24/19 1025
190724A-MSD	Matrix Spiked	34	07/24/19 1026
190724A-BLK	Blank	36	07/24/19 1028
AZ95189	ERH838	37	07/26/19 1626

Comments: Batch: #35FE-190724A

Printed: 08/23/19 1:54:01 PM
Form 4, LCS Summary

SM3500FeB

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89570

Case No: 89570

Date Analyzed: 08/02/19

Matrix: WATER

Instrument: Manual Spec

LCS ID: 190802B-LCS

Time Analyzed: 1701

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190802B-BLK	Blank	34	08/02/19 1700
190802B-LCS	Lab Control Spike	35	08/02/19 1701
AZ95187	ERH857	36	08/02/19 1701
190802B-MSD	Matrix SpikeD	37	08/02/19 1702
190802B-MS	Matrix Spike	38	08/02/19 1702

Comments: Batch: #35FE-190802B

Printed: 08/23/19 1:54:01 PM
Form 4, LCS Summary

SW846 9060A

Form 4

LCS Summary

Lab Name: APPL, Inc. SDG No: 89570
Case No: 89570 Date Analyzed: 08/02/19
Matrix: WATER Instrument: TICTOC
LCS ID: 190731B-LCS Time Analyzed: 0157

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190731B-LCSD	Lab Control SpikeD	10	08/02/19 0232
AZ95187	ERH857	28	08/02/19 1222
190731B-BLK	Blank	8	08/02/19 0123
190731B-LCS	Lab Control Spike	9	08/02/19 0157

Comments: Batch: #TOCW5-190731B

Printed: 08/23/19 1:54:01 PM
Form 4, LCS Summary

SW846 9060A

Form 4

LCS Summary

Lab Name: APPL, Inc.
Case No: 89570
Matrix: WATER
LCS ID: 190731B1-LCS

SDG No: 89570
Date Analyzed: 08/02/19
Instrument: TICTOC
Time Analyzed: 0157

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190731B1-LCSD	Lab Control Spiked	10	08/02/19 0232
AZ95189	ERH838	29	08/02/19 1253
190731B1-BLK	Blank	8	08/02/19 0123
190731B1-LCS	Lab Control Spike	9	08/02/19 0157

Comments: Batch: #TOCW5-190731B

Printed: 08/23/19 1:54:01 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

WETLAB

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
SM 2320B	BICARBONATE AS CaCO3	250	252	249	101	99.6	1.2	20	90-110	07/31/19	07/31/19	07/31/19	07/31/19	#232W-190731A2-AZ9518
SM 2320B	TOTAL ALKALINITY AS CA	250	252	249	101	99.6	1.2	20	90-110	07/31/19	07/31/19	07/31/19	07/31/19	#232W-190731A2-AZ9518
SW846 90	TOTAL ORGANIC CARBO	2.50	2.89	2.84	116 #	114 #	1.7	20	90-110	08/02/19	08/02/19	08/02/19	08/02/19	#TOCW5-190731B-AZ951

= Recovery is outside QC limits.

Comments:

Laboratory Control Spike Recoveries

WETLAB

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
EPA 353.2	NITRATE-NITRITE-N	3.00	2.76	2.91	92.0	97.0	5.3	20	90-110	07/31/19	07/31/19	07/31/19	07/31/19	#35OF-190731A-AZ95189
SM 2320B	TOTAL ALKALINITY AS CA	250	252	249	101	99.6	1.2	20	90-110	07/31/19	07/31/19	07/31/19	07/31/19	#232W-190731A-AZ95189
SM3500Fe	FERROUS IRON	3.00	3.09	3.05	103	102	1.3	20	80-120	07/24/19	07/24/19	07/24/19	07/24/19	#35FE-190724A-AZ95189
SW846 90	TOTAL ORGANIC CARBO	2.50	2.89	2.84	116 #	114 #	1.7	20	90-110	08/02/19	08/02/19	08/02/19	08/02/19	#TOCW5-190731B1-AZ95

= Recovery is outside QC limits.

Comments: _____

Matrix Spike Recoveries

WETLAB

APPL ID: 190802W-95187 MS - 243102

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample ID: AZ95187

Client ID: ERH857

Method	Compound Name	Spike Lvl mg/L	Matrix Res mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recovery	DUP % Recovery	RPD	RPD Max	Recovery Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group	QC Sample
SM3500Fe	FERROUS IRON	3.00	0.15	3.22	3.26	102	104	1.2	20	80-120	08/02/19	08/02/19	08/02/19	08/02/19	243102	AZ95187

Comments:

Matrix Spike Recoveries

WETLAB

APPL ID: 190731W-95189 MS - 243047

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample ID: AZ95189

Client ID: ERH838

Method	Compound Name	Spike Lvl mg/L	Matrix Res mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recovery	DUP % Recovery	RPD	RPD Recovery Max	Extract Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group	QC Sample
EPA 353.2	NITRATE-NITRITE-N	3.23	0.49	3.74	3.87	101	105	3.4	20	90-110	07/31/19	07/31/19	07/31/19	07/31/19	243047	AZ95189
SM 2320B	BICARBONATE AS CA	250	60.3	297	301	94.7	96.3	1.3	20	90-110	07/31/19	07/31/19	07/31/19	07/31/19	242888	AZ95189
SM 2320B	TOTAL ALKALINITY A	250	60.3	297	301	94.7	96.3	1.3	20	90-110	07/31/19	07/31/19	07/31/19	07/31/19	242888	AZ95189
SM3500Fe	FERROUS IRON	3.00	0.084	3.07	3.15	99.5	102	2.6	20	80-120	07/24/19	07/24/19	07/24/19	07/24/19	242655	AZ95189

Comments:

WETLAB

Sample/Sample Duplicate Results

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Sample ID: AZ95189
Client ID: ERH838

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89570

Method	Analyte	Sample ID	Sample Result	Sample Dup Result	RPD	RPD Max	MDL	PQL	Units	Sample Extract Date	Sample Analysis Date	Sample Dup Extract Date	Sample Dup Analysis Date
SM 2320B	TOTAL ALKALINIT	AZ95189	60.3	61.9	2.6	20	0.85	2.0	mg/L	07/31/19	07/31/19	07/31/19	07/31/19

Printed: 08/23/19 1:54:00 PM
Dup-SCII (NoMC)

ORGANICS
Calibration Data

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: Water

SDG No: _____
Initial Cal. Date: 06/17/19
Instrument: Apollo

Initials: BJT

617003.D 617004.D 617005.D 617006.D 617007.D 617008.D

	Compound	1	2	3	4	5	6					Avg	%RSD	Type	r^2	Q
1	HATML Diesel (C10-C24)	2690303	1116857	1087632	1051285	1058686	1101324					1351015	49	HATM	0.999	
2	HBTM Motor Oil (C24-C40)	1266274	913149	865251	811199	794482	848774					916522	19	HBTM		
3	SA Ortho-Terphenyl(S)	2130750	1828574	1896892	1721330	1622234	1705036					1817469	10.0	SA		
4	SCL Decanoic Acid(S)	150177	314603	492479	537134	542867	560663					432987	38	SC	0.999	
5	SA Octacosane(S)	2220335	1730219	1828557	1673992	1654539	1933989					1840272	12	SA		
6																
7																
8																
9																
10																
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3.64617

Data File : G:\APOLLO\DATA\190617\617003.D Vial: 3
 Acq On : 6-17-19 16:40:59 Operator: DP
 Sample : Diesel/Motor Oil - 1 6/17/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:02 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

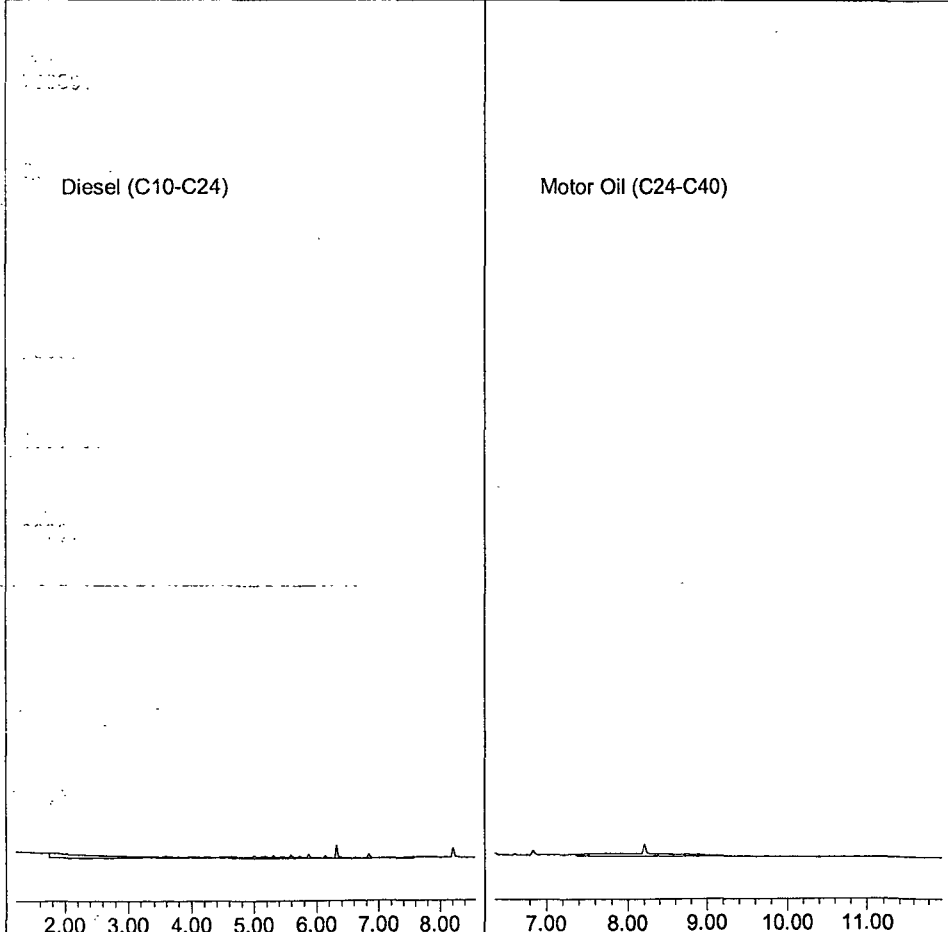
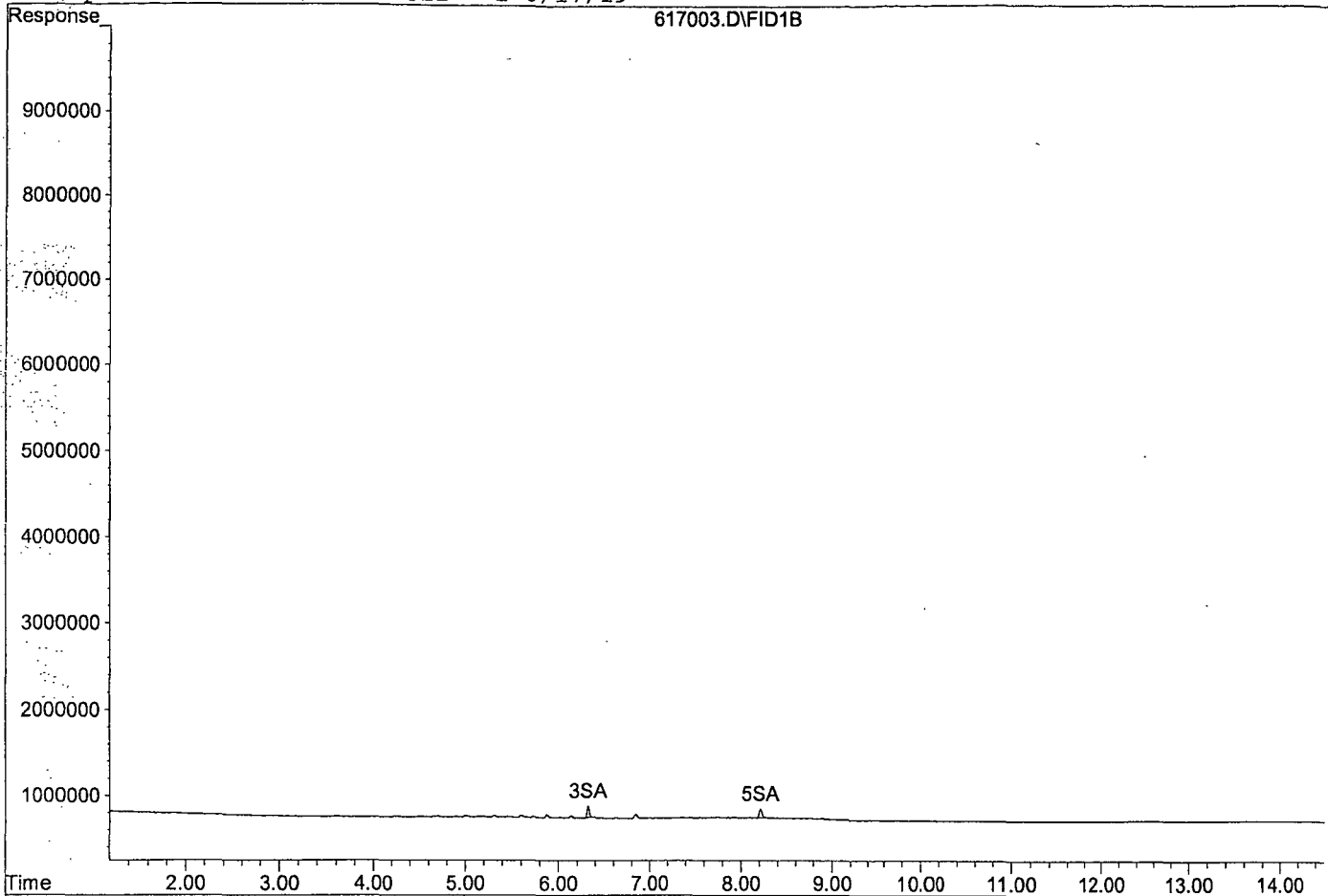
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.32	2130750	0.586 ppb
Surrogate Spike 37.500		Recovery =	1.56%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.21	2220335	0.603 ppb
Surrogate Spike 37.500		Recovery =	1.61%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	53806066	26.270 ppb
2) HBTM Motor Oil (C24-C40)	9.16	25325476	13.816 ppb

Target Compounds

Data File: G:\APOLLO\DATA\190617\617003.D

Sample : Diesel/Motor Oil - 1 6/17/19



Data File : G:\APOLLO\DATA\190617\617004.D Vial: 4
 Acq On : 6-17-19 17:00:17 Operator: DP
 Sample : Diesel/Motor Oil - 2 6/17/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:02 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

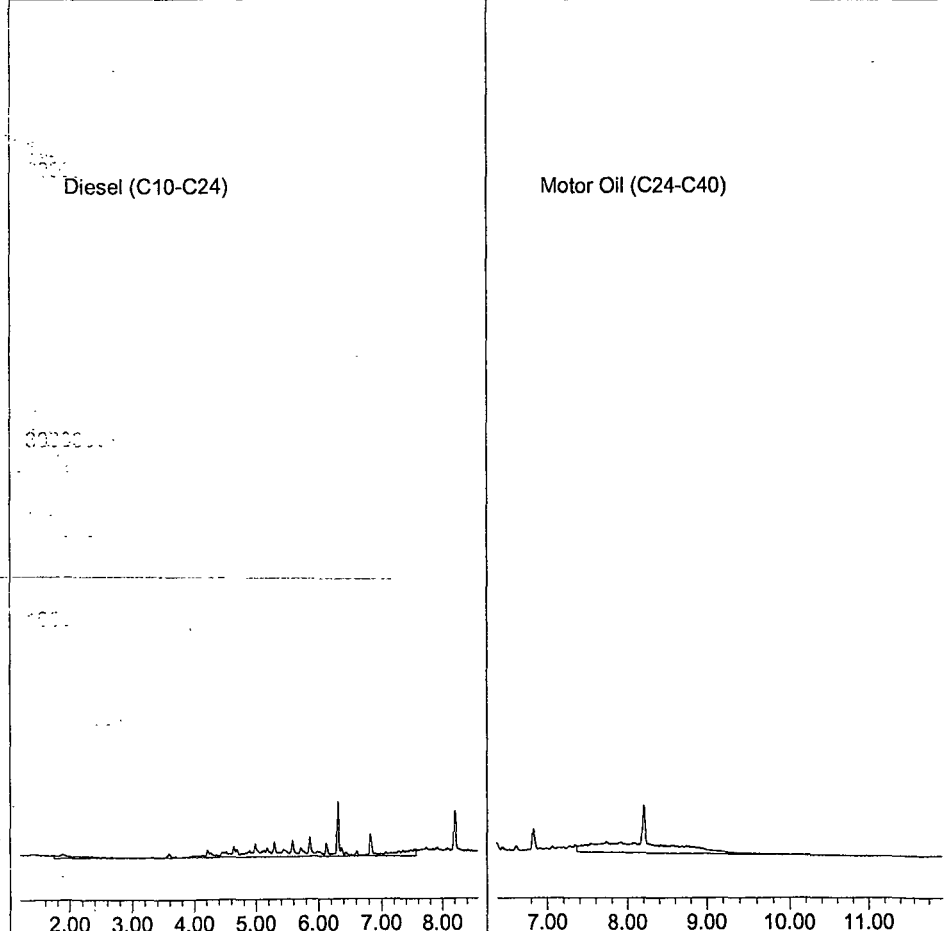
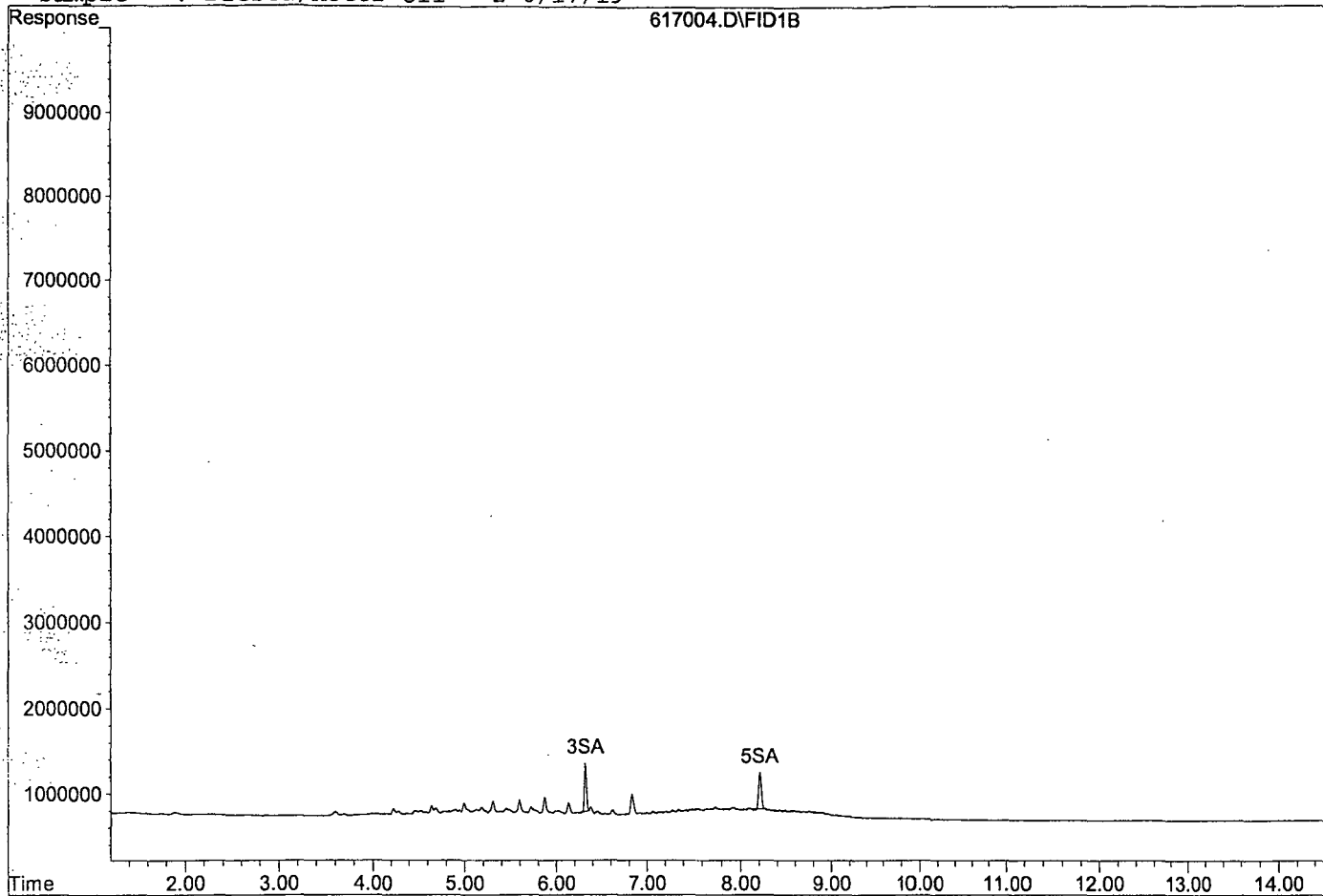
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.32	9142868	2.515 ppb
Surrogate Spike 37.500		Recovery =	6.71%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.21	8651097	2.350 ppb
Surrogate Spike 37.500		Recovery =	6.27%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	111685733	53.009 ppb
2) HBTM Motor Oil (C24-C40)	9.16	91314932	49.816 ppb

Target Compounds

Data File: G:\APOLLO\DATA\190617\617004.D

Sample : Diesel/Motor Oil - 2 6/17/19



Data File : G:\APOLLO\DATA\190617\617005.D Vial: 5
 Acq On : 6-17-19 17:20:24 Operator: DP
 Sample : Diesel/Motor Oil - 3 6/17/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:02 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

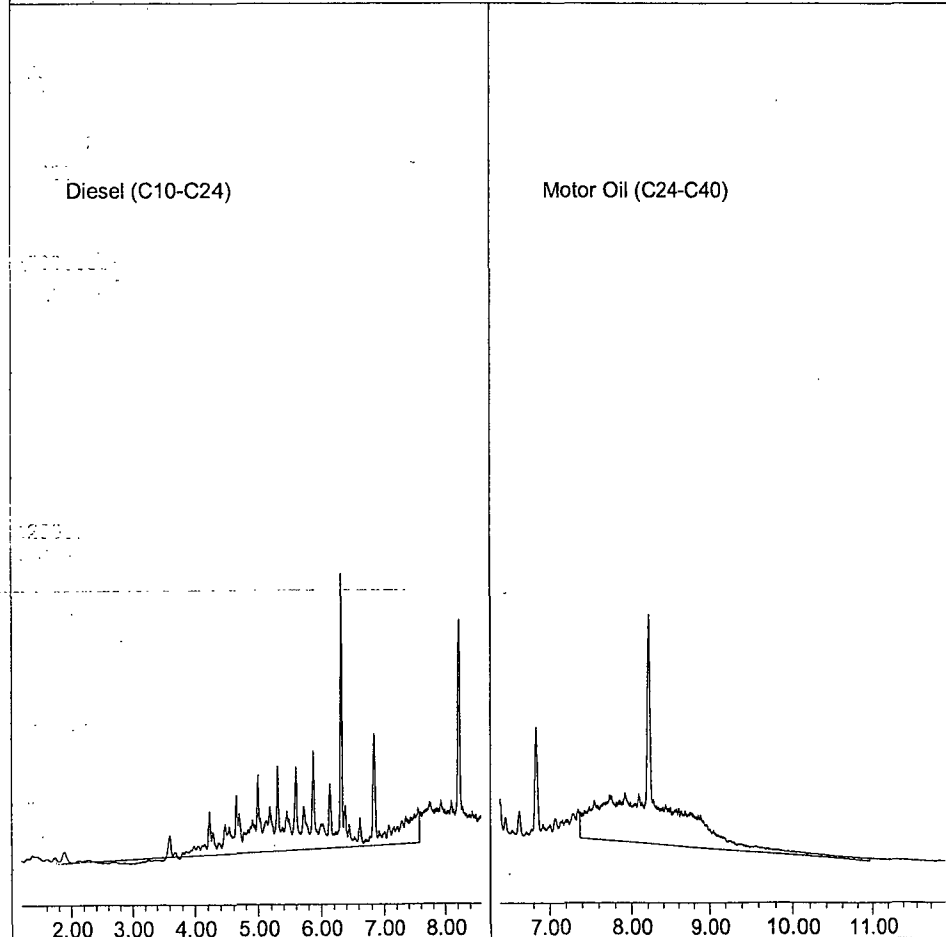
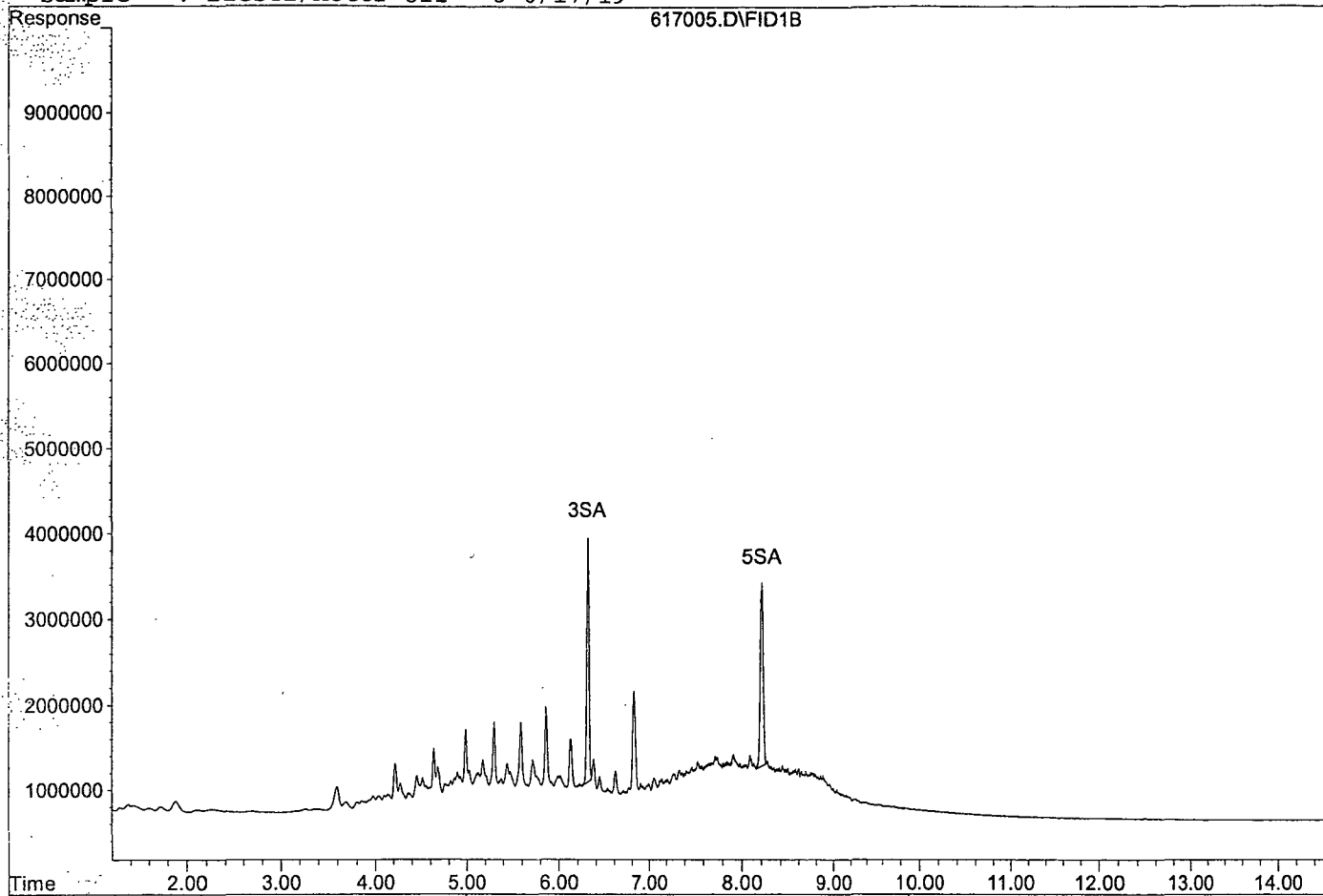
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.32	47422311	13.046 ppb
Surrogate Spike 37.500		Recovery =	34.79%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.21	45713919	12.420 ppb
Surrogate Spike 37.500		Recovery =	33.12%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	543816041	252.647 ppb
2) HBTM Motor Oil (C24-C40)	9.16	432625605	236.015 ppb

Target Compounds

Data File: G:\APOLLO\DATA\190617\617005.D

Sample : Diesel/Motor Oil - 3 6/17/19



Data File : G:\APOLLO\DATA\190617\617006.D Vial: 6
 Acq On : 6-17-19 17:40:33 Operator: DP
 Sample : Diesel/Motor Oil - 4 6/17/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:03 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

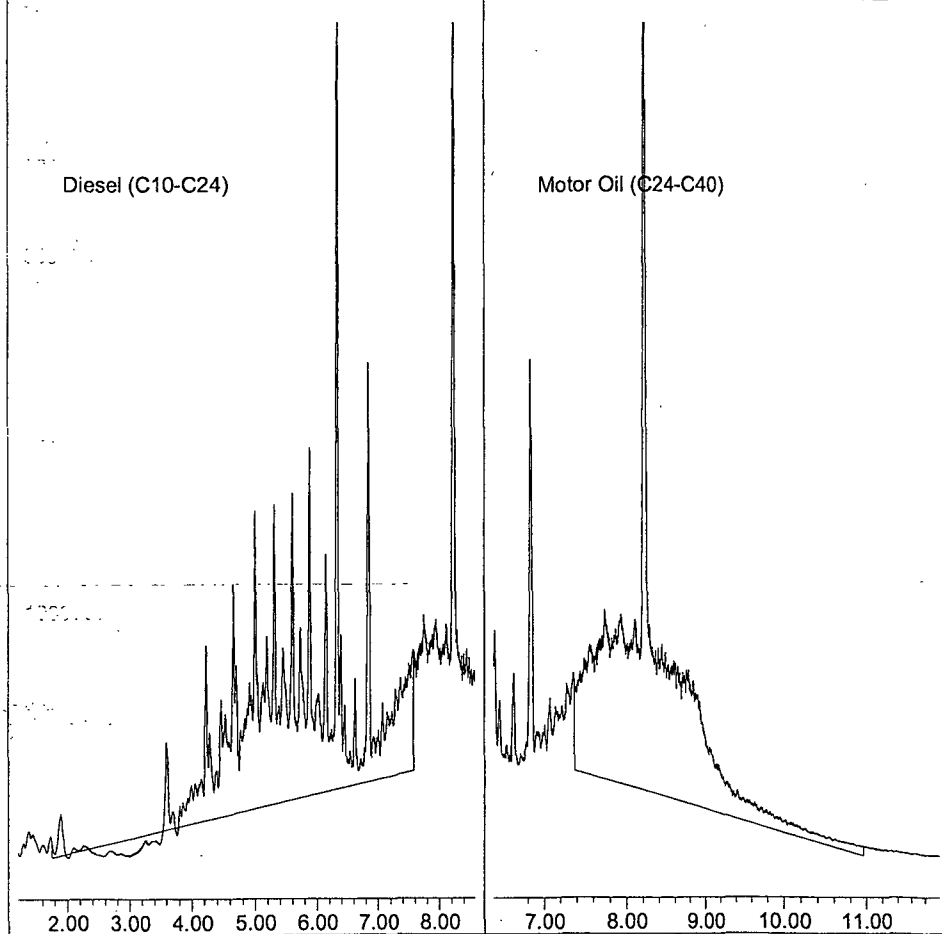
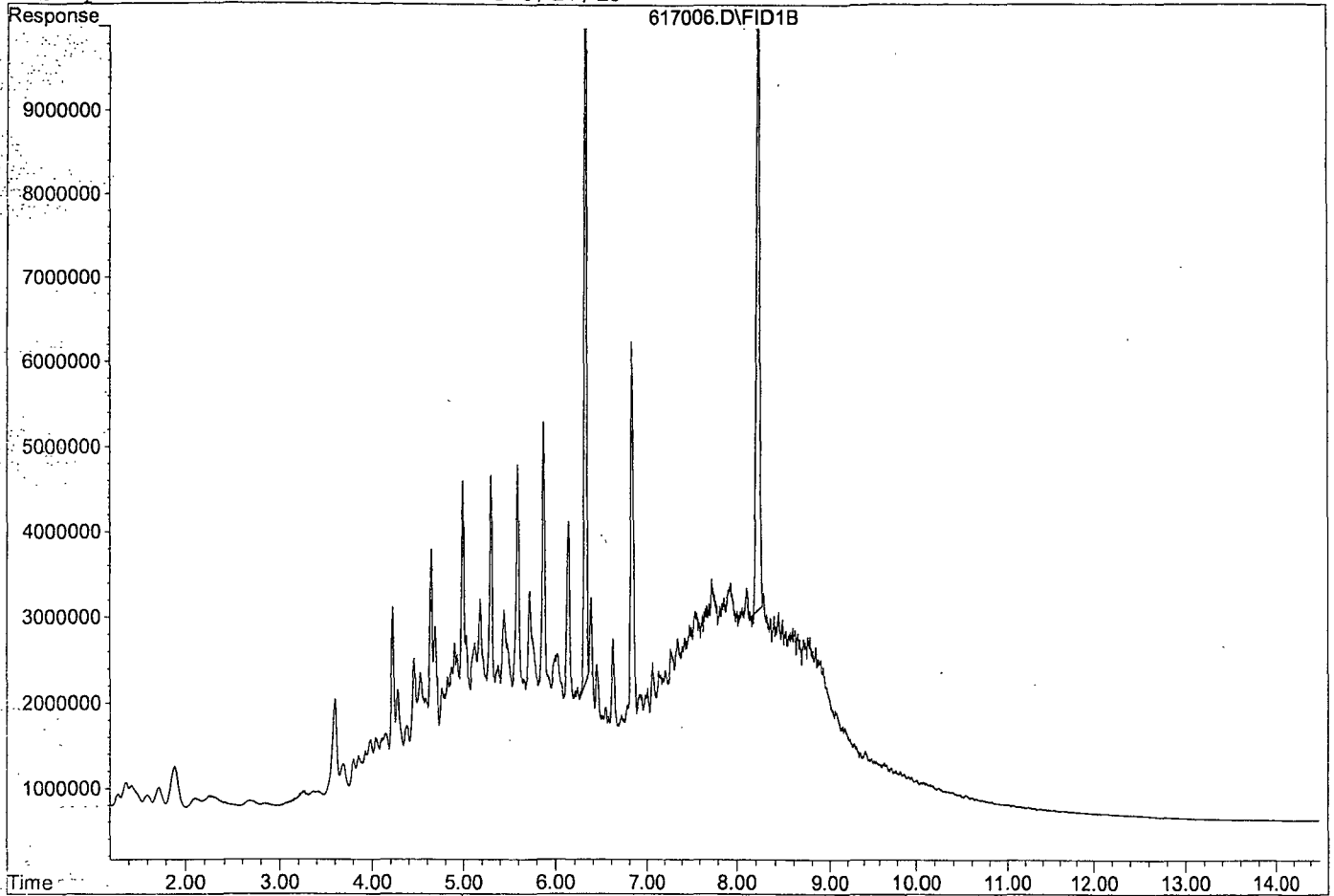
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.33	172133037	47.355 ppb
Surrogate Spike 37.500		Recovery =	126.28%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.22	167399224	45.482 ppb
Surrogate Spike 37.500		Recovery =	121.29%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	2102569494	972.770 ppb
2) HBTM-Motor Oil (C24-C40)	9.16	1622398534	885.085 ppb

Target Compounds

Data File: G:\APOLLO\DATA\190617\617006.D

Sample : Diesel/Motor Oil - 4 6/17/19



Data File : G:\APOLLO\DATA\190617\617007.D Vial: 7
 Acq On : 6-17-19 18:00:01 Operator: DP
 Sample : Diesel/Motor Oil - 5 6/17/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:03 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

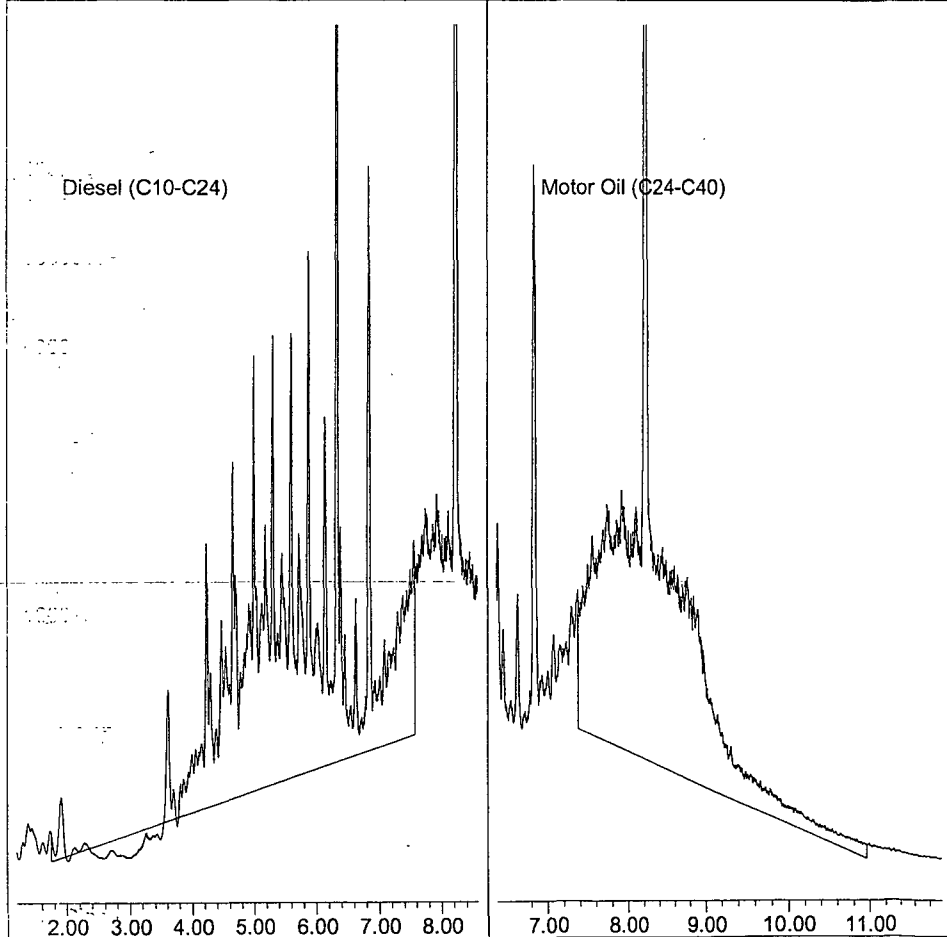
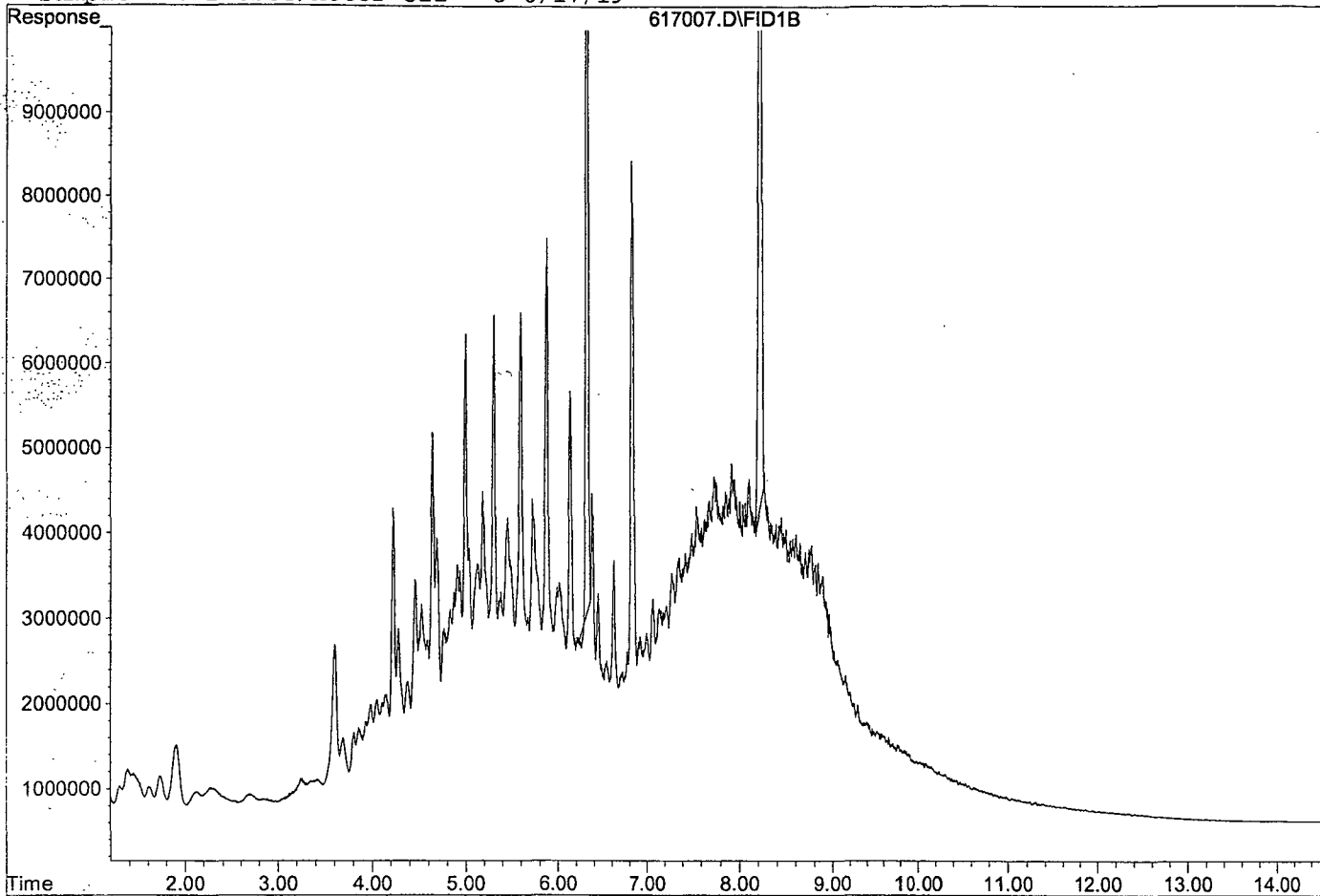
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.33	243335035	66.943 ppb
Surrogate Spike 37.500		Recovery =	178.51%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.23	248180866	67.430 ppb
Surrogate Spike 37.500		Recovery =	179.81%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	3176057733	1468.706 ppb
2) HBTM Motor Oil (C24-C40)	9.16	2383445329	1300.267 ppb

Target Compounds

Data File: G:\APOLLO\DATA\190617\617007.D

Sample : Diesel/Motor Oil - 5 6/17/19



Data File : G:\APOLLO\DATA\190617\617008.D Vial: 8
 Acq On : 6-17-19 18:20:06 Operator: DP
 Sample : Diesel/Motor Oil - 6 6/17/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:02 2019 Quant Results File: DOC0617.RES

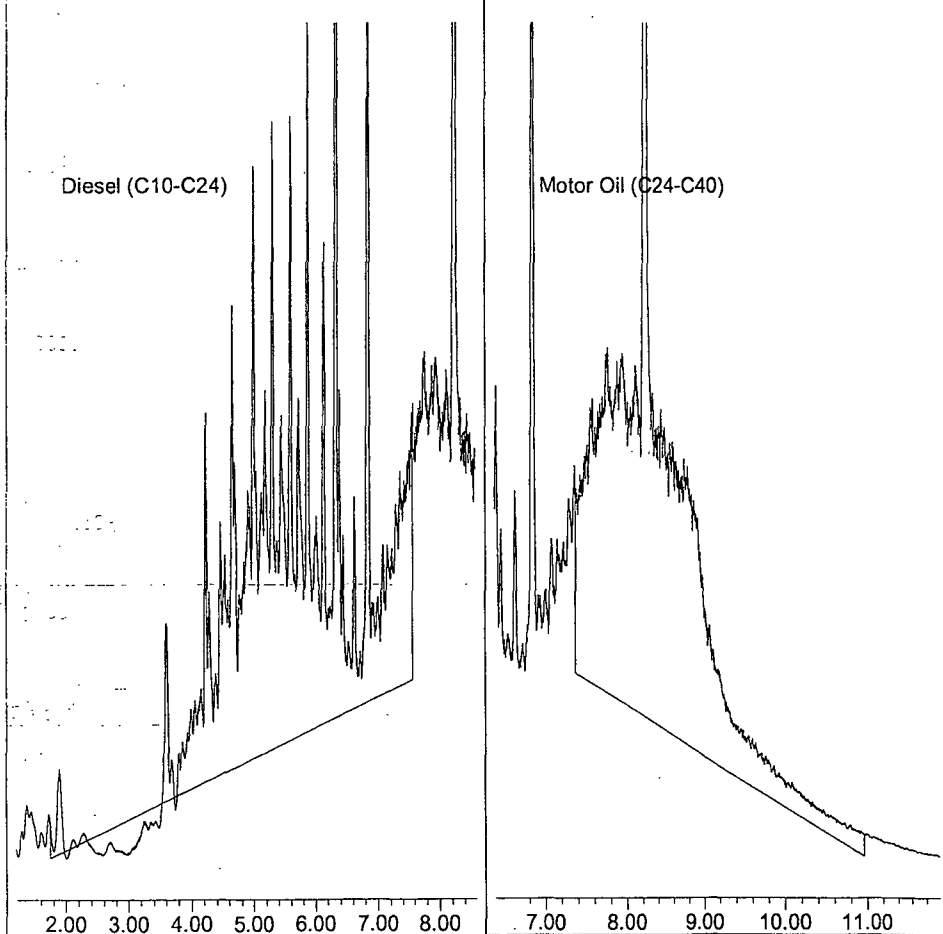
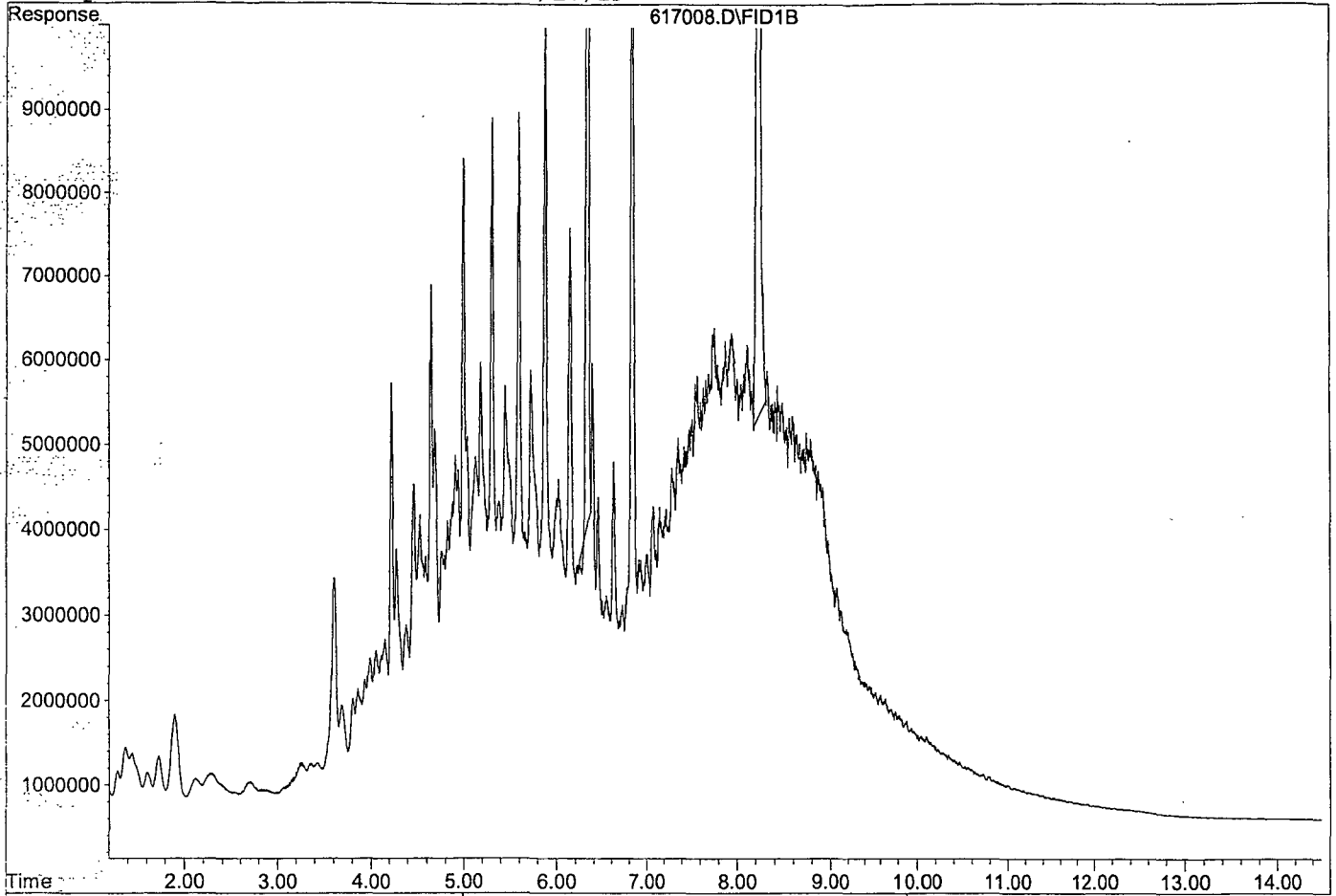
Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.34	341007115	93.814 ppb
Surrogate Spike 37.500		Recovery =	250.17%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.23	386797753	105.093 ppb
Surrogate Spike 37.500		Recovery =	280.25%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	4405297136	2036.598 ppb
2) HBTM-Motor Oil (C24-C40)	9.16	3395096242	1852.164 ppb
Target Compounds			

Data File: G:\APOLLO\DATA\190617\617008.D

Sample : Diesel/Motor Oil - 6/6/17/19



TPH Extractables
DOC0617

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: Water

SDG No: _____
Date Analyzed: 06/17/19
Instrument: Apollo
Initial Cal. Date: 06/17/19
Data File: 617009.D

	Compound	MEAN	CCRF	%D	%Drift
1	HATM Diesel (C10-C24)	1351010	1018430	25	HATML 5.3
2	HBTM Motor Oil (C24-C40)	916522	873901	4.7	HBTM
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
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37					
38					
39					
40	Average			14.9	

Data File : G:\APOLLO\DATA\190617\617009.D Vial: 9
 Acq On : 6-17-19 18:39:28 Operator: DP
 Sample : Diesel/Motor Oil Second Source 1/15/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:21 2019 Quant Results File: DOC0617.RES

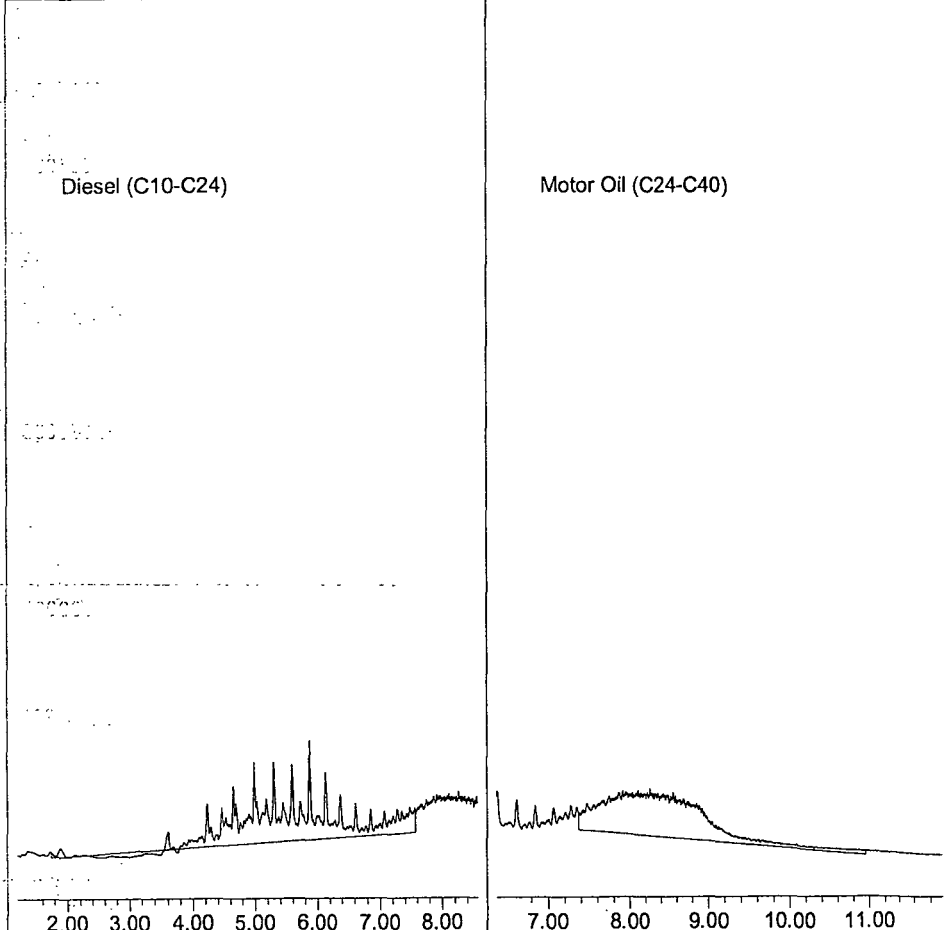
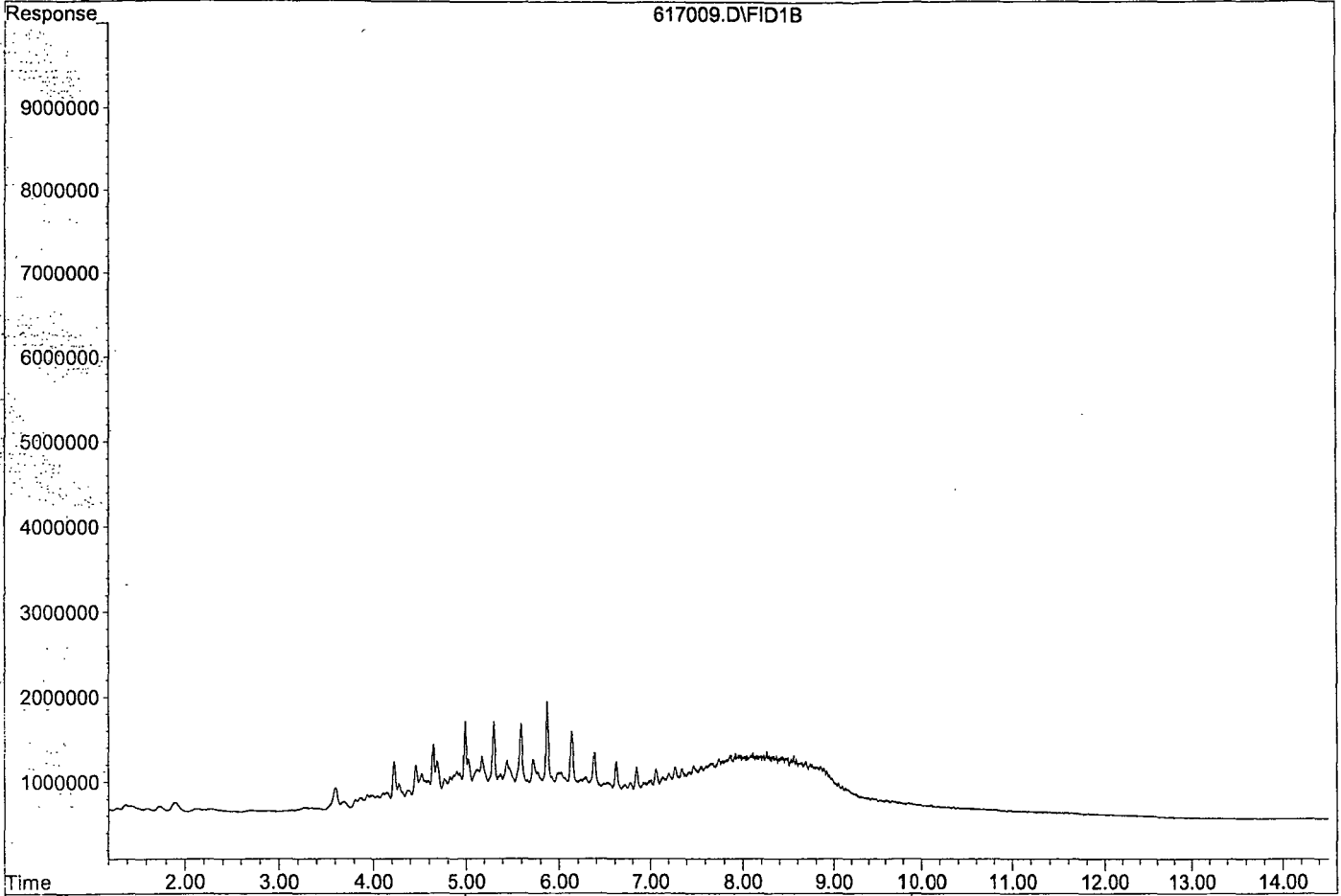
Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	0.00	0	N.D. ppb d
Surrogate Spike 37.500		Recovery =	0.00%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	0.00	0	N.D. ppb d
Surrogate Spike 37.500		Recovery =	0.00%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	509215791	236.663 ppb
2) HBTM Motor Oil (C24-C40)	9.16	436950596	238.374 ppb

Target Compounds

Data File: G:\APOLLO\DATA\190617\617009.D
Sample : Diesel/Motor Oil Second Source 1/15/19



Data File : G:\APOLLO\DATA\190411\411009.D Vial: 9
 Acq On : 4-11-19 15:57:31 Operator: DP
 Sample : Decanoic Acid - 1 4/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:04 2019 Quant Results File: DOC0617.RES

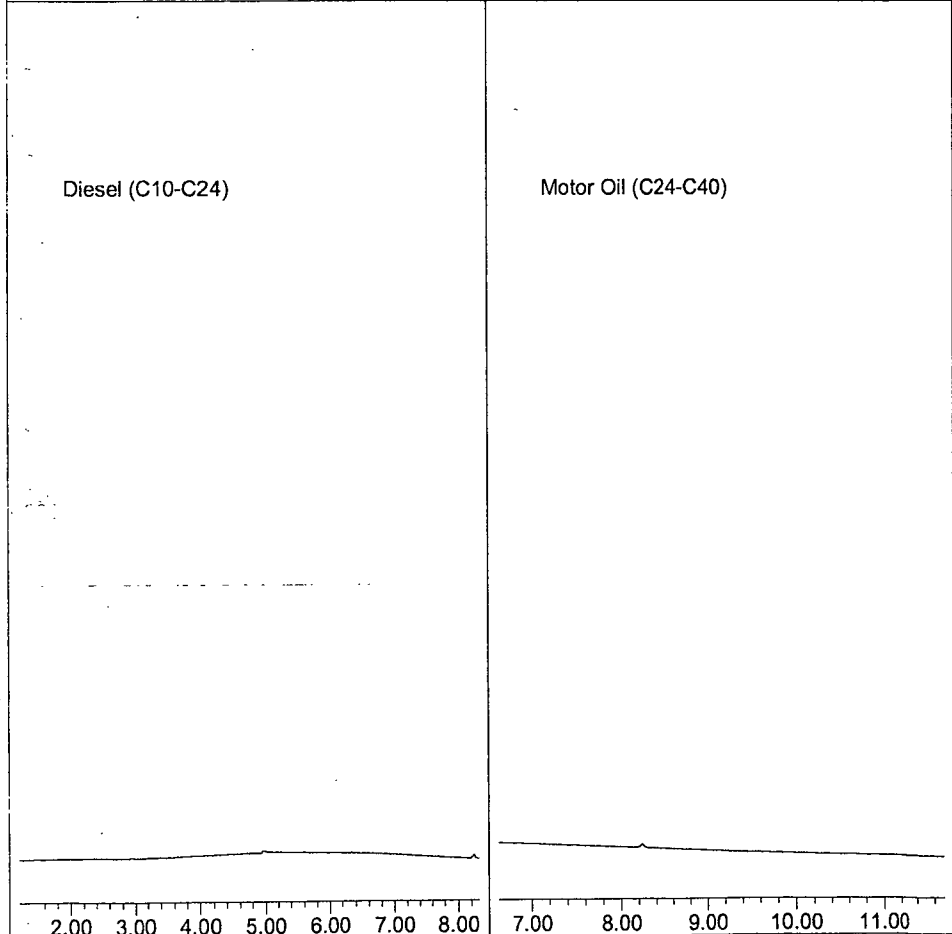
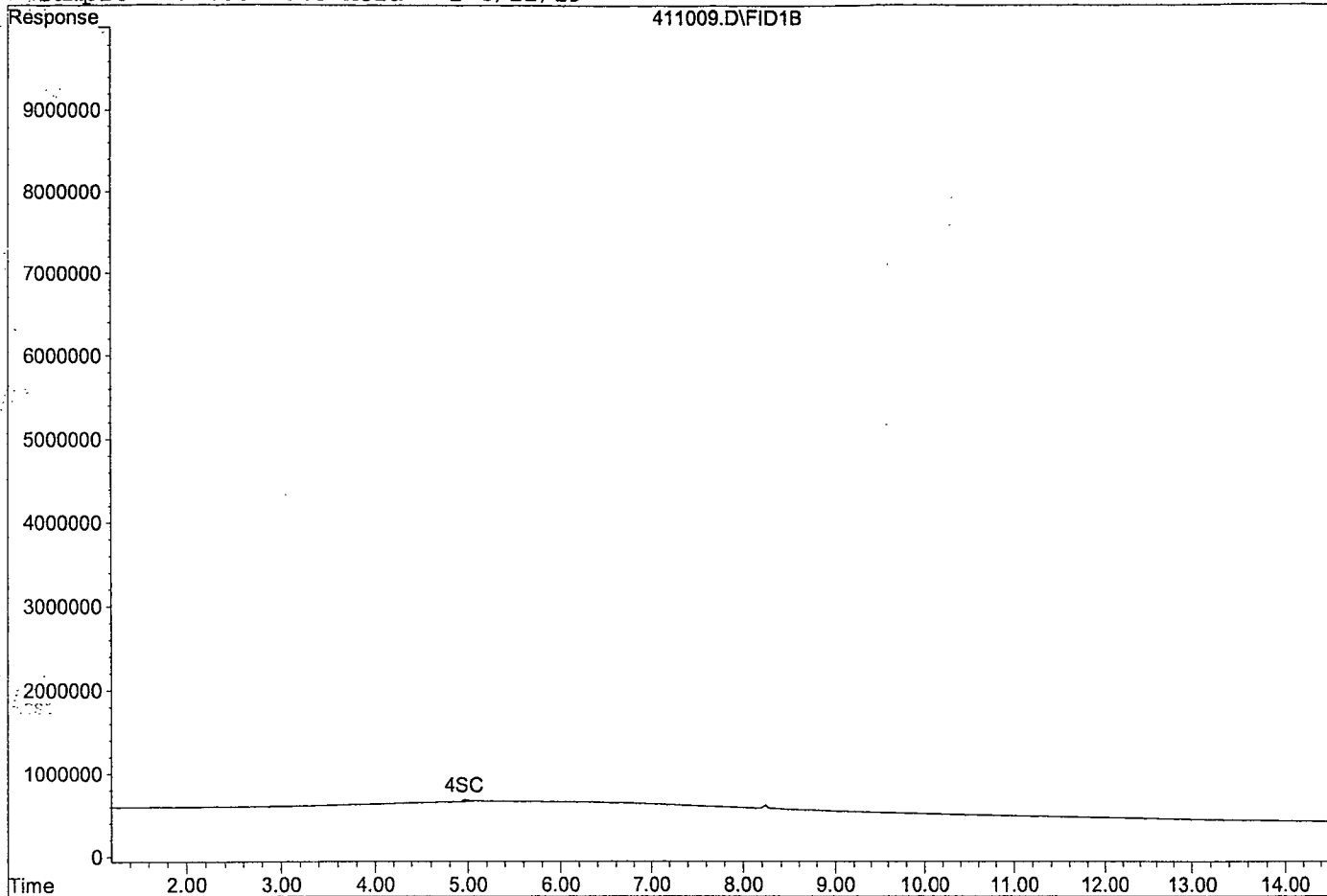
Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
4) SC Decanoic Acid(S)	4.95	901062	3.555	ppb m
Surrogate Spike 24.000		Recovery =	14.81%	
5) SA Octacosane(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
Target Compounds				
Target Compounds				
1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb

Data File: G:\APOLLO\DATA\190411\411009.D

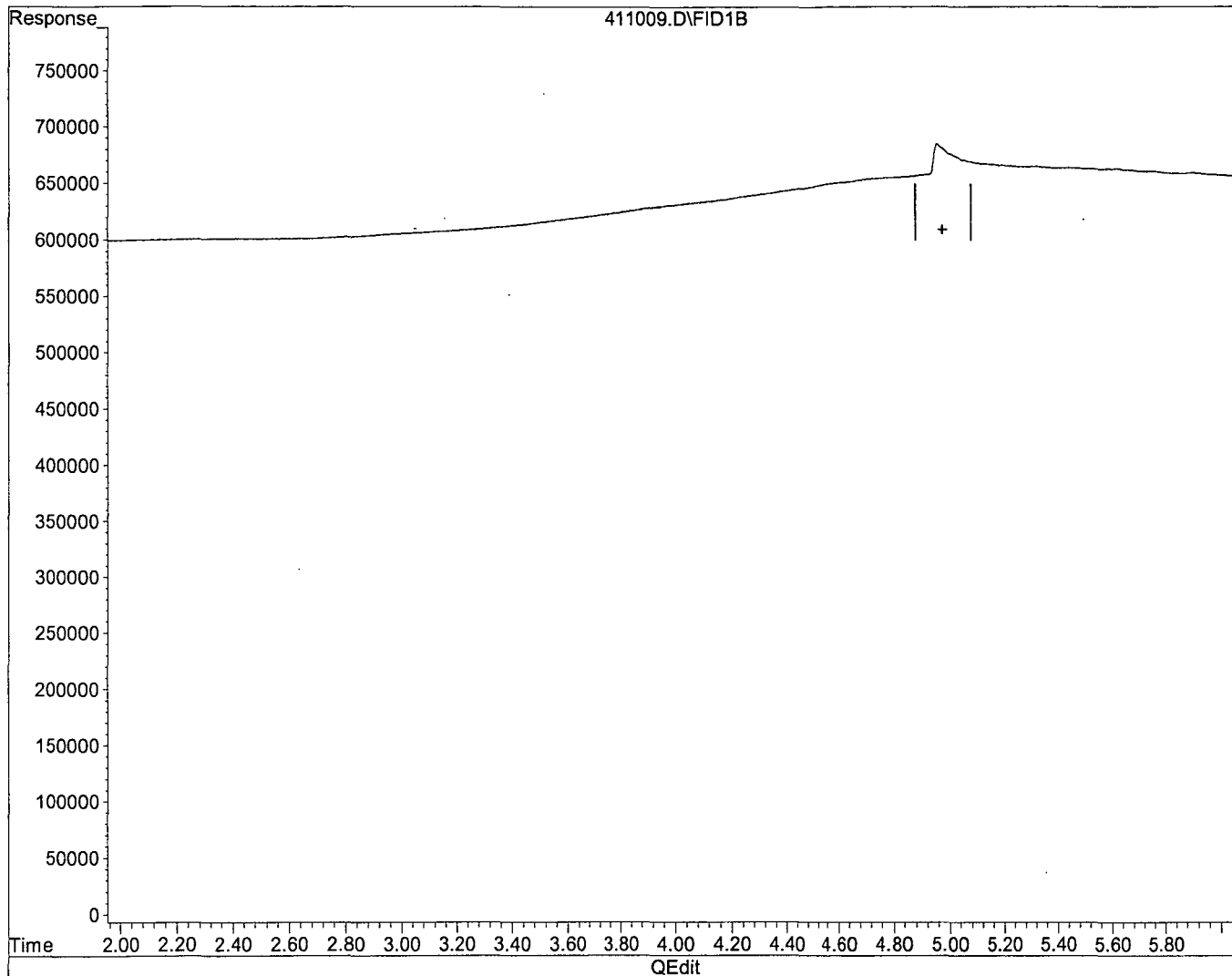
Sample : Decanoic Acid - 1 4/11/19



Quantitation Report

Data File : G:\APOLLO\DATA\190411\411009.D Vial: 9
Acq On : 4-11-19 15:57:31 Operator: DP
Sample : Decanoic Acid - 1 4/11/19 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Jul 17 10:01 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Jul 17 09:56:49 2019
Response via : Multiple Level Calibration



(4) Decanoic Acid(S) (SC)
4.96min -2.682ppb
response -6352807

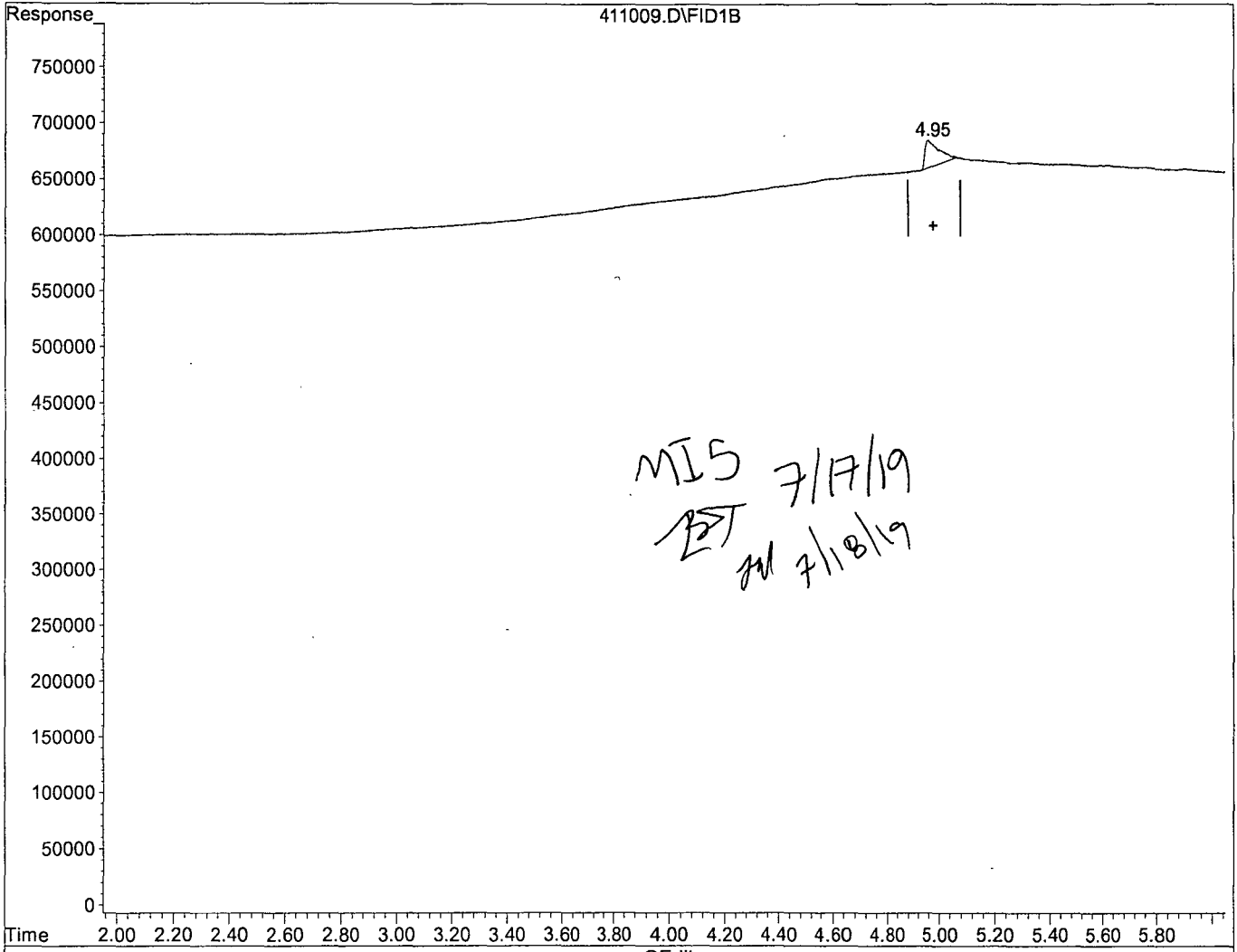
Quantitation Report

Data File : G:\APOLLO\DATA\190411\411009.D
Acq On : 4-11-19 15:57:31
Sample : Decanoic Acid - 1 4/11/19
Misc : water
IntFile : events.e
Quant Time: Jul 17 10:01 2019

Vial: 9
Operator: DP
Inst : Apollo
Multiplr: 1.00

Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Jul 17 09:56:49 2019
Response via : Multiple Level Calibration



MIS 7/17/19
ST 7/18/19

(4) Decanoic Acid(S) (SC)

4.95min 3.555ppb m

response 901062

Data File : G:\APOLLO\DATA\190411\411010.D Vial: 10
 Acq On : 4-11-19 16:16:26 Operator: DP
 Sample : Decanoic Acid - 2 4/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:04 2019 Quant Results File: DOC0617.RES

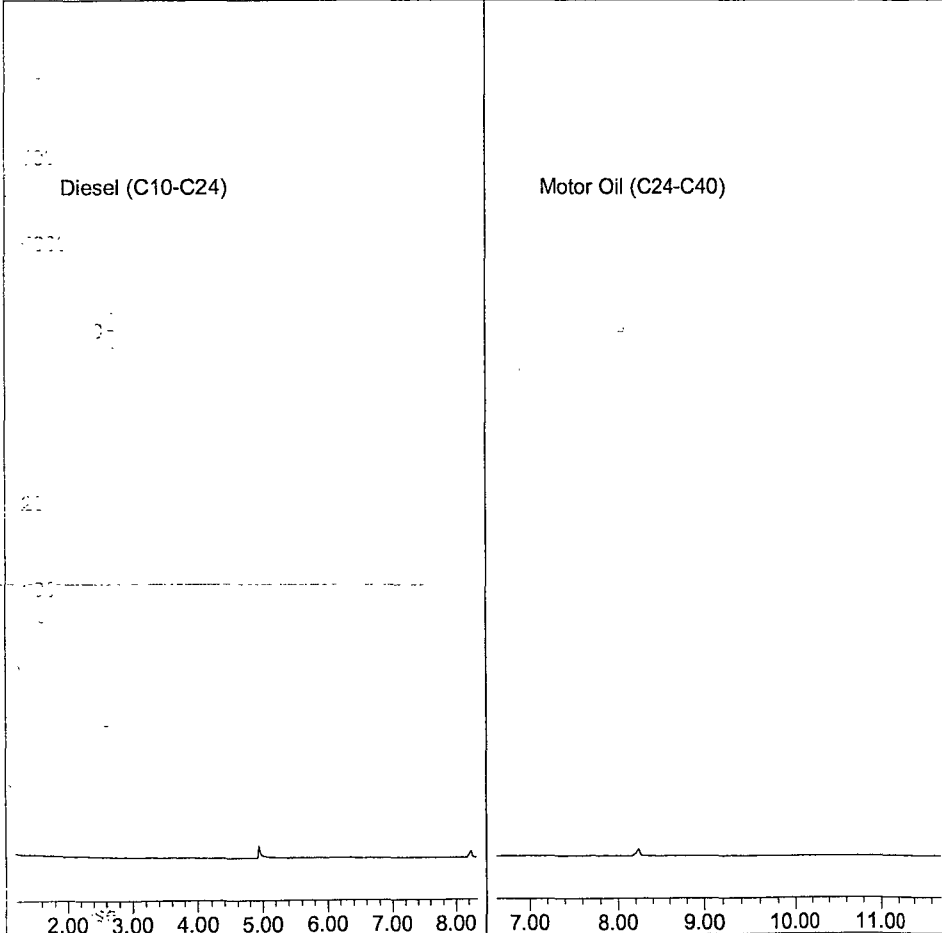
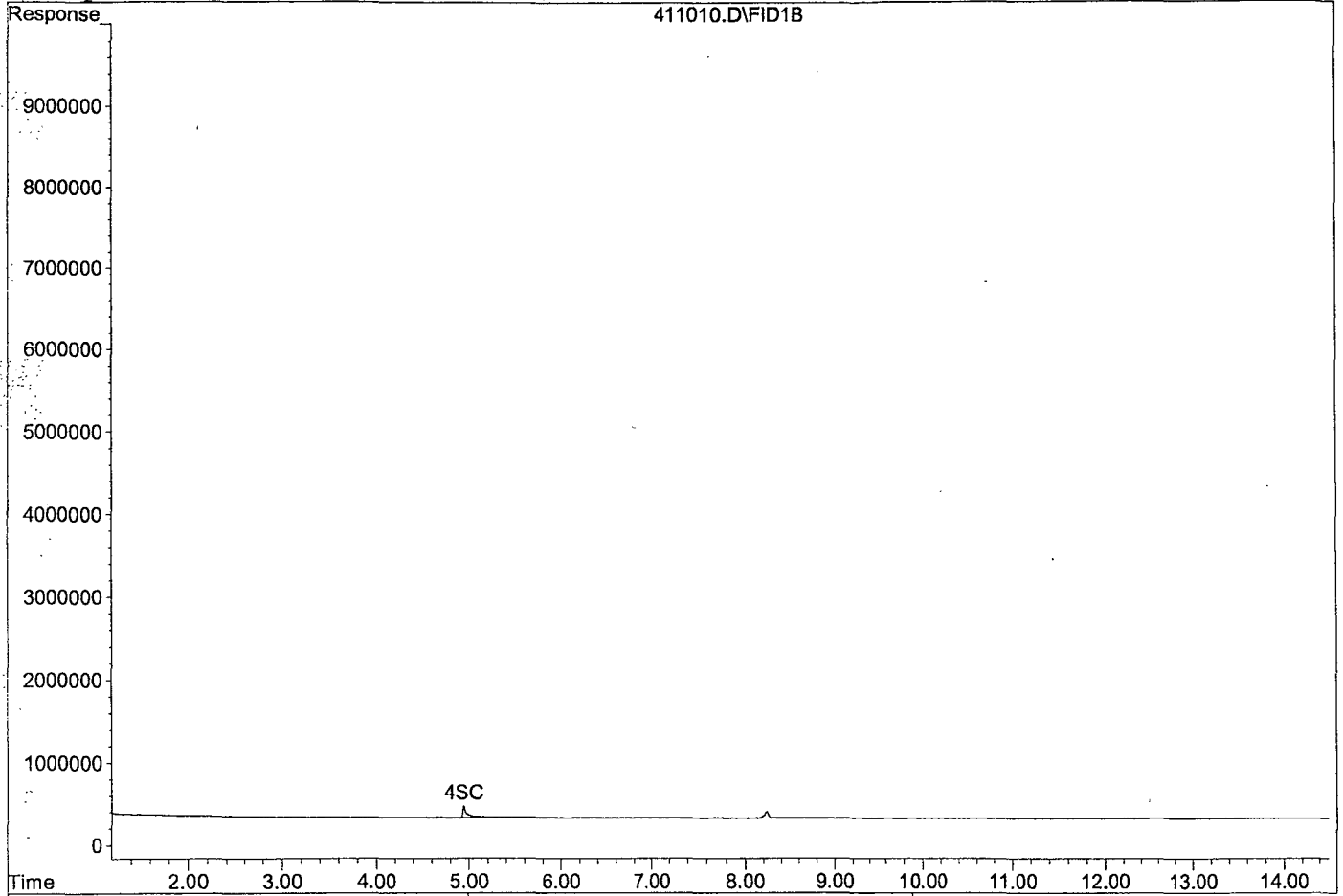
Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	0.00	0	N.D. ppb d
Surrogate Spike 37.500		Recovery =	0.00%
4) SC Decanoic Acid(S)	4.94	3775239	6.027 ppb
Surrogate Spike 24.000		Recovery =	25.11%
5) SA Octacosane(S)	0.00	0	N.D. ppb d
Surrogate Spike 37.500		Recovery =	0.00%
Target Compounds			
Target Compounds			
1) HATM Diesel (C10-C24)	0.00	0	N.D. ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D. ppb

Data File: G:\APOLLO\DATA\190411\411010.D

Sample : Decanoic Acid - 2 4/11/19



Data File : G:\APOLLO\DATA\190411\411011.D Vial: 11
 Acq On : 4-11-19 16:36:04 Operator: DP
 Sample : Decanoic Acid - 3 4/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:04 2019 Quant Results File: DOC0617.RES

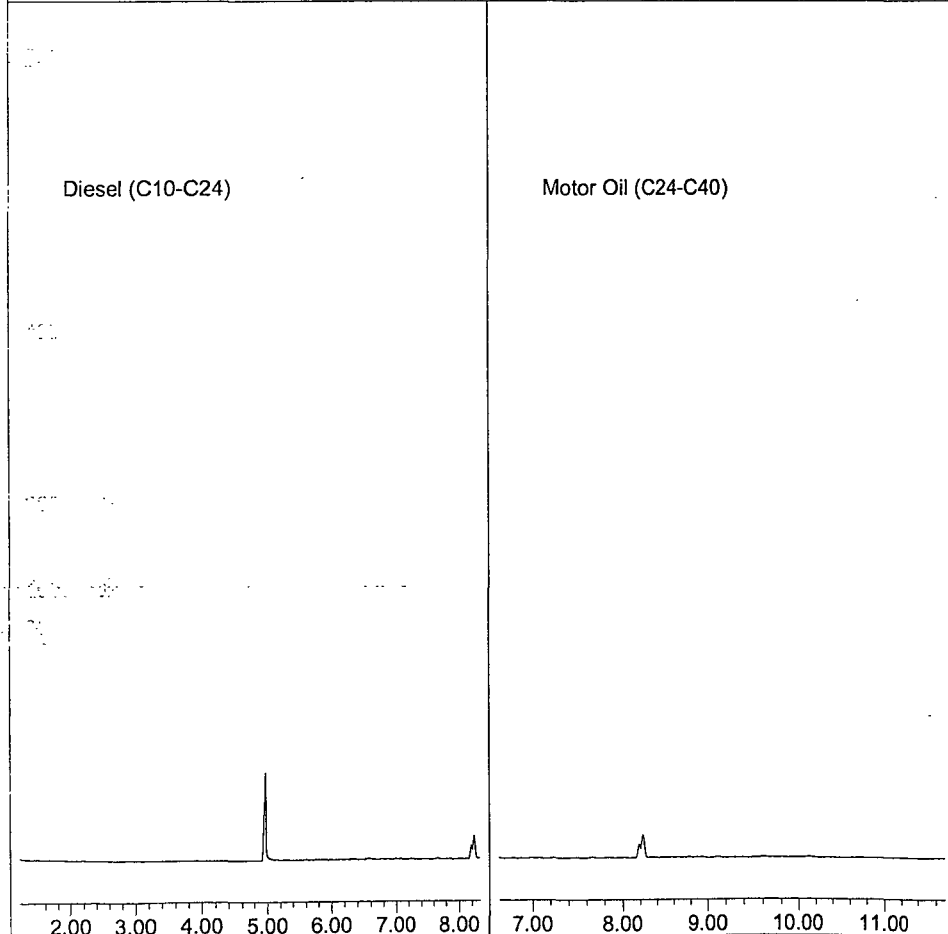
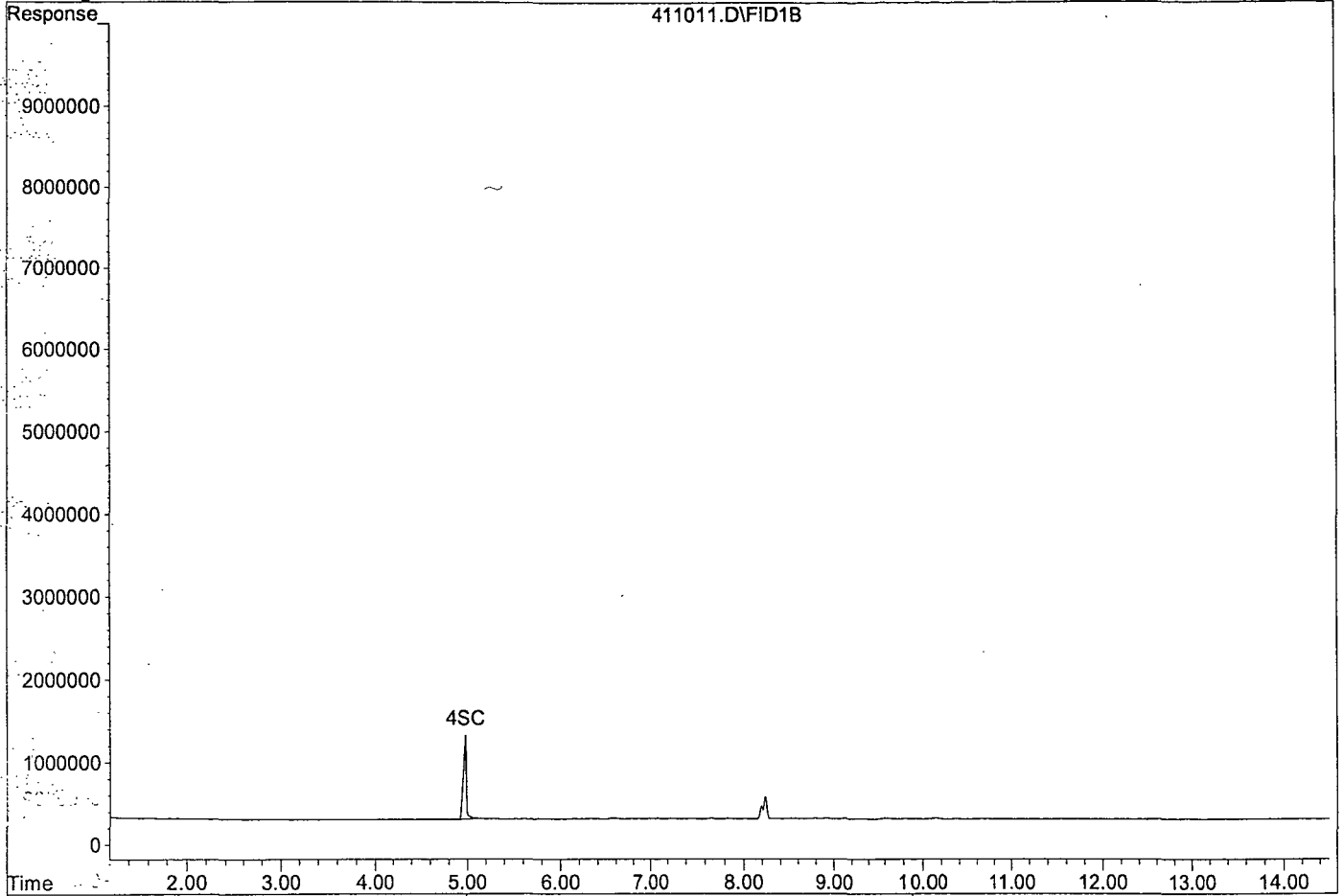
Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
4) SC Decanoic Acid(S)	4.97	23638982	23.106	ppb
Surrogate Spike 24.000		Recovery =	96.28%	
5) SA Octacosane(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
Target Compounds				
Target Compounds				
1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb

Data File: G:\APOLLO\DATA\190411\411011.D

Sample : Decanoic Acid - 3 4/11/19



Data File : G:\APOLLO\DATA\190411\411012.D Vial: 12
 Acq On : 4-11-19 16:55:47 Operator: DP
 Sample : Decanoic Acid - 4 4/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:04 2019 Quant Results File: DOC0617.RES

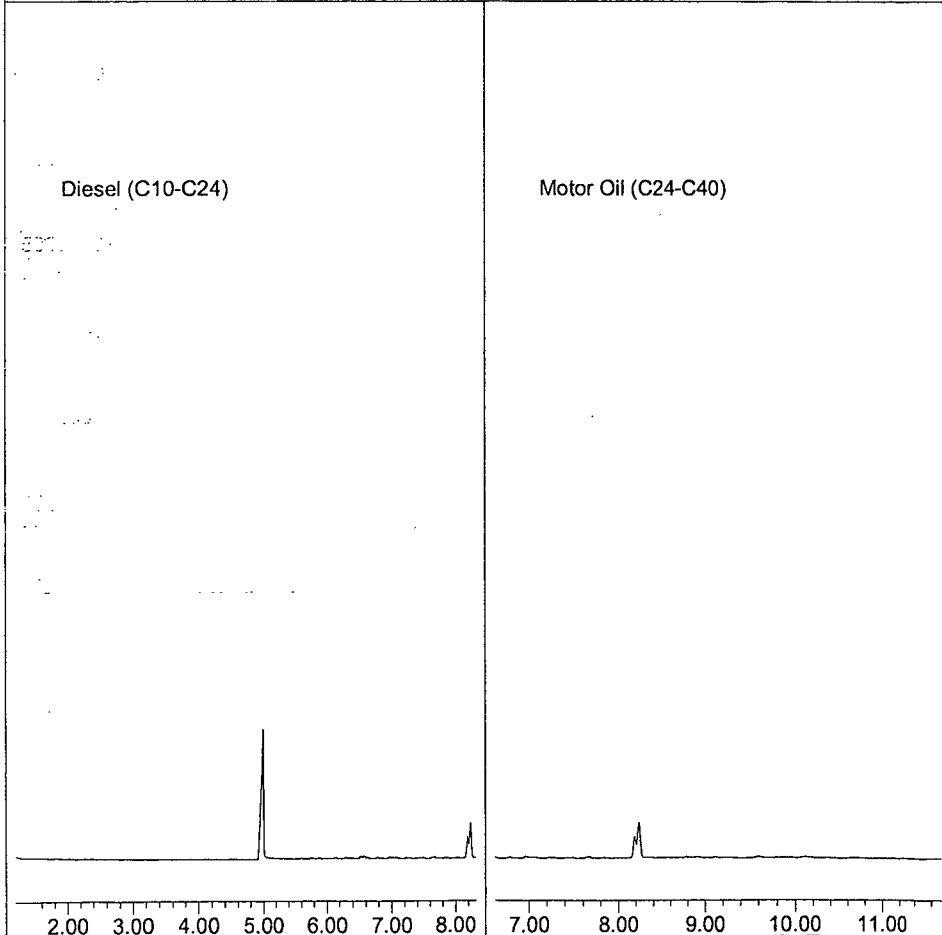
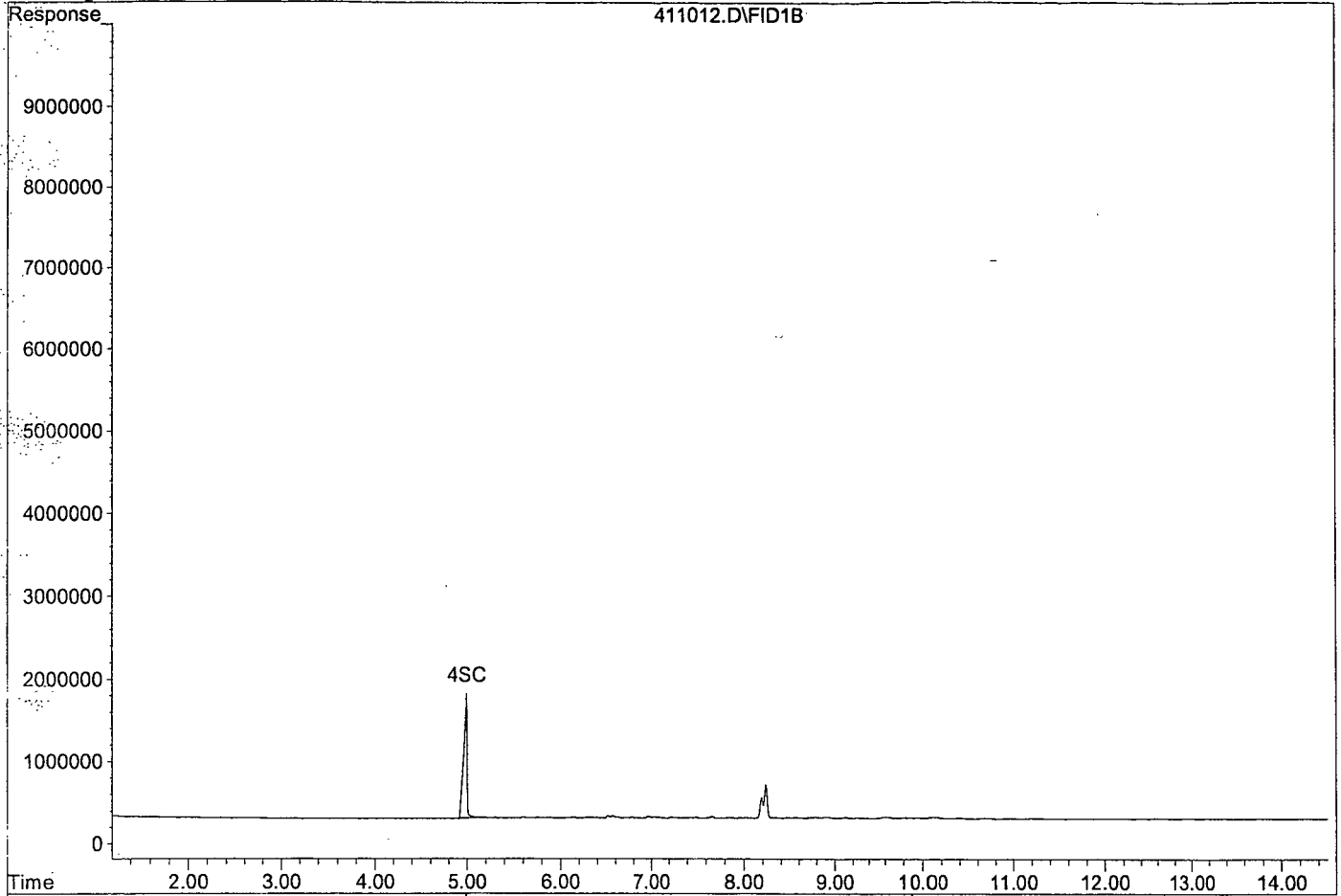
Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	0.00	0	N.D. ppb d
Surrogate Spike 37.500		Recovery =	0.00%
4) SC Decanoic Acid(S)	4.99	38673628	36.034 ppb
Surrogate Spike 24.000		Recovery =	150.14%
5) SA Octacosane(S)	0.00	0	N.D. ppb d
Surrogate Spike 37.500		Recovery =	0.00%
Target Compounds			
Target Compounds			
1) HATM Diesel (C10-C24)	0.00	0	N.D. ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D. ppb

Data File: G:\APOLLO\DATA\190411\411012.D

Sample : Decanoic Acid - 4 4/11/19



Data File : G:\APOLLO\DATA\190411\411013.D Vial: 13
 Acq On : 4-11-19 17:15:26 Operator: DP
 Sample : Decanoic Acid - 5 4/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:04 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
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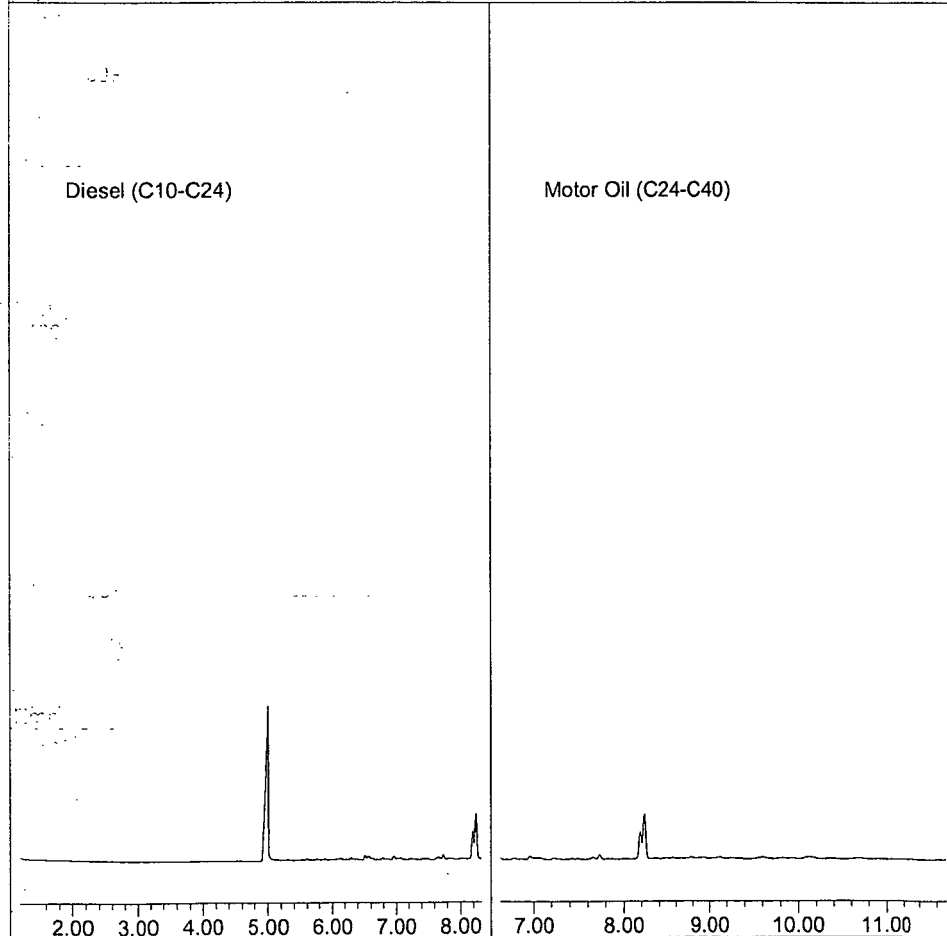
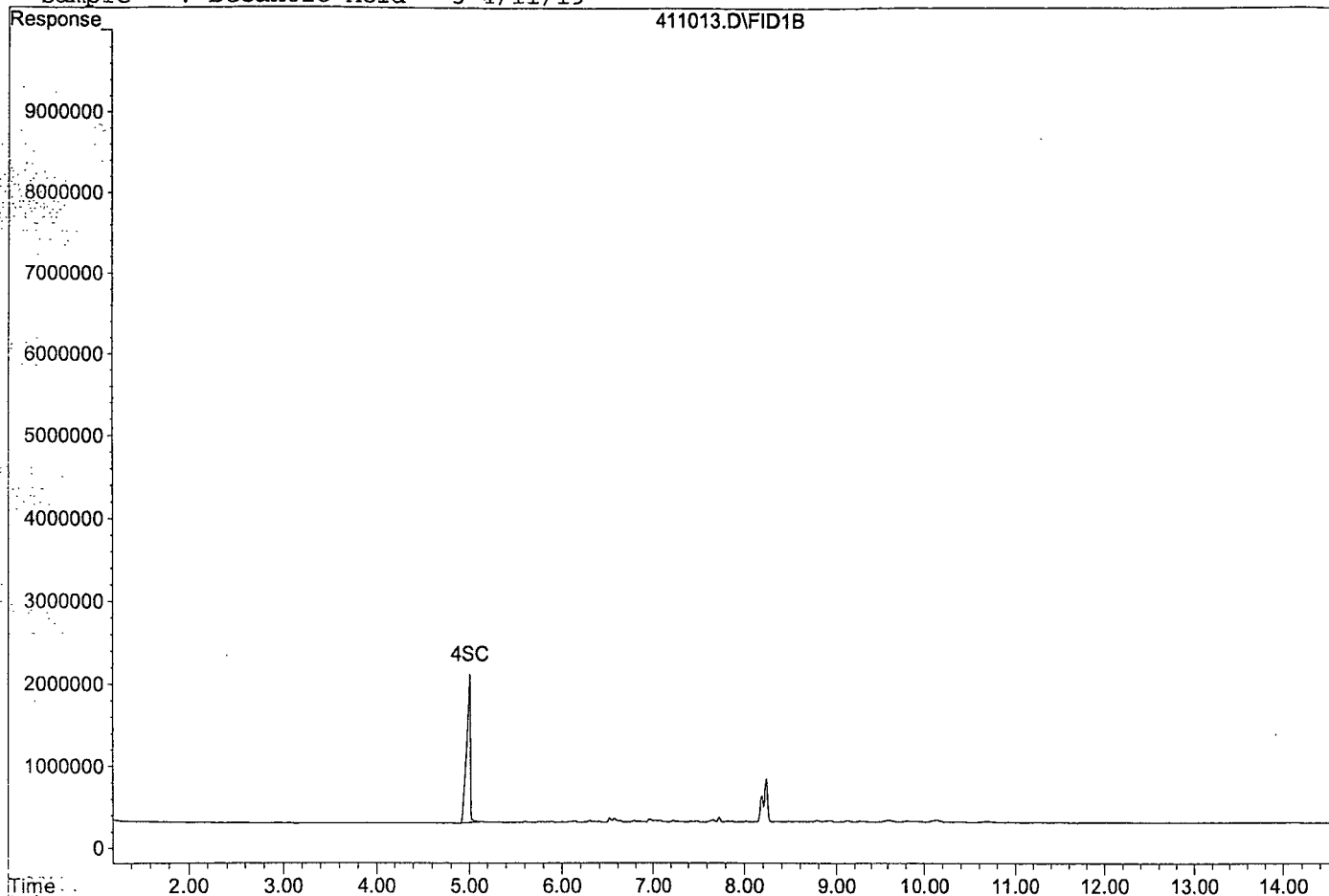
System Monitoring Compounds

3) SA Ortho-Terphenyl(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
4) SC Decanoic Acid(S)	5.00	52115206	47.592	ppb
Surrogate Spike 24.000		Recovery =	198.30%	
5) SA Octacosane(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	

Target Compounds

Target Compounds

1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb



Data File : G:\APOLLO\DATA\190411\411014.D
 Acq On : 4-11-19 17:35:11
 Sample : Decanoic Acid - 6 4/11/19
 Misc : water
 IntFile : events.e

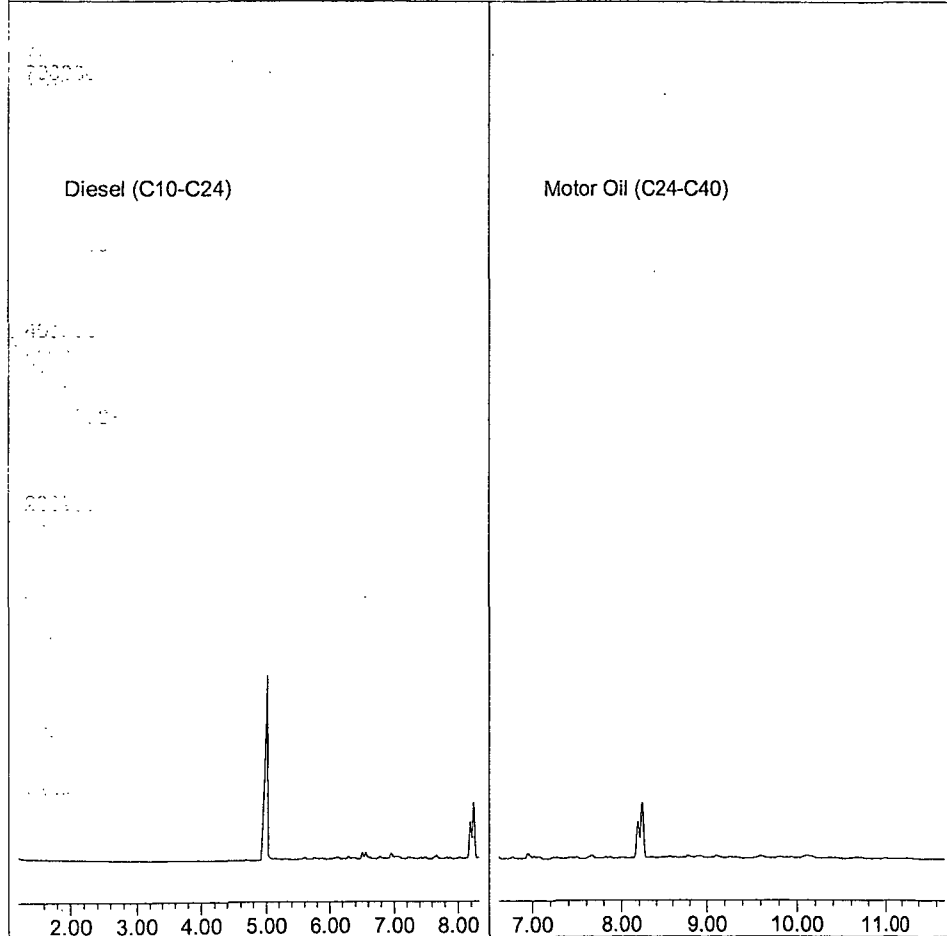
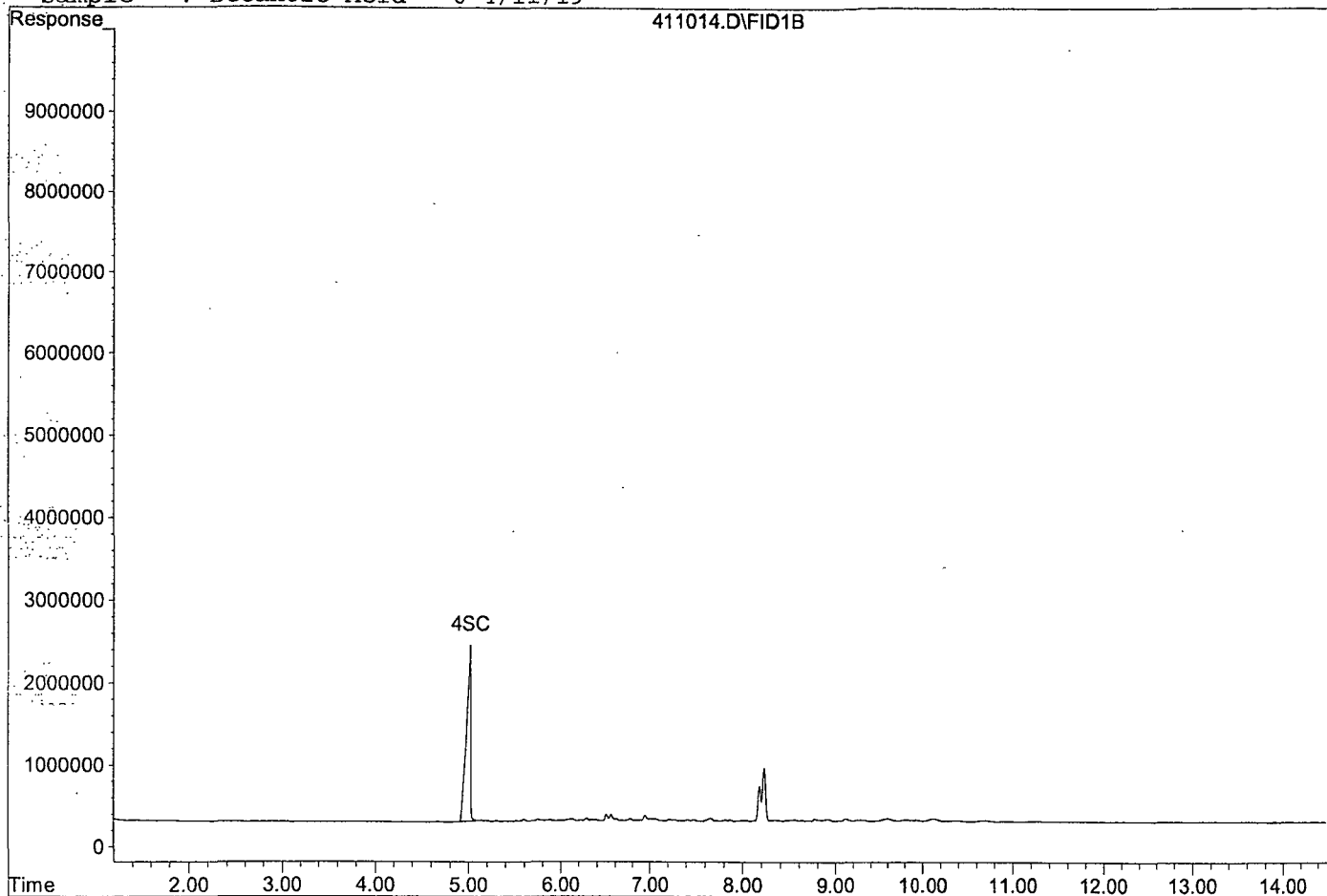
Vial: 14
 Operator: DP
 Inst : Apollo
 Multiplr: 1.00

Quant Time: Jul 17 10:05 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
4) SC Decanoic Acid(S)	5.02	67279572	60.631	ppb
Surrogate Spike 24.000		Recovery =	252.63%	
5) SA Octacosane(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
Target Compounds				
Target Compounds				
1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb



TPH Extractables
DOC0617

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: Water

SDG No: _____
Date Analyzed: 7/30/2019
Instrument: Apollo
Initial Cal. Date: 6/17/2019
Data File: 713253.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C24)	1351010	1044610	23	HATML	2.9
2	HBTM	Motor Oil (C24-C40)	916522	836579	8.7	HBTM	
3	SA	Ortho-Terphenyl(S)	1817470	1794810	1.2	SA	
4	SA	Octacosane(S)	1840270	1768300	3.9	SA	
5							
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39							
40							

Average

9.2

Data File : G:\APOLLO\DATA\190713\713253.D Vial: 53
 Acq On : 7-30-19 18:18:15 Operator: DP
 Sample : Diesel/Motor Oil CCV 7/19/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 8 10:04 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

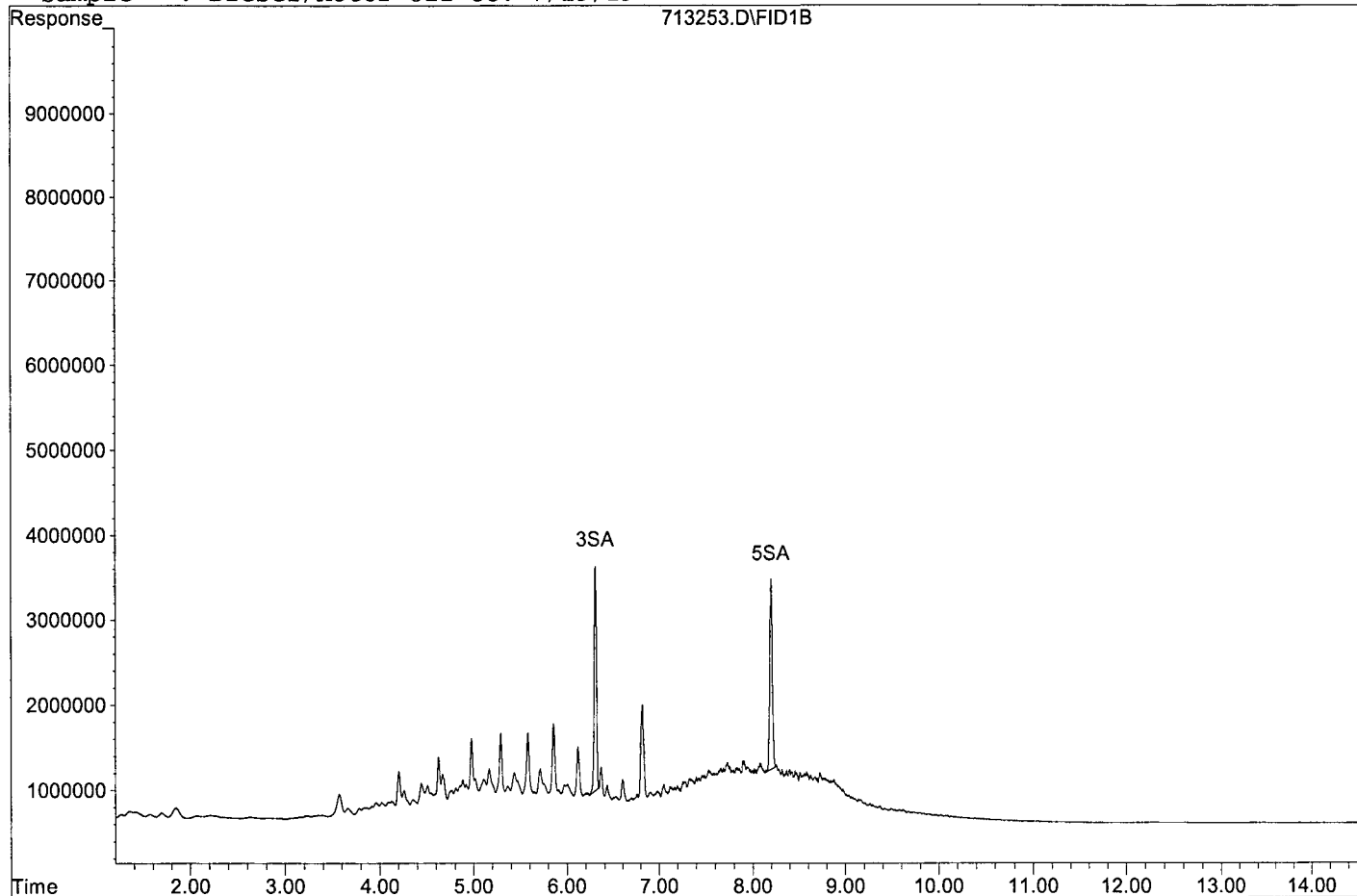
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	44870308	12.344 ppb
Surrogate Spike 30.000		Recovery =	41.15%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.20	44207443	12.011 ppb
Surrogate Spike 30.000		Recovery =	40.04%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	522304180	242.709 ppb
2) HBTM Motor Oil (C24-C40)	9.16	418289464	228.194 ppb

Target Compounds

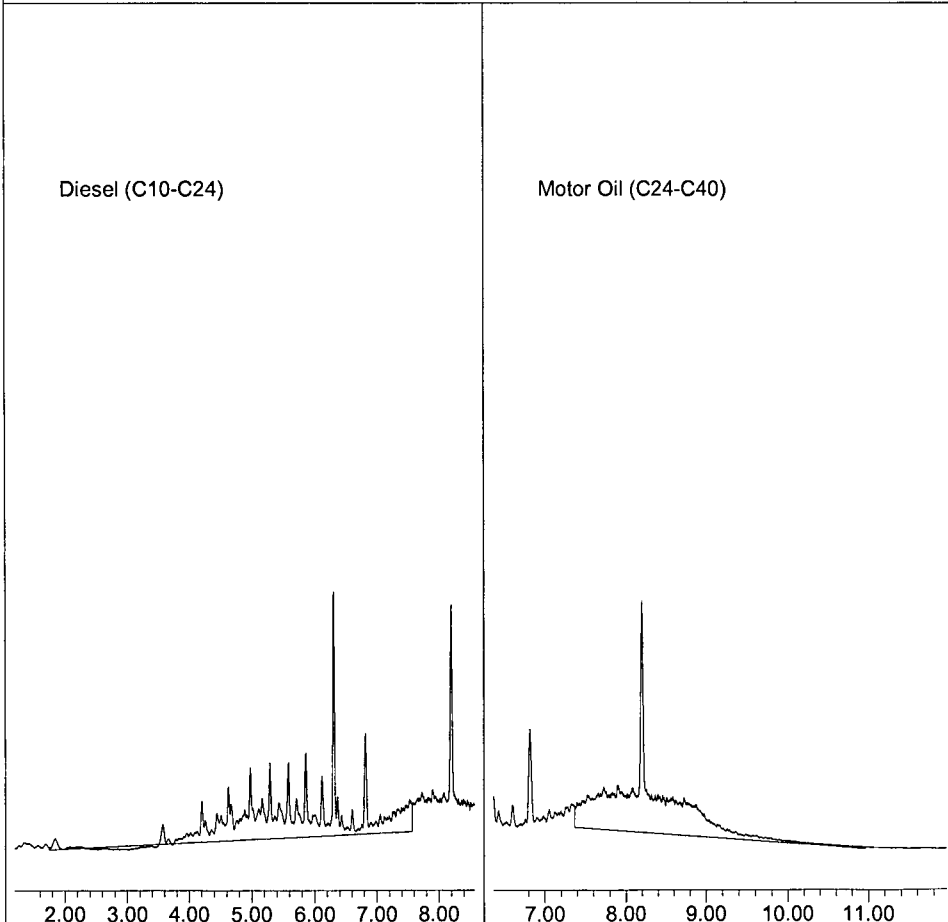
Data File: G:\APOLLO\DATA\190713\713253.D

Sample : Diesel/Motor Oil CCV 7/19/19



Diesel (C10-C24)

Motor Oil (C24-C40)



TPH Extractables
DOC0617

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 7/30/2019

Matrix: Water

Instrument: Apollo

Initial Cal. Date: 6/17/2019

Data File: 713267.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C24)	1351010	1065300	21	HATML	1.0
2	HBTM	Motor Oil (C24-C40)	916522	837632	8.6	HBTM	
3	SA	Ortho-Terphenyl(S)	1817470	1831690	0.78	SA	
4	SA	Octacosane(S)	1840270	1800810	2.1	SA	
5							
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32							
33							
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35							
36							
37							
38							
39							
40		Average			8.1		

Data File : G:\APOLLO\DATA\190713\713267.D Vial: 67
 Acq On : 7-30-19 22:57:31 Operator: DP
 Sample : Diesel/Motor Oil CCV 7/19/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 8 10:07 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

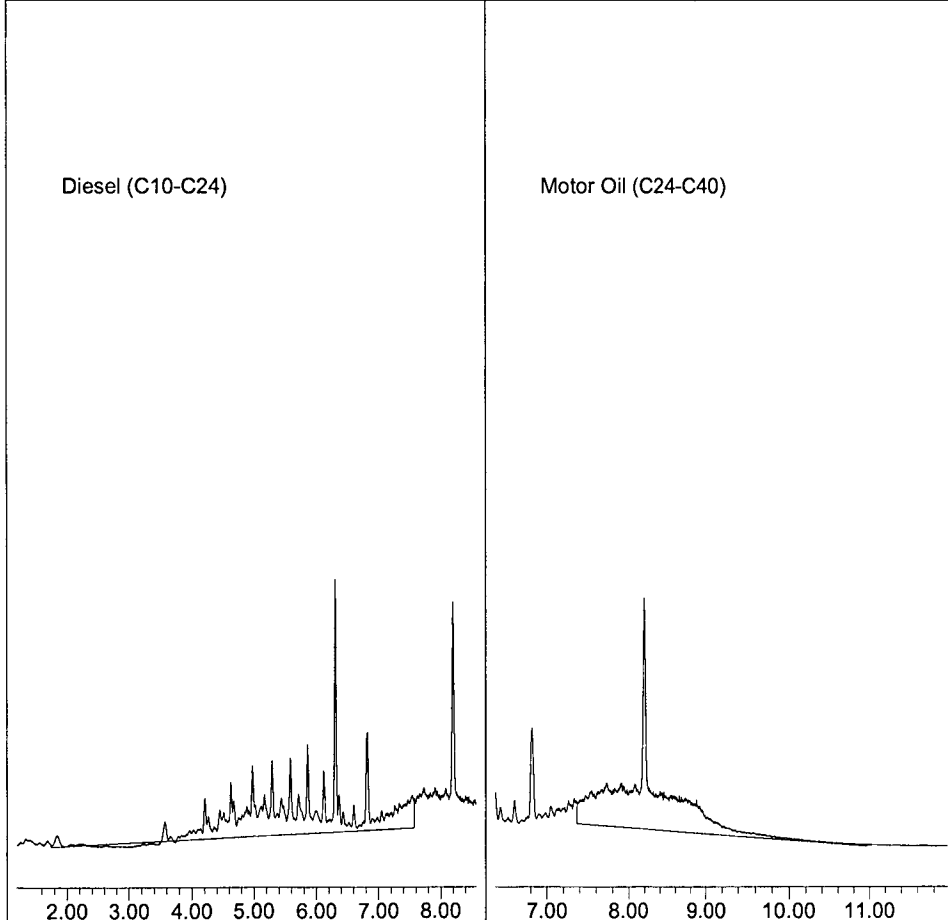
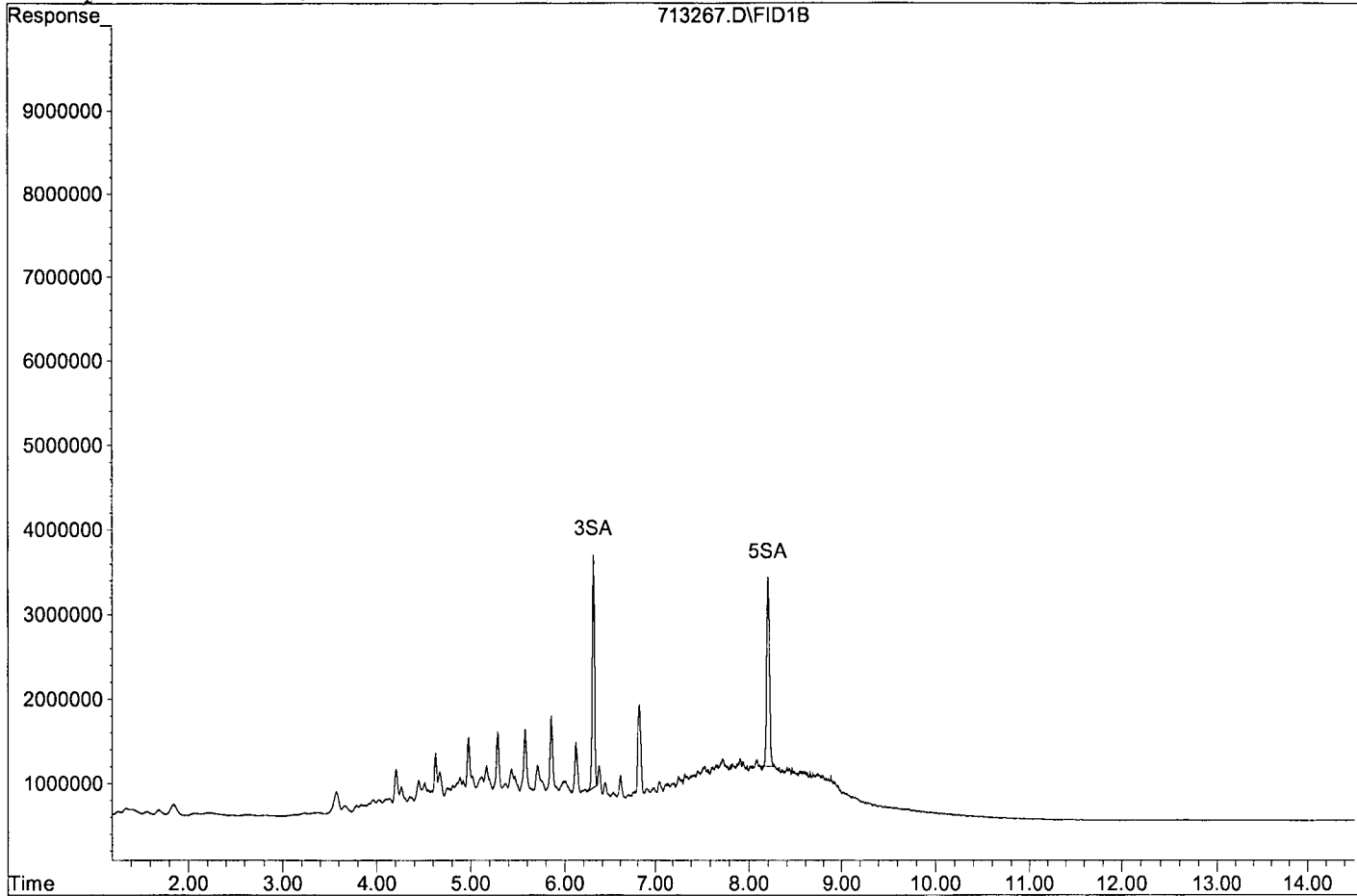
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	45792223	12.598 ppb
Surrogate Spike 30.000		Recovery =	41.99%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.20	45020171	12.232 ppb
Surrogate Spike 30.000		Recovery =	40.77%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	532650231	247.489 ppb
2) HBTM Motor Oil (C24-C40)	9.16	418815878	228.481 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190713\713267.D

Sample : Diesel/Motor Oil CCV 7/19/19



ORGANICS
Raw Data

Data File : G:\APOLLO\DATA\190713\713257.D Vial: 57
 Acq On : 7-30-19 19:37:47 Operator: DP
 Sample : AZ95187W13 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 8 10:56 2019 Quant Results File: DOC0617.RES

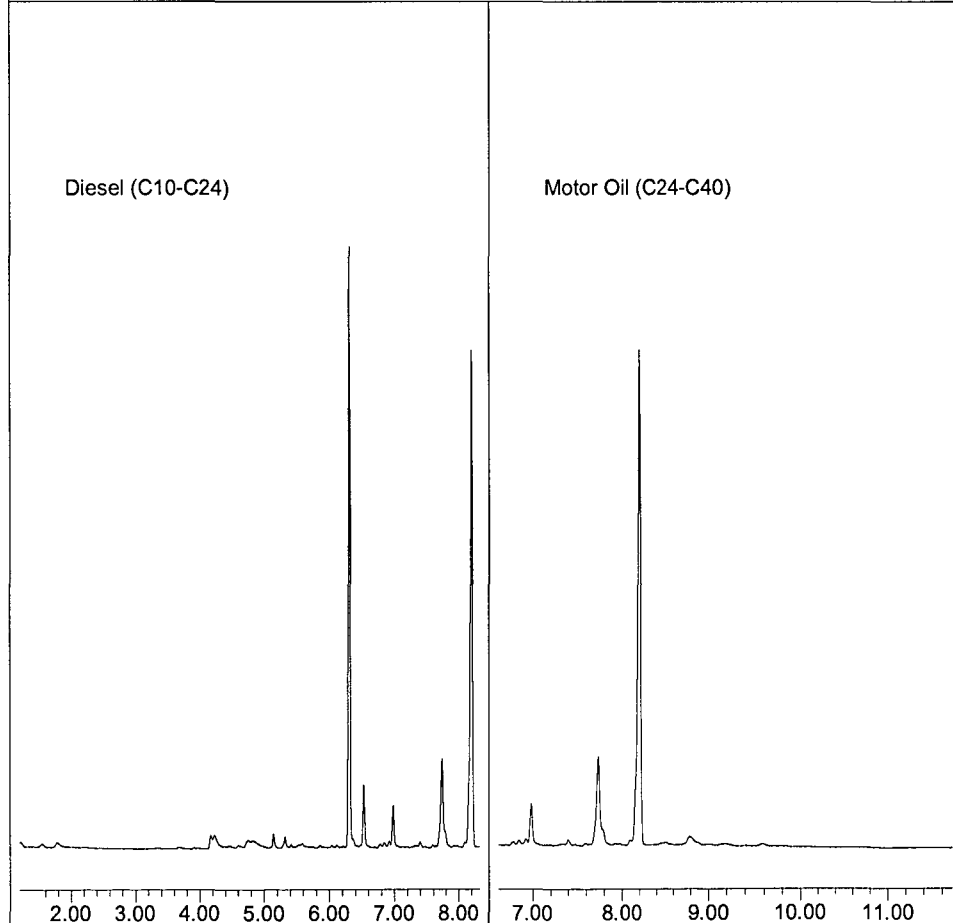
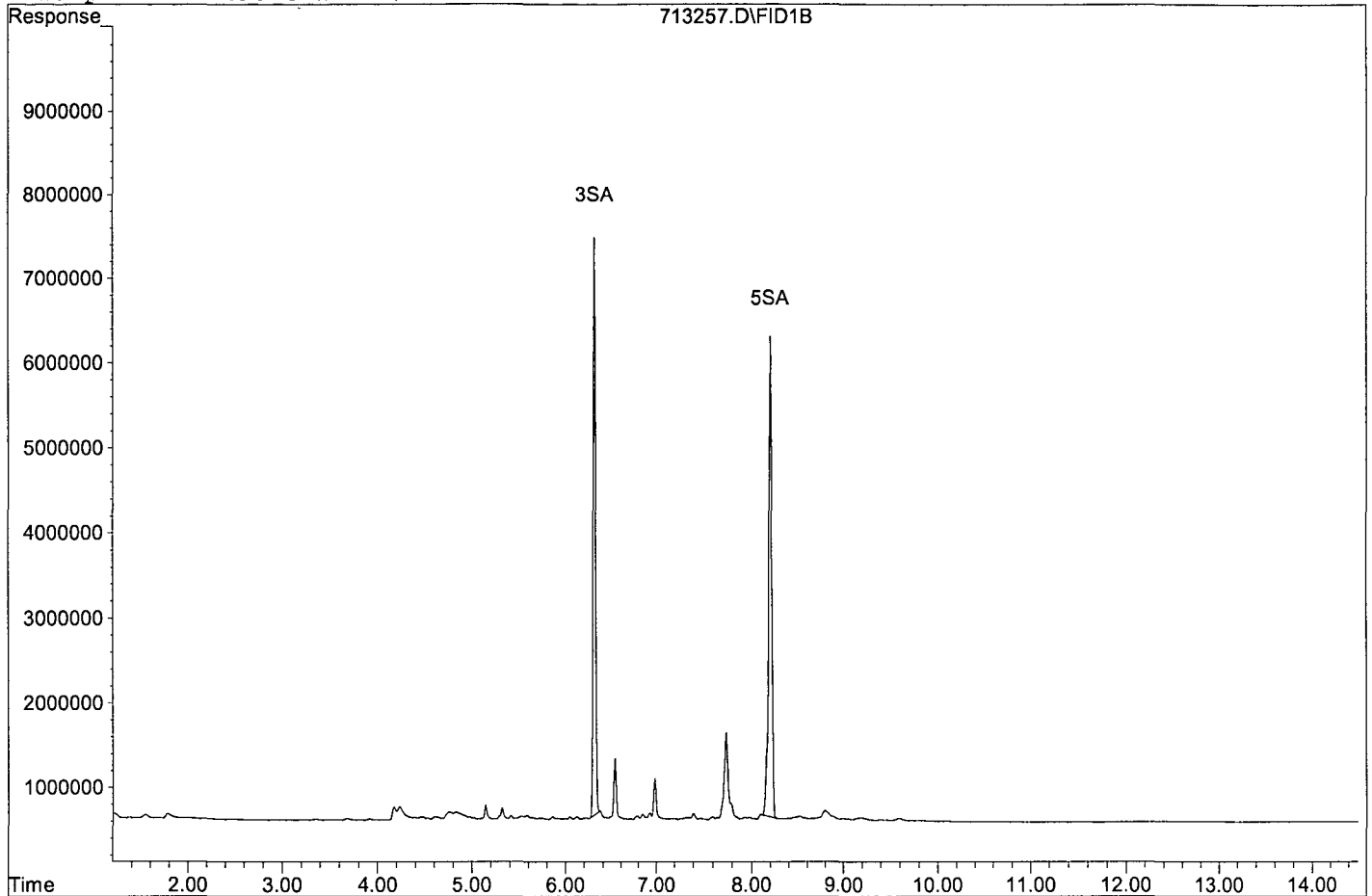
Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	114980407	79.080 ppb
Surrogate Spike 75.000		Recovery =	105.44%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 60.000		Recovery =	0.00%
5) SA Octacosane(S)	8.20	130670584	88.758 ppb
Surrogate Spike 75.000		Recovery =	118.34%
Target Compounds			
Target Compounds			
1) HATM Diesel (C10-C24)	0.00	0	N.D. ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D. ppb

Quantitation Report

Data File: G:\APOLLO\DATA\190713\713257.D
Sample : AZ95187W13 2/800



Data File : G:\APOLLO\DATA\190713\713258.D Vial: 58
 Acq On : 7-30-19 19:57:52 Operator: DP
 Sample : AZ95189W21 MS-1 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 8 10:02 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

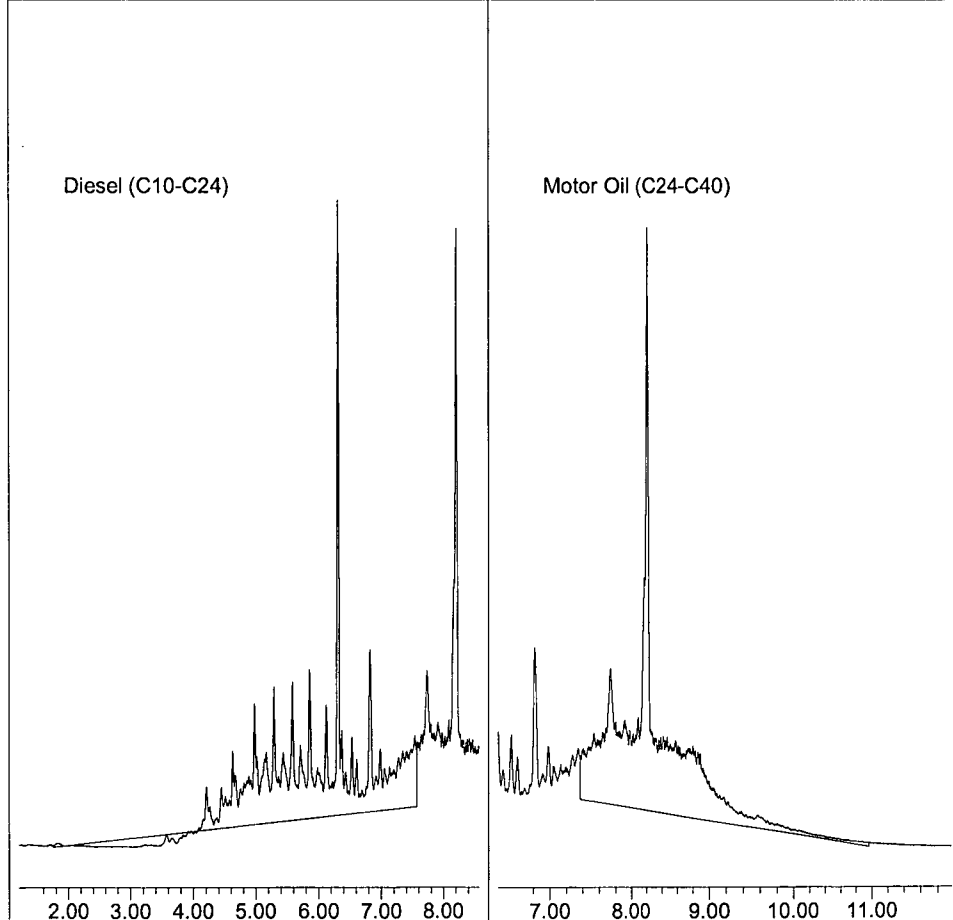
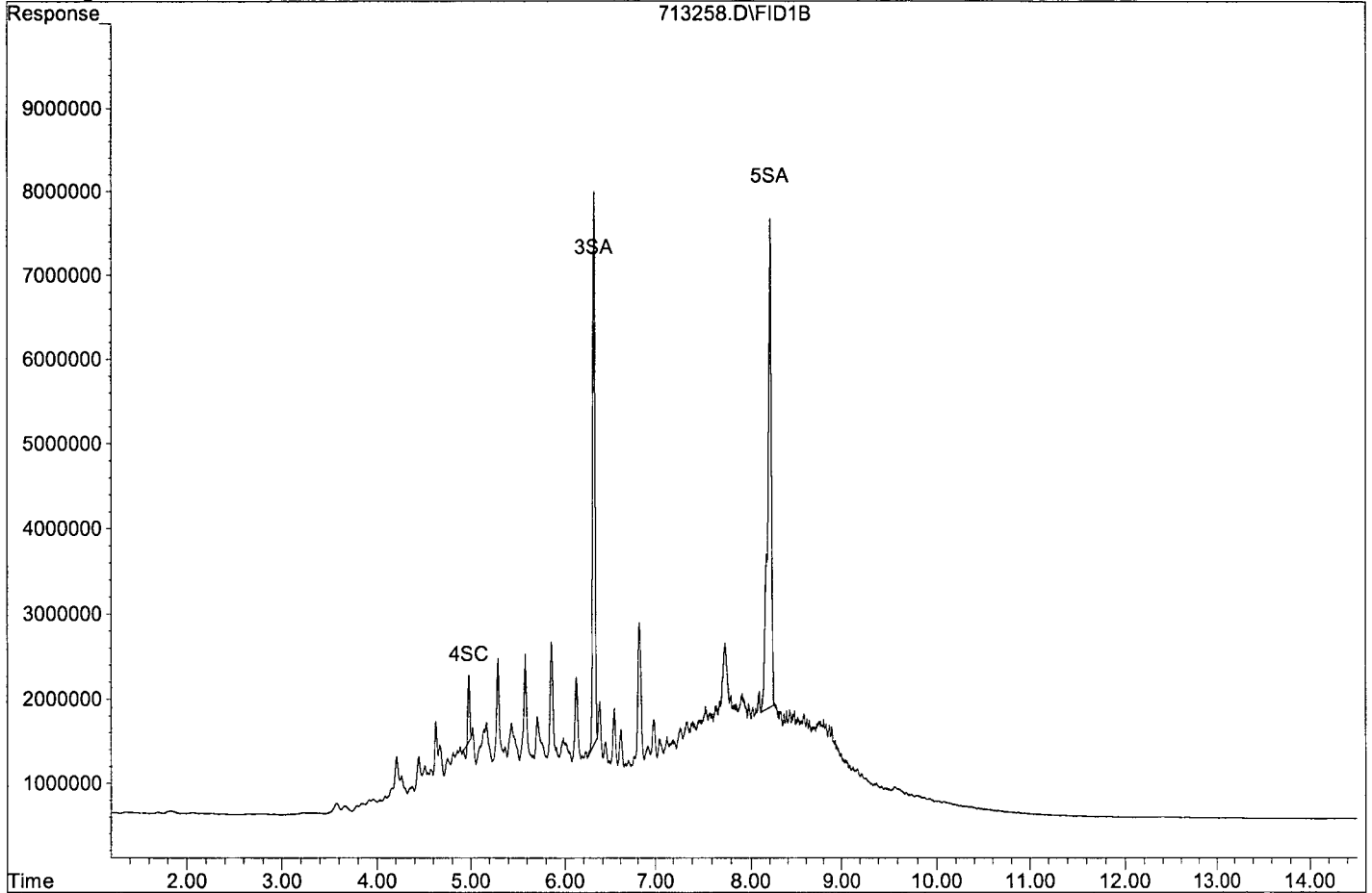
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	111178417	76.465 ppb
Surrogate Spike 75.000		Recovery =	101.95%
4) SC Decanoic Acid(S)	4.98	8697868	25.699 ppb
Surrogate Spike 60.000		Recovery =	42.83%
5) SA Octacosane(S)	8.20	147986007	100.519 ppb
Surrogate Spike 75.000		Recovery =	134.03%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	1006408668	1165.897 ppb
2) HBTM Motor Oil (C24-C40)	9.16	870618109	1187.394 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190713\713258.D
Sample : AZ95189W21 MS-1 2/800



Data File : G:\APOLLO\DATA\190713\713259.D Vial: 59
 Acq On : 7-30-19 20:17:51 Operator: DP
 Sample : AZ95189W32 MSD-1 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 8 10:02 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

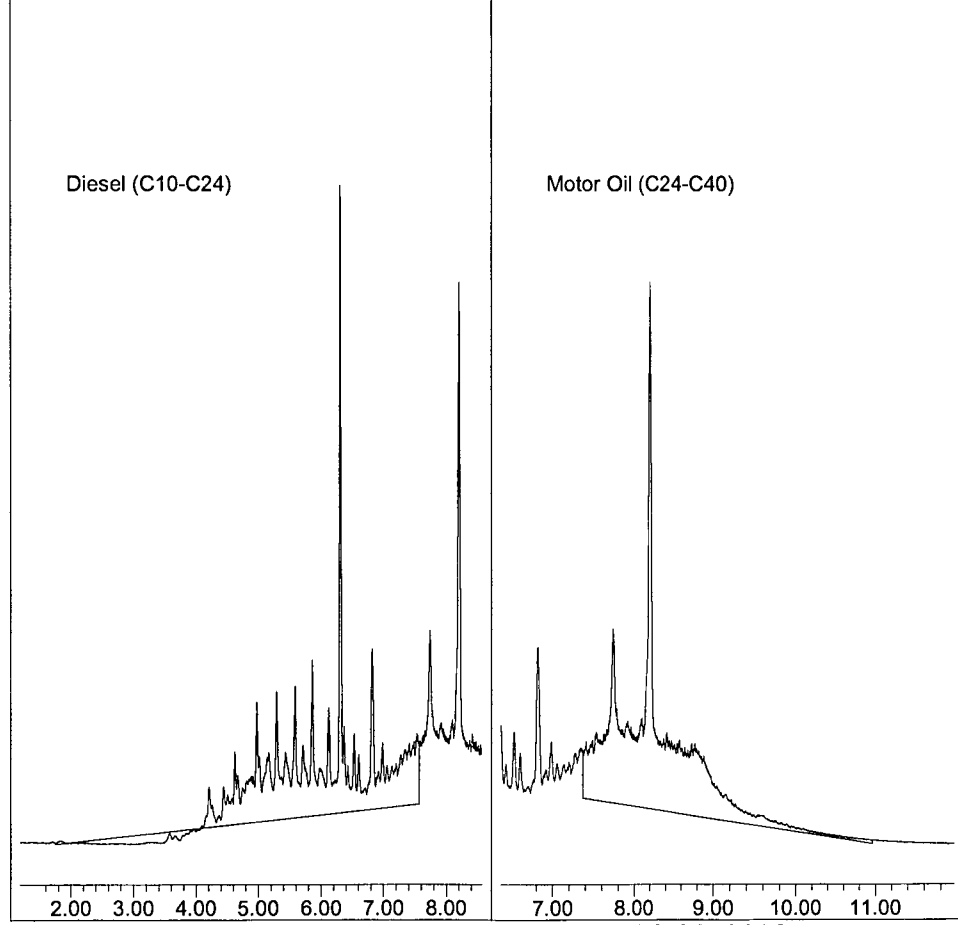
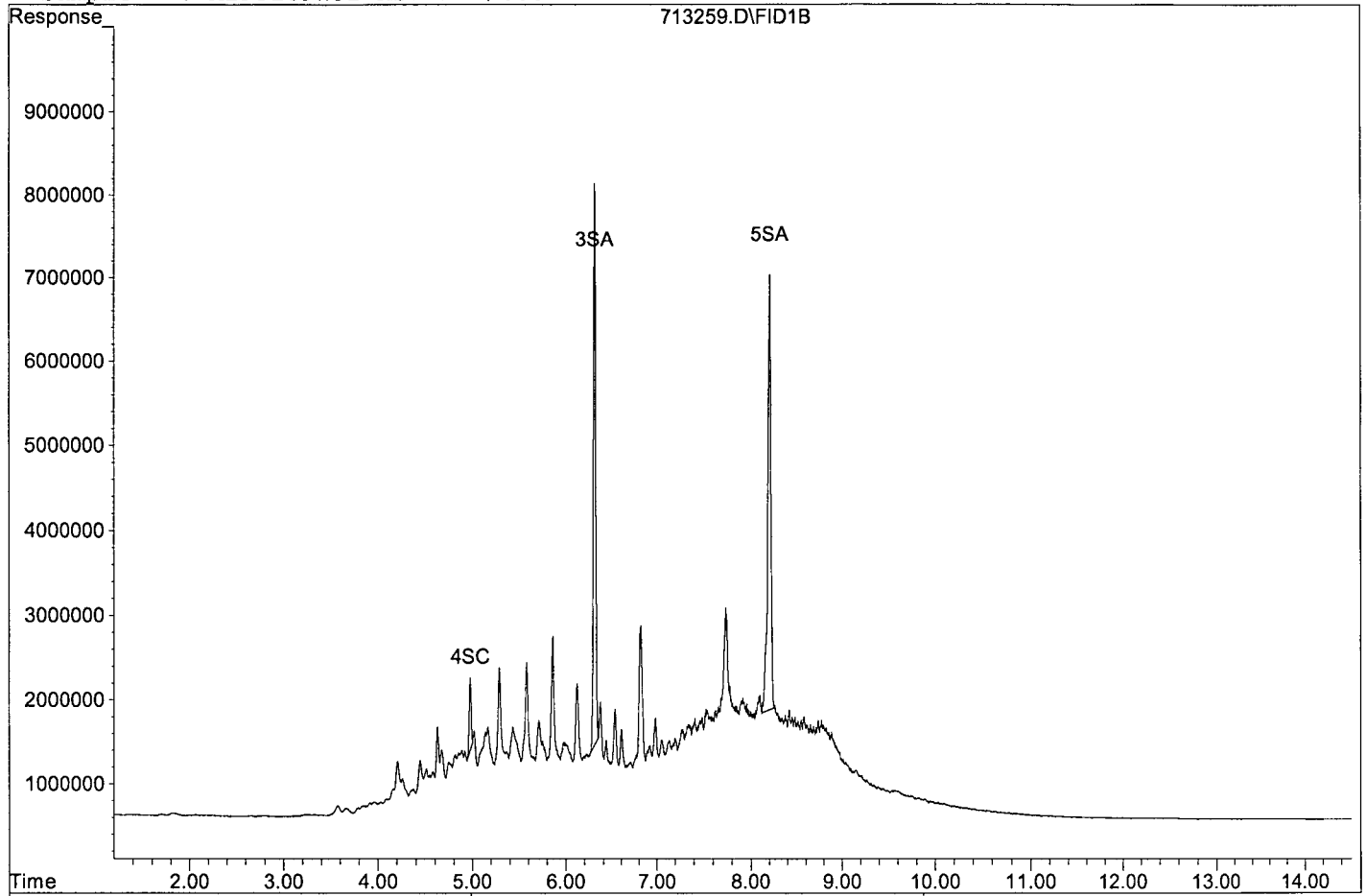
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	106900815	73.523 ppb
Surrogate Spike 75.000		Recovery =	98.03%
4) SC Decanoic Acid(S)	4.98	12254076	33.339 ppb
Surrogate Spike 60.000		Recovery =	55.57%
5) SA Octacosane(S)	8.20	124309195	84.437 ppb
Surrogate Spike 75.000		Recovery =	112.58%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	1011335843	1171.587 ppb
2) HBTM Motor Oil (C24-C40)	9.16	877676252	1197.021 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190713\713259.D

Sample : AZ95189W32 MSD-1 2/800



Data File : G:\APOLLO\DATA\190713\713260.D Vial: 60
 Acq On : 7-30-19 20:37:48 Operator: DP
 Sample : AZ95189W22 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 8 10:56 2019 Quant Results File: DOC0617.RES

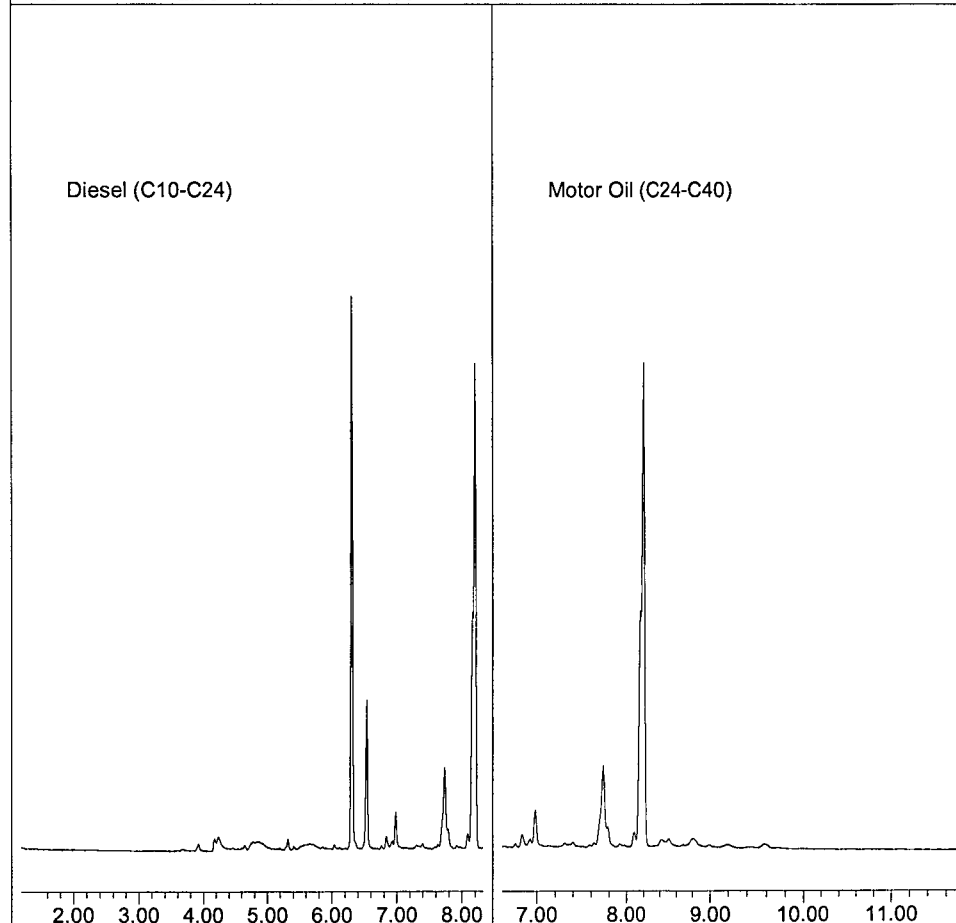
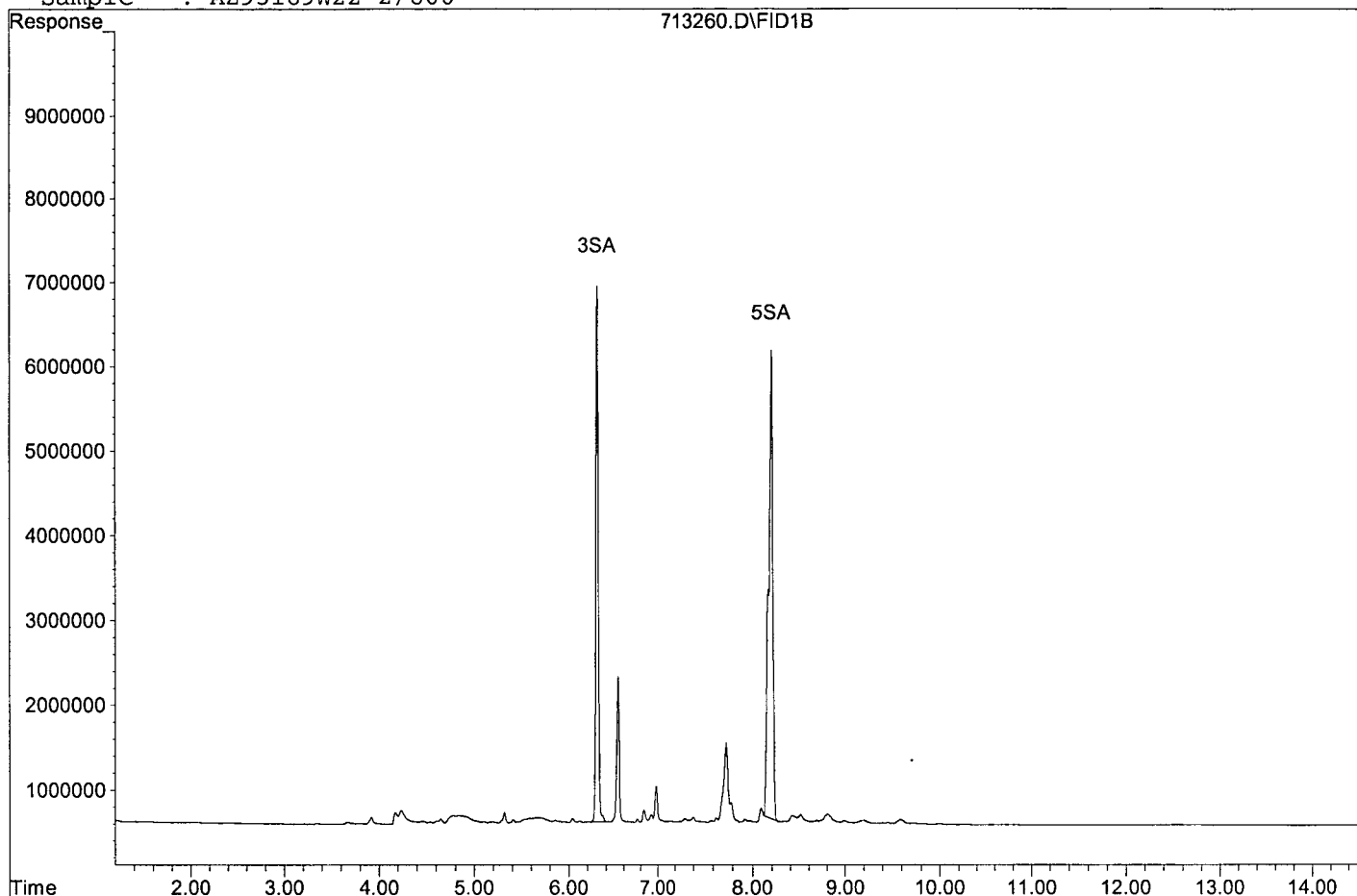
Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	111010723	76.350 ppb
Surrogate Spike 75.000		Recovery =	101.80%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 60.000		Recovery =	0.00%
5) SA Octacosane(S)	8.20	164565517	111.781 ppb
Surrogate Spike 75.000		Recovery =	149.04%
Target Compounds			
Target Compounds			
1) HATM Diesel (C10-C24)	0.00	0	N.D. ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D. ppb

Quantitation Report

Data File: G:\APOLLO\DATA\190713\713260.D
Sample : AZ95189W22 2/800



Data File : G:\APOLLO\DATA\190713\713261.D Vial: 61
 Acq On : 7-30-19 20:57:52 Operator: DP
 Sample : AZ95190W11 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 8 10:57 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

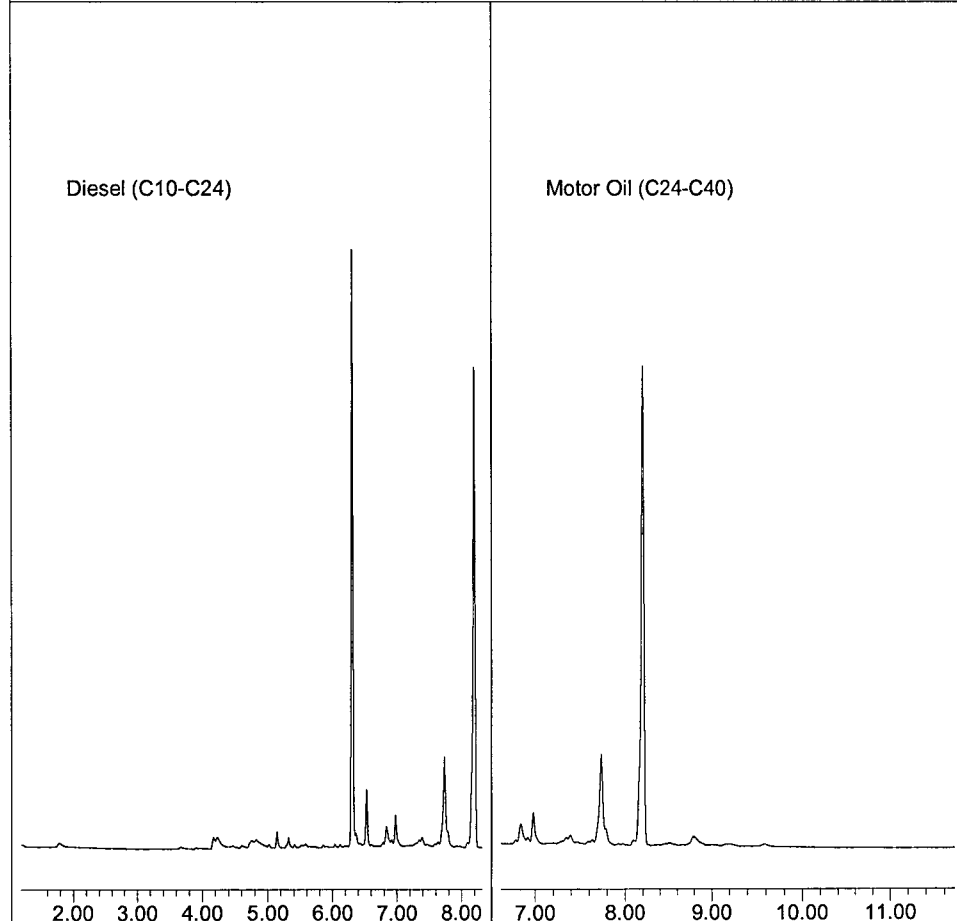
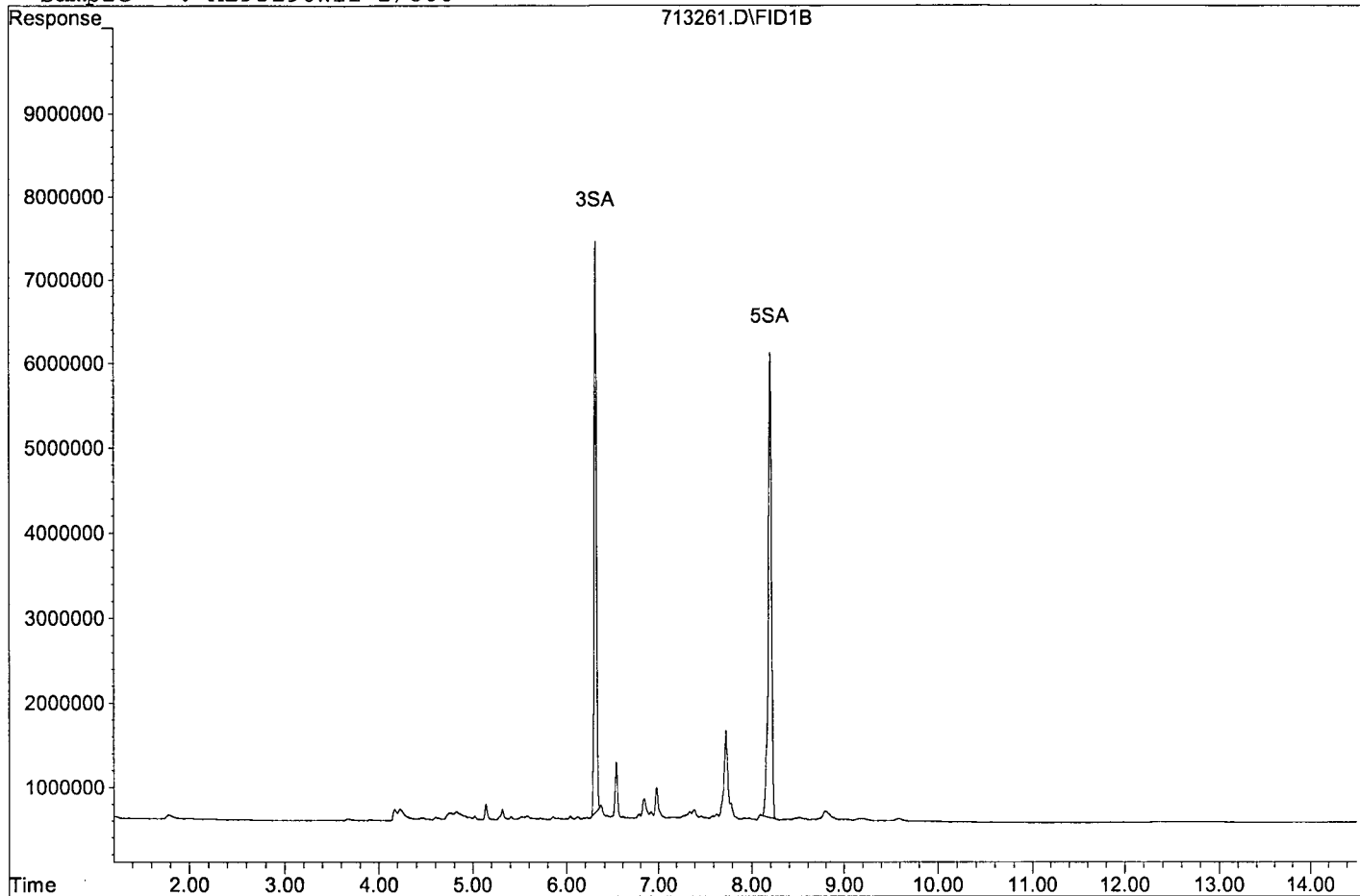
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	110075085	75.706 ppb
Surrogate Spike 75.000		Recovery =	100.94%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 60.000		Recovery =	0.00%
5) SA Octacosane(S)	8.20	128477441	87.268 ppb
Surrogate Spike 75.000		Recovery =	116.36%
Target Compounds			
Target Compounds			
1) HATM Diesel (C10-C24)	0.00	0	N.D. ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D. ppb

Quantitation Report

Data File: G:\APOLLO\DATA\190713\713261.D
Sample : AZ95190W11 2/800



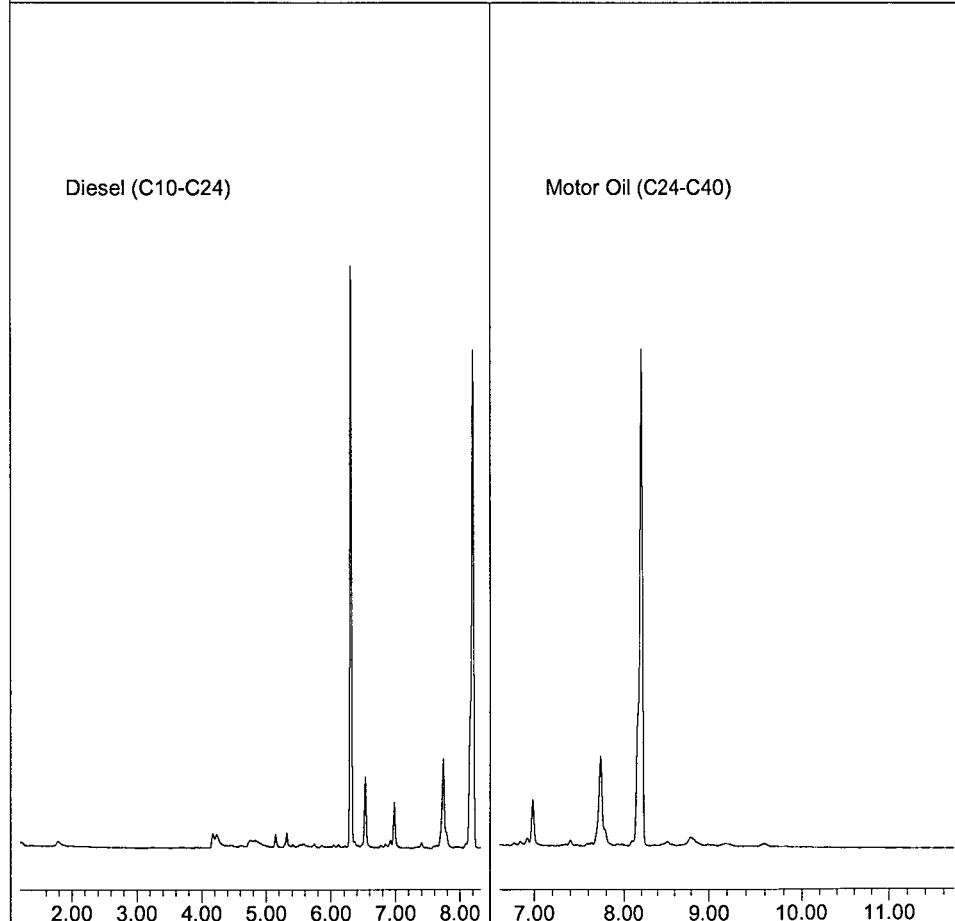
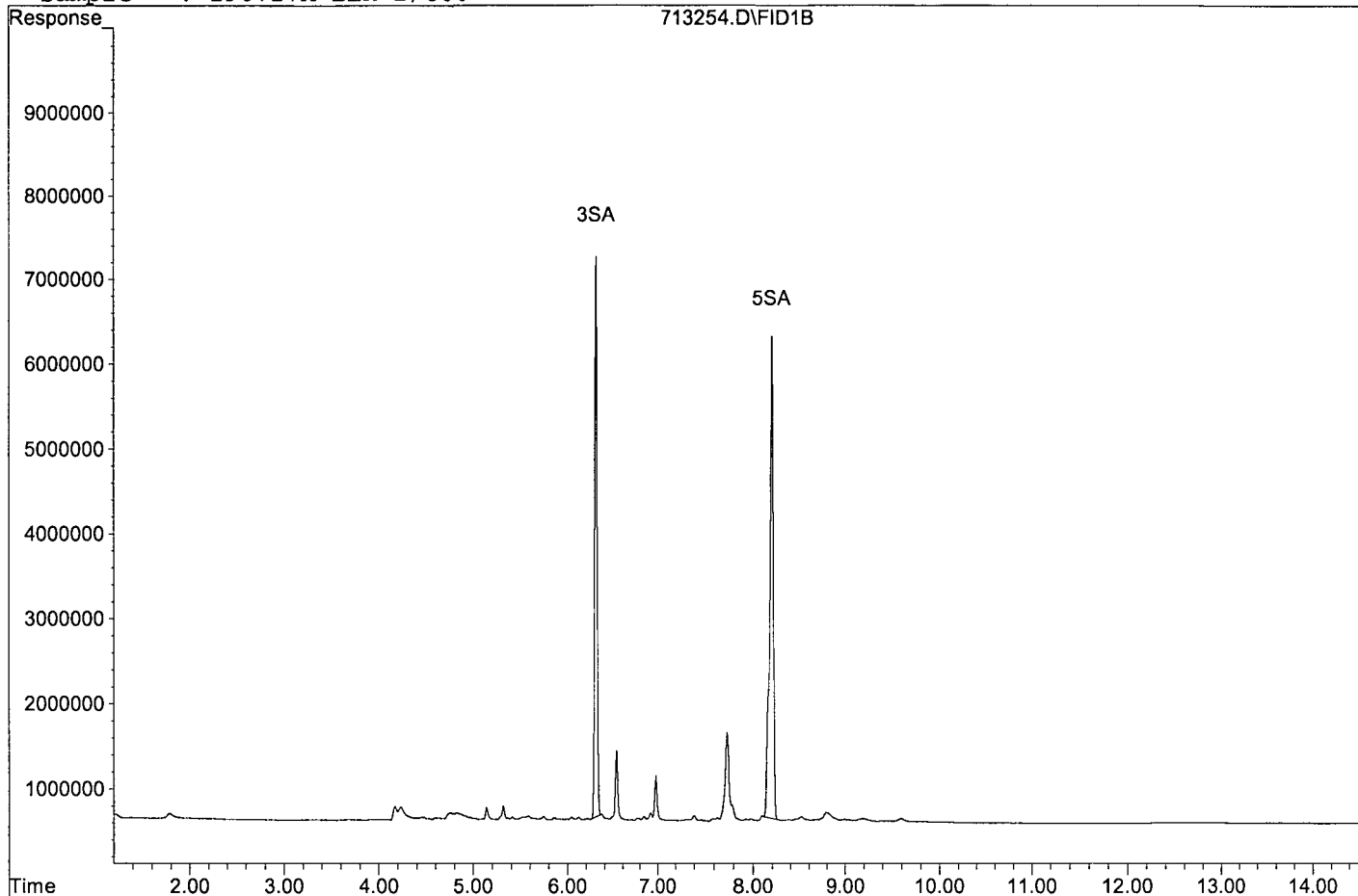
Data File : G:\APOLLO\DATA\190713\713254.D Vial: 54
 Acq On : 7-30-19 18:38:23 Operator: DP
 Sample : 190727A BLK 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 8 10:55 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	6.31	111415354	76.628	ppb
Surrogate Spike 75.000		Recovery =	102.17%	
4) SC Decanoic Acid(S)	0.00	0	N.D.	ppb
Surrogate Spike 60.000		Recovery =	0.00%	
5) SA Octacosane(S)	8.20	145814209	99.044	ppb
Surrogate Spike 75.000		Recovery =	132.06%	
Target Compounds				
Target Compounds				
1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb

Data File: G:\APOLLO\DATA\190713\713254.D
Sample : 190727A BLK 2/800



Data File : G:\APOLLO\DATA\190713\713255.D Vial: 55
 Acq On : 7-30-19 18:58:24 Operator: DP
 Sample : 190727A LCS-1 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 8 10:01 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

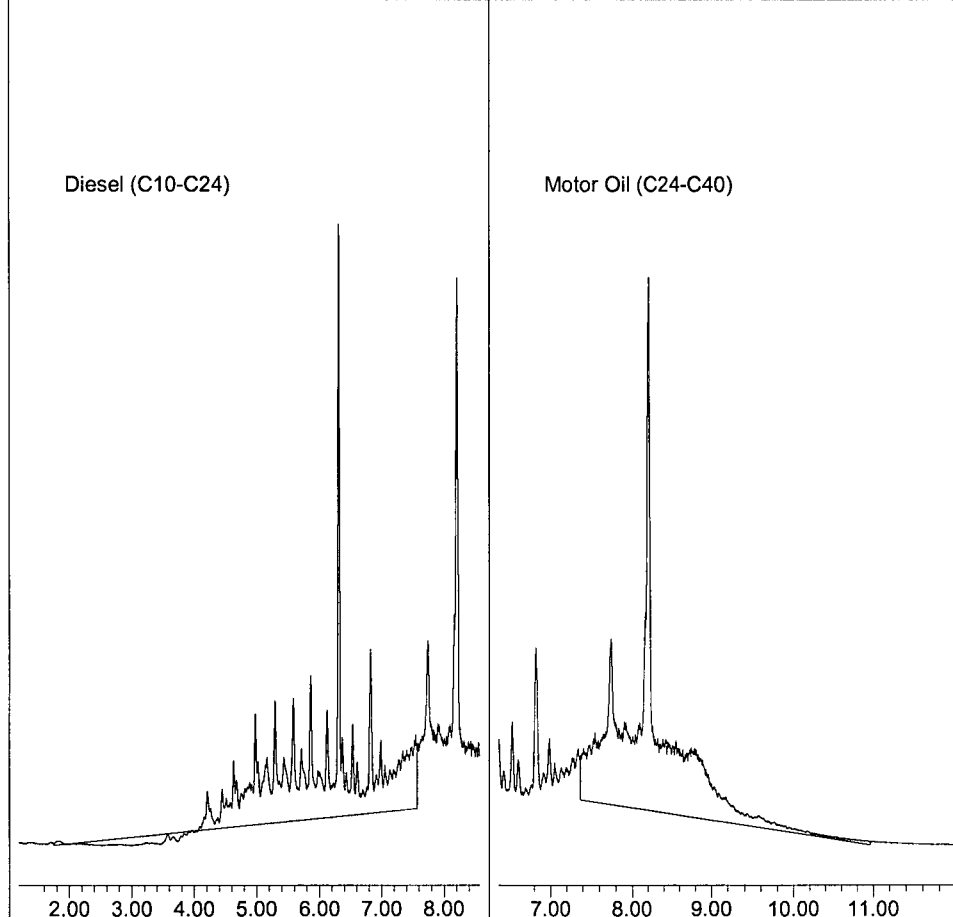
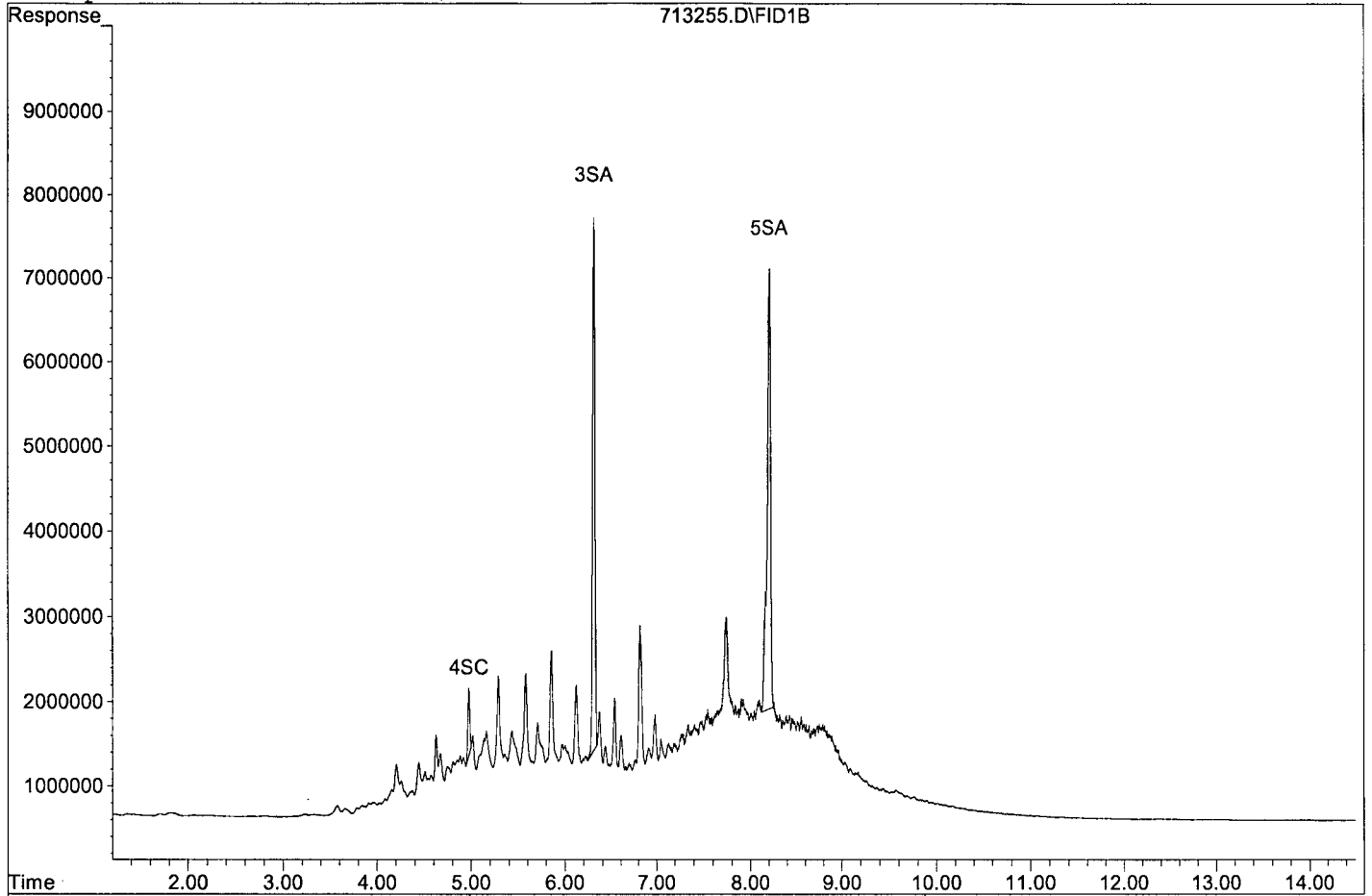
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	107674973	74.056 ppb
Surrogate Spike 75.000		Recovery =	98.74%
4) SC Decanoic Acid(S)	4.98	11444528	31.600 ppb
Surrogate Spike 60.000		Recovery =	52.67%
5) SA Octacosane(S)	8.21	136530713	92.738 ppb
Surrogate Spike 75.000		Recovery =	123.65%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	985847282	1142.149 ppb
2) HBTM Motor Oil (C24-C40)	9.16	869121260	1185.353 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190713\713255.D

Sample : 190727A LCS-1 2/800



Data File : G:\APOLLO\DATA\190713\713256.D Vial: 56
 Acq On : 7-30-19 19:17:46 Operator: DP
 Sample : 190727A LCSD-1 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 8 10:01 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

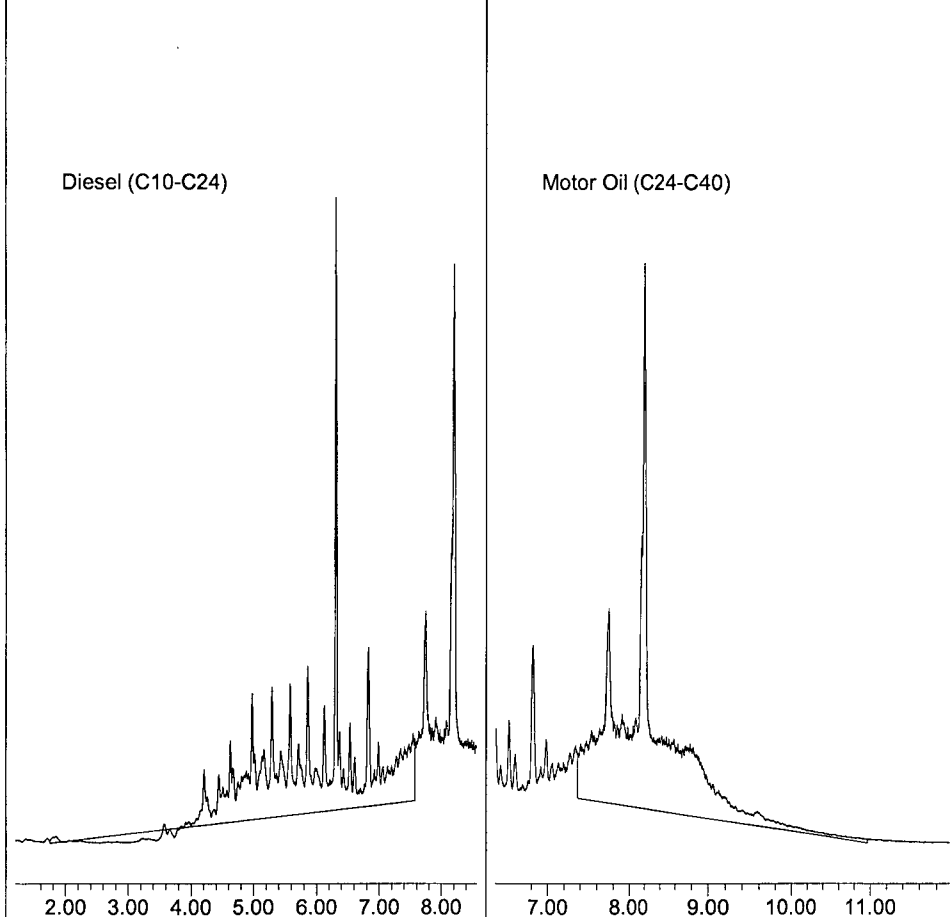
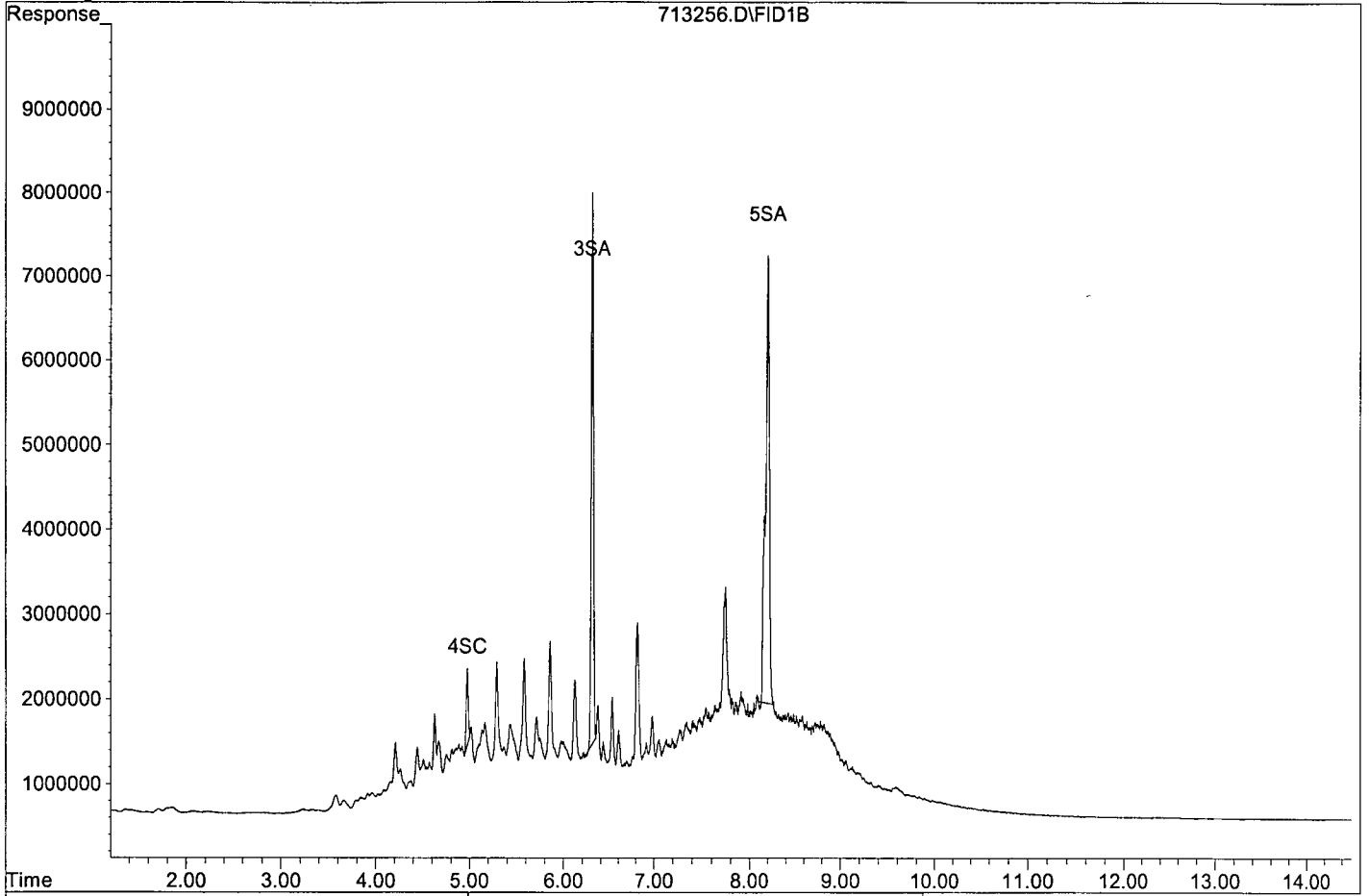
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	107939809	74.238 ppb
Surrogate Spike 75.000		Recovery =	98.98%
4) SC Decanoic Acid(S)	4.98	12811734	34.537 ppb
Surrogate Spike 60.000		Recovery =	57.56%
5) SA Octacosane(S)	8.20	154120564	104.686 ppb
Surrogate Spike 75.000		Recovery =	139.58%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	980899041	1136.434 ppb
2) HBTM Motor Oil (C24-C40)	9.16	920219150	1255.043 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190713\713256.D
Sample : 190727A LCSD-1 2/800



Motor Oil Spike										
Prepared: 07/19/19						Prepared By (Initials): BT				
Expires: 07/19/20										
Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Motor Oil Composite	Restek	31464	50,000	A0147736-41172	07/19/20	05/31/26	N/A	N/A	N/A	50,000

Diesel Spike										
Prepared: 07/17/19						Prepared By (Initials): <u>SS</u>				
Expires: 07/17/19										
Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel Fuel #2	Restek	31258	50,000	A0144154	07/17/20	01/31/26	N/A	N/A	N/A	50,000

THC Surrogate										
Prepared: 07/25/19						Prepared By (Initials): <u>BT</u>				
Expires: 07/25/20										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
O-terphenyl / Octacosane Mix	Phenova	ALO-130161	600	CL13940-41199	07/25/20	07/31/24	N/A	N/A	N/A	600

Diesel / Motor Oil Calibration Curve										
Prepared: 06/17/19										
Expires: 12/17/19										
Methylene Chloride Lot No. 5829										
Prepared By (Initials): BT										
Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference to APPL Prep Date	Exp. Date	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 1	2,000	Prepared 06/17/19	06/17/20	N/A	5uL	1mL	MC	10
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 2	2,000	Prepared 06/17/19	06/17/20	N/A	25uL	1mL	MC	50
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 3	2,000	Prepared 06/17/19	06/17/20	N/A	125uL	1mL	MC	250
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 4	2,000	Prepared 06/17/19	06/17/20	N/A	500uL	1mL	MC	1000
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 5	2,000	Prepared 06/17/19	06/17/20	N/A	750uL	1mL	MC	1500
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 6	2,000	Prepared 06/17/19	06/17/20	N/A	100uL	100uL	N/A	2,000

Diesel / Motor Oil CCV										
Prepared: 07/19/19										
Expires: 01/19/20										
Methylene Chloride Lot No. 5829										
Prepared By (Initials): BT										
Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference to APPL Prep Date	Exp. Date	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel / Motor Oil STD	APPL	Diesel / Motor Oil CCV	2,000	Prepared 06/17/19	06/17/20	N/A	1250uL	10mL	MC	250

Organic Extraction Worksheet

Method	Continuous Liq/Liq TPH-Diesel/MO 3520C	Extraction Set	190727A	Extraction Method	LIQ005	Units	mL
Spiked ID 1	Diesel Spike 7/17/19-7/17/20	Surrogate ID 1	THC Surrogate 7/25/19-7/25/20				
Spiked ID 2	Motor Oil Spike 7/19/19-7/20/20	Surrogate ID 2					
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:		yes			
Spiked ID 7		Ext. Start Time:		07/27/19 11:10			
Spiked ID 8		Ext. End Time:		07/30/19 14:35			
		GC Requires Extract By:		07/30/19 0:00			
		pH1		Water Bath Temp 1 °C	35/34.5 EWB1 °		
		pH2		Water Bath Temp 2 °C	35/38.8 EWB2		
		pH3		Water Bath Temp 3 °C	35/34.4 EWB3 °		

Spiked By: DL

Date 07/27/19

Witnessed By: SS

Date 07/27/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	190727A Bk			0.100	1	800	2	2	07/27/19 11:10	
						equip		E-HP47 E-WB1		
2	190727A LCS-1	0.020	1,2	0.100	1	800	2	2	07/27/19 11:10	
						equip		E-HP48 E-WB2		
3	190727A LCSD-1	0.020	1,2	0.100	1	800	2	2	07/27/19 11:10	
						equip		E-HP49 E-WB3		
4	AZ95187 AZ95187W13			0.100	1	800	2	2	07/27/19 11:10	89570
						equip		E-HP50 E-WB1		
5	AZ95189 MS-1 AZ95189W21	0.020	1,2	0.100	1	800	2	2	07/27/19 11:10	
						equip		E-HP42 E-WB3		
6	AZ95189 MSD-1 AZ95189W32	0.020	1,2	0.100	1	800	2	2	07/27/19 11:10	
						equip		E-HP41 E-WB1		
7	AZ95189 AZ95189W22			0.100	1	800	2	2	07/27/19 11:10	89570
						equip		E-HP51 E-WB2		
8	AZ95190 AZ95190W11			0.100	1	800	2	2	07/27/19 11:10	89570
						equip		E-HP39 E-WB2		
9	AZ95329 AZ95329W12			0.100	1	800	2	2	07/27/19 11:10	89593
						equip		E-HP37 E-WB3		
10	AZ95330 AZ95330W12			0.100	1	800	2	2	07/27/19 11:10	89593
						equip		E-HP25 E-WB1		
11	AZ95332 AZ95332W13			0.100	1	800	2	2	07/27/19 11:10	89593
						equip		E-HP26 E-WB2		
12	AZ95334 AZ95334W14			0.100	1	800	2	2	07/27/19 11:10	89593
						equip		E-HP27 E-WB3		
13	AZ95336 AZ95336W14			0.100	1	800	2	2	07/27/19 11:10	89593
						equip		E-HP28 E-WB1		
14	AZ95338 AZ95338W12			0.100	1	800	2	2	07/27/19 11:10	89593
						equip		E-HP29 E-WB2		
15	AZ95419 AZ95419W10			0.100	1	800	2	2	07/27/19 11:10	89607
						equip		E-HP30 E-WB3		
16	AZ95421 AZ95421W07			0.100	1	800	2	2	07/27/19 11:10	89607
						equip		E-HP6 E-WB1		

Solvent and Lot#	
I+1 HCL	6/15/19
PH Strips	HC863463
Dicholormethane (DCM)	58240
Filter Paper	400163
B. Sodium Sulfate	2019010772

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	<i>AS</i>
Date	7/30/19
Time	4:58 pm
Refrigerator	Hobart 9

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	08/04/19 9:42:25 AM

Reviewed By: SS

Date 8/3/19

Organic Extraction Worksheet

Method	Continuous Liq/Liq TPH-Diesel/MO 3520C	Extraction Set	190727A	Extraction Method	LIQ005	Units	mL	
Spiked ID 1	Diesel Spike 7/17/19-7/17/20	Surrogate ID 1	THC Surrogate 7/25/19-7/25/20					
Spiked ID 2	Motor Oil Spike 7/19/19-7/20/20	Surrogate ID 2						
Spiked ID 3		Surrogate ID 3						
Spiked ID 4		Surrogate ID 4						
Spiked ID 5		Surrogate ID 5						
Spiked ID 6		Sufficient Vol for Matrix QC:		yes				
Spiked ID 7		Ext. Start Time:		07/27/19 11:10				
Spiked ID 8		Ext. End Time:		07/30/19 14:35				
		GC Requires Extract By:		07/30/19 0:00				
		pH1			Water Bath Temp 1 °C			35/34.5 EWB1 °
		pH2			Water Bath Temp 2 °C			35/38.8 EWB2
		pH3			Water Bath Temp 3 °C			35/34.4 EWB3 °

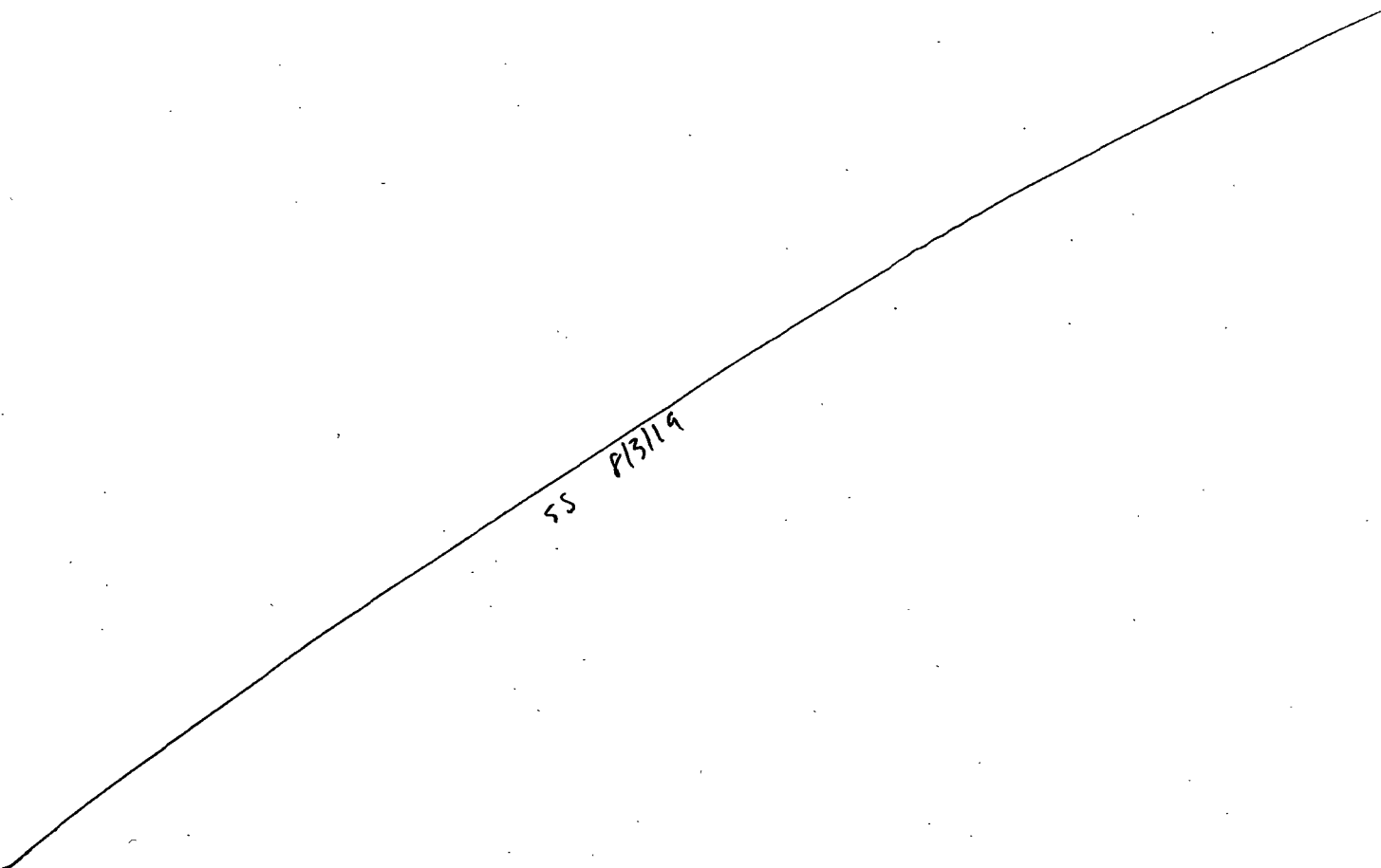
Spiked By: DL

Date 07/27/19

Witnessed By: SS

Date 07/27/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
17	AZ95423	AZ95423W08		0.100	1	800	2	2	07/27/19 11:10	89607
						equip	E-HP7 E-WB2			



Solvent and Lot#	
1+1 HCL	6/15/19
PH Strips	HC863463
Dicholormethane (DCM)	58240
Filter Paper	400163
B. Sodium Sulfate	2019010772

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	
Date	
Time	
Refrigerator	

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL

Modified 08/04/19 9:42:25 AM

Reviewed By:

Date

Injection Log

Directory: G:\APOLLO\DATA\190617\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	3	617003.D	1	Diesel/Motor Oil - 1 6/17/19	water	6-17-19 16:40:59
2	4	617004.D	1	Diesel/Motor Oil - 2 6/17/19	water	6-17-19 17:00:17
3	5	617005.D	1	Diesel/Motor Oil - 3 6/17/19	water	6-17-19 17:20:24
4	6	617006.D	1	Diesel/Motor Oil - 4 6/17/19	water	6-17-19 17:40:33
5	7	617007.D	1	Diesel/Motor Oil - 5 6/17/19	water	6-17-19 18:00:01
6	8	617008.D	1	Diesel/Motor Oil - 6 6/17/19	water	6-17-19 18:20:06
7	9	617009.D	1	Diesel/Motor Oil Second Source 1/15/19	water	6-17-19 18:39:28
8	53	713253.D	1	Diesel/Motor Oil CCV 7/19/19	water	7-30-19 18:18:15
9	54	713254.D	2.5	190727A BLK 2/800	water	7-30-19 18:38:23
10	55	713255.D	2.5	190727A LCS-1 2/800	water	7-30-19 18:58:24
11	56	713256.D	2.5	190727A LCSD-1 2/800	water	7-30-19 19:17:46
12	57	713257.D	2.5	AZ95187W13 2/800	water	7-30-19 19:37:47
13	58	713258.D	2.5	AZ95189W21 MS-1 2/800	water	7-30-19 19:57:52
14	59	713259.D	2.5	AZ95189W32 MSD-1 2/800	water	7-30-19 20:17:51
15	60	713260.D	2.5	AZ95189W22 2/800	water	7-30-19 20:37:48
16	61	713261.D	2.5	AZ95190W11 2/800	water	7-30-19 20:57:52
17	67	713267.D	1	Diesel/Motor Oil CCV 7/19/19	water	7-30-19 22:57:31

**ORGANICS
Calibration Data**

PAH by GCMS SIM
EPA 8270 SIM

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/17/19
Instrument: Yoda

Initials: MA

0717Y003.D 0717Y004.D 0717Y005.D 0717Y006.D 0717Y007.D 0717Y008.D 0717Y009.D 0717Y010.D

	Compound	0.1	0.2	0.5	1	5	10	50	100			Avg	%RSD	Type	r ²	Q	MRF
1	I Naphthalene-D8(IS)																
2	SL Surrogate Recovery (NBZ)			0.1517	0.2458	0.2053	0.2373	0.3108	0.3194			0.25	26	SL	0.999		
3	TM Naphthalene	1.553	1.439	1.409	1.423	1.251	1.286	0.9952				1.3	14	TM			0.700
4	S 2-Methylnaphthalene-D10 (2M)	1.355	1.223	1.169	1.151	0.9967	1.042	1.155	1.130			1.2	9.5	S			
5	TM 2-Methylnaphthalene	0.8712	0.8109	0.8424	0.8624	0.8306	0.8597	0.6871	0.6384			0.80	11	TM			0.400
6	TM 1-Methylnaphthalene	1.117	1.084	1.017	0.9774	0.8494	0.8545					0.98	11	TM			
7	I Acenaphthene-D10(IS)																
8	S Surrogate Recovery (FBP)		1.482	1.479	1.494	1.344	1.375	1.473	1.456			1.4	4.1	S			
9	TM Acenaphthylene	5.064	4.292	4.377	4.564	4.729	4.842	3.887	3.665			4.4	11	TM			0.900
10	*TM Acenaphthene	2.037	1.809	1.779	1.739	1.603	1.610	1.297				1.7	13	*TM			0.900
11	TM Fluorene	2.171	1.944	1.947	1.998	1.890	1.953	1.546	1.418			1.9	13	TM			0.900
12	I Phenanthrene-D10(IS)																
13	TM Phenanthrene	1.732	1.558	1.551	1.588	1.428	1.448	1.101				1.5	13	TM			0.700
14	TM Anthracene	1.379	1.217	1.228	1.323	1.331	1.414	1.132	1.006			1.3	11	TM			0.700
15	S Fluoranthene-D10 (FRT)	1.337	1.034	1.012	1.059	1.002	1.195	1.189	1.147			1.1	10	S			
16	*TM Fluoranthene	2.252	1.815	1.838	1.928	1.834	1.888	1.442				1.9	13	*TM			0.600
17	I Chrysene-D12(IS)																
18	TM Pyrene	2.231	1.845	1.552	1.766	1.706	1.763	1.364				1.7	15	TM			0.600
19	S Surrogate Recovery (TPH)		1.143	0.8928	0.9491	0.8358	0.9421	0.9482	0.9507			0.95	9.9	S			
20	TM Benz (a) anthracene	1.938	1.457	1.253	1.391	1.456	1.572					1.5	15	TM			0.800
21	TM Chrysene	2.072	1.813	1.455	1.661	1.540	1.550					1.7	14	TM			0.700
22	TM Indeno (1,2,3-cd) pyrene	2.177	1.873	1.538	1.748	1.709	1.814	1.462	1.468			1.7	14	TM			0.500
23	I Perylene-D12(IS)																
24	TML Benzo (b) fluoranthene	1.811	1.253	1.193	1.501	1.601	1.697					1.5	16	TML	0.999		0.700
25	TM Benzo (k) fluoranthene	1.854	1.898	1.501	1.686	1.621	1.735	1.393	1.304			1.6	13	TM			0.700
26	*TM Benzo (a) pyrene	1.838	1.447	1.257	1.434	1.489	1.613	1.309	1.230			1.5	14	*TM			0.700
27	TM Dibenz (a,h) anthracene	1.818	1.560	1.309	1.510	1.531	1.638	1.344	1.298			1.5	12	TM			0.400
28	TM Benzo (g,h,i) perylene	1.326	1.502	1.244	1.455	1.476	1.576	1.269	1.216			1.4	9.8	TM			0.500
29																	
30																	
31																	
32																	
33																	
34																	
35																	

Data File : M:\YODA\DATA\Y190717P\0717Y003.D
 Acq On : 17 Jul 19 9:51
 Sample : 0.1 SIM 07/10/19
 Misc :

Vial: 3
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 17 13:01 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 13:01:02 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.72	136	111514	2.50000	ppb	0.01
7) Acenaphthene-D10 (IS)	6.85	164	57226	2.50000	ppb	0.01
12) Phenanthrene-D10 (IS)	8.61	188	112163	2.50000	ppb	0.01
17) Chrysene-D12 (IS)	11.97	240	115994	2.50000	ppb	0.02
23) Perylene-D12 (IS)	14.49	264	117205	2.50000	ppb	0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.79	82	219	0.64641	ppb	-0.01
Spiked Amount	5.000		Recovery	=	12.920%	
4) 2-Methylnaphthalene-D10 (2)	5.61	152	3022	0.05877	ppb	0.05
Spiked Amount	5.000		Recovery	=	1.180%	
8) Surrogate Recovery (FBP)	6.07	172	2034	0.05983	ppb	0.03
Spiked Amount	5.000		Recovery	=	1.200%	
15) Fluoranthene-D10 (FRT)	10.02	212	3000	0.05958	ppb	0.02
Spiked Amount	5.000		Recovery	=	1.200%	
19) Surrogate Recovery (TPH)	10.47	244	4308	0.09756	ppb	0.01
Spiked Amount	5.000		Recovery	=	1.960%	
Target Compounds						
3) Naphthalene	4.75	128	6929	0.11621	ppb	98
5) 2-Methylnaphthalene	5.64	142	3886	0.10885	ppb	98
6) 1-Methylnaphthalene	5.75	142	4983	0.11361	ppb	96
9) Acenaphthylene	6.71	152	11592	0.11436	ppb	99
10) Acenaphthene	6.89	154	4662	0.12004	ppb	96
11) Fluorene	7.52	166	4970	0.11682	ppb	97
13) Phenanthrene	8.65	178	7771	0.11618	ppb	98
14) Anthracene	8.72	178	6186	0.10969	ppb	97
16) Fluoranthene	10.05	202	10104	0.12115	ppb	97
18) Pyrene	10.31	202	10352	0.12773	ppb	95
20) Benz (a) anthracene	11.94	228	8993	0.12825	ppb	99
21) Chrysene	12.02	228	9612	0.12285	ppb	97
22) Indeno (1,2,3-cd) pyrene	16.38	276	10102	0.12631	ppb	# 96
24) Benzo (b) fluoranthene	13.94	252	8488	0.20690	ppb	94
25) Benzo (k) fluoranthene	13.99	252	8692	0.11328	ppb	# 92
26) Benzo (a) pyrene	14.45	252	8616	0.12605	ppb	100
27) Dibenz (a,h) anthracene	16.33	278	8524	0.12113	ppb	97
28) Benzo (g,h,i) perylene	16.89	276	6216	0.09266	ppb	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

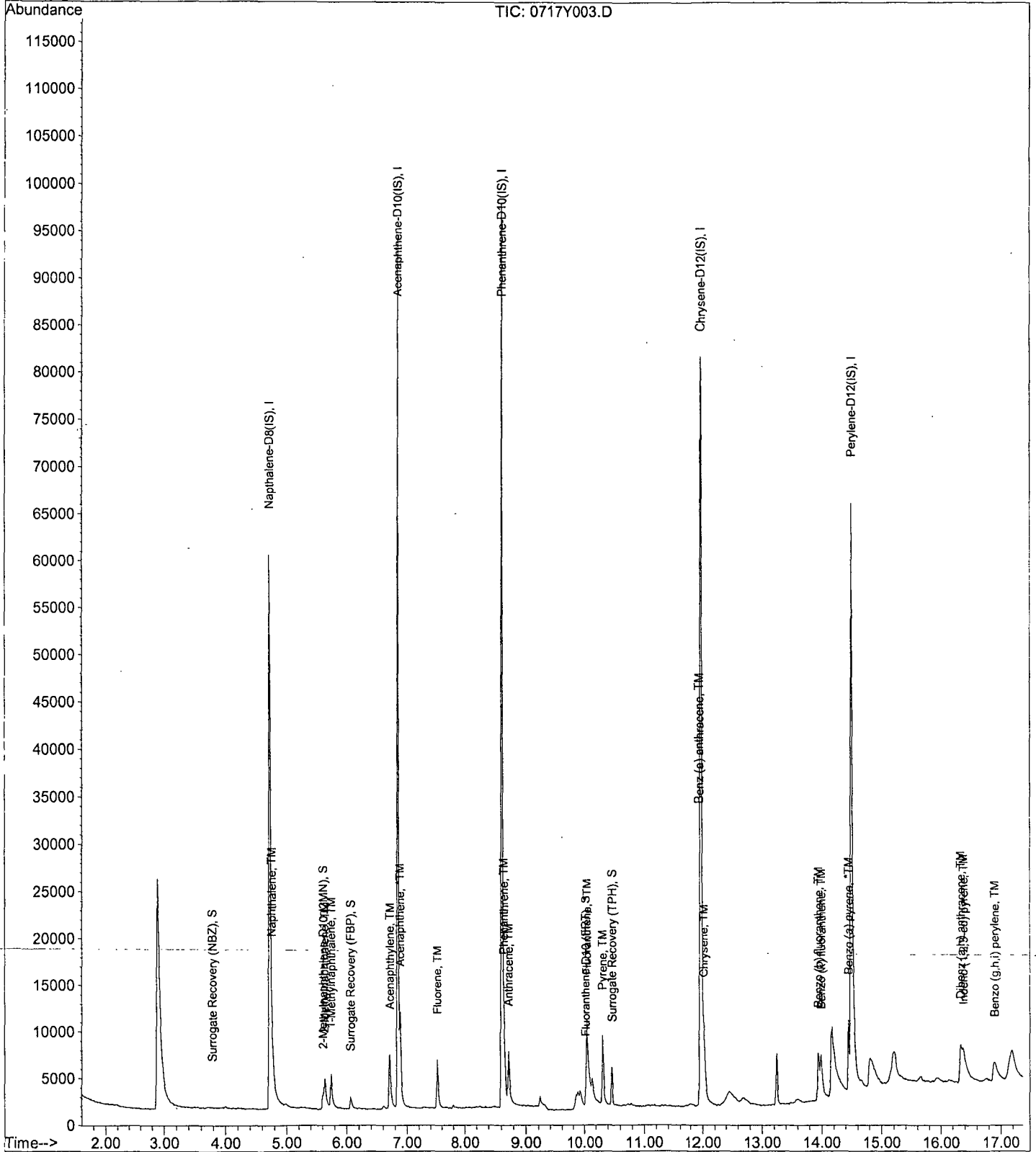
Data File : M:\YODA\DATA\Y190717P\0717Y003.D
Acq On : 17 Jul 19 9:51
Sample : 0.1 SIM 07/10/19
Misc :

Vial: 3
Operator: MA, SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 17 13:01 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Jul 17 13:35:41 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y004.D Vial: 4
 Acq On : 17 Jul 19 10:14 Operator: MA, SS
 Sample : 0.2 SIM 07/10/19 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Jul 17 12:36 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 12:32:05 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.72	136	104713	2.50000	ppb	0.02
7) Acenaphthene-D10 (IS)	6.84	164	54673	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	8.60	188	102660	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.96	240	103577	2.50000	ppb	0.01
23) Perylene-D12 (IS)	14.48	264	104410	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.85	82	481	0.04989	ppb	0.05
Spiked Amount	5.000		Recovery	=	1.000%	
4) 2-Methylnaphthalene-D10 (2)	5.60	152	5121	0.10576	ppb	0.04
Spiked Amount	5.000		Recovery	=	2.120%	
8) Surrogate Recovery (FBP)	6.07	172	3238	0.09941	ppb	0.03
Spiked Amount	5.000		Recovery	=	1.980%	
15) Fluoranthene-D10 (FRT)	10.01	212	4244	0.09238	ppb	0.01
Spiked Amount	5.000		Recovery	=	1.840%	
19) Surrogate Recovery (TPH)	10.46	244	4736	0.12009	ppb	0.00
Spiked Amount	5.000		Recovery	=	2.400%	
Target Compounds						
3) Naphthalene	4.75	128	12056	0.21534	ppb	99
5) 2-Methylnaphthalene	5.63	142	6793	0.19695	ppb	99
6) 1-Methylnaphthalene	5.74	142	9082	0.23052	ppb	96
9) Acenaphthylene	6.70	152	18753	0.18900	ppb	99
10) Acenaphthene	6.89	154	7905	0.21305	ppb	97
11) Fluorene	7.51	166	8496	0.20217	ppb	99
13) Phenanthrene	8.64	178	12506	0.20429	ppb	99
14) Anthracene	8.71	178	9876	0.18603	ppb	99
16) Fluoranthene	10.04	202	14846	0.19448	ppb	98
18) Pyrene	10.30	202	15206	0.21012	ppb	97
20) Benz (a) anthracene	11.95	228	12075	0.19734	ppb	97
21) Chrysene	12.01	228	14844	0.22083	ppb	98
22) Indeno (1,2,3-cd) pyrene	16.34	276	15408	0.21127	ppb	# 100
24) Benzo (b) fluoranthene	13.92	252	10464	0.16889	ppb	94
25) Benzo (k) fluoranthene	13.97	252	15432	0.21941	ppb	# 94
26) Benzo (a) pyrene	14.44	252	11773	0.18911	ppb	98
27) Dibenz (a,h) anthracene	16.30	278	13027	0.20387	ppb	99
28) Benzo (g,h,i) perylene	16.84	276	10603	0.17371	ppb	95

Quantitation Report

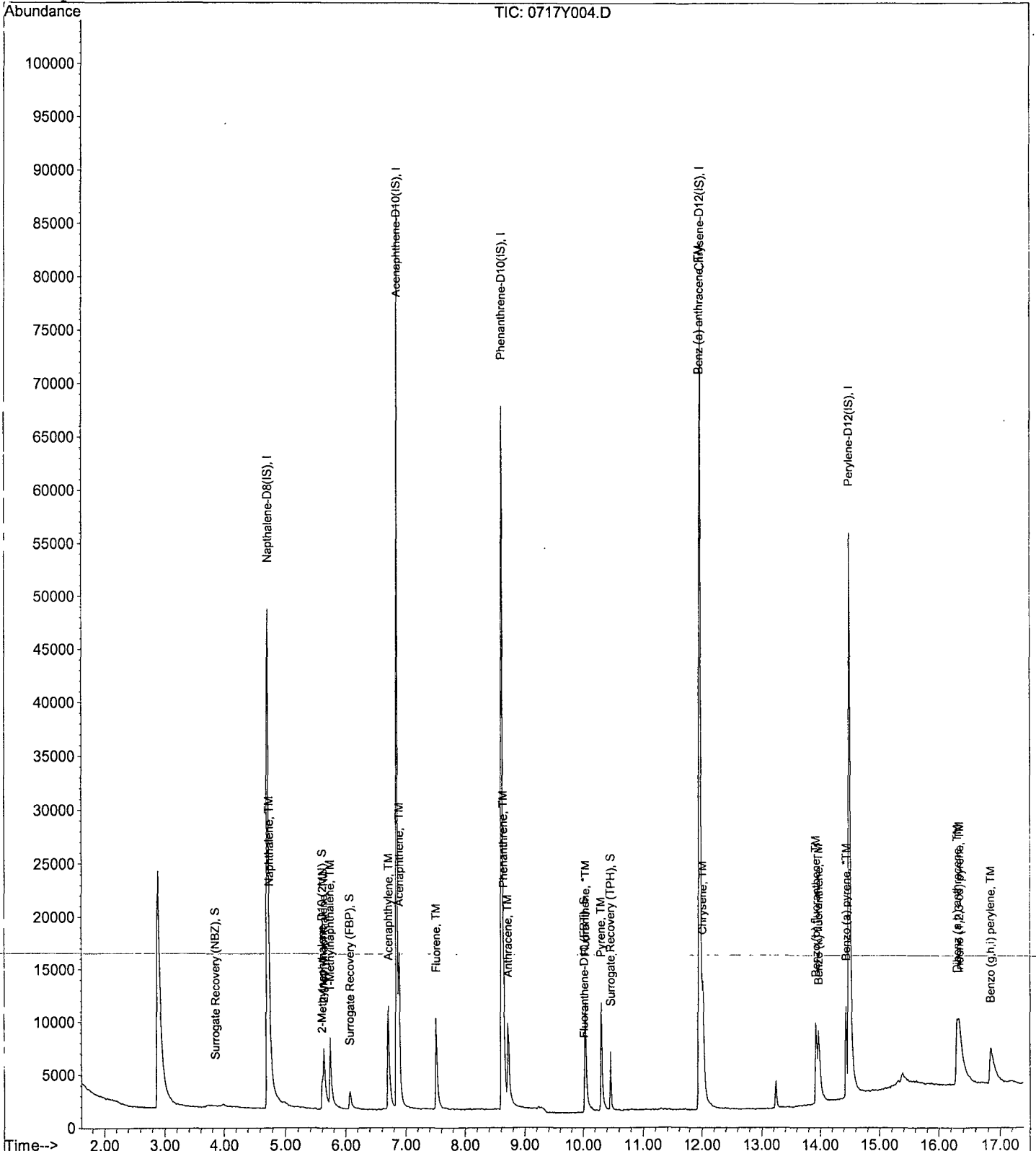
Data File : M:\YODA\DATA\Y190717P\0717Y004.D
 Acq On : 17 Jul 19 10:14
 Sample : 0.2 SIM 07/10/19
 Misc :

Vial: 4
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 17 12:36 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 13:35:41 2019
 Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y005.D
 Acq On : 17 Jul 19 10:38
 Sample : 0.5 SIM 07/10/19
 Misc :

Vial: 5
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 17 10:43 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 10:43:28 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.71	136	106830	2.50000	ppb	-0.01
7) Acenaphthene-D10 (IS)	6.84	164	54954	2.50000	ppb	-0.01
12) Phenanthrene-D10 (IS)	8.60	188	104266	2.50000	ppb	-0.01
17) Chrysene-D12 (IS)	11.95	240	124552	2.50000	ppb	-0.02
23) Perylene-D12 (IS)	14.48	264	125343	2.50000	ppb	0.01

System Monitoring Compounds

2) Surrogate Recovery (NBZ)	3.93	82	1621	0.13079	ppb	0.00
Spiked Amount	5.000		Recovery	=	2.620%	
4) 2-Methylnaphthalene-D10 (2)	5.59	152	12493	0.23244	ppb	-0.01
Spiked Amount	5.000		Recovery	=	4.640%	
8) Surrogate Recovery (FBP)	6.06	172	8128	0.17844	ppb	-0.01
Spiked Amount	5.000		Recovery	=	3.560%	
15) Fluoranthene-D10 (FRT)	10.01	212	10551	0.14218	ppb	0.00
Spiked Amount	5.000		Recovery	=	2.840%	
19) Surrogate Recovery (TPH)	10.46	244	11120	0.24058	ppb	0.00
Spiked Amount	5.000		Recovery	=	4.820%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.75	128	30095	0.58499	ppb	100
5) 2-Methylnaphthalene	5.61	142	17998	0.58022	ppb	97
6) 1-Methylnaphthalene	5.73	142	21738	0.63274	ppb	98
9) Acenaphthylene	6.69	152	48108	0.49102	ppb	99
10) Acenaphthene	6.89	154	19552	0.56031	ppb	90
11) Fluorene	7.51	166	21400	0.53166	ppb	95
13) Phenanthrene	8.64	178	32333	0.51671	ppb	98
14) Anthracene	8.71	178	25606	0.51896	ppb	98
16) Fluoranthene	10.04	202	38336	0.44177	ppb	97
18) Pyrene	10.31	202	38667	0.56813	ppb	96
20) Benz (a) anthracene	11.94	228	31214	0.55616	ppb	99
21) Chrysene	12.01	228	36246	0.52010	ppb	99
22) Indeno (1,2,3-cd) pyrene	16.29	276	38324	0.53772	ppb #	83
24) Benzo (b) fluoranthene	13.91	252	29900	0.43563	ppb	99
25) Benzo (k) fluoranthene	13.96	252	37626	0.49232	ppb	98
26) Benzo (a) pyrene	14.43	252	31503	0.51638	ppb	97
27) Dibenz (a,h) anthracene	16.27	278	32815	0.46608	ppb	95
28) Benzo (g,h,i) perylene	16.79	276	31190	0.45491	ppb #	92

Quantitation Report

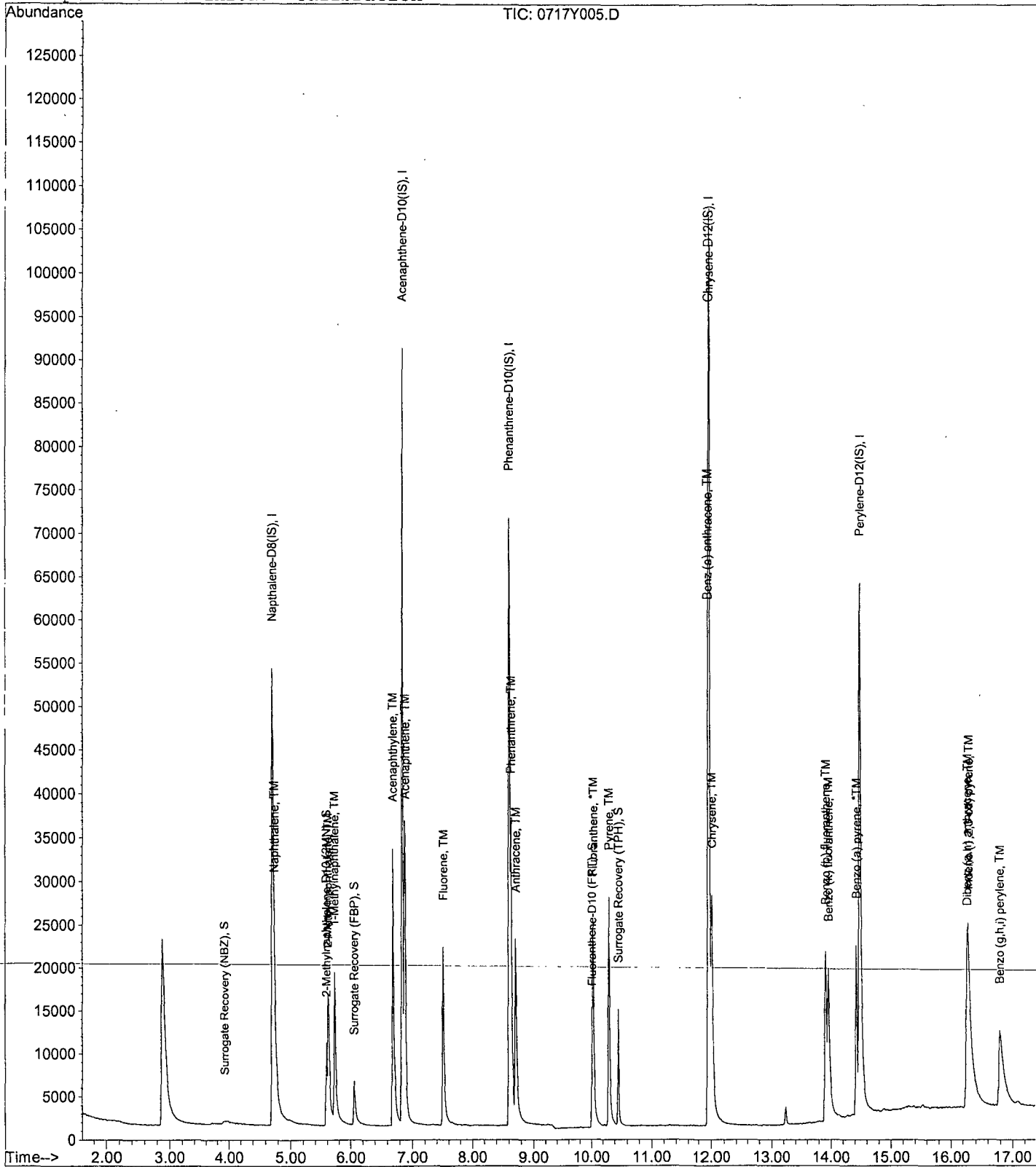
Data File : M:\YODA\DATA\Y190717P\0717Y005.D
Acq On : 17 Jul 19 10:38
Sample : 0.5 SIM 07/10/19
Misc :

Vial: 5
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 17 10:43 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Jul 17 13:35:41 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y006.D
 Acq On : 17 Jul 19 11:01
 Sample : 1.0 SIM 07/10/19
 Misc :

Vial: 6
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 17 11:08 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 11:08:37 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8(IS)	4.72	136	111652	2.50000	ppb	0.00
7) Acenaphthene-D10(IS)	6.84	164	55853	2.50000	ppb	-0.02
12) Phenanthrene-D10(IS)	8.61	188	105324	2.50000	ppb	0.00
17) Chrysene-D12(IS)	11.95	240	115441	2.50000	ppb	-0.02
23) Perylene-D12(IS)	14.48	264	113930	2.50000	ppb	0.01

System Monitoring Compounds

2) Surrogate Recovery (NBZ)	3.92	82	5489	0.42375	ppb	0.00
Spiked Amount	5.000		Recovery	=	8.480%	
4) 2-Methylnaphthalene-D10 (2)	5.59	152	25712	0.45773	ppb	-0.02
Spiked Amount	5.000		Recovery	=	9.160%	
8) Surrogate Recovery (FBP)	6.06	172	16691	0.36052	ppb	-0.02
Spiked Amount	5.000		Recovery	=	7.220%	
15) Fluoranthene-D10 (FRT)	10.00	212	22298	0.29747	ppb	-0.02
Spiked Amount	5.000		Recovery	=	5.940%	
19) Surrogate Recovery (TPH)	10.46	244	21914	0.51153	ppb	-0.01
Spiked Amount	5.000		Recovery	=	10.240%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.74	128	63563	1.18218	ppb	99
5) 2-Methylnaphthalene	5.61	142	38516	1.18806	ppb	100
6) 1-Methylnaphthalene	5.72	142	43653	1.21575	ppb	98
9) Acenaphthylene	6.69	152	101972	1.02405	ppb	99
10) Acenaphthene	6.89	154	38853	1.09550	ppb	88
11) Fluorene	7.51	166	44627	1.09087	ppb	94
13) Phenanthrene	8.64	178	66889	1.05820	ppb	98
14) Anthracene	8.71	178	55749	1.11853	ppb	97
16) Fluoranthene	10.02	202	81228	0.92664	ppb	# 91
18) Pyrene	10.29	202	81542	1.29264	ppb	# 86
20) Benz (a) anthracene	11.93	228	64225	1.23466	ppb	99
21) Chrysene	12.00	228	76689	1.18726	ppb	98
22) Indeno (1,2,3-cd) pyrene	16.24	276	80695	1.22158	ppb	# 80
24) Benzo (b) fluoranthene	13.89	252	68390	1.09622	ppb	100
25) Benzo (k) fluoranthene	13.94	252	76839	1.10612	ppb	99
26) Benzo (a) pyrene	14.41	252	65347	1.17843	ppb	98
27) Dibenz (a,h) anthracene	16.24	278	68833	1.07558	ppb	98
28) Benzo (g,h,i) perylene	16.75	276	66316	1.06411	ppb	# 91

(#) = qualifier out of range (m) = manual integration

Quantitation Report

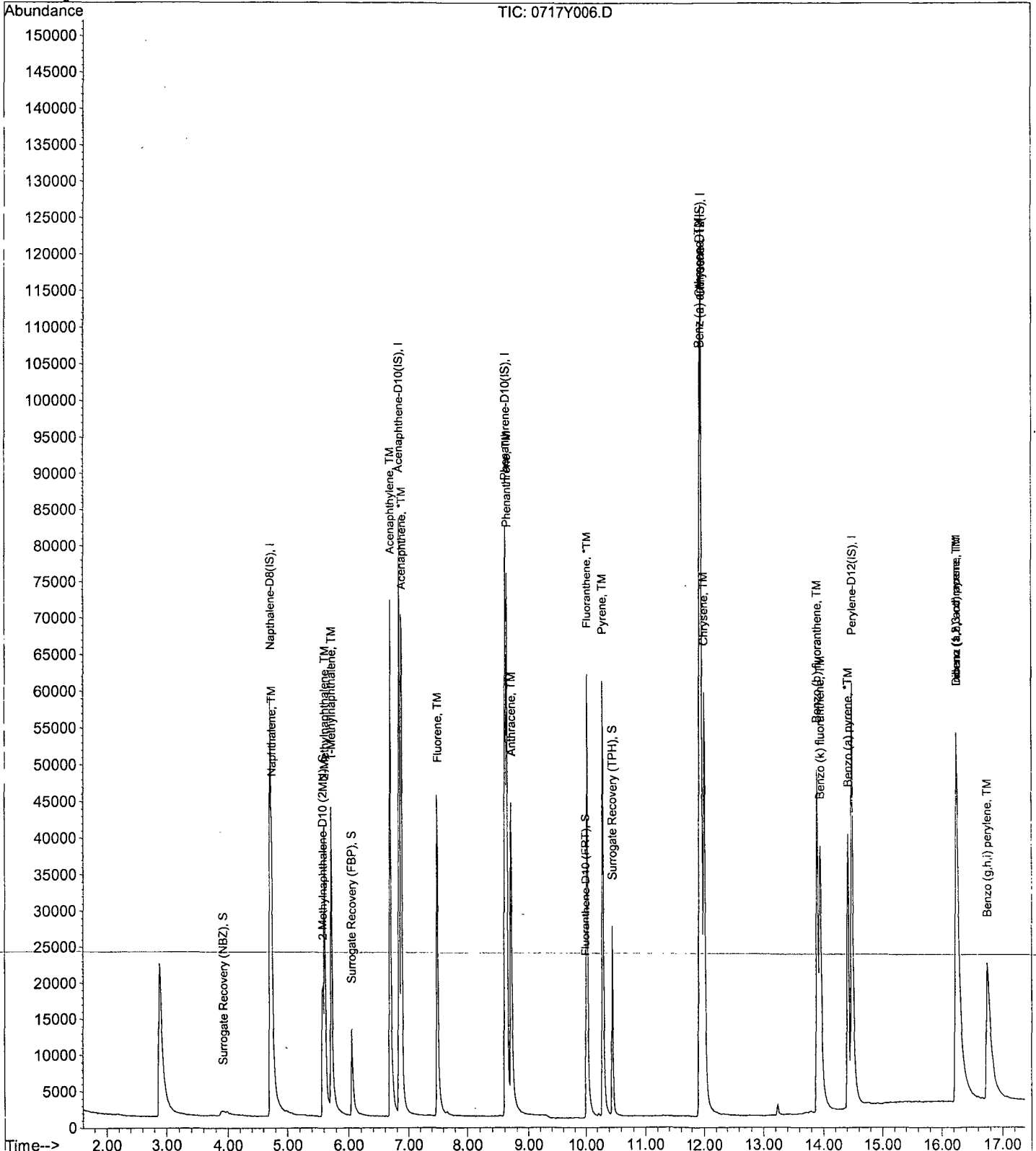
Data File : M:\YODA\DATA\Y190717P\0717Y006.D
Acq On : 17 Jul 19 11:01
Sample : 1.0 SIM 07/10/19
Misc :

Vial: 6
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 17 11:08 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Jul 17 13:35:41 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y007.D
 Acq On : 17 Jul 19 11:25
 Sample : 5.0 SIM 07/10/19
 Misc :

Vial: 7
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 17 13:02 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 13:02:08 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8(IS)	4.70	136	114310	2.50000	ppb	0.00
7) Acenaphthene-D10(IS)	6.84	164	57235	2.50000	ppb	0.00
12) Phenanthrene-D10(IS)	8.60	188	109744	2.50000	ppb	0.00
17) Chrysene-D12(IS)	11.94	240	119236	2.50000	ppb	0.00
23) Perylene-D12(IS)	14.48	264	113481	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.80	82	23465	2.22403	ppb	0.00
Spiked Amount	5.000		Recovery	=	44.480%	
4) 2-Methylnaphthalene-D10 (2)	5.56	152	113931	2.16141	ppb	0.00
Spiked Amount	5.000		Recovery	=	43.220%	
8) Surrogate Recovery (FBP)	6.04	172	76794	2.25850	ppb	0.00
Spiked Amount	5.000		Recovery	=	45.160%	
15) Fluoranthene-D10 (FRT)	10.00	212	110003	2.23265	ppb	0.00
Spiked Amount	5.000		Recovery	=	44.660%	
19) Surrogate Recovery (TPH)	10.46	244	99653	2.19550	ppb	0.00
Spiked Amount	5.000		Recovery	=	43.900%	
Target Compounds						
3) Naphthalene	4.73	128	286024	4.67985	ppb	100
5) 2-Methylnaphthalene	5.60	142	189901	5.18928	ppb	100
6) 1-Methylnaphthalene	5.72	142	194200	4.31918	ppb	100
9) Acenaphthylene	6.68	152	540886	5.33527	ppb	100
10) Acenaphthene	6.87	154	183392	4.72137	ppb	100
11) Fluorene	7.49	166	216112	5.07897	ppb	100
13) Phenanthrene	8.62	178	313376	4.78857	ppb	100
14) Anthracene	8.70	178	291160	5.27669	ppb	100
16) Fluoranthene	10.01	202	402342	4.93037	ppb	100
18) Pyrene	10.28	202	406809	4.88304	ppb	100
20) Benz (a) anthracene	11.92	228	347245	4.81756	ppb	100
21) Chrysene	11.99	228	366452	4.55630	ppb	100
22) Indeno (1,2,3-cd) pyrene	16.20	276	407562	4.95728	ppb	100
24) Benzo (b) fluoranthene	13.87	252	363305	4.81494	ppb	100
25) Benzo (k) fluoranthene	13.92	252	369414	4.97264	ppb	100
26) Benzo (a) pyrene	14.39	252	335875	5.07483	ppb	100
27) Dibenz (a,h) anthracene	16.20	278	347519	5.10035	ppb	100
28) Benzo (g,h,i) perylene	16.69	276	330592	5.08990	ppb	100

Quantitation Report

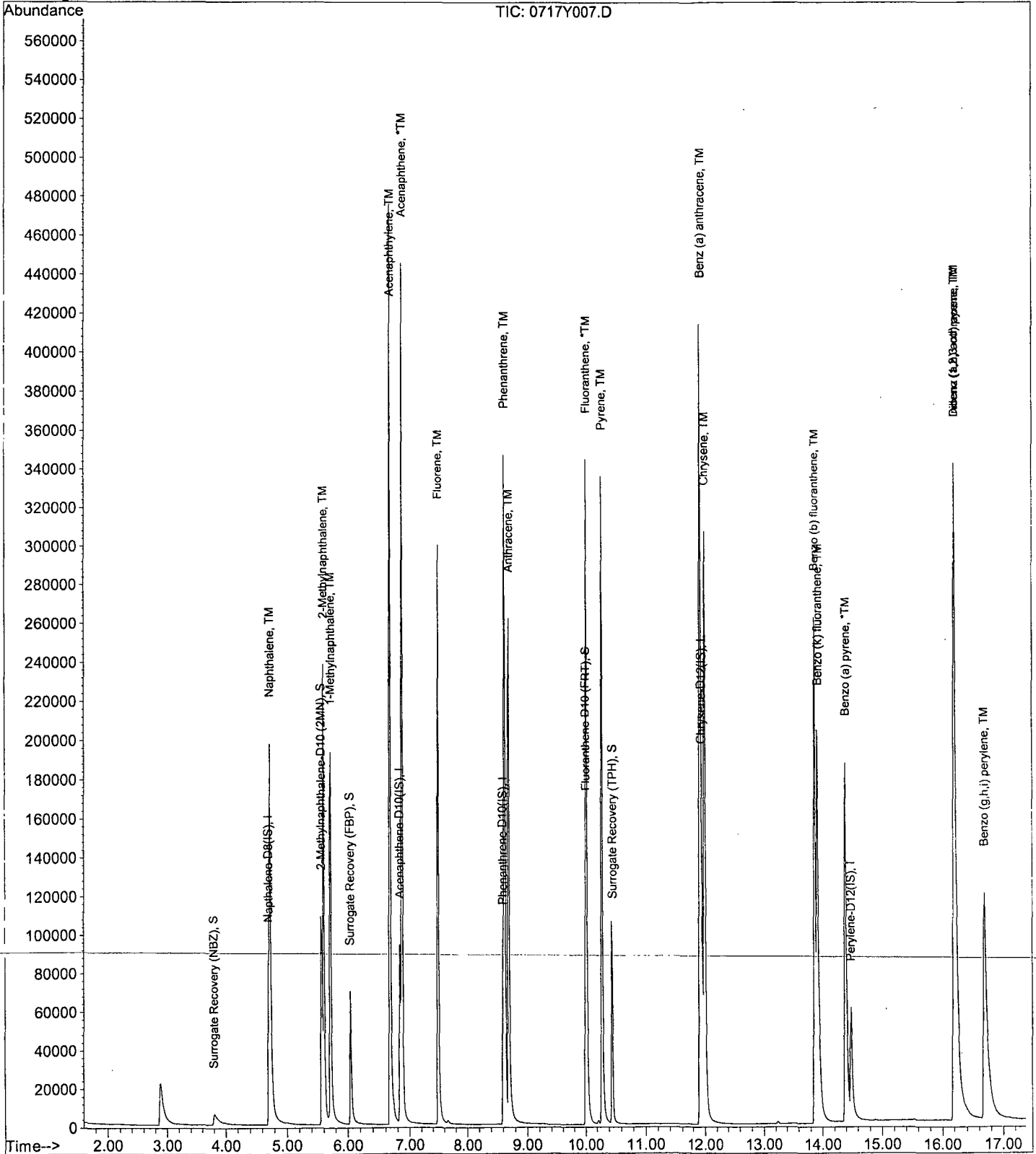
Data File : M:\YODA\DATA\Y190717P\0717Y007.D
Acq On : 17 Jul 19 11:25
Sample : 5.0 SIM 07/10/19
Misc :

Vial: 7
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 17 13:02 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Jul 17 13:35:41 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y008.D Vial: 8
 Acq On : 17 Jul 19 11:48 Operator: MA,SS
 Sample : 10 SIM 07/10/19 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Jul 17 12:17 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 12:16:55 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	4.71	136	112785	2.50000	ppb	0.00
7) Acenaphthene-D10(IS)	6.84	164	57579	2.50000	ppb	0.00
12) Phenanthrene-D10(IS)	8.60	188	110627	2.50000	ppb	0.00
17) Chrysene-D12(IS)	11.93	240	118772	2.50000	ppb	-0.01
23) Perylene-D12(IS)	14.48	264	112091	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.78	82	53537	4.62492	ppb	-0.02
Spiked Amount	5.000		Recovery	=	92.500%	
4) 2-Methylnaphthalene-D10 (2)	5.56	152	235122	4.34514	ppb	0.00
Spiked Amount	5.000		Recovery	=	86.900%	
8) Surrogate Recovery (FBP)	6.04	172	158308	4.21887	ppb	0.00
Spiked Amount	5.000		Recovery	=	84.380%	
15) Fluoranthene-D10 (FRT)	9.99	212	264484	4.21131	ppb	-0.01
Spiked Amount	5.000		Recovery	=	84.220%	
19) Surrogate Recovery (TPH)	10.45	244	223786	4.60444	ppb	-0.01
Spiked Amount	5.000		Recovery	=	92.080%	
Target Compounds						
3) Naphthalene	4.73	128	580219	9.94920	ppb	99
5) 2-Methylnaphthalene	5.60	142	387867	10.69107	ppb	97
6) 1-Methylnaphthalene	5.71	142	385488	9.40770	ppb	96
9) Acenaphthylene	6.68	152	1115129	10.20838	ppb	99
10) Acenaphthene	6.88	154	370915	9.56817	ppb	96
11) Fluorene	7.48	166	449884	10.02152	ppb	94
13) Phenanthrene	8.62	178	640553	9.44535	ppb	99
14) Anthracene	8.69	178	625887	10.53009	ppb	99
16) Fluoranthene	10.01	202	835310	9.24893	ppb	96
18) Pyrene	10.28	202	837724	10.86096	ppb	93
20) Benz (a) anthracene	11.92	228	746877	10.90485	ppb	99
21) Chrysene	11.98	228	736209	10.10186	ppb	98
22) Indeno (1,2,3-cd) pyrene	16.18	276	861660	10.69768	ppb	100
24) Benzo (b) fluoranthene	13.87	252	760704	11.45890	ppb	# 95
25) Benzo (k) fluoranthene	13.91	252	777741	10.35106	ppb	99
26) Benzo (a) pyrene	14.37	252	723216	10.92796	ppb	# 96
27) Dibenz (a,h) anthracene	16.19	278	734521	10.67982	ppb	98
28) Benzo (g,h,i) perylene	16.67	276	706722	10.75207	ppb	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

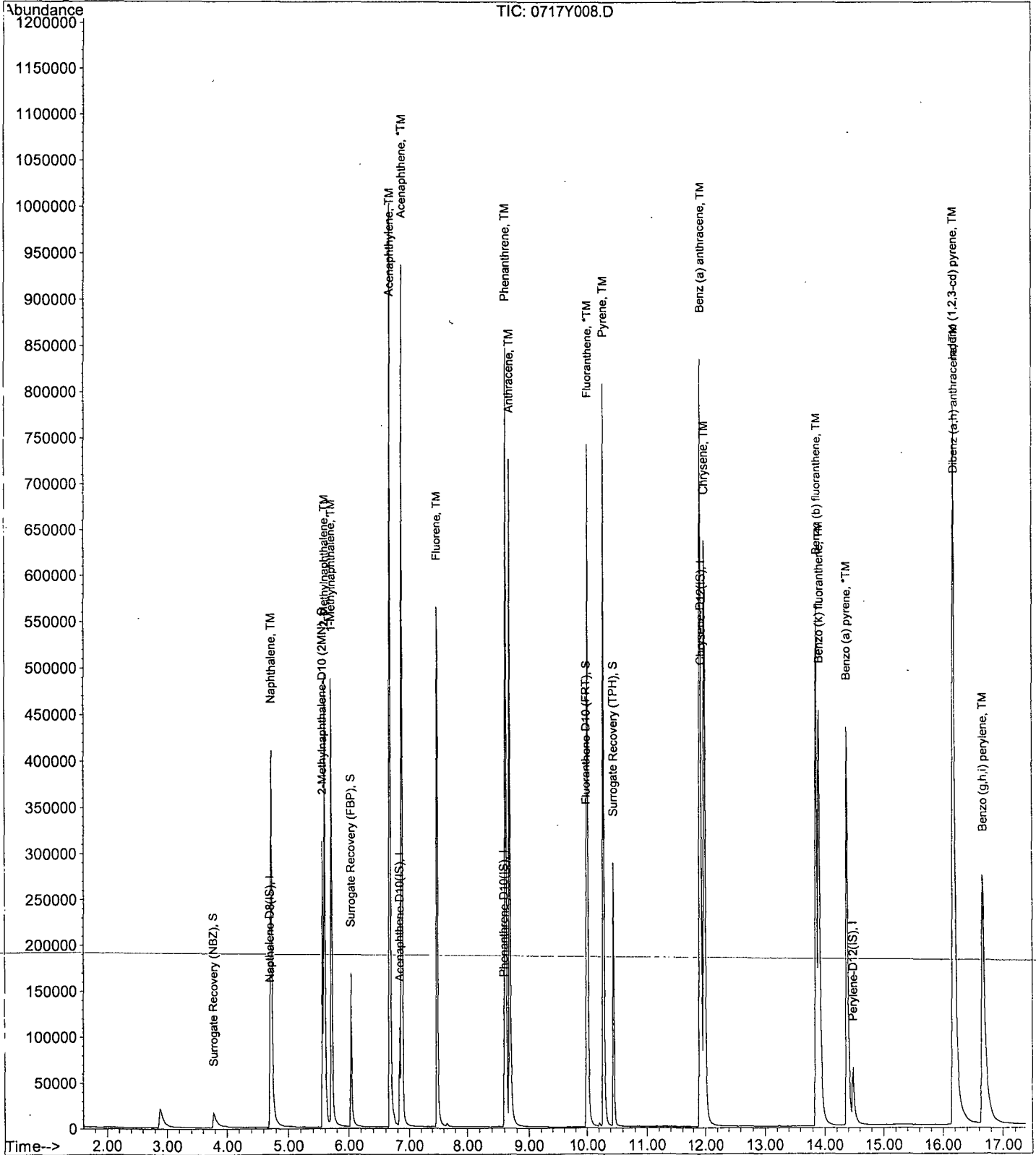
Data File : M:\YODA\DATA\Y190717P\0717Y008.D
Acq On : 17 Jul 19 11:48
Sample : 10 SIM 07/10/19
Misc :

Vial: 8
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 17 12:17 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Jul 17 13:35:41 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y009.D
 Acq On : 17 Jul 19 12:11
 Sample : 50 SIM 07/10/19
 Misc :

Vial: 9
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 17 12:17 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 12:16:55 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8(IS)	4.71	136	109001	2.50000	ppb	0.00
7) Acenaphthene-D10(IS)	6.84	164	57556	2.50000	ppb	0.00
12) Phenanthrene-D10(IS)	8.60	188	111042	2.50000	ppb	0.00
17) Chrysene-D12(IS)	11.93	240	119923	2.50000	ppb	-0.01
23) Perylene-D12(IS)	14.48	264	114306	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.74	82	338807	30.63060	ppb	-0.06
Spiked Amount	5.000		Recovery	=	612.620%	
4) 2-Methylnaphthalene-D10 (2)	5.55	152	1258518	24.53932	ppb	-0.01
Spiked Amount	5.000		Recovery	=	490.780%	
8) Surrogate Recovery (FBP)	6.03	172	847677	23.51675	ppb	-0.01
Spiked Amount	5.000		Recovery	=	470.340%	
15) Fluoranthene-D10 (FRT)	9.99	212	1320833	22.42688	ppb	-0.01
Spiked Amount	5.000		Recovery	=	448.540%	
19) Surrogate Recovery (TPH)	10.45	244	1137090	23.01060	ppb	-0.01
Spiked Amount	5.000		Recovery	=	460.220%	
Target Compounds						
3) Naphthalene	4.72	128	2169505	38.27856	ppb	99
5) 1-Methylnaphthalene	5.59	142	1497930	42.35345	ppb	99
6) 2-Methylnaphthalene	5.71	142	1491974	37.42326	ppb	99
9) Acenaphthylene	6.67	152	4474703	41.76386	ppb	99
10) Acenaphthene	6.88	154	1492800	38.60402	ppb	92
11) Fluorene	7.48	166	1779419	39.92321	ppb	98
13) Phenanthrene	8.62	178	2445747	36.46600	ppb	97
14) Anthracene	8.69	178	2513890	42.88802	ppb	98
16) Fluoranthene	10.01	202	3202788	36.70567	ppb	92
18) Pyrene	10.28	202	3270777	41.29212	ppb	# 89
20) Benz (a) anthracene	11.91	228	3047141	43.28209	ppb	97
21) Chrysene	11.98	228	2972451	40.07734	ppb	98
22) Indeno (1,2,3-cd) pyrene	16.17	276	3507566	42.68766	ppb	97
24) Benzo (b) fluoranthene	13.86	252	3042168	44.61200	ppb	95
25) Benzo (k) fluoranthene	13.90	252	3184479	41.91846	ppb	96
26) Benzo (a) pyrene	14.36	252	2991745	44.23949	ppb	# 94
27) Dibenz (a,h) anthracene	16.18	278	3071475	43.89671	ppb	96
28) Benzo (g,h,i) perylene	16.64	276	2901323	43.42396	ppb	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

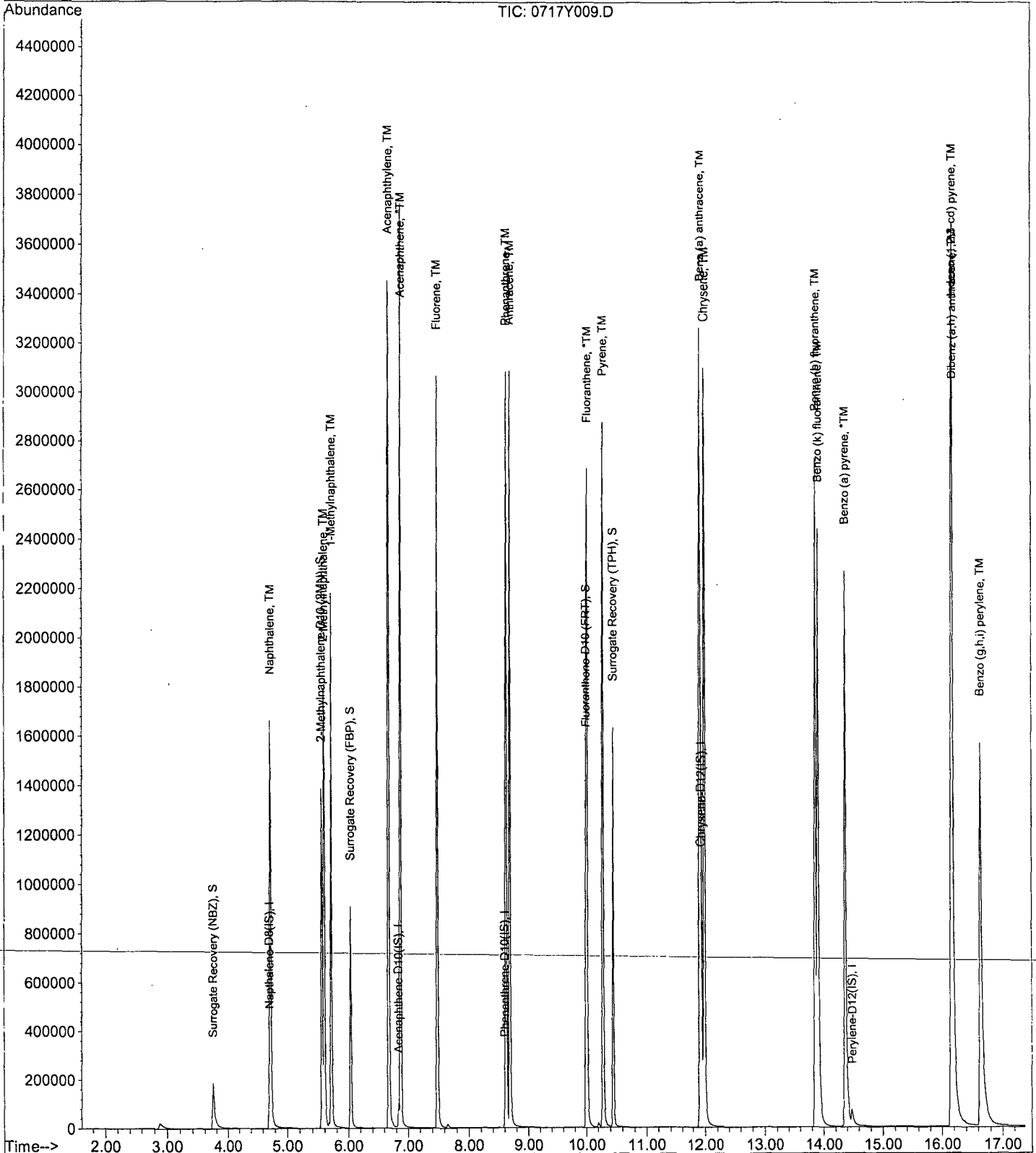
Data File : M:\YODA\DATA\Y190717P\0717Y009.D
Acq On : 17 Jul 19 12:11
Sample : 50 SIM 07/10/19
Misc :

Vial: 9
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 17 12:17 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Jul 17 13:35:41 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y010.D
 Acq On : 17 Jul 19 12:35
 Sample : 100 SIM 07/10/19
 Misc :

Vial: 10
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 17 12:41 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 12:40:49 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8(IS)	4.70	136	114626	2.50000	ppb	0.00
7) Acenaphthene-D10(IS)	6.84	164	59383	2.50000	ppb	0.00
12) Phenanthrene-D10(IS)	8.60	188	118298	2.50000	ppb	0.00
17) Chrysene-D12(IS)	11.93	240	125343	2.50000	ppb	0.00
23) Perylene-D12(IS)	14.48	264	122799	2.50000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	3.73	82	732231	69.37506	ppb	-0.07
Spiked Amount	5.000		Recovery	= 1387.500%		
4) 2-Methylnaphthalene-D10 (2)	5.55	152	2591528	48.89332	ppb	0.00
Spiked Amount	5.000		Recovery	= 977.860%		
8) Surrogate Recovery (FBP)	6.03	172	1729303	48.88181	ppb	0.00
Spiked Amount	5.000		Recovery	= 977.640%		
15) Fluoranthene-D10 (FRT)	9.99	212	2714747	51.27848	ppb	0.00
Spiked Amount	5.000		Recovery	= 1025.560%		
19) Surrogate Recovery (TPH)	10.45	244	2383177	49.93776	ppb	0.00
Spiked Amount	5.000		Recovery	= 998.760%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.72	128	4131317	67.40920	ppb	98
5) 2-Methylnaphthalene	5.59	142	2926900	77.51933	ppb	99
6) 1-Methylnaphthalene	5.71	142	2890239	67.01478	ppb	100
9) Acenaphthylene	6.67	152	8706116	80.78205	ppb	98
10) Acenaphthene	6.88	154	2806475	69.63830	ppb	97
11) Fluorene	7.48	166	3367396	73.77615	ppb	99
13) Phenanthrene	8.63	178	4676426	66.29145	ppb	96
14) Anthracene	8.69	178	4759973	77.80720	ppb	95
16) Fluoranthene	10.01	202	6112167	69.48362	ppb	98
18) Pyrene	10.28	202	6337915	72.36922	ppb	95
20) Benz (a) anthracene	11.92	228	6149247	83.04631	ppb	96
21) Chrysene	11.99	228	5731027	70.45313	ppb	97
22) Indeno (1,2,3-cd) pyrene	16.17	276	7362396	83.42239	ppb	92
24) Benzo (b) fluoranthene	13.86	252	5980790	82.07402	ppb	96
25) Benzo (k) fluoranthene	13.90	252	6406000	77.44013	ppb	# 93
26) Benzo (a) pyrene	14.37	252	6040854	82.50231	ppb	96
27) Dibenz (a,h) anthracene	16.18	278	6377024	84.85276	ppb	96
28) Benzo (g,h,i) perylene	16.64	276	5973947	83.21411	ppb	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y190717P\0717Y010.D

Acq On : 17 Jul 19 12:35

Sample : 100 SIM 07/10/19

Misc :

Vial: 10

Operator: MA, SS

Inst : Yoda

Multiplr: 1.00

Quant Time: Jul 17 12:41 2019

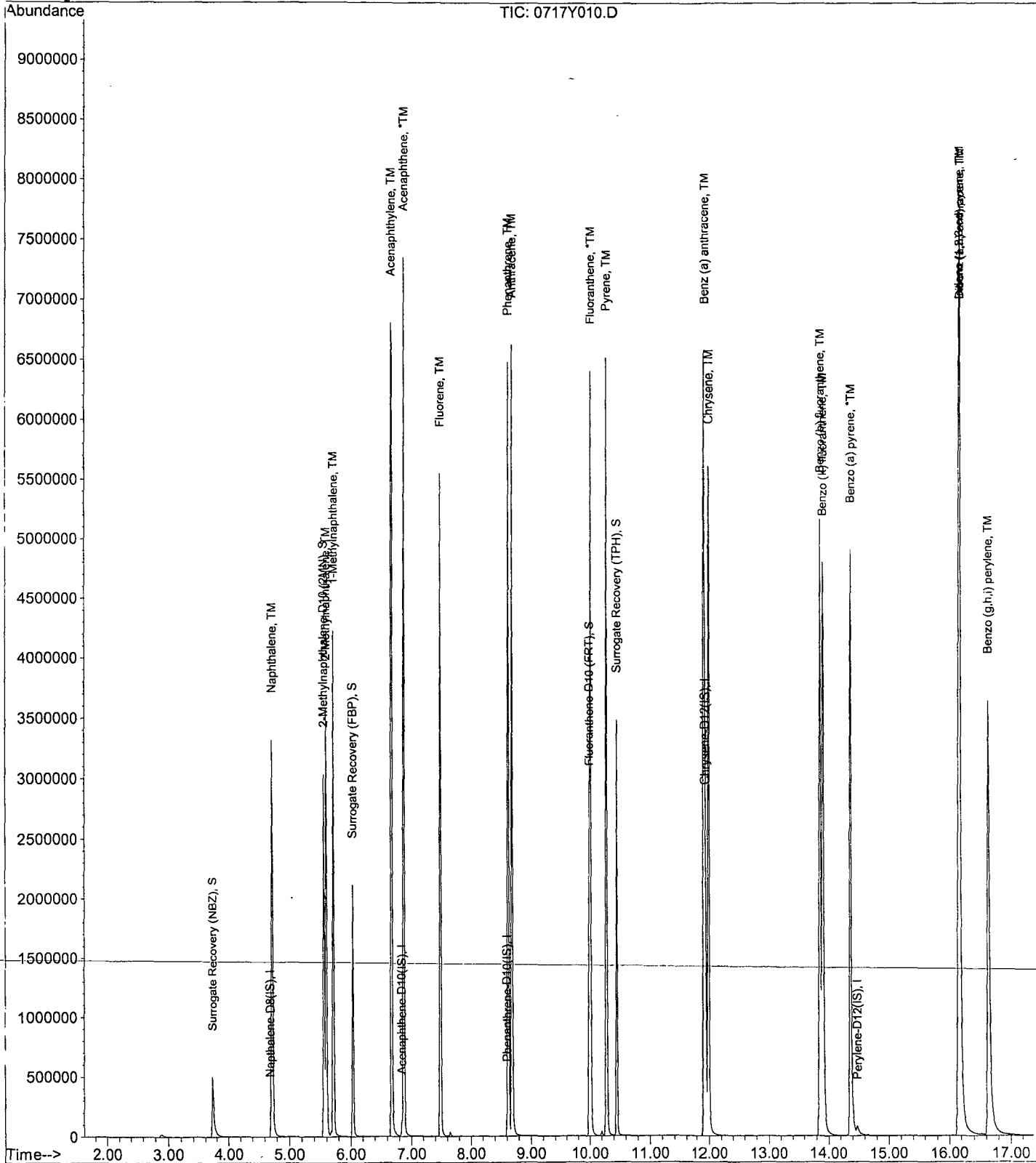
Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)

Title : EPA 8270

Last Update : Wed Jul 17 13:35:41 2019

Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/17/19
Instrument: Yoda
Initial Cal. Date: 07/17/19
Data File: 0717Y012.D

		Compound	MEAN	CCRF	%D	%Drift
1	TM	Naphthalene	1.337	1.122	16	TM
2	TM	2-Methylnaphthalene	0.8003	0.7338	8.3	TM
3	TM	1-Methylnaphthalene	0.9833	0.8071	18	TM
4	TM	Acenaphthylene	4.428	3.998	9.7	TM
5	*TM	Acenaphthene	1.696	1.380	19	*TM
6	TM	Fluorene	1.858	1.636	12	TM
7	TM	Phenanthrene	1.486	1.297	13	TM
8	TM	Anthracene	1.254	1.123	10	TM
9	*TM	Fluoranthene	1.857	1.606	14	*TM
10	TM	Pyrene	1.747	1.523	13	TM
11	TM	Benz (a) anthracene	1.511	1.272	16	TM
12	TM	Chrysene	1.682	1.390	17	TM
13	TM	Indeno (1,2,3-cd) pyrene	1.724	1.471	15	TM
14	TML	Benzo (b) fluoranthene	1.509	1.362	9.7	TML 18
15	TM	Benzo (k) fluoranthene	1.624	1.571	3.3	TM
16	*TM	Benzo (a) pyrene	1.452	1.284	12	*TM
17	TM	Dibenz (a,h) anthracene	1.501	1.365	9.0	TM
18	TM	Benzo (g,h,i) perylene	1.383	1.304	5.7	TM
19						
20						
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40						

Average

12.3

Data File : M:\YODA\DATA\Y190717P\0717Y012.D
 Acq On : 17 Jul 19 13:32
 Sample : SS SIM 07/10/19
 Misc :

Vial: 12
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 17 13:54 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 13:35:41 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.72	136	113489	2.50000	ppb	0.01
7) Acenaphthene-D10 (IS)	6.85	164	57573	2.50000	ppb	0.01
12) Phenanthrene-D10 (IS)	8.61	188	106559	2.50000	ppb	0.01
17) Chrysene-D12 (IS)	11.95	240	116279	2.50000	ppb	0.00
23) Perylene-D12 (IS)	14.48	264	107289	2.50000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	0.00	82	0d	0.63118	ppb	
Spiked Amount	5.000		Recovery	=	12.620%	
4) 2-Methylnaphthalene-D10 (2)	0.00	152	0d	0.00000	ppb	
Spiked Amount	5.000		Recovery	=	0.000%	
8) Surrogate Recovery (FBP)	0.00	172	0d	0.00000	ppb	
Spiked Amount	5.000		Recovery	=	0.000%	
15) Fluoranthene-D10 (FRT)	0.00	212	0d	0.00000	ppb	
Spiked Amount	5.000		Recovery	=	0.000%	
19) Surrogate Recovery (TPH)	0.00	244	0d	0.00000	ppb	
Spiked Amount	5.000		Recovery	=	0.000%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.74	128	254734	4.19804	ppb	99
5) 2-Methylnaphthalene	5.60	142	166552	4.58416	ppb	97
6) 1-Methylnaphthalene	5.72	142	183184	4.10365	ppb	98
9) Acenaphthylene	6.68	152	460304	4.51437	ppb	99
10) Acenaphthene	6.87	154	158939	4.06847	ppb	97
11) Fluorene	7.49	166	188407	4.40247	ppb	98
13) Phenanthrene	8.63	178	276456	4.36335	ppb	98
14) Anthracene	8.70	178	239371	4.47930	ppb	99
16) Fluoranthene	10.02	202	342243	4.32429	ppb	92
18) Pyrene	10.29	202	354213	4.35984	ppb	# 88
20) Benz (a) anthracene	11.92	228	295879	4.20931	ppb	99
21) Chrysene	11.99	228	323306	4.13361	ppb	99
22) Indeno (1,2,3-cd) pyrene	16.20	276	342109	4.26698	ppb	95
24) Benzo (b) fluoranthene	13.88	252	292264	4.11192	ppb	100
25) Benzo (k) fluoranthene	13.92	252	337070	4.83639	ppb	100
26) Benzo (a) pyrene	14.39	252	275586	4.42266	ppb	99
27) Dibenz (a,h) anthracene	16.21	278	292997	4.54834	ppb	98
28) Benzo (g,h,i) perylene	16.69	276	279830	4.71433	ppb	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

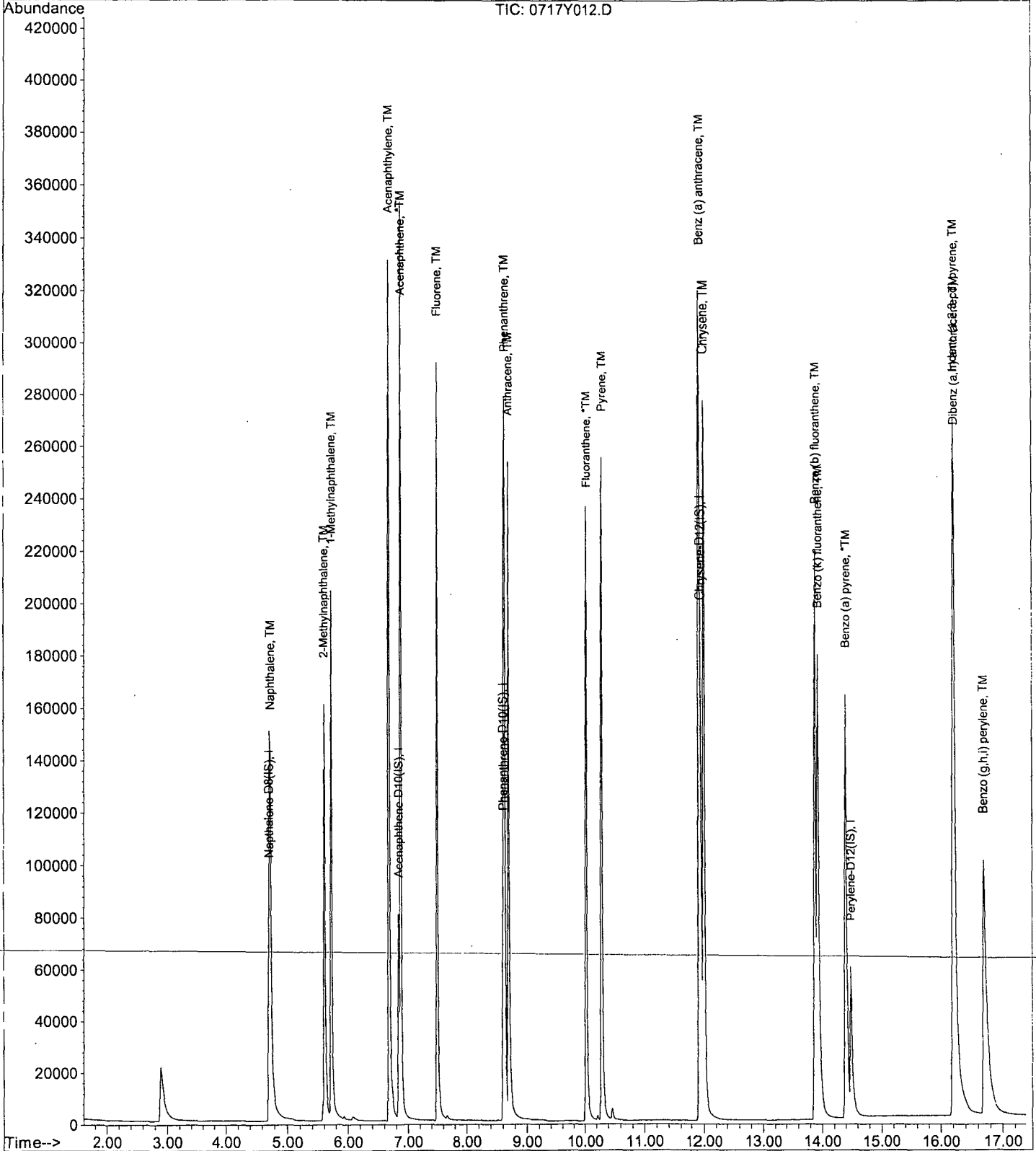
Data File : M:\YODA\DATA\Y190717P\0717Y012.D
Acq On : 17 Jul 19 13:32
Sample : SS SIM 07/10/19
Misc :

Vial: 12
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 17 13:54 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Jul 17 13:35:41 2019
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/30/19
Instrument: Yoda
Initial Cal. Date: 07/17/19
Data File: 0717Y272.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Napthalene-D8(IS)	ISTD			I	
2	SL	Surrogate Recovery (NBZ)	0.2451	0.2436	0.58	SL	0.87
3	TM	Naphthalene	1.337	1.251	6.4	TM	
4	S	2-Methylnaphthalene-D10 (2MN)	1.153	1.106	4.0	S	
5	TM	2-Methylnaphthalene	0.8003	0.8485	6.0	TM	
6	TM	1-Methylnaphthalene	0.9833	0.8622	12	TM	
7	I	Acenaphthene-D10(IS)	ISTD			I	
8	S	Surrogate Recovery (FBP)	1.443	1.372	4.9	S	
9	TM	Acenaphthylene	4.428	5.705	29	TM	*
10	*TM	Acenaphthene	1.696	1.553	8.4	*TM	
11	TM	Fluorene	1.858	1.929	3.8	TM	
12	I	Phenanthrene-D10(IS)	ISTD			I	
13	TM	Phenanthrene	1.486	1.333	10	TM	
14	TM	Anthracene	1.254	1.297	3.5	TM	
15	S	Fluoranthene-D10 (FRT)	1.122	1.161	3.5	S	
16	*TM	Fluoranthene	1.857	1.929	3.9	*TM	
17	I	Chrysene-D12(IS)	ISTD			I	
18	TM	Pyrene	1.747	1.444	17	TM	
19	S	Surrogate Recovery (TPH)	0.9517	0.8811	7.4	S	
20	TM	Benz (a) anthracene	1.511	1.409	6.7	TM	
21	TM	Chrysene	1.682	1.395	17	TM	
22	TM	Indeno (1,2,3-cd) pyrene	1.724	1.730	0.37	TM	
23	I	Perylene-D12(IS)	ISTD			I	
24	TML	Benzo (b) fluoranthene	1.509	1.444	4.3	TML	13
25	TM	Benzo (k) fluoranthene	1.624	1.340	17	TM	
26	*TM	Benzo (a) pyrene	1.452	1.330	8.4	*TM	
27	TM	Dibenz (a,h) anthracene	1.501	1.386	7.6	TM	
28	TM	Benzo (g,h,i) perylene	1.383	1.309	5.3	TM	
29							
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39							
40							

Average

8.1

Data File : M:\YODA\DATA\Y190717P\0717Y272.D
 Acq On : 30 Jul 19 10:06
 Sample : 5.0 SIM 07/10/19 (3)
 Misc :

Vial: 72
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 30 10:15 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8(IS)	4.53	136	72290	2.50000	ppb	-0.05
7) Acenaphthene-D10(IS)	6.66	164	38053	2.50000	ppb	-0.06
12) Phenanthrene-D10(IS)	8.41	188	79844	2.50000	ppb	-0.08
17) Chrysene-D12(IS)	11.68	240	107147	2.50000	ppb	-0.11
23) Perylene-D12(IS)	14.21	264	115550	2.50000	ppb	-0.11
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.60	82	17613	2.52175	ppb	-0.10
Spiked Amount	5.000		Recovery	=	50.440%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	79968	2.39893	ppb	-0.05
Spiked Amount	5.000		Recovery	=	47.980%	
8) Surrogate Recovery (FBP)	5.87	172	52212	2.37672	ppb	-0.08
Spiked Amount	5.000		Recovery	=	47.540%	
15) Fluoranthene-D10 (FRT)	9.81	212	92692	2.58671	ppb	-0.06
Spiked Amount	5.000		Recovery	=	51.740%	
19) Surrogate Recovery (TPH)	10.27	244	94408	2.31462	ppb	-0.05
Spiked Amount	5.000		Recovery	=	46.300%	
Target Compounds						
3) Naphthalene	4.55	128	180918	4.68077	ppb	99
5) 2-Methylnaphthalene	5.43	142	122676	5.30085	ppb	99
6) 1-Methylnaphthalene	5.54	142	124650	4.38379	ppb	96
9) Acenaphthylene	6.50	152	434171	6.44233	ppb	# 84
10) Acenaphthene	6.70	154	118200	4.57771	ppb	96
11) Fluorene	7.31	166	146782	5.18922	ppb	97
13) Phenanthrene	8.44	178	212891	4.48435	ppb	100
14) Anthracene	8.51	178	207176	5.17399	ppb	100
16) Fluoranthene	9.82	202	307986	5.19349	ppb	94
18) Pyrene	10.09	202	309379	4.13255	ppb	# 88
20) Benz (a) anthracene	11.65	228	302019	4.66286	ppb	100
21) Chrysene	11.72	228	298848m	4.14655	ppb	89
22) Indeno (1,2,3-cd) pyrene	15.82	276	370764	5.01851	ppb	# 98
24) Benzo (b) fluoranthene	13.60	252	333614	4.35212	ppb	100
25) Benzo (k) fluoranthene	13.64	252	309646	4.12527	ppb	98
26) Benzo (a) pyrene	14.12	252	307352	4.57981	ppb	98
27) Dibenz (a,h) anthracene	15.83	278	320397	4.61810	ppb	95
28) Benzo (g,h,i) perylene	16.29	276	302567	4.73296	ppb	97

(#) = qualifier out of range (m) = manual integration

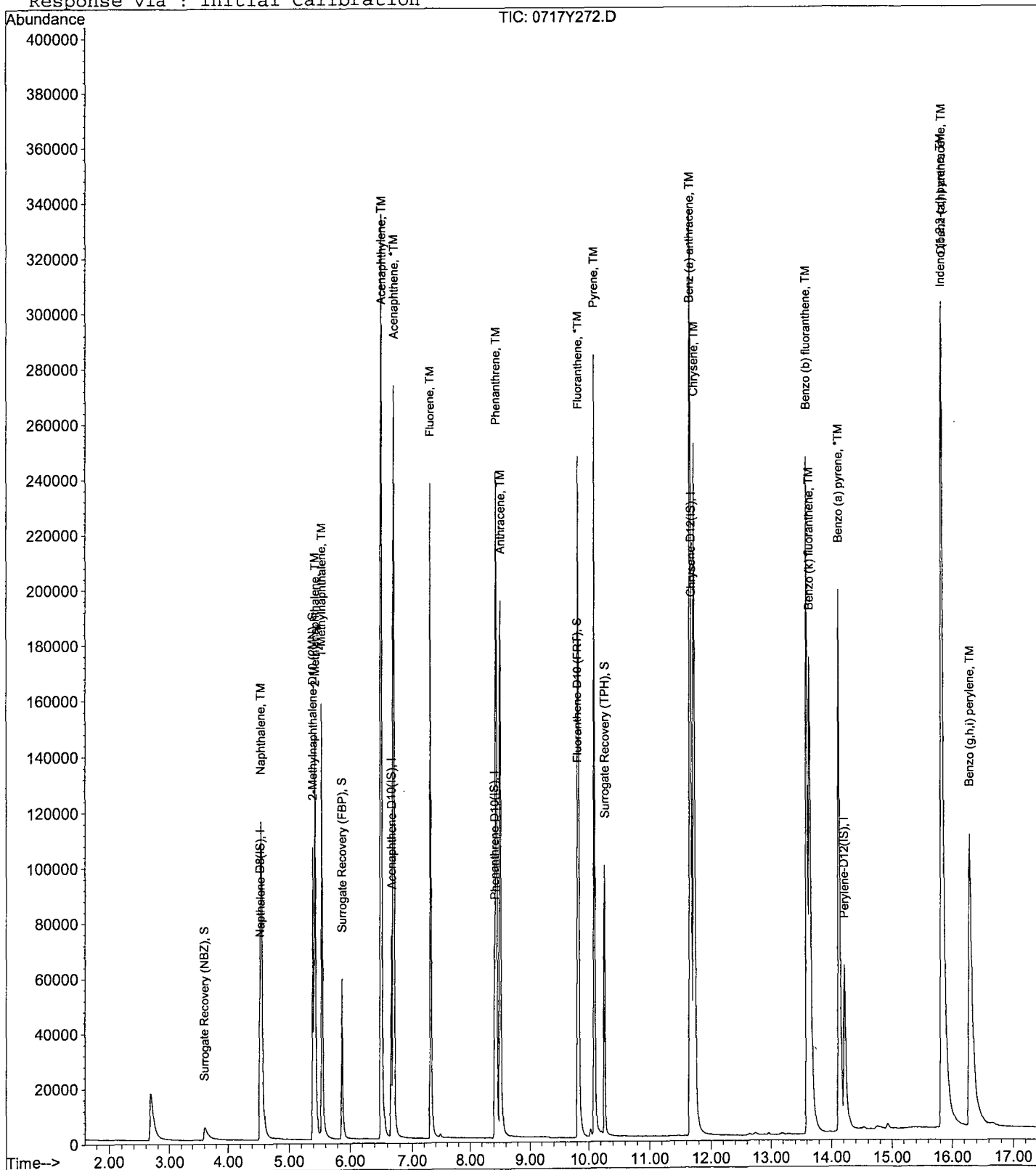
Data File : M:\YODA\DATA\Y190717P\0717Y272.D
 Acq On : 30 Jul 19 10:06
 Sample : 5.0 SIM 07/10/19 (3)
 Misc :

Vial: 72
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 30 10:15 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration

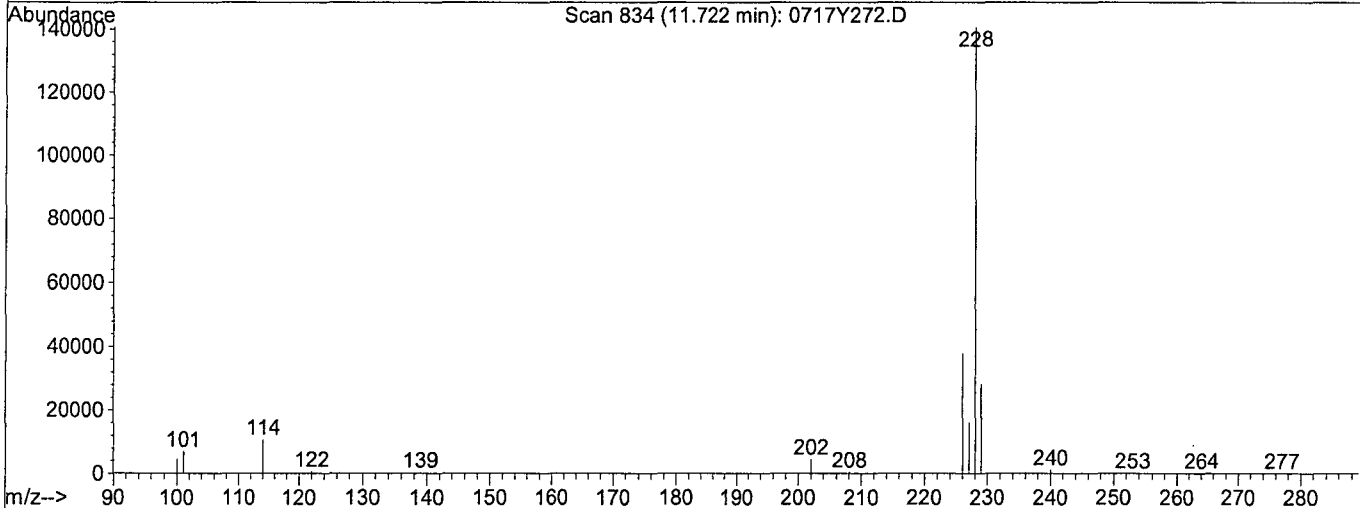
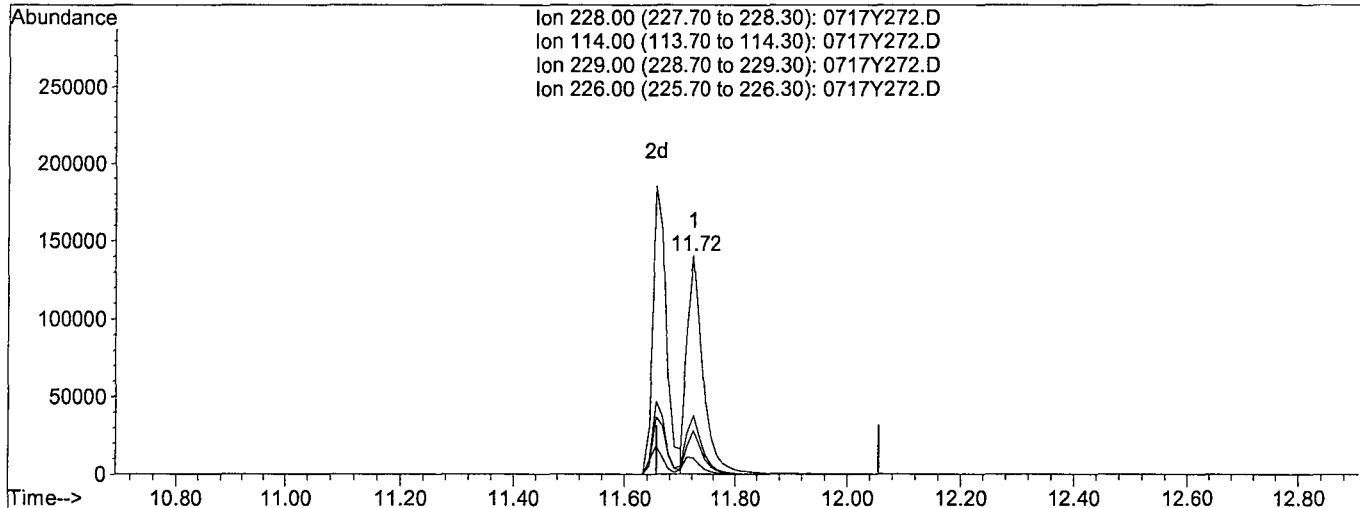


Quantitation Report

Data File : M:\YODA\DATA\Y190717P\0717Y272.D
 Acq On : 30 Jul 19 10:06
 Sample : 5.0 SIM 07/10/19 (3)
 Misc :
 Quant Time: Jul 30 10:14 2019

Vial: 72
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Multiple Level Calibration



TIC: 0717Y272.D

(21) Chrysene (TM)

11.72min 3.9568ppb

response 285176

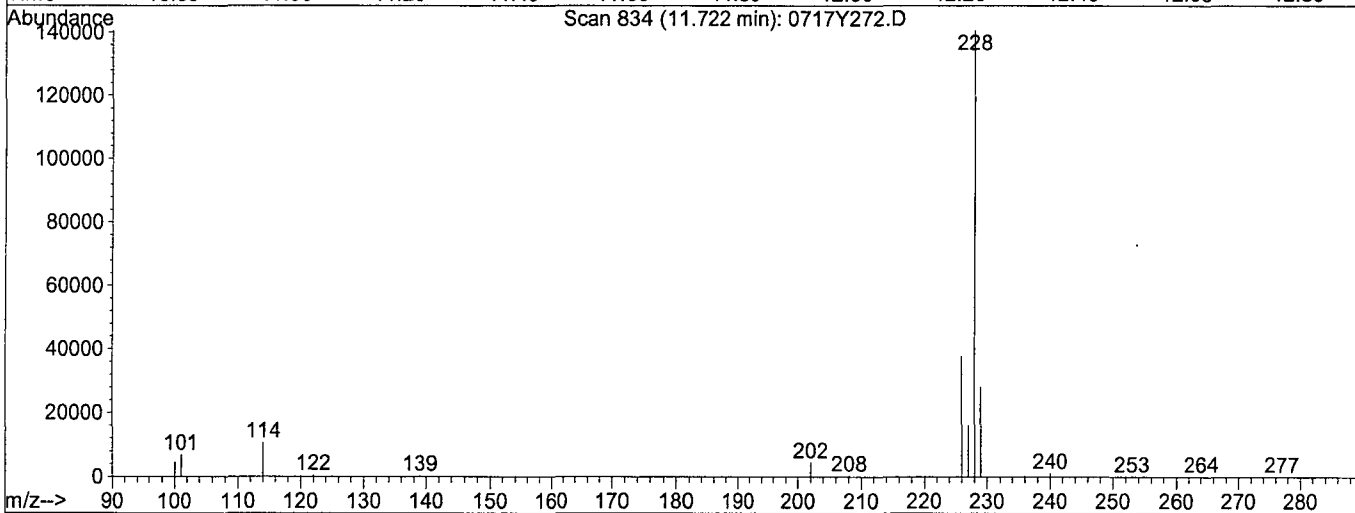
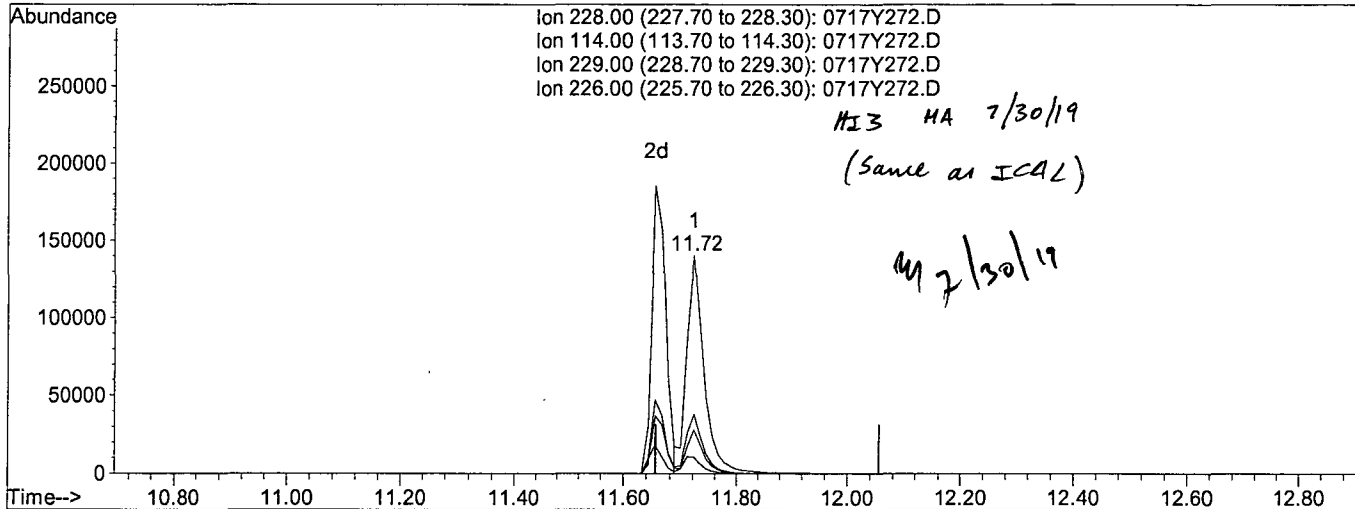
Ion	Exp%	Act%
228.00	100	100
114.00	14.40	7.48#
229.00	25.80	19.95
226.00	30.90	26.87

Quantitation Report

Data File : M:\YODA\DATA\Y190717P\0717Y272.D
 Acq On : 30 Jul 19 10:06
 Sample : 5.0 SIM 07/10/19 (3)
 Misc :
 Quant Time: Jul 30 10:15 2019

Vial: 72
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Multiple Level Calibration



TIC: 0717Y272.D

(21) Chrysene (TM)

11.72min 4.1465ppb m

response 298848

Ion	Exp%	Act%
228.00	100	100
114.00	14.40	7.52#
229.00	25.80	19.98
226.00	30.90	26.89

PAH by GCMS SIM
EPA 8270 SIM

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/30/19
Instrument: Yoda
Initial Cal. Date: 07/17/19
Data File: 0717Y303.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Napthalene-D8(IS)	ISTD			I
2	SL Surrogate Recovery (NBZ)	0.2451	0.3316	35	SL 28
3	TM Naphthalene	1.337	1.232	7.8	TM
4	S 2-Methylnaphthalene-D10 (2MN)	1.153	1.483	29	S
5	TM 2-Methylnaphthalene	0.8003	0.8252	3.1	TM
6	TM 1-Methylnaphthalene	0.9833	0.8334	15	TM
7	I Acenaphthene-D10(IS)	ISTD			I
8	S Surrogate Recovery (FBP)	1.443	1.887	31	S
9	TM Acenaphthylene	4.428	5.815	31	TM
10	*TM Acenaphthene	1.696	1.491	12	*TM
11	TM Fluorene	1.858	1.894	1.9	TM
12	I Phenanthrene-D10(IS)	ISTD			I
13	TM Phenanthrene	1.486	1.319	11	TM
14	TM Anthracene	1.254	1.287	2.7	TM
15	S Fluoranthene-D10 (FRT)	1.122	1.654	47	S
16	*TM Fluoranthene	1.857	1.894	2.0	*TM
17	I Chrysene-D12(IS)	ISTD			I
18	TM Pyrene	1.747	1.352	23	TM
19	S Surrogate Recovery (TPH)	0.9517	1.282	35	S
20	TM Benz (a) anthracene	1.511	1.331	12	TM
21	TM Chrysene	1.682	1.244	26	TM
22	TM Indeno (1,2,3-cd) pyrene	1.724	1.604	7.0	TM
23	I Perylene-D12(IS)	ISTD			I
24	TML Benzo (b) fluoranthene	1.509	1.233	18	TML 25
25	TM Benzo (k) fluoranthene	1.624	1.383	15	TM
26	*TM Benzo (a) pyrene	1.452	1.236	15	*TM
27	TM Dibenz (a,h) anthracene	1.501	1.275	15	TM
28	TM Benzo (g,h,i) perylene	1.383	1.204	13	TM
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					

Average

17.7

Data File : M:\YODA\DATA\Y190717P\0717Y303.D
 Acq On : 30 Jul 19 22:42
 Sample : 5.0 SIM 07/10/19 (2)
 Misc :

Vial: 3
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 31 8:32 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.52	136	70226	2.50000	ppb	-0.06
7) Acenaphthene-D10 (IS)	6.66	164	37941	2.50000	ppb	-0.06
12) Phenanthrene-D10 (IS)	8.43	188	77708	2.50000	ppb	-0.06
17) Chrysene-D12 (IS)	11.68	240	109277	2.50000	ppb	-0.11
23) Perylene-D12 (IS)	14.21	264	118202	2.50000	ppb	-0.11
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.59	82	23285	3.20405	ppb	-0.11
Spiked Amount	5.000		Recovery	=	64.080%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	104138	3.21582	ppb	-0.05
Spiked Amount	5.000		Recovery	=	64.320%	
8) Surrogate Recovery (FBP)	5.87	172	71612	3.26945	ppb	-0.08
Spiked Amount	5.000		Recovery	=	65.380%	
15) Fluoranthene-D10 (FRT)	9.81	212	128491	3.68430	ppb	-0.06
Spiked Amount	5.000		Recovery	=	73.680%	
19) Surrogate Recovery (TPH)	10.27	244	140087	3.36759	ppb	-0.05
Spiked Amount	5.000		Recovery	=	67.360%	
Target Compounds						
3) Naphthalene	4.54	128	173057	4.60898	ppb	99
5) 2-Methylnaphthalene	5.43	142	115900	5.15525	ppb	98
6) 1-Methylnaphthalene	5.54	142	117053	4.23761	ppb	95
9) Acenaphthylene	6.50	152	441236	6.56649	ppb	# 84
10) Acenaphthene	6.70	154	113125	4.39409	ppb	95
11) Fluorene	7.31	166	143700	5.09526	ppb	96
13) Phenanthrene	8.44	178	205045	4.43780	ppb	99
14) Anthracene	8.51	178	200059	5.13359	ppb	99
16) Fluoranthene	9.82	202	294404	5.10092	ppb	95
18) Pyrene	10.09	202	295443	3.86948	ppb	91
20) Benz (a) anthracene	11.65	228	290825	4.40252	ppb	99
21) Chrysene	11.72	228	271809	3.69787	ppb	# 89
22) Indeno (1,2,3-cd) pyrene	15.82	276	350479	4.65148	ppb	# 89
24) Benzo (b) fluoranthene	13.60	252	291382	3.73056	ppb	99
25) Benzo (k) fluoranthene	13.64	252	327012	4.25888	ppb	97
26) Benzo (a) pyrene	14.12	252	292283	4.25755	ppb	98
27) Dibenz (a,h) anthracene	15.83	278	301434	4.24729	ppb	94
28) Benzo (g,h,i) perylene	16.29	276	284654	4.35285	ppb	97

(#) = qualifier out of range (m) = manual integration
 0717Y303.D Y0717P.M Wed Jul 31 08:34:06 2019

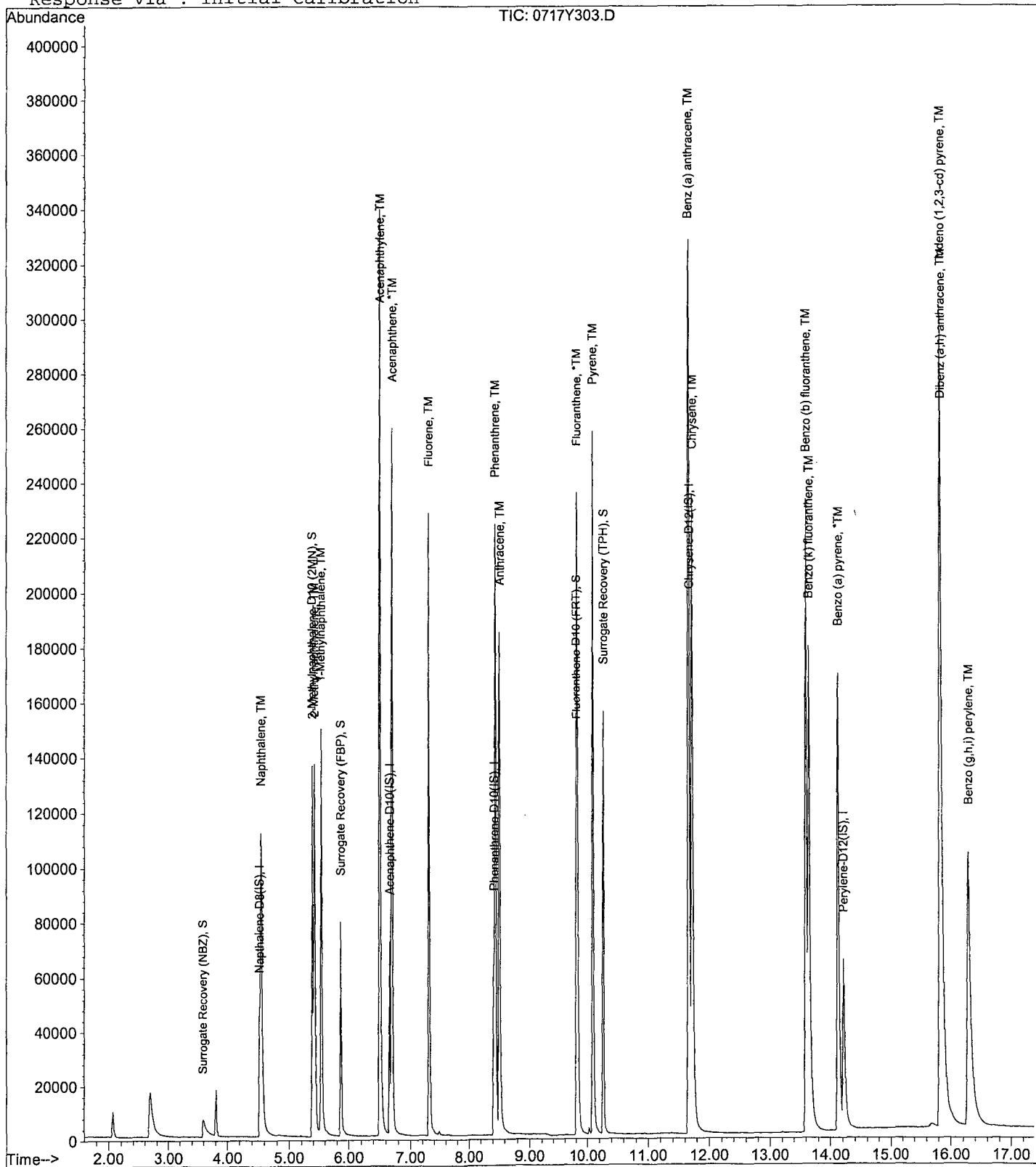
Data File : M:\YODA\DATA\Y190717P\0717Y303.D
Acq On : 30 Jul 19 22:42
Sample : 5.0 SIM 07/10/19 (2)
Misc :

Vial: 3
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 31 8:32 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



ORGANICS
Raw Data

Data File : M:\YODA\DATA\Y190717P\0717Y279.D Vial: 79
 Acq On : 30 Jul 19 13:03 Operator: MA, SS
 Sample : AZ95187W14 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Jul 30 13:23 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	4.52	136	77564	2.50000	ppb	-0.07
7) Acenaphthene-D10 (IS)	6.66	164	42587	2.50000	ppb	-0.07
12) Phenanthrene-D10 (IS)	8.42	188	91490	2.50000	ppb	-0.07
17) Chrysene-D12 (IS)	11.69	240	125737	2.50000	ppb	-0.10
23) Perylene-D12 (IS)	14.21	264	114613	2.50000	ppb	-0.11
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	0.00	82	0	0.00000	ppb	
Spiked Amount	6.250		Recovery	=	0.000%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	174748	6.10720	ppb	-0.05
Spiked Amount	6.250		Recovery	=	97.712%	
8) Surrogate Recovery (FBP)	5.86	172	1834409	93.26660	ppb	-0.09
Spiked Amount	6.250		Recovery	=	1492.272%	
15) Fluoranthene-D10 (FRT)	9.80	212	223137	6.79292	ppb	-0.07
Spiked Amount	6.250		Recovery	=	108.688%	
19) Surrogate Recovery (TPH)	10.26	244	3108881	81.18973	ppb	-0.06
Spiked Amount	6.250		Recovery	=	1299.040%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

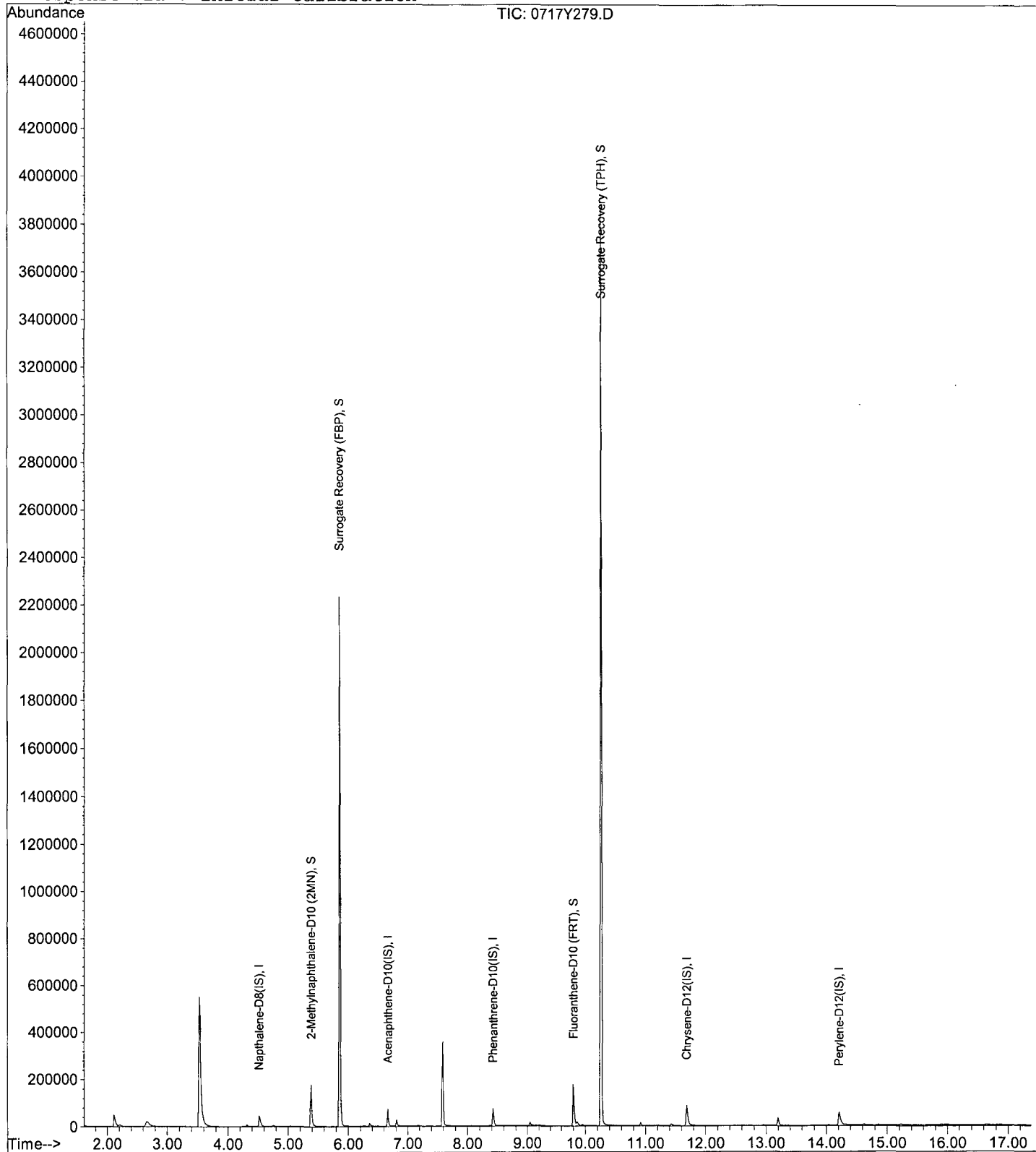
Data File : M:\YODA\DATA\Y190717P\0717Y279.D
Acq On : 30 Jul 19 13:03
Sample : AZ95187W14 1/800
Misc :

Vial: 79
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 30 13:23 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y277.D Vial: 77
 Acq On : 30 Jul 19 12:17 Operator: MA,SS
 Sample : AZ95189W26 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Jul 30 13:21 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	4.53	136	79138	2.50000	ppb	-0.05
7) Acenaphthene-D10 (IS)	6.67	164	44395	2.50000	ppb	-0.06
12) Phenanthrene-D10 (IS)	8.43	188	89657	2.50000	ppb	-0.06
17) Chrysene-D12 (IS)	11.69	240	126993	2.50000	ppb	-0.10
23) Perylene-D12 (IS)	14.21	264	131345	2.50000	ppb	-0.11
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	0.00	82	0	0.00000	ppb	
Spiked Amount	6.250		Recovery	=	0.000%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	184335	6.31412	ppb	-0.05
Spiked Amount	6.250		Recovery	=	101.024%	
8) Surrogate Recovery (FBP)	5.87	172	1906296	92.97438	ppb	-0.07
Spiked Amount	6.250		Recovery	=	1487.584%	
15) Fluoranthene-D10 (FRT)	9.81	212	229634	7.13362	ppb	-0.06
Spiked Amount	6.250		Recovery	=	114.144%	
19) Surrogate Recovery (TPH)	10.27	244	3013431	77.91868	ppb	-0.05
Spiked Amount	6.250		Recovery	=	1246.704%	

Target Compounds Qvalue

Quantitation Report

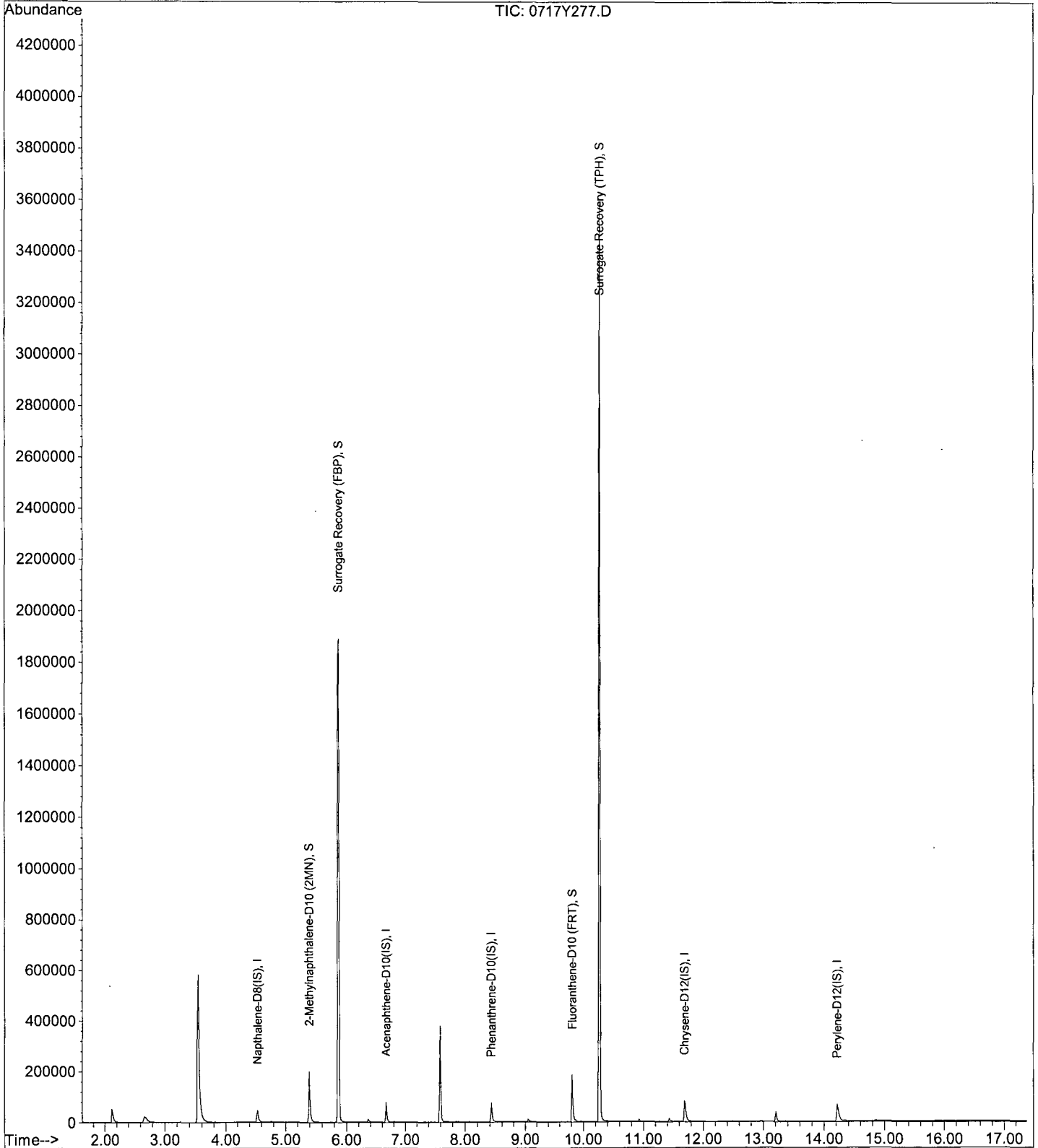
Data File : M:\YODA\DATA\Y190717P\0717Y277.D
Acq On : 30 Jul 19 12:17
Sample : AZ95189W26 1/800
Misc :

Vial: 77
Operator: MA, SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 30 13:21 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y278.D Vial: 78
 Acq On : 30 Jul 19 12:40 Operator: MA,SS
 Sample : AZ95190W07 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Jul 30 13:22 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	4.52	136	76476	2.50000	ppb	-0.07
7) Acenaphthene-D10 (IS)	6.66	164	42642	2.50000	ppb	-0.07
12) Phenanthrene-D10 (IS)	8.42	188	88846	2.50000	ppb	-0.07
17) Chrysene-D12 (IS)	11.69	240	123087	2.50000	ppb	-0.10
23) Perylene-D12 (IS)	14.21	264	129727	2.50000	ppb	-0.11
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	0.00	82	0	0.00000	ppb	
Spiked Amount	6.250		Recovery	=	0.000%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	185123	6.56183	ppb	-0.05
Spiked Amount	6.250		Recovery	=	104.992%	
8) Surrogate Recovery (FBP)	5.86	172	1881838	95.55462	ppb	-0.09
Spiked Amount	6.250		Recovery	=	1528.880%	
15) Fluoranthene-D10 (FRT)	9.80	212	233575	7.32229	ppb	-0.07
Spiked Amount	6.250		Recovery	=	117.152%	
19) Surrogate Recovery (TPH)	10.26	244	3147202	83.96002	ppb	-0.06
Spiked Amount	6.250		Recovery	=	1343.360%	

Target Compounds Qvalue

Quantitation Report

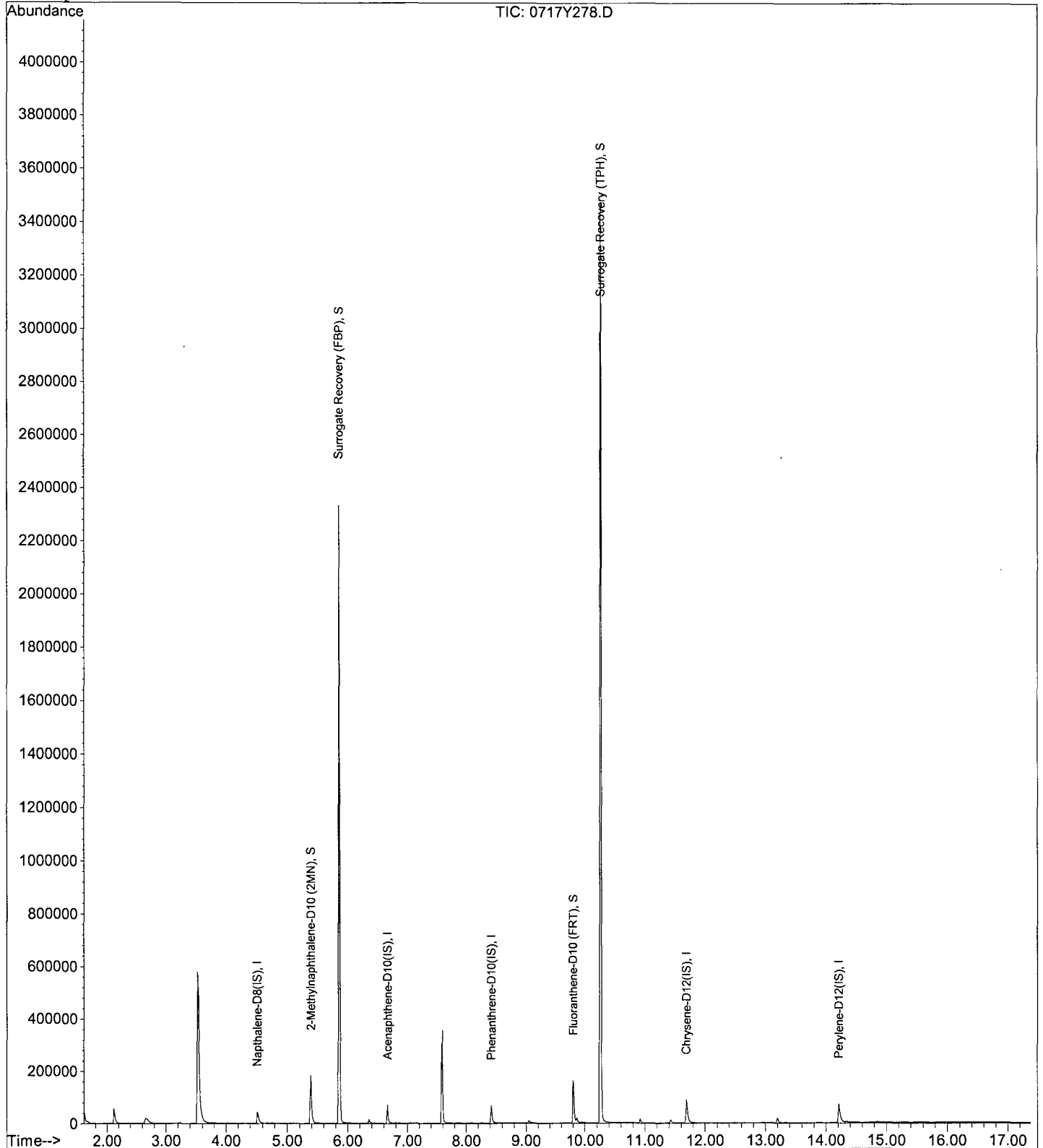
Data File : M:\YODA\DATA\Y190717P\0717Y278.D
Acq On : 30 Jul 19 12:40
Sample : AZ95190W07 1/800
Misc :

Vial: 78
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 30 13:22 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y190717P\0717Y273.D Vial: 73
 Acq On : 30 Jul 19 10:34 Operator: MA,SS
 Sample : 190725A BLK 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Jul 30 10:40 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	4.53	136	72894	2.50000	ppb	-0.05
7) Acenaphthene-D10 (IS)	6.66	164	40606	2.50000	ppb	-0.07
12) Phenanthrene-D10 (IS)	8.42	188	83470	2.50000	ppb	-0.07
17) Chrysene-D12 (IS)	11.70	240	119346	2.50000	ppb	-0.09
23) Perylene-D12 (IS)	14.22	264	121130	2.50000	ppb	-0.10
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	0.00	82	0	0.00000	ppb	
Spiked Amount	6.250					
			Recovery	=	0.000%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	167613	6.23313	ppb	-0.05
Spiked Amount	6.250					
			Recovery	=	99.728%	
8) Surrogate Recovery (FBP)	5.87	172	1755827	93.62645	ppb	-0.08
Spiked Amount	6.250					
			Recovery	=	1498.016%	
15) Fluoranthene-D10 (FRT)	9.81	212	221115	7.37813	ppb	-0.06
Spiked Amount	6.250					
			Recovery	=	118.048%	
19) Surrogate Recovery (TPH)	10.27	244	2964542	81.56613	ppb	-0.05
Spiked Amount	6.250					
			Recovery	=	1305.056%	

Target Compounds Qvalue

Quantitation Report

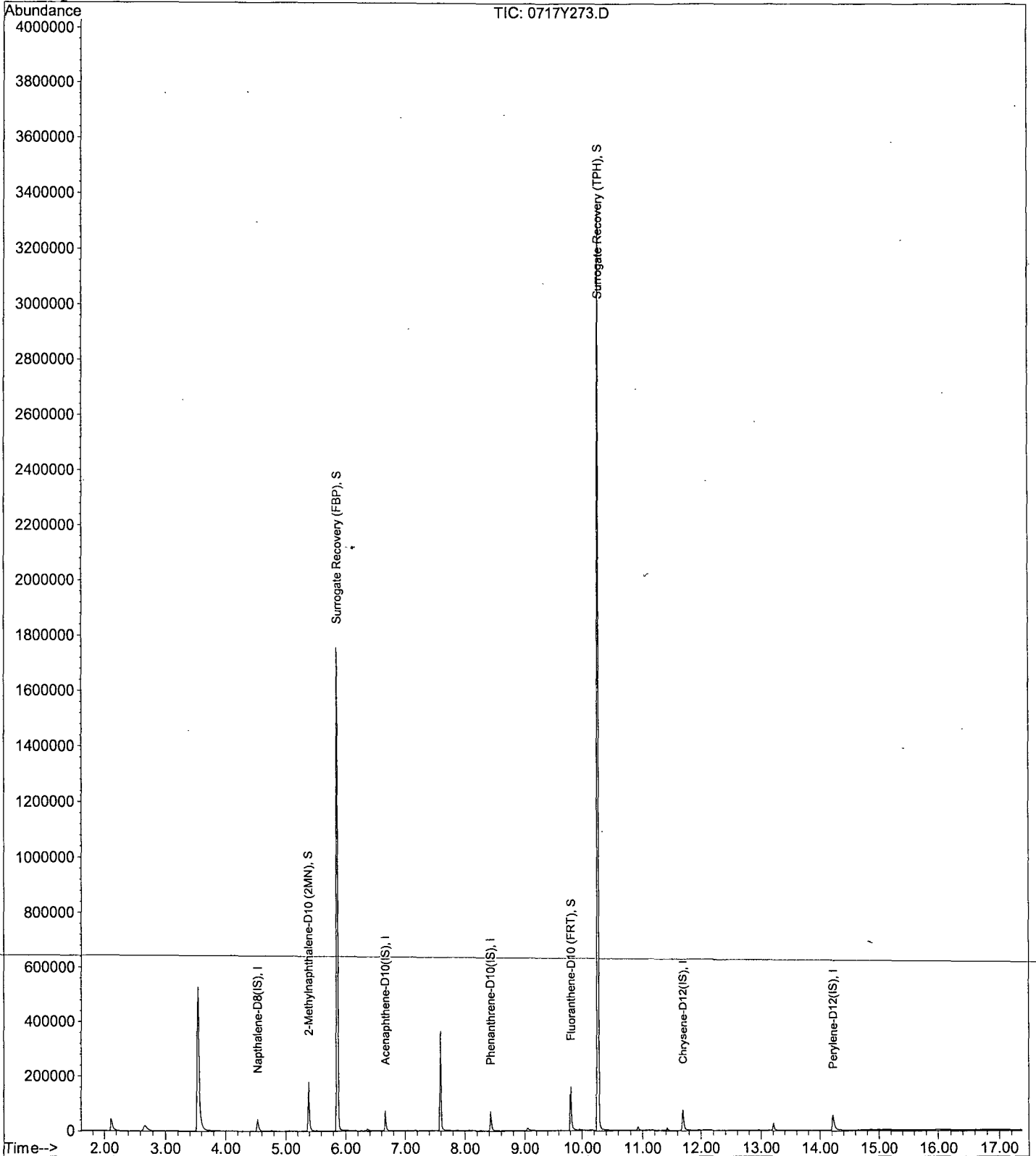
Data File : M:\YODA\DATA\Y190717P\0717Y273.D
Acq On : 30 Jul 19 10:34
Sample : 190725A BLK 1/800
Misc :

Vial: 73
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 30 10:40 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y280.D Vial: 80
 Acq On : 30 Jul 19 13:27 Operator: MA,SS
 Sample : 190725A LCS-2 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Jul 30 14:04 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.52	136	69733	2.50000	ppb	-0.06
7) Acenaphthene-D10 (IS)	6.66	164	38363	2.50000	ppb	-0.06
12) Phenanthrene-D10 (IS)	8.42	188	87976	2.50000	ppb	-0.06
17) Chrysene-D12 (IS)	11.68	240	125618	2.50000	ppb	-0.11
23) Perylene-D12 (IS)	14.21	264	133560	2.50000	ppb	-0.11

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	3.68	82	935	0.91902	ppb	-0.03
Spiked Amount	6.250		Recovery	=	14.704%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	168983	6.56893	ppb	-0.05
Spiked Amount	6.250		Recovery	=	105.104%	
8) Surrogate Recovery (FBP)	5.88	172	2595	0.14646	ppb	-0.07
Spiked Amount	6.250		Recovery	=	2.336%	
15) Fluoranthene-D10 (FRT)	9.80	212	217008	6.87021	ppb	-0.07
Spiked Amount	6.250		Recovery	=	109.920%	
19) Surrogate Recovery (TPH)	10.27	244	19077	0.49868	ppb	-0.05
Spiked Amount	6.250		Recovery	=	7.984%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.54	128	134727	4.51690	ppb	99
5) 2-Methylnaphthalene	5.42	142	87032	4.87320	ppb	100
6) 1-Methylnaphthalene	5.54	142	87039	3.96663	ppb	94
9) Acenaphthylene	6.50	152	342851	6.30775	ppb	# 84
10) Acenaphthene	6.70	154	90619	4.35147	ppb	96
11) Fluorene	7.31	166	116068	5.08778	ppb	97
13) Phenanthrene	8.45	178	172570	4.12378	ppb	98
14) Anthracene	8.51	178	158270	4.48408	ppb	99
16) Fluoranthene	9.82	202	251732	4.81565	ppb	92
18) Pyrene	10.09	202	252791	3.60021	ppb	# 87
20) Benz (a) anthracene	11.66	228	246172	4.05224	ppb	99
21) Chrysene	11.72	228	242890	3.59322	ppb	# 89
22) Indeno (1,2,3-cd) pyrene	15.82	276	297492	4.29330	ppb	# 99
24) Benzo (b) fluoranthene	13.60	252	249065	3.55814	ppb	99
25) Benzo (k) fluoranthene	13.64	252	282887	4.07571	ppb	98
26) Benzo (a) pyrene	14.12	252	215739	3.47651	ppb	99
27) Dibenz (a,h) anthracene	15.83	278	262648	4.09404	ppb	# 94
28) Benzo (g,h,i) perylene	16.29	276	247631	4.18909	ppb	98

Quantitation Report

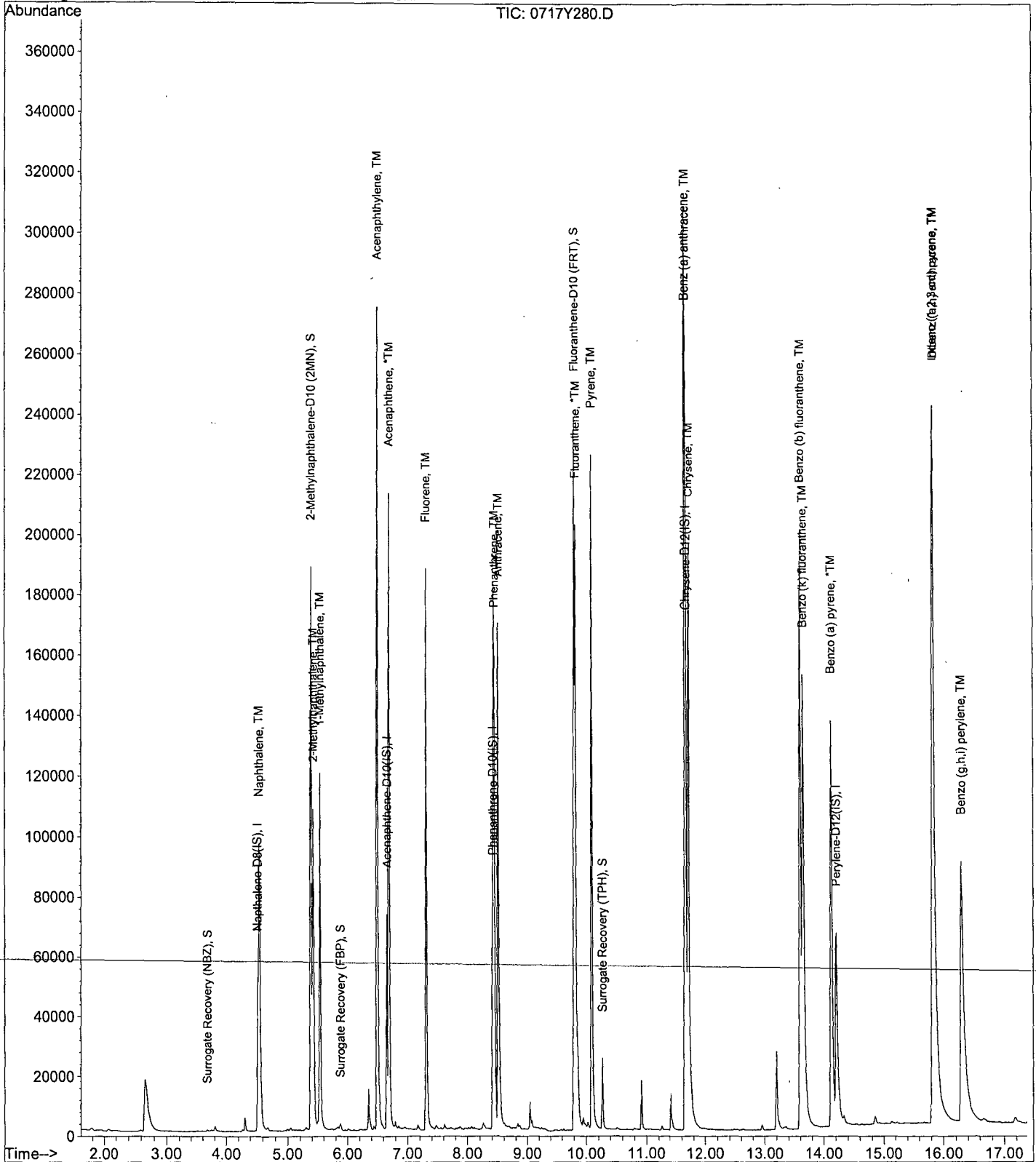
Data File : M:\YODA\DATA\Y190717P\0717Y280.D
 Acq On : 30 Jul 19 13:27
 Sample : 190725A LCS-2 1/800
 Misc :

Vial: 80
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Jul 30 14:04 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y281.D Vial: 81
 Acq On : 30 Jul 19 13:50 Operator: MA, SS
 Sample : 190725A LCSD-2 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Jul 30 14:05 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.52	136	75112	2.50000	ppb	-0.06
7) Acenaphthene-D10 (IS)	6.66	164	40135	2.50000	ppb	-0.06
12) Phenanthrene-D10 (IS)	8.41	188	93783	2.50000	ppb	-0.08
17) Chrysene-D12 (IS)	11.68	240	124961	2.50000	ppb	-0.11
23) Perylene-D12 (IS)	14.21	264	87220	2.50000	ppb	-0.11

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	3.66	82	603	0.86684	ppb	-0.04
Spiked Amount	6.250					
Recovery				=	13.872%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	172255	6.21659	ppb	-0.05
Spiked Amount	6.250					
Recovery				=	99.472%	
8) Surrogate Recovery (FBP)	5.88	172	824	0.04445	ppb	-0.06
Spiked Amount	6.250					
Recovery				=	0.704%	
15) Fluoranthene-D10 (FRT)	9.80	212	221118	6.56687	ppb	-0.08
Spiked Amount	6.250					
Recovery				=	105.072%	
19) Surrogate Recovery (TPH)	10.27	244	6857	0.18019	ppb	-0.05
Spiked Amount	6.250					
Recovery				=	2.880%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.54	128	136624	4.25247	ppb	99
5) 2-Methylnaphthalene	5.42	142	89946	4.67570	ppb	98
6) 1-Methylnaphthalene	5.54	142	88656	3.75098	ppb	96
9) Acenaphthylene	6.50	152	261057	4.59085	ppb	# 84
10) Acenaphthene	6.70	154	85860	3.94092	ppb	96
11) Fluorene	7.31	166	118485	4.96442	ppb	96
13) Phenanthrene	8.44	178	176351	3.95319	ppb	100
14) Anthracene	8.51	178	125017	3.32264	ppb	99
16) Fluoranthene	9.82	202	251750	4.51779	ppb	91
18) Pyrene	10.09	202	233703	3.34586	ppb	# 89
20) Benz (a) anthracene	11.65	228	228187	3.77594	ppb	99
21) Chrysene	11.72	228	242207	3.60196	ppb	# 89
22) Indeno (1,2,3-cd) pyrene	15.83	276	284266	4.12399	ppb	# 88
24) Benzo (b) fluoranthene	13.60	252	248938	5.37932	ppb	99
25) Benzo (k) fluoranthene	13.64	252	271045	5.97987	ppb	98
26) Benzo (a) pyrene	14.12	252	156855	3.87056	ppb	98
27) Dibenzo (a,h) anthracene	15.83	278	256825	6.13022	ppb	95
28) Benzo (g,h,i) perylene	16.29	276	225706	5.84680	ppb	100

Quantitation Report

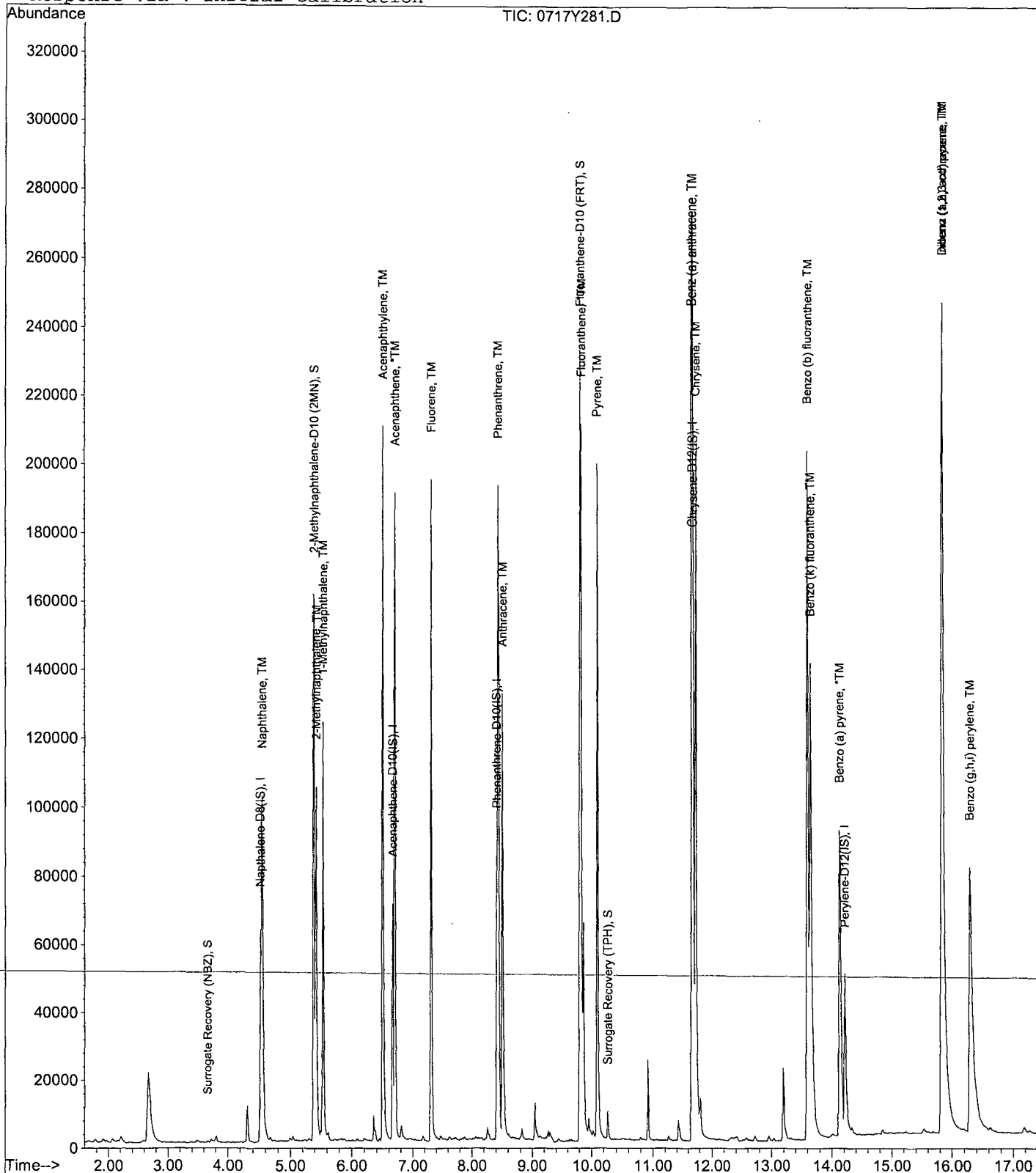
Data File : M:\YODA\DATA\Y190717P\0717Y281.D
Acq On : 30 Jul 19 13:50
Sample : 190725A LCSD-2 1/800
Misc :

Vial: 81
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 30 14:05 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y282.D Vial: 82
 Acq On : 30 Jul 19 14:13 Operator: MA,SS
 Sample : AZ95189W27 MS-2 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Jul 30 14:38 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

1) Naphthalene-D8(IS)	4.52	136	73796	2.50000	ppb	-0.06
7) Acenaphthene-D10(IS)	6.66	164	39692	2.50000	ppb	-0.06
12) Phenanthrene-D10(IS)	8.41	188	87469	2.50000	ppb	-0.08
17) Chrysene-D12(IS)	11.68	240	120068	2.50000	ppb	-0.11
23) Perylene-D12(IS)	14.21	264	126712	2.50000	ppb	-0.11
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.66	82	575	0.86455	ppb	-0.04
Spiked Amount	6.250		Recovery	=	13.840%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	181853	6.68002	ppb	-0.05
Spiked Amount	6.250		Recovery	=	106.880%	
8) Surrogate Recovery (FBP)	5.85	172	367	0.02002	ppb	-0.10
Spiked Amount	6.250		Recovery	=	0.320%	
15) Fluoranthene-D10 (FRT)	9.80	212	223991	7.13238	ppb	-0.07
Spiked Amount	6.250		Recovery	=	114.112%	
19) Surrogate Recovery (TPH)	10.28	244	803	0.02196	ppb	-0.04
Spiked Amount	6.250		Recovery	=	0.352%	
Target Compounds						Qvalue
3) Naphthalene	4.54	128	142793	4.52374	ppb	99
5) 2-Methylnaphthalene	5.42	142	94595	5.00506	ppb	99
6) 1-Methylnaphthalene	5.54	142	93403	4.02230	ppb	96
9) Acenaphthylene	6.50	152	350271	6.22849	ppb	# 84
10) Acenaphthene	6.70	154	94190	4.37151	ppb	96
11) Fluorene	7.31	166	119138	5.04749	ppb	96
13) Phenanthrene	8.44	178	175241	4.21188	ppb	99
14) Anthracene	8.51	178	159710	4.55110	ppb	99
16) Fluoranthene	9.82	202	251565	4.84035	ppb	92
18) Pyrene	10.09	202	253597	3.77863	ppb	# 87
20) Benz (a) anthracene	11.66	228	246924	4.25250	ppb	99
21) Chrysene	11.72	228	247349	3.82833	ppb	# 89
22) Indeno (1,2,3-cd) pyrene	15.82	276	298496	4.50691	ppb	95
24) Benzo (b) fluoranthene	13.60	252	253153	3.80305	ppb	99
25) Benzo (k) fluoranthene	13.64	252	285418	4.33441	ppb	98
26) Benzo (a) pyrene	14.12	252	218060	3.70382	ppb	98
27) Dibenz (a,h) anthracene	15.83	278	263386	4.32742	ppb	95
28) Benzo (g,h,i) perylene	16.29	276	247520	4.41351	ppb	98

Quantitation Report

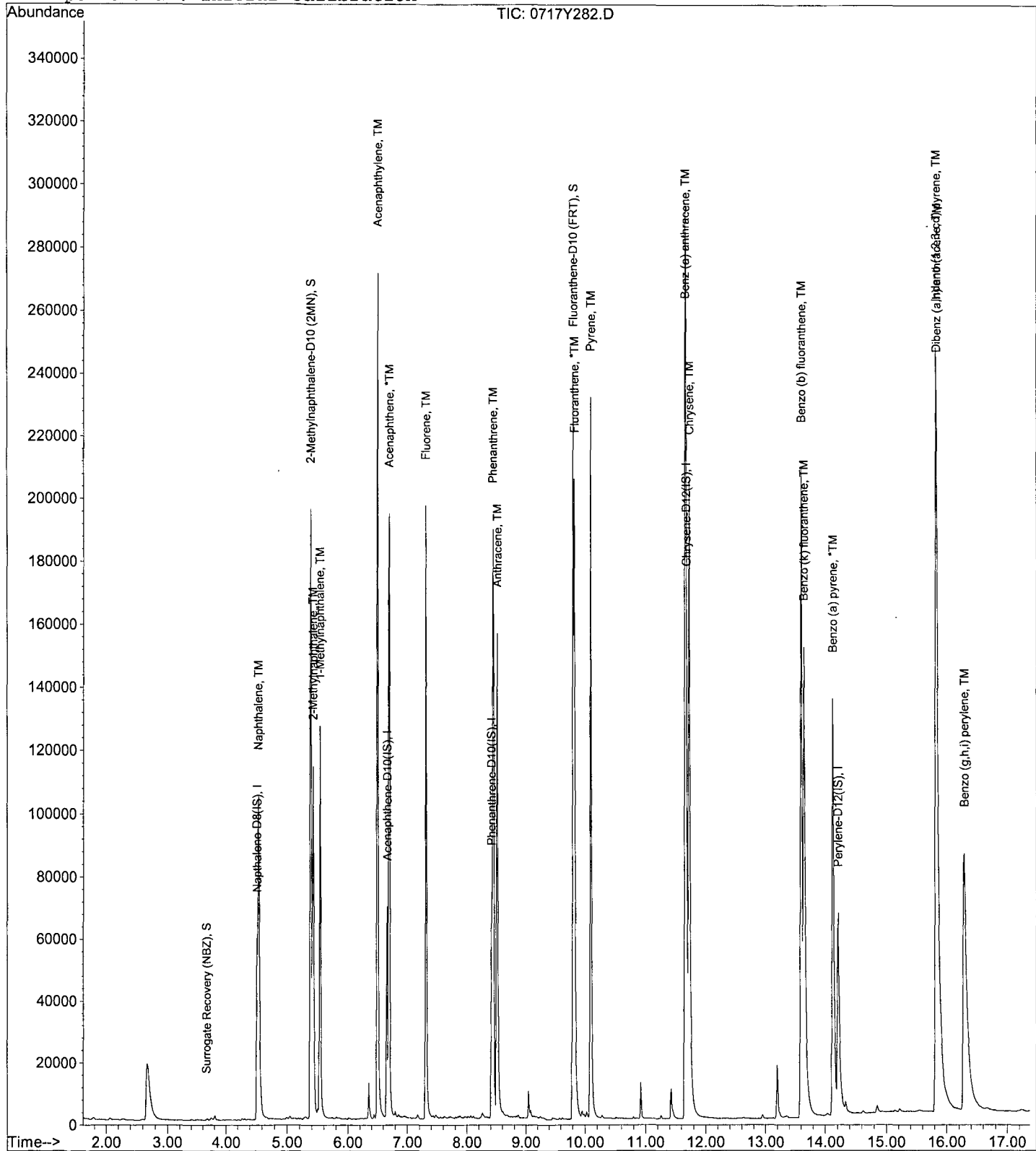
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Acq On : 30 Jul 19 14:13
Sample : AZ95189W27 MS-2 1/800
Misc :

Vial: 82
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 30 14:38 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y283.D
 Acq On : 30 Jul 19 14:37
 Sample : AZ95189W30 MSD-2 1/800
 Misc :

Vial: 83
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Jul 30 14:50 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.52	136	76637	2.50000	ppb	-0.07
7) Acenaphthene-D10 (IS)	6.66	164	41434	2.50000	ppb	-0.07
12) Phenanthrene-D10 (IS)	8.42	188	88361	2.50000	ppb	-0.07
17) Chrysene-D12 (IS)	11.68	240	124443	2.50000	ppb	-0.11
23) Perylene-D12 (IS)	14.21	264	133404	2.50000	ppb	-0.11
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.68	82	1327	0.95692	ppb	-0.03
Spiked Amount	6.250		Recovery	=	15.312%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	177785	6.28849	ppb	-0.05
Spiked Amount	6.250		Recovery	=	100.608%	
8) Surrogate Recovery (FBP)	5.86	172	266	0.01390	ppb	-0.09
Spiked Amount	6.250		Recovery	=	0.224%	
15) Fluoranthene-D10 (FRT)	9.80	212	223689	7.05086	ppb	-0.07
Spiked Amount	6.250		Recovery	=	112.816%	
19) Surrogate Recovery (TPH)	10.28	244	821	0.02166	ppb	-0.04
Spiked Amount	6.250		Recovery	=	0.352%	
Target Compounds						
3) Naphthalene	4.54	128	143959	4.39161	ppb	99
5) 2-Methylnaphthalene	5.42	142	95517	4.86649	ppb	99
6) 1-Methylnaphthalene	5.54	142	95269	3.95056	ppb	95
9) Acenaphthylene	6.50	152	356706	6.07624	ppb	# 84
10) Acenaphthene	6.70	154	93557	4.15957	ppb	95
11) Fluorene	7.31	166	123131	4.99734	ppb	96
13) Phenanthrene	8.45	178	176598	4.20165	ppb	98
14) Anthracene	8.51	178	160096	4.51605	ppb	99
16) Fluoranthene	9.82	202	256203	4.87983	ppb	92
18) Pyrene	10.09	202	260904	3.75083	ppb	# 87
20) Benz (a) anthracene	11.66	228	250315	4.15934	ppb	100
21) Chrysene	11.72	228	250523	3.74114	ppb	# 89
22) Indeno (1,2,3-cd) pyrene	15.82	276	304527	4.43632	ppb	# 95
24) Benzo (b) fluoranthene	13.60	252	248195	3.55015	ppb	100
25) Benzo (k) fluoranthene	13.64	252	289692	4.17863	ppb	98
26) Benzo (a) pyrene	14.12	252	227863	3.67618	ppb	98
27) Dibenz (a,h) anthracene	15.83	278	269796	4.21038	ppb	# 94
28) Benzo (g,h,i) perylene	16.29	276	253460	4.29271	ppb	97

Quantitation Report

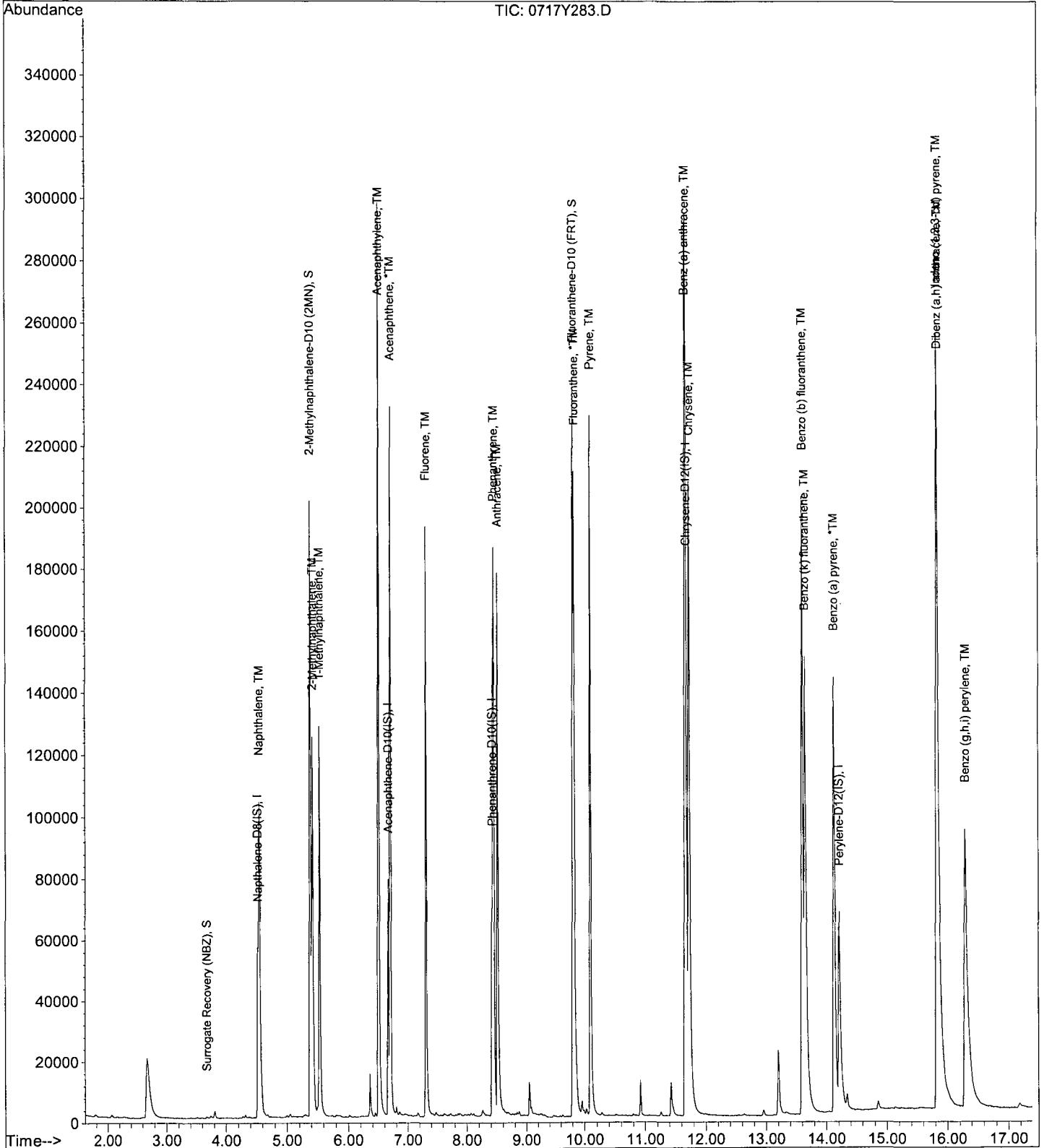
Data File : M:\YODA\DATA\Y190717P\0717Y283.D
Acq On : 30 Jul 19 14:37
Sample : AZ95189W30 MSD-2 1/800
Misc :

Vial: 83
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 30 14:50 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



Data File Name: 0717Y002.D
Data File Path: M:\YODA\DATA\Y190717P\
Operator: MA,SS
Date Acquired: 17 Jul 2019 09:34
Method File: DFTPP2.M
Sample Name: SV TUNE 07/11/19
Vial Number: 2
Instrument Name: Yoda

#	Name	Ret Time	Target Response
1)	DDT	6.94	53172800
2)	DDD	6.71	294434
3)	DDE	6.80	131871

Breakdown 0.80

Data File Name: 0717Y271.D
Data File Path: M:\YODA\DATA\Y190717P\
Operator: MA,SS
Date Acquired: 30 Jul 2019 09:50
Method File: DFTPP2.M
Sample Name: SV TUNE 7/11/19
Vial Number: 71
Instrument Name: Yoda

#	Name	Ret Time	Target Response
1)	DDT	6.84	30299500
2)	DDD	6.63	147951
3)	DDE	6.69	0

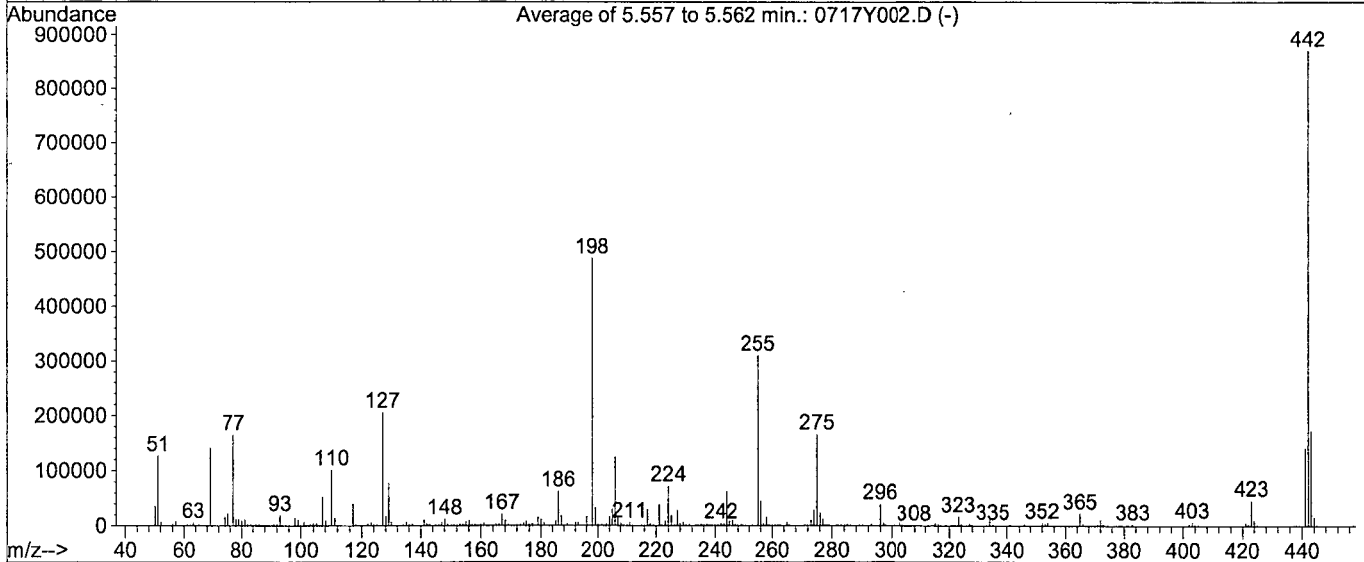
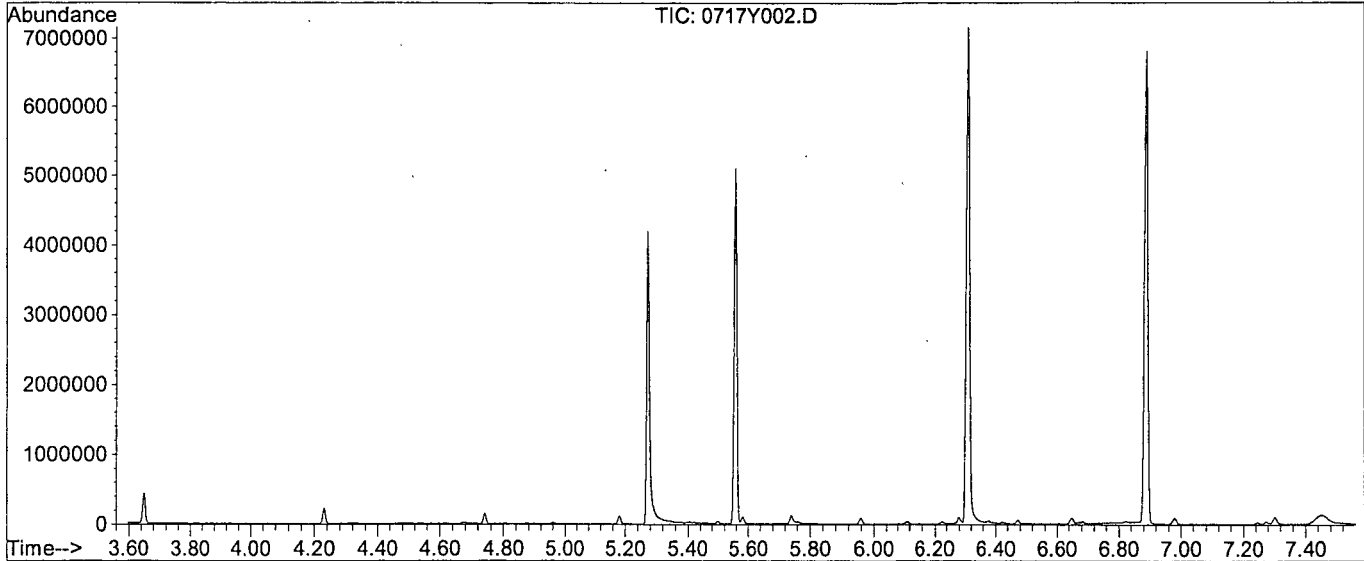
Breakdown 0.49

DFTPP

Data File : M:\YODA\DATA\Y190717P\0717Y002.D
 Acq On : 17 Jul 19 9:34
 Sample : SV TUNE 07/11/19
 Misc :

Vial: 2
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Method : M:\YODA\DATA\Y190717P\DFTPP2.M (Chemstation Integrator)
 Title :



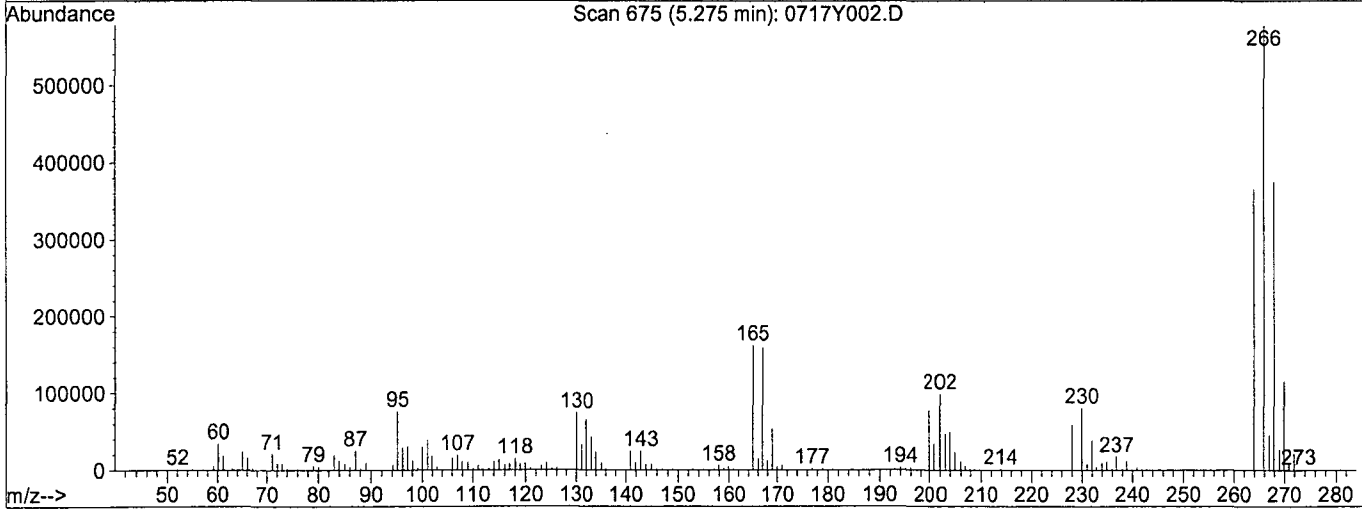
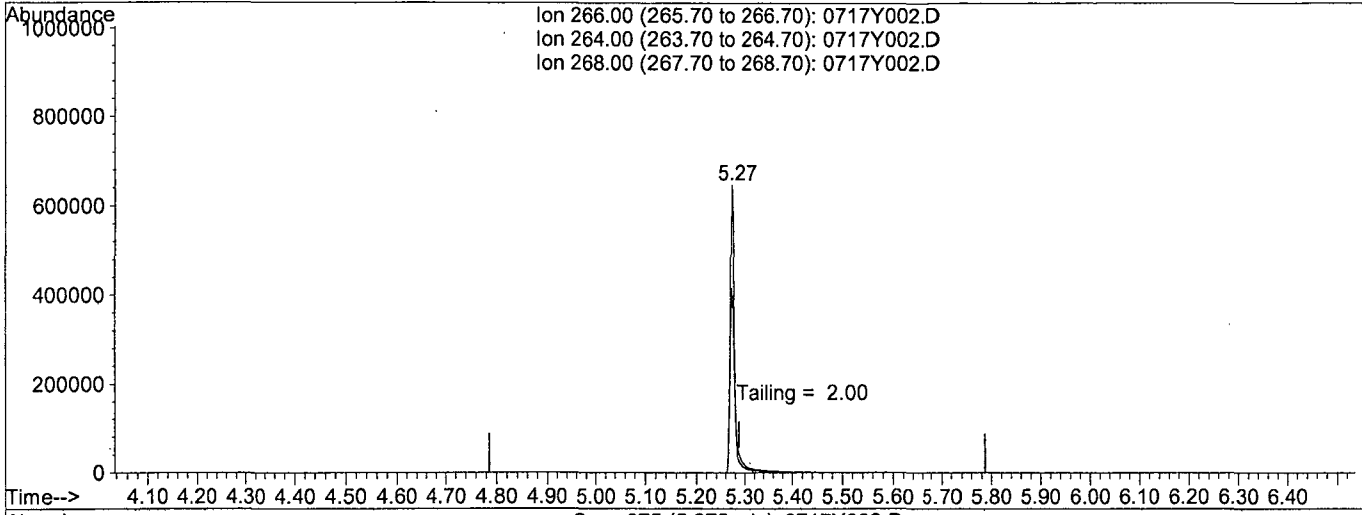
Spectrum Information: Average of 5.557 to 5.562 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	25.9	126393	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.5	670	PASS
127	198	10	80	42.1	205333	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	487445	PASS
199	198	5	9	6.7	32565	PASS
275	198	10	60	34.0	165504	PASS
365	198	1	100	4.6	22304	PASS
441	442	0.01	24	16.2	141016	PASS
442	198	50	500	178.7	870955	PASS
443	442	17	23	19.8	172459	PASS

Quantitation Report

Data File : M:\YODA\DATA\Y190717P\0717Y002.D Vial: 2
 Acq On : 17 Jul 19 9:34 Operator: MA,SS
 Sample : SV TUNE 07/11/19 Inst : Yoda
 Misc : Multiplr: 1.00
 Quant Time: Jul 17 9:31 2019 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190717P\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Thu Jul 04 10:59:55 2019
 Response via : Single Level Calibration



TIC: 0717Y002.D

(5) Pentachlorophenol

5.27min 0.0000

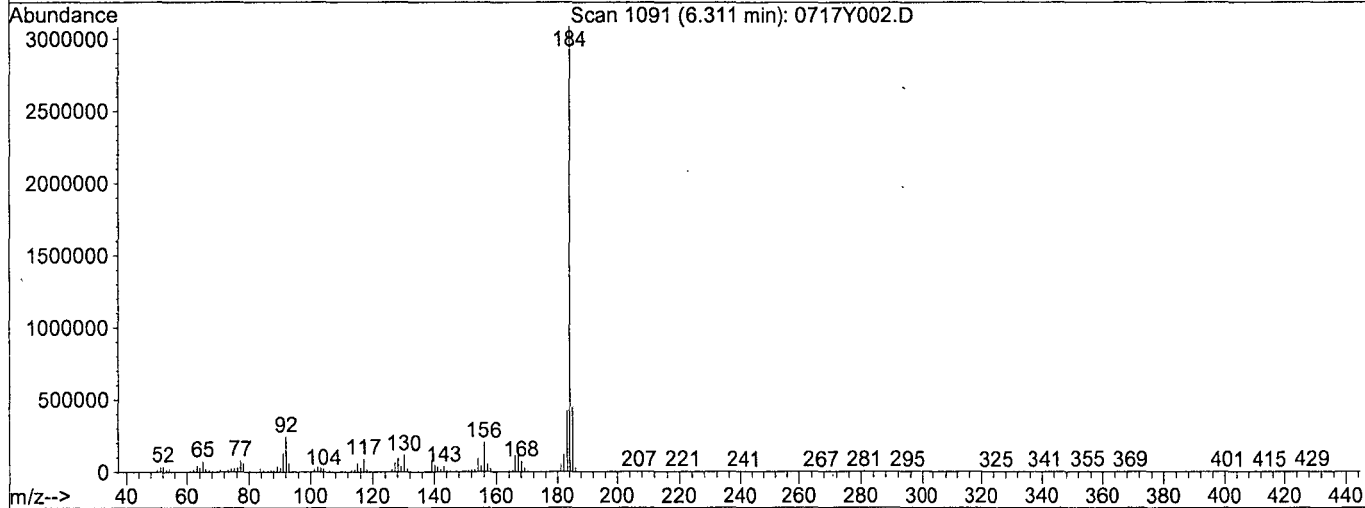
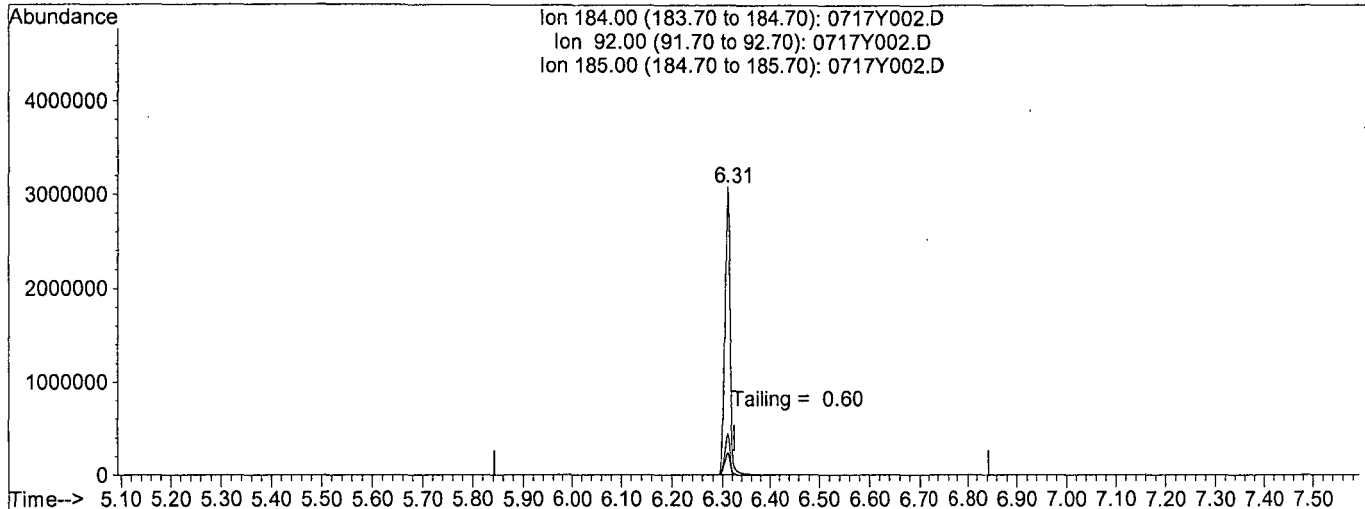
response 4357739

Ion	Exp%	Act%
266.00	100	100
264.00	58.70	62.68
268.00	59.20	62.80
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190717P\0717Y002.D Vial: 2
 Acq On : 17 Jul 19 9:34 Operator: MA,SS
 Sample : SV TUNE 07/11/19 Inst : Yoda
 Misc : Multiplr: 1.00
 Quant Time: Jul 17 9:31 2019 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190717P\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Thu Jul 04 10:59:55 2019
 Response via : Single Level Calibration



TIC: 0717Y002.D

(6) Benzidine

6.31min 0.0000

response 23796780

Ion	Exp%	Act%
184.00	100	100
92.00	6.60	8.03
185.00	14.60	14.63
0.00	0.00	0.00

Name of Final Standard SIM Curve
 Prep Date 07/10/19
 Exp Date 12/28/19

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
1.0 ug/mL SIM	Phenova	1.0 ug/mL SIM	1.0 ug/mL	07/10/19	12/28/19	10 uL	100uL	MC 56258 90uL	0.1 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	2 uL			2.5ug/mL
1.0 ug/mL SIM	Phenova	1.0 ug/mL SIM	1.0 ug/mL	07/10/19	12/28/19	20 uL	100uL	MC 56258 80uL	0.2 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	2 uL			2.5ug/mL
5.0 ug/mL SIM	Phenova	5.0 ug/mL SIM	5.0 ug/mL	07/10/19	12/28/19	10 uL	100uL	MC 56258 90uL	0.5 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	2 uL			2.5ug/mL
5.0 ug/mL SIM	APPL	5.0 ug/mL SIM	5.0 ug/mL	07/10/19	12/28/19	20 uL	100uL	MC 56258 80 uL	1.0 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	2 uL			2.5ug/mL
PAH SIM STOCK	Phenova	PAH SIM STOCK	200 ug/mL	12/28/18	12/28/19	5 uL	200uL	MC 56258 190 uL	5.0 ug/mL
Sim 2S Surrogate	Restek	SIM 2S SURR.	100 ug/mL	05/17/19	01/24/20	5 uL			2.5 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	4 uL			2.5ug/mL
PAH SIM STOCK	Phenova	PAH SIM STOCK	200 ug/mL	12/28/18	12/28/19	5 uL	100 uL	MC 56258 90 uL	10 ug/mL
Sim 2S Surrogate	APPL	SIM 2S SURR.	100 ug/mL	05/17/19	01/24/20	5 uL			5 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	2 uL			2.5ug/mL
PAH SIM STOCK	Phenova	PAH SIM STOCK	200 ug/mL	12/28/18	12/28/19	25 uL	100uL	MC 56258 50 uL	50 ug/mL
Sim 2S Surrogate	Restek	SIM 2S SURR.	100 ug/mL	05/17/19	01/24/20	25 uL			25 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	2 uL			2.5ug/mL
PAH SIM STOCK	Phenova	PAH SIM STOCK	200 ug/mL	12/28/18	12/28/19	50 uL	100uL	na	100ug/mL
Sim 2S Surrogate	Restek	SIM 2S SURR.	100 ug/mL	05/17/19	01/24/20	50 uL			50 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	2 uL			2.5ug/mL

Name of Final Standard 8270 PAH SIM Second Source
 Prep Date 07/10/19
 Exp Date 12/28/19

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N#(or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
PAH SIM SS Stock	Phenova	AL0-130490	200 ug/mL	12/28/18	12/28/19	5 uL	200uL	MC 56258 195uL	5 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	4 uL			2.5ug/mL

Name of Final Standard PAH SIM Stock (Ampule)
 Prep Date 12/28/18
 Exp Date 12/28/19

Prep'd By (I) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA #	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot#	Final Standard Conc (range)
				(or reference to APPL prep date)				(or APPL Prep Date)	
Custom PAH SIM Mix	Phenova	AL0-130490	200 ug/mL	CL13117-40078	12/28/19	1000 uL	1mL	NA	200ug/mL

Name of Final Standard PAH SIM 2nd Source Stock (Ampule)
 Prep Date 12/28/18
 Exp Date 12/28/19

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA #	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot#	Final Standard Conc (range)
				(or reference to APPL prep date)				(or APPL Prep Date)	
Custom PAH SIM Mix	Phenova	AL0-130490	200 ug/mL	CL13121 - 40082	12/28/19	1 mL	na	na	200 ug/mL

Name of Final
Standard

SIM 2S Surrogate

Prep'd By (Initials)

GA

Prep Date **05/17/19**

Exp Date **01/24/20**

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
SIM Surrogate Mix	Restek	33913	2000 ug/mL	A0137718 - 39318	01/24/20	250 uL	5 mL	Acetone #030817A	100 ug/mL
8270 B/N surrog mix	Restek	31086	5000 ug/mL	A0141697 - 40112	04/10/20	100 uL			

Name of Final Standard 8270 SIM PAH Internal Standard

Prep'd By (Initials) GA

Prep Date 07/10/19

Exp Date 07/10/20

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
SV Internal Standard	Restek	31206	2000 ug/mL	A0144261-40464	07/10/19	350 uL	5,600 uL	MC 56258 5,250 uL	125 ug/mL

Name of Final
Standard Semivolatile (SV) Tuning Solution
 Prep Date **07/11/19**
 Exp Date **09/30/19**

Prep'd By (Initials)

JP

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Semivolatile GC/MS Tuning Standard	Ultra Scientific	GCM-150-1	1,000 ug/mL	CR3789-38879	09/30/19	1,250 uL	25 mL	MC #58240	50 ug/mL

Name of Final Standard SIM Spike
 Prep Date 06/24/19
 Exp Date 06/24/20

Prep'd By (Initials) JP

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Custom PAH Sim Mix	Phenova	AL0-130490	200 ug/mL	CL13117 - 40080	12/31/22	1 mL	5 mL	Methanol	40 ug/mL

Name of Final Standard **SIM Surrogate**
 Prep Date **07/01/19**
 Exp Date **01/24/20**

Prep'd By (Initials) **GA**

Initial Standard Information					Final Standard Information				
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc. (range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Sim Surrogate Deuterated	Restek	33913	2000 ug/mL	A0137718-39318 A0145699-40667	01/24/20 07/01/20	1250 uL	25 mL	Acetone #1017171	100 ug/mL

Organic Extraction Worksheet

Method	Continuous Liquid/Liquid SVOC 3520C	Extraction Set	190725A	Extraction Method	LIQ003	Units	mL
Spiked ID 1	8270T Spike 6/19/19-12/19/19	Surrogate ID 1	8270 Surrogate 6/24/19-4/10/20				
Spiked ID 2	Sim Spike 7/8/19-7/8/20	Surrogate ID 2	SIM Surrogate 7/1/19-1/24/20				
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC: yes					
Spiked ID 7		Ext. Start Time: 07/25/19 12:30					
Spiked ID 8		Ext. End Time: 07/29/19 10:50					
		GC Requires Extract By: 07/30/19 0:00					
		pH1	2	07/25/19 15:00	Water Bath Temp 1 °C	75/74.2	EWB5 °
		pH2	14	07/26/19 9:25	Water Bath Temp 2 °C	75/74.9	EWB6
		pH3			Water Bath Temp 3 °C		

Spiked By: DL

Date 07/25/19

Witnessed By: CFM

Date 07/25/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1 190725A Blk				1,0.050	1,2	800	1	2/1	07/25/19 12:30	
					equip	e-hp51 e-wb5				
2 190725A LCS-1		1	1	1	1	800	1	2/1	07/25/19 12:30	
					equip	E-HP50 E-WB5				
3 190725A LCS-2		0.125	2	0.050	2	800	1	2/1	07/25/19 12:30	
					equip	E-HP48 E-WB5				
4 190725A LCSD-1		1	1	1	1	800	1	2/1	07/25/19 12:30	
					equip	E-HP49 E-WB5				
5 190725A LCSD-2		0.125	2	0.050	2	800	1	2/1	07/25/19 12:30	
					equip	E-HP47 E-WB5				
6 AZ95187	AZ95187W14			1,0.050	1,2	800	1	2/1	07/25/19 12:30	89570
					equip	E-HP25 E-WB5				
7 AZ95189 MS-1	AZ95189W24	1	1	1	1	800	1	2/1	07/25/19 12:30	
					equip	E-HP26 E-WB5				
8 AZ95189 MSD-1	AZ95189W31	1	1	1	1	800	1	2/1	07/25/19 12:30	
					equip	E-HP27 E-WB6				
9 AZ95189 MS-2	AZ95189W27	0.125	2	0.050	2	800	1	2/1	07/25/19 12:30	
					equip	E-HP28 E-WB6				
10 AZ95189 MSD-2	AZ95189W30	0.125	2	0.050	2	800	1	2/1	07/25/19 12:30	
					equip	E-HP29 E-WB6				
11 AZ95189	AZ95189W26			1,0.050	1,2	800	1	2/1	07/25/19 12:30	89570
					equip	E-HP30 E-WB5				
12 AZ95190	AZ95190W07			1,0.050	1,2	800	1	2/1	07/25/19 12:30	89570
					equip	E-HP17 E-WB6				
13 AZ95329	AZ95329W16			1,0.050	1,2	800	1	2/1	07/25/19 14:35	89593
					equip	E-HP16 E-WB6				
14 AZ95330	AZ95330W16			1,0.050	1,2	800	1	2/1	07/25/19 14:35	89593
					equip	E-HP15 E-WB6				
15 AZ95332	AZ95332W16			1,0.050	1,2	800	1	2/1	07/25/19 14:35	89593
					equip	E-HP14 E-WB6				
16 AZ95334	AZ95334W16			1,0.050	1,2	800	1	2/1	07/25/19 14:35	89593
					equip	E-HP13 E-WB6				

Solvent and Lot#	
PH Strips	HC863463
Dichloromethane (DCM)	58240
1+1 H2SO4	7/2/19
10N NaOH	7/16/19
Filter Paper	400163
Acidified Na2SO4	2/28/19
B. Na2SO4	2019010772

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	JP
Date	7/29/19
Time	11:40
Refrigerator	6C-C

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction Concentration	DL
Modified	07/29/19 5:43:13 PM

Reviewed By: *SS* Page 251 of 717 Date 7/29/19

Organic Extraction Worksheet

Method	Continuous Liquid/Liquid SVOC 3520C		Extraction Set	190725A	Extraction Method	LIQ003	Units	ml.
Spiked ID 1	8270T Spike 6/19/19-12/19/19		Surrogate ID 1	8270 Surrogate 6/24/19-4/10/20				
Spiked ID 2	Sim Spike 7/8/19-7/8/20		Surrogate ID 2	SIM Surrogate 7/1/19-1/24/20				
Spiked ID 3			Surrogate ID 3					
Spiked ID 4			Surrogate ID 4					
Spiked ID 5			Surrogate ID 5					
Spiked ID 6			Sufficient Vol for Matrix QC:		yes			
Spiked ID 7			Ext. Start Time:		07/25/19 12:30			
Spiked ID 8			Ext. End Time:		07/29/19 10:50			
			GC Requires Extract By:		07/30/19 0:00			
			pH1	2	07/25/19 15:00	Water Bath Temp 1 °C	75/74.2 EWB5 °	
			pH2	14	07/26/19 9:25	Water Bath Temp 2 °C	75/74.9 EWB6	
			pH3			Water Bath Temp 3 °C		

Spiked By: DL

Date 07/25/19

Witnessed By: CFM

Date 07/25/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
17 AZ95336	AZ95336W16			1,0.050	1,2	800	1	2/1	07/25/19 14:35	89593
						equip		E-HP12 E-WB6		
18 AZ95338	AZ95338W16			1,0.050	1,2	800	1	2/1	07/25/19 14:35	89593
						equip		E-HP11 e-wb6		

SS 7/29/19

Solvent and Lot#	
PH Strips	HC863463
Dichloromethane (DCM)	58240
1+1 H2SO4	7/2/19
10N NaOH	7/16/19
Filter Paper	400163
Acidified Na2SO4	2/28/19
B. Na2SO4	2019010772

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	
Date	
Time	
Refrigerator	

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	07/29/19 5:43:13 PM

Reviewed By: Page 252 of 717 Date
 Ext_ID 63649

Injection Log

Directory: M:\YODA\DATA\Y190717P\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
2	0717Y002.D	1	SV TUNE 07/11/19		17 Jul 19 9:34
3	0717Y003.D	1	0.1 SIM 07/10/19		17 Jul 19 9:51
4	0717Y004.D	1	0.2 SIM 07/10/19		17 Jul 19 10:14
5	0717Y005.D	1	0.5 SIM 07/10/19		17 Jul 19 10:38
6	0717Y006.D	1	1.0 SIM 07/10/19		17 Jul 19 11:01
7	0717Y007.D	1	5.0 SIM 07/10/19		17 Jul 19 11:25
8	0717Y008.D	1	10 SIM 07/10/19		17 Jul 19 11:48
9	0717Y009.D	1	50 SIM 07/10/19		17 Jul 19 12:11
10	0717Y010.D	1	100 SIM 07/10/19		17 Jul 19 12:35
12	0717Y012.D	1	SS SIM 07/10/19		17 Jul 19 13:32
71	0717Y271.D	1	SV TUNE 7/11/19		30 Jul 19 9:50
72	0717Y272.D	1	5.0 SIM 07/10/19		30 Jul 19 10:06
73	0717Y273.D	1.25	190725A BLK 1/800		30 Jul 19 10:34
77	0717Y277.D	1.25	AZ95189W26 1/800		30 Jul 19 12:17
78	0717Y278.D	1.25	AZ95190W07 1/800		30 Jul 19 12:40
79	0717Y279.D	1.25	AZ95187W14 1/800		30 Jul 19 13:03
80	0717Y280.D	1.25	190725A LCS-2 1/800		30 Jul 19 13:27
81	0717Y281.D	1.25	190725A LCSD-2 1/800		30 Jul 19 13:50
82	0717Y282.D	1.25	AZ95189W27 MS-2 1/800		30 Jul 19 14:13
83	0717Y283.D	1.25	AZ95189W30 MSD-2 1/800		30 Jul 19 14:37
3	0717Y303.D	1	5.0 SIM 07/10/19 (2)		30 Jul 19 22:42

**ORGANICS
Calibration Data**

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/22/19
Instrument: Yoda

Initials: *HAS*

0722Y003.D 0722Y004.D 0722Y005.D 0722Y006.D 0722Y007.D 0722Y008.D 0722Y009.D 0722Y010.D 0722Y011.D

	Compound	4	5	10	20	40	50	60	80	100	Avg	%RSD	Type	r ²	Q	MRF
1	I 1,4-dichlorobenzene-D4(1S)	ISTD														
2	1,4-Dioxane			0.1117	0.0733	0.1044	0.1141	0.1057	0.1012	0.1075	0.10	13				
3	TM n-Nitrosodimethylamine		0.1792	0.1777	0.1909	0.1763	0.1691	0.1844	0.1919	0.1881	0.18	4.4	TM			
4	TM Pyridine		0.4437	0.4356	0.4386	0.4508	0.4462	0.4332	0.4774	0.4673	0.45	3.5	TM			
5	S 2-Fluorophenol (S)		1.545	1.449	1.381	1.287	1.285	1.228	1.222	1.211	1.3	9.2	S			
6	S Phenol-D6 (S)			1.688	1.581	1.377	1.374	1.289	1.254	1.192	1.4	13	S			
7	*TM Phenol		2.029	2.025	1.986	1.801	1.860	1.745	1.641	1.587	1.8	9.3	*TM			0.800
8	TM Aniline		1.857	1.948	1.960	1.766	1.792	1.708	1.687	1.617	1.8	6.9	TM			
9	TM Bis (2-chloroethyl) ether		0.8531	0.8548	0.8180	0.7543	0.7703	0.7486	0.7443	0.7269	0.78	6.5	TM			0.700
10	TM 2-Chlorophenol		1.591	1.583	1.530	1.423	1.481	1.403	1.399	1.396	1.5	5.6	TM			0.800
11	TM 1,3-DCB		1.861	1.796	1.731	1.610	1.641	1.572	1.573	1.529	1.7	7.2	TM			
12	*TM 1,4-DCB		1.843	1.810	1.741	1.603	1.658	1.589	1.577	1.529	1.7	7.0	*TM			
13	TM Benzyl alcohol		0.7967	0.8471	0.8688	0.7975	0.8325	0.7952	0.7953	0.7892	0.82	3.7	TM			
14	TM 1,2-DCB		1.720	1.667	1.633	1.494	1.526	1.452	1.439	1.398	1.5	7.7	TM			
15	TM 2-Methylphenol		1.256	1.256	1.256	1.115	1.160	1.111	1.116	1.092	1.2	6.3	TM			0.700
16	TM Bis (2-chloroisopropyl) ether		1.450	1.400	1.340	1.167	1.194	1.120	1.099	1.063	1.2	12	TM			0.010
17	TM Acetophenone		1.923	1.892	1.853	1.634	1.713	1.625	1.628	1.606	1.7	7.7	TM			0.010
18	TM 3&4-Methylphenol		1.552	1.554	1.496	1.338	1.374	1.300	1.272	1.217	1.4	9.4	TM			0.600
19	**TM n-Nitrosodi-n-propylamine		0.9462	0.9388	0.9069	0.8052	0.8411	0.7903	0.7893	0.6296	0.83	12	**TM			0.500
20	TM Hexachloroethane		0.6170	0.6129	0.5902	0.5378	0.5506	0.5254	0.5277	0.5095	0.56	7.5	TM			0.300
21	I Naphthalene-D8(1S)	ISTD														
22	S Nitrobenzene-D5(S)		0.3911	0.3510	0.3260	0.2965	0.2904	0.2783	0.2766	0.2781	0.31	13	S			
23	TM Nitrobenzene		0.3523	0.3451	0.3442	0.3164	0.3204	0.3115	0.3095	0.3115	0.33	5.4	TM			0.200
24	TM Isophorone		0.6032	0.6029	0.6050	0.5526	0.5679	0.5505	0.5585	0.5695	0.58	4.1	TM			0.400
25	*TM 2-Nitrophenol		0.1594	0.2171	0.2205	0.2133	0.2149	0.2123	0.2131	0.2166	0.21	9.6	*TM			0.100
26	TM 2,4-Dimethylphenol		0.3459	0.3390	0.3385	0.3122	0.3200	0.3079	0.3104	0.3097	0.32	4.8	TM			0.200
27	TM Benzoic acid			0.1686	0.2090	0.2224	0.2319	0.1934	0.1988	0.2172	0.21	10	TM			
28	TM Bis (2-chloroethoxy) methane		0.4264	0.4100	0.3970	0.3600	0.3689	0.3557	0.3558	0.3543	0.38	7.5	TM			0.300
29	*TM 2,4-Dichlorophenol		0.3208	0.3238	0.3220	0.2985	0.3080	0.2969	0.2965	0.2974	0.31	4.0	*TM			0.200
30	TM 1,2,4-Trichlorobenzene		0.3799	0.3701	0.3533	0.3275	0.3326	0.3229	0.3239	0.3180	0.34	6.9	TM			
31	TM 3,4-Dimethylphenol		0.4603	0.4450	0.4367	0.3969	0.4048	0.3934	0.3914	0.3826	0.41	7.0	TM			
32	TM Naphthalene		1.190	1.156	1.087	1.013	0.9975	0.9716	0.9598	0.9343	1.0	9.1	TM			0.700
33	TM 4-Chloroaniline		0.4453	0.4502	0.4333	0.3881	0.3827	0.3627	0.3369	0.3020	0.39	14	TM			0.010
34	TM 2,6-Dichlorophenol		0.3433	0.3277	0.3115	0.2826	0.2818	0.2683	0.2617	0.2529	0.29	11	TM			
35	TM Hexachloropropene		0.1899	0.2022	0.2012	0.1924	0.1928	0.1872	0.1864	0.1828	0.19	3.6	TM			

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/22/19
Instrument: Yoda

Initials: _____

		Compound	4	5	10	20	40	50	60	80	100		Avg	%RSD	Type		Q
36	*TM	Hexachlorobutadiene		0.2044	0.2009	0.1926	0.1808	0.1836	0.1789	0.1792	0.1777		0.19	5.7	*TM		0.010
37	TM	Caprolactum		0.1132	0.1221	0.1281	0.1184	0.1189	0.1166	0.1199	0.1215		0.12	3.7	TM		0.010
38	*TM	4-Chloro-3-methylphenol		0.3039	0.3098	0.3100	0.2924	0.2970	0.2876	0.2936	0.2962		0.30	2.8	*TM		0.200
39	TM	2-Methylnaphthalene		0.7811	0.7561	0.7283	0.6800	0.6831	0.6618	0.6472	0.6396		0.70	7.5	TM		0.400
40	TM	1-Methylnaphthalene		0.8477	0.7838	0.7554	0.6877	0.7001	0.6704	0.6622	0.6513		0.72	9.6	TM		
41	I	Acenaphthene-D10(IS)	ISTD														
42	**TMQ	Hexachlorocyclopentadiene				0.0415	0.0835	0.1056	0.1236	0.1545	0.1866		0.12	44	**TMQ	1.000	0.050
43	TM	1,2,4,5-Tetrachlorobenzene		0.6963	0.6776	0.6474	0.6007	0.6034	0.5827	0.5883	0.5789		0.62	7.3	TM		0.010
44	*TM	2,4,6-Trichlorophenol		0.3871	0.4006	0.4066	0.3772	0.3826	0.3746	0.3848	0.3829		0.39	2.9	*TM		0.200
45	TM	2,4,5-Trichlorophenol		0.4292	0.4290	0.4256	0.3920	0.4071	0.3971	0.4040	0.4020		0.41	3.6	TM		0.200
46	S	2-Fluorobiphenyl(S)			1.780	1.584	1.391	1.369	1.281	1.243	1.183		1.4	15	S		
47	TM	1,1'-Biphenyl		1.963	1.876	1.791	1.628	1.638	1.555	1.531	1.464		1.7	11	TM		0.010
48	TM	2-Chloronaphthalene		1.482	1.423	1.377	1.263	1.251	1.196	1.199	1.164		1.3	9.1	TM		0.800
49	TM	2-Nitroaniline		0.2993	0.3233	0.3335	0.3088	0.3086	0.3001	0.3038	0.2996		0.31	4.0	TM		0.010
50	TM	Dimethyl phthalate		1.667	1.602	1.601	1.459	1.470	1.414	1.437	1.412		1.5	6.6	TM		0.010
51	TM	2,6-DNT		0.3446	0.3646	0.3779	0.3571	0.3623	0.3569	0.3598	0.3591		0.36	2.6	TM		0.200
52	TM	Acenaphthylene		2.250	2.211	2.159	1.961	1.972	1.912	1.887	1.817		2.0	8.1	TM		0.900
53	TM	3-Nitroaniline		0.3625	0.3940	0.3981	0.3762	0.3834	0.3627	0.3633	0.3544		0.37	4.3	TM		0.010
54	*TM	Acenaphthene		1.507	1.450	1.373	1.222	1.226	1.170	1.167	1.122		1.3	11	*TM		0.900
55	**TML	2,4-Dinitrophenol				0.1216	0.1551	0.1762	0.1733	0.1980	0.2185		0.17	19	**TML	0.990	0.010
56	**TM	4-Nitrophenol		0.1459	0.1535	0.1696	0.1589	0.1635	0.1580	0.1605	0.1665		0.16	4.7	**TM		0.010
57	TM	Dibenzofuran		2.128	2.069	1.993	1.799	1.805	1.739	1.729	1.655		1.9	9.4	TM		0.800
58	TM	2,4-DNT		0.4401	0.4913	0.5120	0.4779	0.4894	0.4712	0.4795	0.4838		0.48	4.2	TM		0.200
59	TM	2,3,4,6-Tetrachlorophenol		0.2975	0.3126	0.3236	0.3138	0.3236	0.3175	0.3295	0.3340		0.32	3.6	TM		0.010
60	TM	Diethyl phthalate		1.582	1.527	1.514	1.367	1.394	1.326	1.325	1.321		1.4	7.4	TM		0.010
61	TM	4-Chlorophenyl phenyl ether		0.8866	0.8482	0.8236	0.7254	0.7198	0.6821	0.6697	0.6418		0.75	12	TM		0.400
62	TM	Fluorene		1.738	1.642	1.593	1.408	1.392	1.306	1.283	1.218		1.4	13	TM		0.900
63	TM	4-Nitroaniline		0.3674	0.3624	0.3782	0.3510	0.3562	0.3494	0.3548	0.3570		0.36	2.7	TM		0.010
64	S	2,4,6-Tribromophenol(S)		0.2451	0.2352	0.2225	0.2063	0.2082	0.2001	0.2018	0.2055		0.22	7.8	S		
65	I	Phenanthrene-D10(IS)	ISTD														
66	TM	4,6-Dinitro-2-methylphenol			0.1252	0.1430	0.1461	0.1526	0.1502	0.1560	0.1552		0.15	7.2	TM		0.010
67	TM	Diphenyl amine		0.6963	0.6489	0.6290	0.5602	0.5521	0.5299	0.5066	0.4761		0.57	13	TM		
68	*TM	n-Nitrosodiphenylamine		0.6963	0.6489	0.6290	0.5602	0.5521	0.5299	0.5066	0.4761		0.57	13	*TM		0.010
69	TM	1,2-Diphenylhydrazine		0.7045	0.6798	0.6478	0.5894	0.6813	0.6666	0.6315	0.5978		0.65	6.3	TM		
70	TM	4-Bromophenyl phenyl ether		0.2471	0.2401	0.2417	0.2209	0.2273	0.2243	0.2190	0.2176		0.23	5.0	TM		0.100

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/22/19
Instrument: Yoda

Initials: _____

		Compound	4	5	10	20	40..	50	60	80	100	Avg	%RSD	Type	Q
71	TM	Hexachlorobenzene		0.2601	0.2501	0.2477	0.2314	0.2350	0.2290	0.2305	0.2256	0.24	5.2	TM	0.100
72	TM	Atrazine		0.2183	0.2222	0.2204	0.2084	0.2133	0.2099	0.2105	0.2065	0.21	2.8	TM	0.010
73	*TM	Pentachlorophenol			0.0643	0.0711	0.0739	0.0791	0.0787	0.0836	0.0900	0.08	11	*TM	0.050
74	TM	Phenanthrene		1.292	1.238	1.181	1.069	1.075	1.019	0.9956	0.9499	1.1	11	TM	0.700
75	TM	Anthracene		1.279	1.263	1.215	1.119	1.118	1.063	1.029	0.9736	1.1	9.8	TM	0.700
76	TM	Carbazol		1.183	1.154	1.141	1.022	1.039	0.9935	0.9669	0.9191	1.1	9.2	TM	0.010
77	TM	Di-n-butylphthalate		1.213	1.269	1.310	1.188	1.170	1.144	1.112	1.038	1.2	7.3	TM	0.010
78	*TM	Fluoranthene		1.342	1.332	1.316	1.185	1.187	1.152	1.104	1.041	1.2	9.3	*TM	0.600
79	I	Chrysene-D12(ISTD)	ISTD												
80	TM	Benzidine				0.3272	0.3380	0.3635	0.3680	0.3721	0.3823	0.36	5.9	TM	
81	TM	Pyrene		1.517	1.492	1.463	1.393	1.427	1.354	1.356	1.307	1.4	5.2	TM	0.600
82	S	Terphenyl-D14(S)		1.244	1.126	1.030	0.9560	0.9641	0.9093	0.9101	0.8867	1.0	12	S	
83	TM	Butyl benzylphthalate		0.5300	0.5827	0.6059	0.6021	0.6253	0.5920	0.5952	0.5859	0.59	4.7	TM	0.010
84	TM	3,3'-Dichlorobenzidine		0.3756	0.4091	0.4270	0.4114	0.4230	0.4059	0.4089	0.4054	0.41	3.8	TM	0.010
85	TM	Benz (a) anthracene		1.462	1.427	1.359	1.268	1.289	1.234	1.216	1.166	1.3	8.0	TM	0.800
86	TM	Bis (2-ethylhexyl) phthalate		0.7564	0.7956	0.7867	0.7432	0.7559	0.7037	0.6708	0.6236	0.73	8.1	TM	0.010
87	TM	Chrysene		1.407	1.349	1.348	1.259	1.289	1.200	1.226	1.202	1.3	6.0	TM	0.700
88	*TM	Di-n-octylphthalate		1.103	1.303	1.389	1.406	1.443	1.395	1.377	1.347	1.3	7.9	*TM	0.010
89	I	Perylene-D12(ISTD)	ISTD												
90	TM	Benzo (b) fluoranthene		1.138	1.316	1.267	1.154	1.199	1.149	1.248	1.218	1.2	5.2	TM	0.700
91	TM	Benzo (k) fluoranthene		1.384	1.247	1.275	1.252	1.243	1.150	1.055	0.9963	1.2	11	TM	0.700
92	*TM	Benzo (a) pyrene	1.051	1.193	1.207	1.185	1.138	1.155	1.100	1.107	1.076	1.1	4.8	*TM	0.700
93	TM	Indeno (1,2,3-cd) pyrene		1.274	1.337	1.343	1.305	1.339	1.273	1.285	1.250	1.3	2.7	TM	0.500
94	TM	Dibenz (a,h) anthracene	0.9710	1.128	1.172	1.178	1.141	1.171	1.114	1.112	1.082	1.1	5.7	TM	0.400
95	TM	Benzo (g,h,i) perylene		0.9912	1.036	1.049	1.026	1.059	1.005	1.025	1.018	1.0	2.2	TM	0.500
96															
97															
98															
99															
100															
101															
102															
103															
104															
105															

Data File : M:\YODA\DATA\Y190722\0722Y003.D
 Acq On : 22 Jul 19 14:01
 Sample : 4ug/ml 8270 07/12/19
 Misc :

Vial: 3
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 14:24 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 16 08:54:23 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	440945	40.00000	ppb	-0.12
21) Napthalene-D8 (IS)	6.47	136	1828972	40.00000	ppb	-0.12
41) Acenaphthene-D10 (IS)	8.51	164	955144	40.00000	ppb	-0.12
65) Phenanthrene-D10 (IS)	10.26	188	1851498	40.00000	ppb	-0.13
79) Chrysene-D12 (IS)	13.38	240	1736228	40.00000	ppb	-0.13
89) Perylene-D12 (IS)	15.12	264	1784940	40.00000	ppb	-0.18
System Monitoring Compounds						
5) 2-Fluorophenol (S)	0.00	112	0d	0.00000	ppb	
Spiked Amount 200.000			Recovery =	0.000%		
6) Phenol-D6 (S)	0.00	99	0d	0.00000	ppb	
Spiked Amount 200.000			Recovery =	0.000%		
22) Nitrobenzene-D5 (S)	0.00	82	0d	0.00000	ppb	
Spiked Amount 100.000			Recovery =	0.000%		
46) 2-Fluorobiphenyl (S)	0.00	172	0d	0.00000	ppb	
Spiked Amount 100.000			Recovery =	0.000%		
64) 2,4,6-Tribromophenol (S)	0.00	330	0d	0.00000	ppb	
Spiked Amount 200.000			Recovery =	0.000%		
82) Terphenyl-D14 (S)	0.00	244	0d	0.00000	ppb	
Spiked Amount 100.000			Recovery =	0.000%		
Target Compounds						
92) Benzo (a) pyrene	15.07	252	187613	3.83990	ppb	99
94) Dibenz (a,h) anthracene	16.91	278	173311	3.60349	ppb	98

Quantitation Report

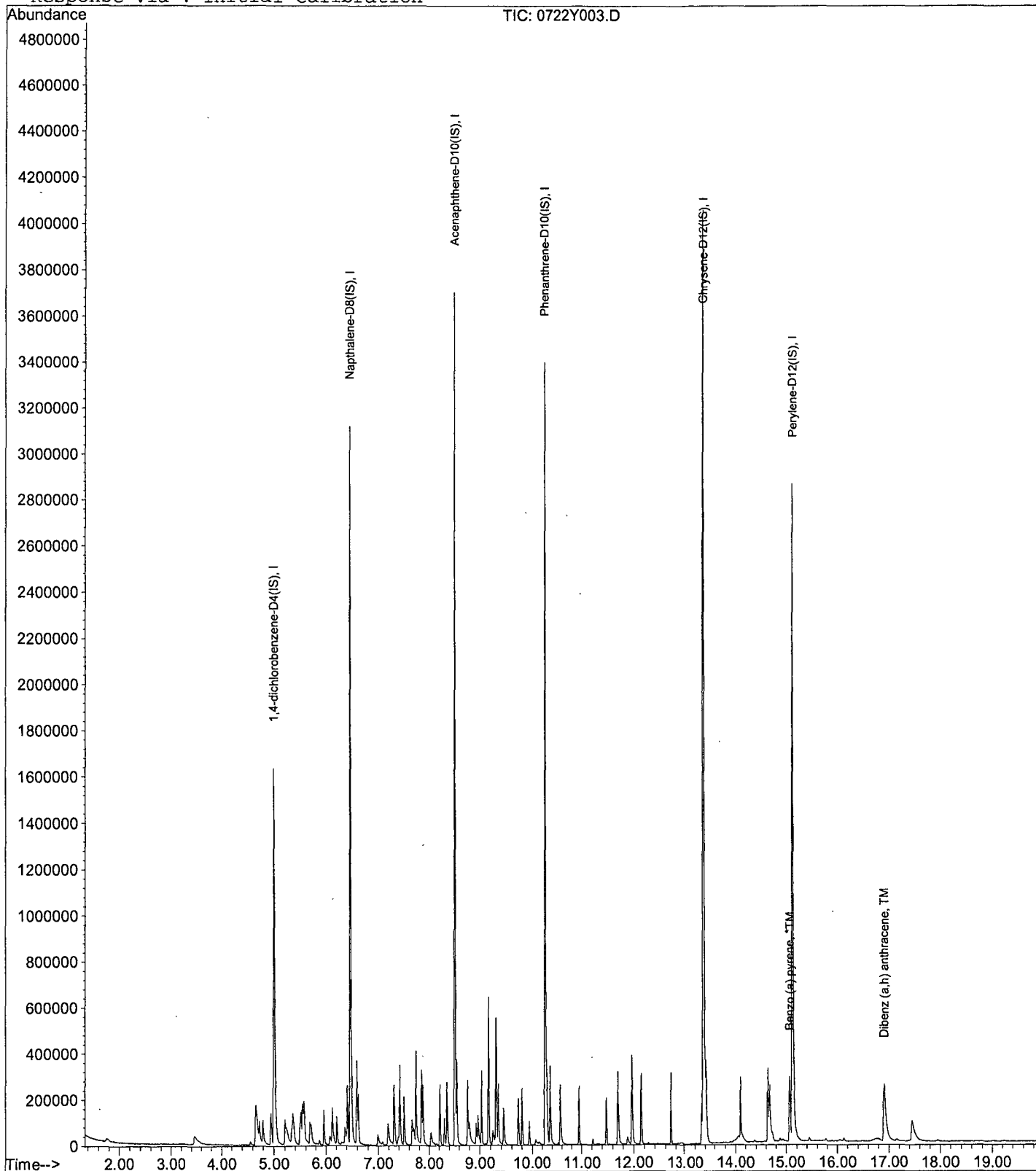
Data File : M:\YODA\DATA\Y190722\0722Y003.D
Acq On : 22 Jul 19 14:01
Sample : 4ug/ml 8270 07/12/19
Misc :

Vial: 3
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 22 14:24 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y004.D
 Acq On : 22 Jul 19 14:29
 Sample : 5ug/ml 8270 07/12/19
 Misc :

Vial: 4
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 15:40 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 15:40:36 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	439617	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.47	136	1780662	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.51	164	941418	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1820185	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.38	240	1721437	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.13	264	1799909	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.42	112	169794	11.84169	ppb	0.00
Spiked Amount 200.000			Recovery =	5.921%		
6) Phenol-D6 (S)	4.64	99	200650	11.10931	ppb	0.00
Spiked Amount 200.000			Recovery =	5.555%		
22) Nitrobenzene-D5 (S)	5.68	82	87053	5.49120	ppb	0.00
Spiked Amount 100.000			Recovery =	5.491%		
46) 2-Fluorobiphenyl (S)	7.73	172	238253	7.14110	ppb	0.00
Spiked Amount 100.000			Recovery =	7.141%		
64) 2,4,6-Tribromophenol (S)	9.46	330	57680	12.14484	ppb	0.01
Spiked Amount 200.000			Recovery =	6.073%		
82) Terphenyl-D14 (S)	12.14	244	267606	6.78454	ppb	0.00
Spiked Amount 100.000			Recovery =	6.785%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.48	58	310	0.16684		# 1
3) n-Nitrosodimethylamine	1.72	42	9847	3.42861	ppb	87
4) Pyridine	1.74	79	24380	3.41809	ppb	96
7) Phenol	4.66	94	111511	5.21256	ppb	79
8) Aniline	4.66	93	102039	4.87983	ppb	91
9) Bis (2-chloroethyl) ether	4.72	63	46879	5.12894	ppb	90
10) 2-Chlorophenol	4.79	128	87456	5.67964	ppb	93
11) 1,3-DCB	4.95	146	102246	5.82611	ppb	96
12) 1,4-DCB	5.03	146	101294	5.61331	ppb	97
13) Benzyl alcohol	5.22	108	43783	4.84804	ppb	99
14) 1,2-DCB	5.21	146	94512	5.60069	ppb	99
15) 2-Methylphenol	5.35	107	69015	5.29979	ppb	95
16) Bis (2-chloroisopropyl) et	5.34	45	79683	5.82786	ppb	# 64
17) Acetophenone	5.50	105	105669	5.22907	ppb	100
18) 3&4-Methylphenol	5.53	107	170611	10.56461	ppb	100
19) n-Nitrosodi-n-propylamine	5.49	70	51994	4.66721	ppb	97
20) Hexachloroethane	5.57	117	33903	5.24195	ppb	95
23) Nitrobenzene	5.70	77	78416	5.00549	ppb	98
24) Isophorone	5.96	82	134253	5.00246	ppb	98
25) 2-Nitrophenol	6.07	139	35469	4.19062	ppb	98
26) 2,4-Dimethylphenol	6.12	122	76999	5.65093	ppb	97
27) Benzoic acid	6.30	105	26733	3.03214	ppb	95
28) Bis (2-chloroethoxy) metha	6.21	93	94906	5.55245	ppb	100
29) 2,4-Dichlorophenol	6.37	162	71396	5.53564	ppb	98
30) 1,2,4-Trichlorobenzene	6.41	180	84562	5.92490	ppb	96
31) 3,4-Dimethylphenol	6.47	107	102460	5.45069	ppb	97
32) Naphthalene	6.50	128	264804	5.86348	ppb	100
33) 4-Chloroaniline	6.59	127	99119	5.66495	ppb	97
34) 2,6-Dichlorophenol	6.59	162	76420	5.68116	ppb	99
35) Hexachloropropene	6.59	213	42263	4.65469	ppb	97
36) Hexachlorobutadiene	6.63	225	45485	5.49442	ppb	97
37) Caprolactum	6.99	55	25199	4.80618	ppb	94

(#) = qualifier out of range (m) = manual integration

Data File : M:\YODA\DATA\Y190722\0722Y004.D
 Acq On : 22 Jul 19 14:29
 Sample : 5ug/ml 8270 07/12/19
 Misc :

Vial: 4
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 15:40 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 15:40:36 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.18	107	67633	5.35837	ppb	94
39) 2-Methylnaphthalene	7.30	142	173851	5.87295	ppb	99
40) 1-Methylnaphthalene	7.42	142	188687	6.09252	ppb	100
42) Hexachlorocyclopentadiene	7.47	237	179	-40.00000	ppb #	91
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	81939	6.09018	ppb	99
44) 2,4,6-Trichlorophenol	7.66	196	45549	5.25409	ppb	97
45) 2,4,5-Trichlorophenol	7.73	196	50509	5.72438	ppb	91
47) 1,1'-Biphenyl	7.85	154	231037	6.45109	ppb	96
48) 2-Chloronaphthalene	7.88	162	174431	6.21041	ppb	96
49) 2-Nitroaniline	8.03	65	35223	4.92091	ppb	84
50) Dimethyl phthalate	8.21	163	196175	6.14970	ppb	98
51) 2,6-DNT	8.31	165	40552	5.63342	ppb	91
52) Acenaphthylene	8.35	152	264745	6.04675	ppb	99
53) 3-Nitroaniline	8.52	138	42661	5.39381	ppb #	80
54) Acenaphthene	8.56	154	177362	6.41463	ppb	98
55) 2,4-Dinitrophenol	8.73	184	2169	1.78318	ppb	94
56) 4-Nitrophenol	8.82	65	17168	4.26606	ppb	93
57) Dibenzofuran	8.76	168	250418	6.25571	ppb	95
58) 2,4-DNT	8.80	165	51795	5.27126	ppb	95
59) 2,3,4,6-Tetrachlorophenol	8.93	232	35006	5.20295	ppb	95
60) Diethyl phthalate	9.03	149	186121	5.95827	ppb	100
61) 4-Chlorophenyl phenyl ethe	9.16	204	104332	6.32042	ppb	97
62) Fluorene	9.16	166	204503	6.09528	ppb	98
63) 4-Nitroaniline	9.24	138	43238	5.89579	ppb	92
66) 4,6-Dinitro-2-methylphenol	9.28	198	21188	9.08540	ppb #	86
67) Diphenyl amine	9.31	169	316857	11.10923	ppb	99
68) n-Nitrosodiphenylamine	9.31	169	316857	11.10923	ppb	99
69) 1,2-Diphenylhydrazine	9.35	77	160282	4.59370	ppb	98
70) 4-Bromophenyl phenyl ether	9.74	248	56214	5.22755	ppb	95
71) Hexachlorobenzene	9.80	284	59188	5.29075	ppb	97
72) Atrazine	9.94	200	24834	2.62700	ppb	95
73) Pentachlorophenol	10.07	266	11979	3.21451	ppb	99
74) Phenanthrene	10.29	178	293847	5.67124	ppb	99
75) Anthracene	10.36	178	290906	5.41986	ppb	100
76) Carbazol	10.56	167	269170	5.50616	ppb	97
77) Di-n-butylphthalate	10.95	149	275967	4.85930	ppb	99
78) Fluoranthene	11.70	202	305247	5.51943	ppb	97
80) Benzidine	11.88	184	52041	4.77705	ppb	97
81) Pyrene	11.96	202	326488	6.41288	ppb	100
83) Butyl benzylphthalate	12.71	149	114042	5.13532	ppb	89
84) 3,3'-Dichlorobenzidine	13.35	252	80832	5.43176	ppb	97
85) Benz (a) anthracene	13.37	228	314487	5.62193	ppb	100
86) Bis (2-ethylhexyl) phthala	13.38	149	162758	5.02768	ppb	95
87) Chrysene	13.41	228	302719	6.14953	ppb	100
88) Di-n-octylphthalate	14.10	149	237395	4.66053	ppb	96
90) Benzo (b) fluoranthene	14.63	252	256076	4.75488	ppb	98
91) Benzo (k) fluoranthene	14.67	252	311351	5.89326	ppb	100
92) Benzo (a) pyrene	15.07	252	268510	5.44993	ppb	97
93) Indeno (1,2,3-cd) pyrene	16.90	276	286549	5.08249	ppb	97
94) Dibenz (a,h) anthracene	16.91	278	253893	5.23506	ppb	99
95) Benzo (g,h,i) perylene	17.45	276	222998	5.16993	ppb	95

Quantitation Report

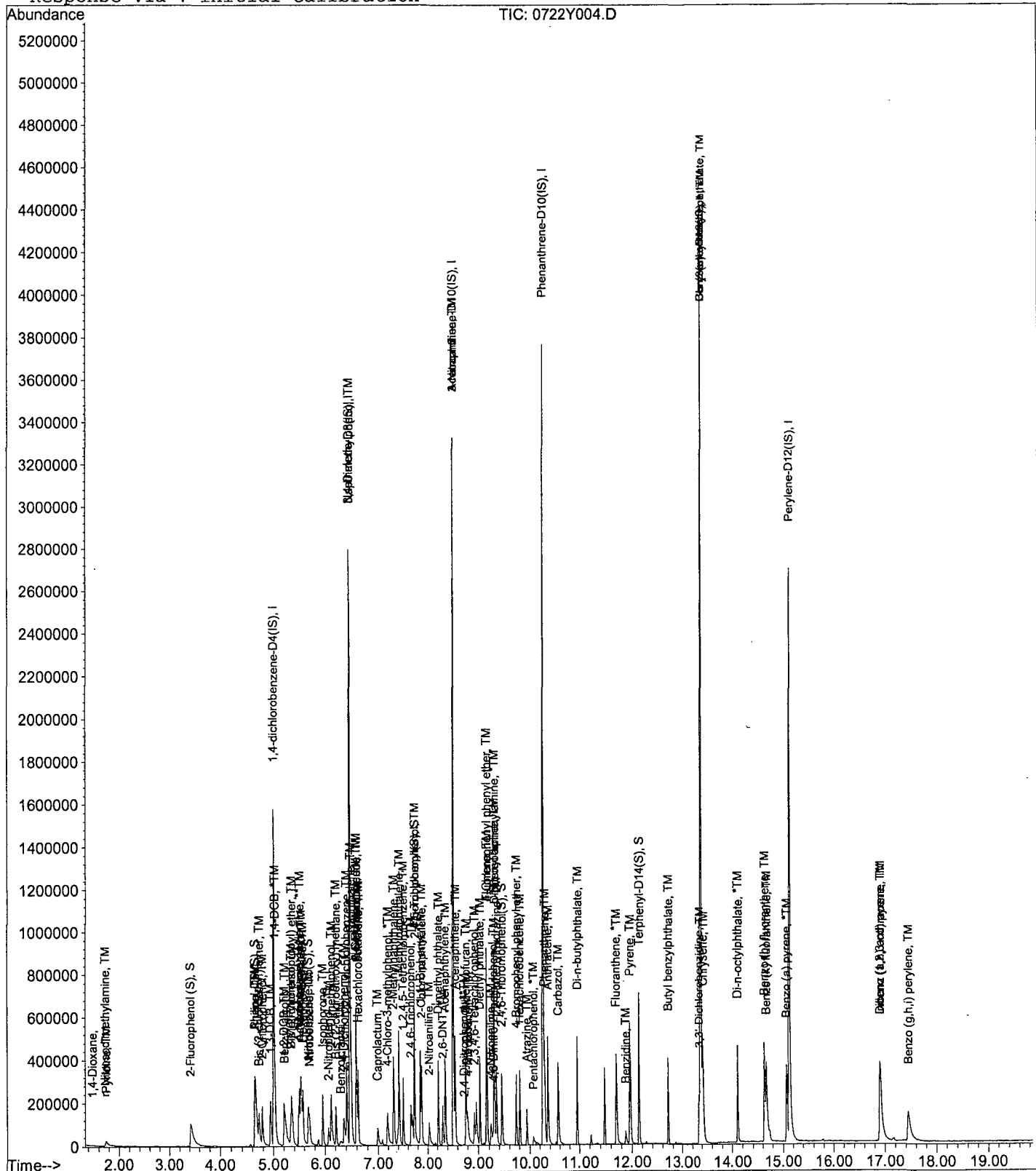
Data File : M:\YODA\DATA\Y190722\0722Y004.D
 Acq On : 22 Jul 19 14:29
 Sample : 5ug/ml 8270 07/12/19
 Misc :

Vial: 4
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 15:40 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y005.D
 Acq On : 22 Jul 19 14:57
 Sample : 10ug/ml 8270 07/12/19
 Misc :

Vial: 5
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:32:36 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	494862	40.00000	ppb	0.00
21) Naphthalene-D8 (IS)	6.47	136	1977082	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.51	164	1040818	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.26	188	2035484	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.38	240	1894706	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.13	264	1984381	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.40	112	358492	22.22414	ppb	0.02
Spiked Amount 200.000			Recovery =	11.112%		
6) Phenol-D6 (S)	4.63	99	417767	20.78065	ppb	0.00
Spiked Amount 200.000			Recovery =	10.391%		
22) Nitrobenzene-D5 (S)	5.67	82	173507	9.92501	ppb	0.00
Spiked Amount 100.000			Recovery =	9.925%		
46) 2-Fluorobiphenyl (S)	7.73	172	463218	12.57100	ppb	0.00
Spiked Amount 100.000			Recovery =	12.571%		
64) 2,4,6-Tribromophenol (S)	9.45	330	122393	22.82155	ppb	0.00
Spiked Amount 200.000			Recovery =	11.411%		
82) Terphenyl-D14 (S)	12.14	244	533349	12.10006	ppb	0.00
Spiked Amount 100.000			Recovery =	12.100%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.48	58	1382	0.67324		81
3) n-Nitrosodimethylamine	1.71	42	21988	6.96639	ppb	98
4) Pyridine	1.72	79	53893	6.85757	ppb	100
7) Phenol	4.65	94	250482	10.51846	ppb	90
8) Aniline	4.64	93	240981	10.38838	ppb	# 87
9) Bis (2-chloroethyl) ether	4.71	63	105754	10.48865	ppb	97
10) 2-Chlorophenol	4.78	128	195815	11.29814	ppb	98
11) 1,3-DCB	4.94	146	222252	11.22338	ppb	99
12) 1,4-DCB	5.03	146	223877	11.01791	ppb	100
13) Benzyl alcohol	5.21	108	104802	10.39089	ppb	97
14) 1,2-DCB	5.21	146	206238	10.87348	ppb	98
15) 2-Methylphenol	5.34	107	155412	10.70991	ppb	97
16) Bis (2-chloroisopropyl) et	5.34	45	173163	11.63742	ppb	# 88
17) Acetophenone	5.49	105	234120	10.44007	ppb	95
18) 3&4-Methylphenol	5.52	107	384586	21.45807	ppb	99
19) n-Nitrosodi-n-propylamine	5.48	70	116145	9.47300	ppb	96
20) Hexachloroethane	5.57	117	75826	10.51398	ppb	81
23) Nitrobenzene	5.69	77	170582	9.89462	ppb	97
24) Isophorone	5.96	82	298008	10.07146	ppb	95
25) 2-Nitrophenol	6.06	139	107318	11.30918	ppb	99
26) 2,4-Dimethylphenol	6.12	122	167563	11.05925	ppb	99
27) Benzoic acid	6.26	105	83337	8.46946	ppb	96
28) Bis (2-chloroethoxy) metha	6.21	93	202658	10.72609	ppb	99
29) 2,4-Dichlorophenol	6.35	162	160030	11.06528	ppb	100
30) 1,2,4-Trichlorobenzene	6.41	180	182933	11.43968	ppb	99
31) 3,4-Dimethylphenol	6.46	107	219944	10.59004	ppb	98
32) Naphthalene	6.50	128	571280	11.40869	ppb	100
33) 4-Chloroaniline	6.59	127	222510	11.53806	ppb	97
34) 2,6-Dichlorophenol	6.59	162	161963	10.89378	ppb	99
35) Hexachloropropene	6.59	213	99937	9.90244	ppb	98
36) Hexachlorobutadiene	6.63	225	99309	10.69913	ppb	98
37) Caprolactum	6.99	55	60350	10.54999	ppb	92

Data File : M:\YODA\DATA\Y190722\0722Y005.D
 Acq On : 22 Jul 19 14:57
 Sample : 10ug/ml 8270 07/12/19
 Misc :

Vial: 5
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:32:36 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	153114	10.93286	ppb	93
39) 2-Methylnaphthalene	7.30	142	373735	11.34952	ppb	99
40) 1-Methylnaphthalene	7.41	142	387403	11.27475	ppb	99
42) Hexachlorocyclopentadiene	7.47	237	4136	1.72454	ppb	98
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	176321	11.75744	ppb	100
44) 2,4,6-Trichlorophenol	7.66	196	104250	10.80084	ppb	99
45) 2,4,5-Trichlorophenol	7.71	196	111616	11.37921	ppb	# 93
47) 1,1'-Biphenyl	7.84	154	488170	12.34435	ppb	# 98
48) 2-Chloronaphthalene	7.87	162	370340	11.94582	ppb	100
49) 2-Nitroaniline	8.02	65	84128	10.83411	ppb	85
50) Dimethyl phthalate	8.21	163	416968	11.82222	ppb	99
51) 2,6-DNT	8.31	165	94879	11.84877	ppb	97
52) Acenaphthylene	8.35	152	575395	11.91664	ppb	100
53) 3-Nitroaniline	8.51	138	102521	11.76288	ppb	# 88
54) Acenaphthene	8.56	154	377311	12.39989	ppb	98
55) 2,4-Dinitrophenol	8.70	184	14038	4.68342	ppb	98
56) 4-Nitrophenol	8.78	65	39935	9.20265	ppb	80
57) Dibenzofuran	8.76	168	538398	12.20496	ppb	94
58) 2,4-DNT	8.79	165	127838	11.72944	ppb	88
59) 2,3,4,6-Tetrachlorophenol	8.93	232	81339	10.72911	ppb	96
60) Diethyl phthalate	9.03	149	397222	11.54365	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.16	204	220710	12.14078	ppb	97
62) Fluorene	9.16	166	427356	11.63675	ppb	100
63) 4-Nitroaniline	9.23	138	94293	11.57289	ppb	98
66) 4,6-Dinitro-2-methylphenol	9.27	198	63725	13.26532	ppb	96
67) Diphenyl amine	9.31	169	660461	20.92637	ppb	99
68) n-Nitrosodiphenylamine	9.31	169	660461	20.92637	ppb	99
69) 1,2-Diphenylhydrazine	9.35	77	345930	8.89163	ppb	97
70) 4-Bromophenyl phenyl ether	9.74	248	122158	10.08917	ppb	98
71) Hexachlorobenzene	9.80	284	127261	10.06275	ppb	97
72) Atrazine	9.94	200	56541	5.33914	ppb	96
73) Pentachlorophenol	10.06	266	32737	7.74673	ppb	96
74) Phenanthrene	10.29	178	630028	10.91833	ppb	99
75) Anthracene	10.36	178	642848	10.74560	ppb	99
76) Carbazol	10.56	167	587286	10.77676	ppb	99
77) Di-n-butylphthalate	10.95	149	645730	10.26866	ppb	99
78) Fluoranthene	11.69	202	677855	10.96689	ppb	98
80) Benzidine	11.87	184	134874	11.03349	ppb	# 98
81) Pyrene	11.96	202	706700	12.47354	ppb	100
83) Butyl benzylphthalate	12.71	149	276019	11.28610	ppb	82
84) 3,3'-Dichlorobenzidine	13.34	252	193787	11.53281	ppb	98
85) Benz (a) anthracene	13.37	228	675902	11.00459	ppb	100
86) Bis (2-ethylhexyl) phthala	13.37	149	376834	10.80604	ppb	98
87) Chrysene	13.41	228	638925	11.66556	ppb	100
88) Di-n-octylphthalate	14.10	149	617175	11.00300	ppb	# 95
90) Benzo (b) fluoranthene	14.62	252	652864	11.02209	ppb	98
91) Benzo (k) fluoranthene	14.66	252	618688	10.63284	ppb	99
92) Benzo (a) pyrene	15.06	252	598712	11.02449	ppb	99
93) Indeno (1,2,3-cd) pyrene	16.89	276	663063	10.66455	ppb	99
94) Dibenz (a,h) anthracene	16.89	278	581544	10.86152	ppb	97
95) Benzo (g,h,i) perylene	17.42	276	513851	10.72960	ppb	97

Quantitation Report

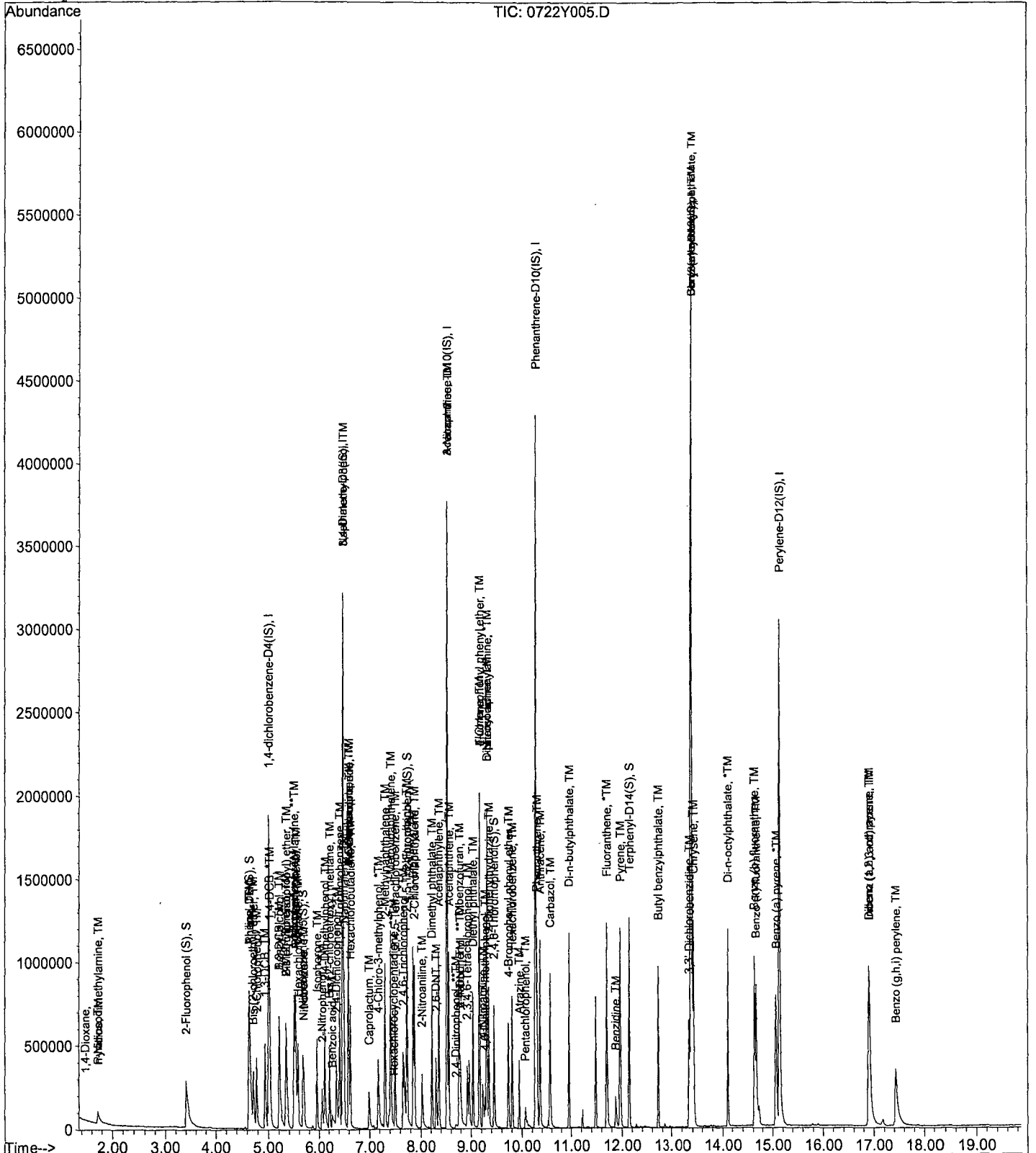
Data File : M:\YODA\DATA\Y190722\0722Y005.D
Acq On : 22 Jul 19 14:57
Sample : 10ug/ml 8270 07/12/19
Misc :

Vial: 5
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y006.D
 Acq On : 22 Jul 19 15:25
 Sample : 20ug/ml 8270 07/12/19
 Misc :

Vial: 6
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:24 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:35:45 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	449552	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.47	136	1802981	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.51	164	964305	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1897463	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.38	240	1747780	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.13	264	1861922	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.39	112	621052	42.38162	ppb	0.00
Spiked Amount 200.000			Recovery =	21.191%		
6) Phenol-D6 (S)	4.62	99	710958	38.92898	ppb	0.00
Spiked Amount 200.000			Recovery =	19.465%		
22) Nitrobenzene-D5 (S)	5.66	82	293880	18.43391	ppb	0.00
Spiked Amount 100.000			Recovery =	18.434%		
46) 2-Fluorobiphenyl (S)	7.72	172	763550	22.36569	ppb	0.00
Spiked Amount 100.000			Recovery =	22.366%		
64) 2,4,6-Tribromophenol (S)	9.45	330	214535	43.17647	ppb	0.00
Spiked Amount 200.000			Recovery =	21.588%		
82) Terphenyl-D14 (S)	12.13	244	900378	22.14400	ppb	0.00
Spiked Amount 100.000			Recovery =	22.144%		

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.48	58	1648m	0.88374		80
3) n-Nitrosodimethylamine	1.71	42	42917	14.96771	ppb	100
4) Pyridine	1.72	79	98578	13.80773	ppb	99
7) Phenol	4.64	94	446508	20.63998	ppb	90
8) Aniline	4.64	93	440648	20.91034	ppb	93
9) Bis (2-chloroethyl) ether	4.72	63	183864	20.07352	ppb	93
10) 2-Chlorophenol	4.77	128	343946	21.84518	ppb	99
11) 1,3-DCB	4.94	146	389026	21.62523	ppb	99
12) 1,4-DCB	5.02	146	391367	21.20206	ppb	98
13) Benzyl alcohol	5.20	108	195279	21.31291	ppb	99
14) 1,2-DCB	5.20	146	367155	21.30852	ppb	100
15) 2-Methylphenol	5.34	107	282308	21.41553	ppb	99
16) Bis (2-chloroisopropyl) et	5.33	45	301306	22.29018	ppb	100
17) Acetophenone	5.50	105	416480	20.44387	ppb	99
18) 3&4-Methylphenol	5.51	107	672559	41.30778	ppb	96
19) n-Nitrosodi-n-propylamine	5.49	70	203852	18.30232	ppb	98
20) Hexachloroethane	5.57	117	132666	20.24942	ppb	87
23) Nitrobenzene	5.69	77	310328	19.73878	ppb	100
24) Isophorone	5.96	82	545427	20.21318	ppb	93
25) 2-Nitrophenol	6.05	139	198818	22.97458	ppb	98
26) 2,4-Dimethylphenol	6.11	122	305159	22.08551	ppb	96
27) Benzoic acid	6.28	105	188388	20.99445	ppb	99
28) Bis (2-chloroethoxy) metha	6.21	93	357892	20.77128	ppb	99
29) 2,4-Dichlorophenol	6.34	162	290242	22.00669	ppb	99
30) 1,2,4-Trichlorobenzene	6.41	180	318460	21.83786	ppb	99
31) 3,4-Dimethylphenol	6.46	107	393672	20.78517	ppb	100
32) Napthalene	6.50	128	980235	21.46596	ppb	99
33) 4-Chloroaniline	6.58	127	390582	22.20900	ppb	98
34) 2,6-Dichlorophenol	6.58	162	280825	20.71247	ppb	95
35) Hexachloropropene	6.59	213	181367	19.70641	ppb	98
36) Hexachlorobutadiene	6.63	225	173617	20.51095	ppb	98
37) Caprolactum	7.00	55	115507	22.14199	ppb	97

(#) = qualifier out of range (m) = manual integration

Data File : M:\YODA\DATA\Y190722\0722Y006.D
 Acq On : 22 Jul 19 15:25
 Sample : 20ug/ml 8270 07/12/19
 Misc :

Vial: 6
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:24 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:35:45 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	279488	21.88345	ppb	96
39) 2-Methylnaphthalene	7.31	142	656540	21.86293	ppb	100
40) 1-Methylnaphthalene	7.42	142	680952	21.73171	ppb	99
42) Hexachlorocyclopentadiene	7.47	237	20014	9.00713	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	312157	22.46685	ppb	99
44) 2,4,6-Trichlorophenol	7.65	196	196020	21.92008	ppb	98
45) 2,4,5-Trichlorophenol	7.71	196	205225	22.58273	ppb #	92
47) 1,1'-Biphenyl	7.84	154	863483	23.56739	ppb	99
48) 2-Chloronaphthalene	7.87	162	664035	23.11887	ppb	98
49) 2-Nitroaniline	8.01	65	160806	22.35194	ppb	75
50) Dimethyl phthalate	8.22	163	771706	23.61613	ppb	99
51) 2,6-DNT	8.30	165	182224	24.56230	ppb	87
52) Acenaphthylene	8.35	152	1041135	23.27316	ppb	99
53) 3-Nitroaniline	8.50	138	191925	23.76800	ppb #	94
54) Acenaphthene	8.55	154	661848	23.47669	ppb	99
55) 2,4-Dinitrophenol	8.69	184	58621	21.10917	ppb	99
56) 4-Nitrophenol	8.76	65	81765	20.33701	ppb	99
57) Dibenzofuran	8.76	168	961022	23.51400	ppb	99
58) 2,4-DNT	8.78	165	246842	24.44539	ppb	92
59) 2,3,4,6-Tetrachlorophenol	8.92	232	156036	22.21520	ppb	95
60) Diethyl phthalate	9.04	149	729998	22.89770	ppb	96
61) 4-Chlorophenyl phenyl ethe	9.16	204	397101	23.57686	ppb	95
62) Fluorene	9.16	166	767871	22.56788	ppb	100
63) 4-Nitroaniline	9.23	138	182373	24.15923	ppb	99
66) 4,6-Dinitro-2-methylphenol	9.26	198	135701	23.14173	ppb	90
67) Diphenyl amine	9.31	169	1193523	40.56691	ppb	99
68) n-Nitrosodiphenylamine	9.31	169	1193523	40.56691	ppb	99
69) 1,2-Diphenylhydrazine	9.35	77	614556	16.94529	ppb	92
70) 4-Bromophenyl phenyl ether	9.73	248	229332	20.31854	ppb #	89
71) Hexachlorobenzene	9.80	284	235010	19.93434	ppb	91
72) Atrazine	9.94	200	104560	10.59176	ppb	97
73) Pentachlorophenol	10.06	266	67449	17.12180	ppb	98
74) Phenanthrene	10.30	178	1120875	20.83761	ppb	99
75) Anthracene	10.35	178	1152872	20.67272	ppb	99
76) Carbazol	10.56	167	1082419	21.30729	ppb	99
77) Di-n-butylphthalate	10.95	149	1242593	21.19757	ppb	98
78) Fluoranthene	11.70	202	1248728	21.67249	ppb	99
80) Benzidine	11.87	184	285936	25.35762	ppb	100
81) Pyrene	11.96	202	1278897	24.47063	ppb	100
83) Butyl benzylphthalate	12.71	149	529453	23.46862	ppb	90
84) 3,3'-Dichlorobenzidine	13.34	252	373113	24.07165	ppb	98
85) Benz (a) anthracene	13.37	228	1187579	20.96079	ppb	99
86) Bis (2-ethylhexyl) phthala	13.37	149	687482	21.37139	ppb #	94
87) Chrysene	13.41	228	1177980	23.31570	ppb	99
88) Di-n-octylphthalate	14.10	149	1213653	23.45593	ppb	96
90) Benzo (b) fluoranthene	14.62	252	1179913	21.23023	ppb	99
91) Benzo (k) fluoranthene	14.66	252	1187138	21.74414	ppb	99
92) Benzo (a) pyrene	15.06	252	1103210	21.65022	ppb	100
93) Indeno (1,2,3-cd) pyrene	16.88	276	1249836	21.42418	ppb	99
94) Dibenz (a,h) anthracene	16.90	278	1096810	21.83247	ppb	99
95) Benzo (g,h,i) perylene	17.41	276	976213	21.72473	ppb	97

Quantitation Report

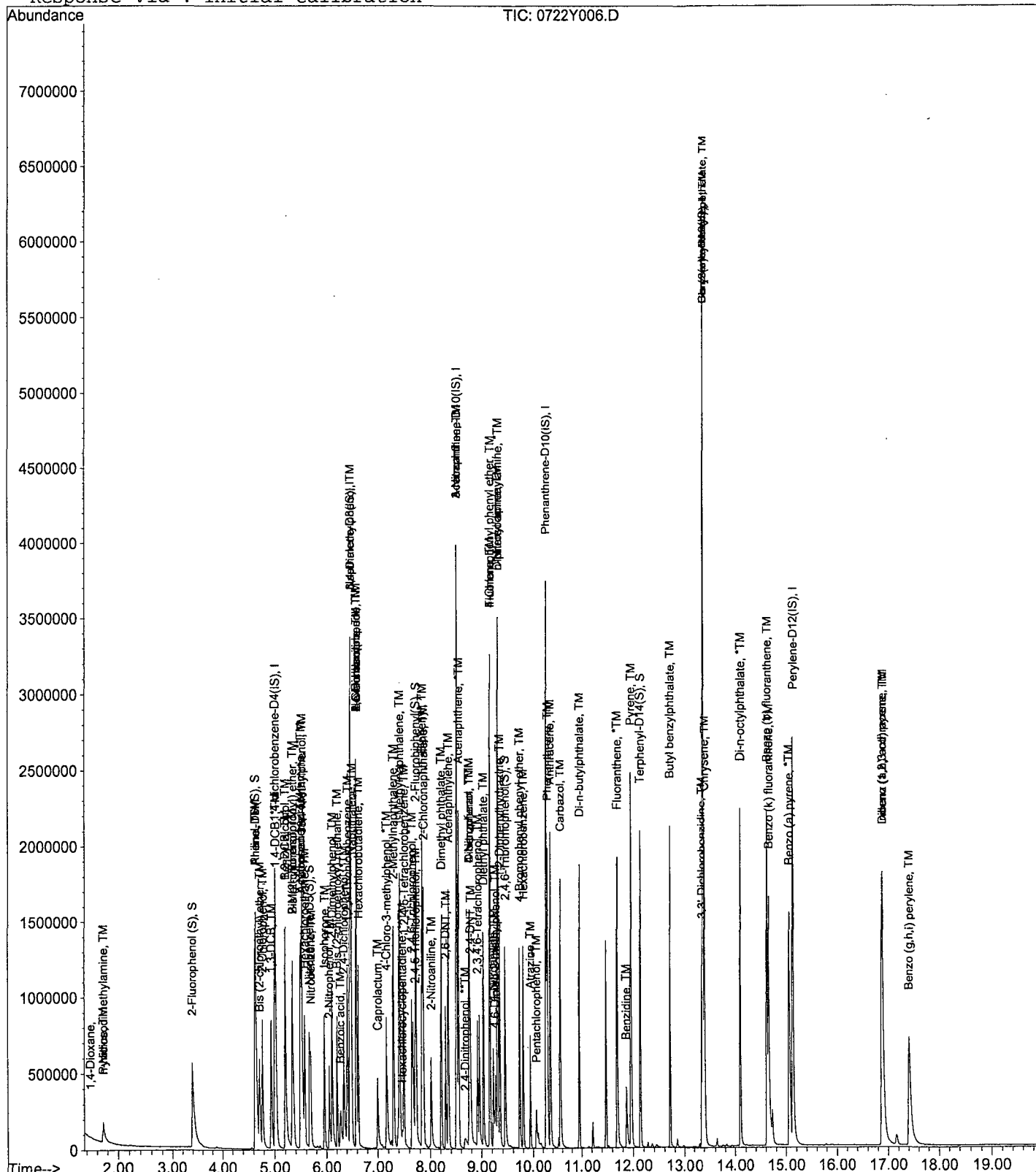
Data File : M:\YODA\DATA\Y190722\0722Y006.D
Acq On : 22 Jul 19 15:25
Sample : 20ug/ml 8270 07/12/19
Misc :

Vial: 6
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 23 8:24 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y007.D
 Acq On : 22 Jul 19 15:53
 Sample : 40ug/ml 8270 07/12/19
 Misc :

Vial: 7
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:35:45 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.01	152	434901	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.48	136	1695022	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	914739	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.26	188	1808689	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.38	240	1597421	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.13	264	1728792	40.00000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol (S)	3.39	112	1119111	78.94276	ppb	0.00
Spiked Amount 200.000			Recovery =	39.472%		
6) Phenol-D6 (S)	4.63	99	1197551	67.78173	ppb	0.00
Spiked Amount 200.000			Recovery =	33.891%		
22) Nitrobenzene-D5 (S)	5.67	82	502567	33.53182	ppb	0.00
Spiked Amount 100.000			Recovery =	33.532%		
46) 2-Fluorobiphenyl (S)	7.73	172	1272238	39.28534	ppb	0.00
Spiked Amount 100.000			Recovery =	39.285%		
64) 2,4,6-Tribromophenol (S)	9.46	330	377413	80.07245	ppb	0.00
Spiked Amount 200.000			Recovery =	40.036%		
82) Terphenyl-D14 (S)	12.14	244	1527109	41.09307	ppb	0.00
Spiked Amount 100.000			Recovery =	41.093%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.47	58	4540	2.51660		65
3) n-Nitrosodimethylamine	1.70	42	76662	27.63731	ppb	97
4) Pyridine	1.71	79	196073	28.38897	ppb	100
7) Phenol	4.64	94	783151	37.42097	ppb	96
8) Aniline	4.64	93	768066	37.67536	ppb	97
9) Bis (2-chloroethyl) ether	4.71	63	328033	37.01978	ppb	100
10) 2-Chlorophenol	4.77	128	618839	40.62866	ppb	98
11) 1,3-DCB	4.94	146	700322	40.24107	ppb	99
12) 1,4-DCB	5.03	146	697138	39.03931	ppb	99
13) Benzyl alcohol	5.20	108	346844	39.13009	ppb	98
14) 1,2-DCB	5.20	146	649790	38.98221	ppb	99
15) 2-Methylphenol	5.34	107	485009	38.03163	ppb	99
16) Bis (2-chloroisopropyl) et	5.34	45	507545	38.81235	ppb	# 76
17) Acetophenone	5.49	105	710778	36.06555	ppb	99
18) 3&4-Methylphenol	5.52	107	1163600	73.87452	ppb	100
19) n-Nitrosodi-n-propylamine	5.49	70	350166	32.49785	ppb	99
20) Hexachloroethane	5.58	117	233873	36.89968	ppb	98
23) Nitrobenzene	5.69	77	536348	36.28789	ppb	100
24) Isophorone	5.96	82	936672	36.92336	ppb	100
25) 2-Nitrophenol	6.05	139	361620	44.44882	ppb	98
26) 2,4-Dimethylphenol	6.12	122	529260	40.74423	ppb	99
27) Benzoic acid	6.30	105	376966	44.68576	ppb	99
28) Bis (2-chloroethoxy) metha	6.21	93	610238	37.67266	ppb	99
29) 2,4-Dichlorophenol	6.34	162	505958	40.80606	ppb	99
30) 1,2,4-Trichlorobenzene	6.41	180	555093	40.48897	ppb	100
31) 3,4-Dimethylphenol	6.46	107	672769	37.78339	ppb	99
32) Napthalene	6.51	128	1716939	39.99363	ppb	99
33) 4-Chloroaniline	6.59	127	657855	39.78899	ppb	95
34) 2,6-Dichlorophenol	6.59	162	478938	37.57433	ppb	99
35) Hexachloropropene	6.59	213	326106	37.68980	ppb	98
36) Hexachlorobutadiene	6.63	225	306496	38.51538	ppb	99
37) Caprolactum	7.02	55	200683	40.91992	ppb	99

Data File : M:\YODA\DATA\Y190722\0722Y007.D
 Acq On : 22 Jul 19 15:53
 Sample : 40ug/ml 8270 07/12/19
 Misc :

Vial: 7
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:35:45 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	495664	41.28153	ppb	87
39) 2-Methylnaphthalene	7.30	142	1152682	40.82936	ppb	99
40) 1-Methylnaphthalene	7.41	142	1165727	39.57220	ppb	99
42) Hexachlorocyclopentadiene	7.47	237	76358	36.22632	ppb	97
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	549442	41.68773	ppb	99
44) 2,4,6-Trichlorophenol	7.66	196	345048	40.67603	ppb	99
45) 2,4,5-Trichlorophenol	7.71	196	358588	41.59672	ppb	99
47) 1,1'-Biphenyl	7.85	154	1489253	42.84926	ppb	100
48) 2-Chloronaphthalene	7.87	162	1154950	42.38927	ppb	99
49) 2-Nitroaniline	8.02	65	282501	41.39521	ppb	95
50) Dimethyl phthalate	8.22	163	1334879	43.06415	ppb	100
51) 2,6-DNT	8.31	165	326631	46.41282	ppb	99
52) Acenaphthylene	8.35	152	1793911	42.27332	ppb	100
53) 3-Nitroaniline	8.51	138	344090	44.92110	ppb #	86
54) Acenaphthene	8.56	154	1117569	41.78979	ppb	99
55) 2,4-Dinitrophenol	8.66	184	141841	53.84396	ppb	91
56) 4-Nitrophenol	8.76	65	145397	38.12346	ppb	98
57) Dibenzofuran	8.76	168	1645161	42.43447	ppb	97
58) 2,4-DNT	8.79	165	437148	45.63768	ppb	84
59) 2,3,4,6-Tetrachlorophenol	8.92	232	287070	43.08542	ppb	96
60) Diethyl phthalate	9.04	149	1250583	41.35233	ppb	100
61) 4-Chlorophenyl phenyl ethe	9.16	204	663552	41.53145	ppb	97
62) Fluorene	9.16	166	1287866	39.90160	ppb	99
63) 4-Nitroaniline	9.23	138	321115	44.84359	ppb	97
66) 4,6-Dinitro-2-methylphenol	9.27	198	264226	41.45764	ppb	96
67) Diphenyl amine	9.32	169	2026579	72.26269	ppb	99
68) n-Nitrosodiphenylamine	9.32	169	2026579	72.26269	ppb	99
69) 1,2-Diphenylhydrazine	9.36	77	1066020	30.83630	ppb #	86
70) 4-Bromophenyl phenyl ether	9.74	248	399585	37.14038	ppb	96
71) Hexachlorobenzene	9.81	284	418506	37.24146	ppb #	85
72) Atrazine	9.95	200	188506	20.03259	ppb	99
73) Pentachlorophenol	10.06	266	133571	35.57096	ppb	98
74) Phenanthrene	10.29	178	1932971	37.69861	ppb	100
75) Anthracene	10.36	178	2024333	38.08097	ppb	100
76) Carbazol	10.56	167	1847970	38.16254	ppb	99
77) Di-n-butylphthalate	10.95	149	2149590	38.47001	ppb	100
78) Fluoranthene	11.69	202	2142695	39.01313	ppb	98
80) Benzidine	11.87	184	539867	52.38342	ppb	99
81) Pyrene	11.96	202	2224463	46.56956	ppb	100
83) Butyl benzylphthalate	12.72	149	961739	46.64281	ppb	97
84) 3,3'-Dichlorobenzidine	13.34	252	657231	46.39284	ppb	99
85) Benz (a) anthracene	13.37	228	2025192	39.10918	ppb	100
86) Bis (2-ethylhexyl) phthala	13.37	149	1187159	40.37828	ppb	98
87) Chrysene	13.41	228	2010912	43.54828	ppb	100
88) Di-n-octylphthalate	14.11	149	2246023	47.49410	ppb	99
90) Benzo (b) fluoranthene	14.62	252	1994855	38.65759	ppb	99
91) Benzo (k) fluoranthene	14.66	252	2164247	42.69398	ppb	100
92) Benzo (a) pyrene	15.06	252	1968144	41.59870	ppb	99
93) Indeno (1,2,3-cd) pyrene	16.88	276	2256782	41.66386	ppb	99
94) Dibenz (a,h) anthracene	16.89	278	1972383	42.28453	ppb	98
95) Benzo (g,h,i) perylene	17.40	276	1774127	42.52196	ppb	99

Quantitation Report

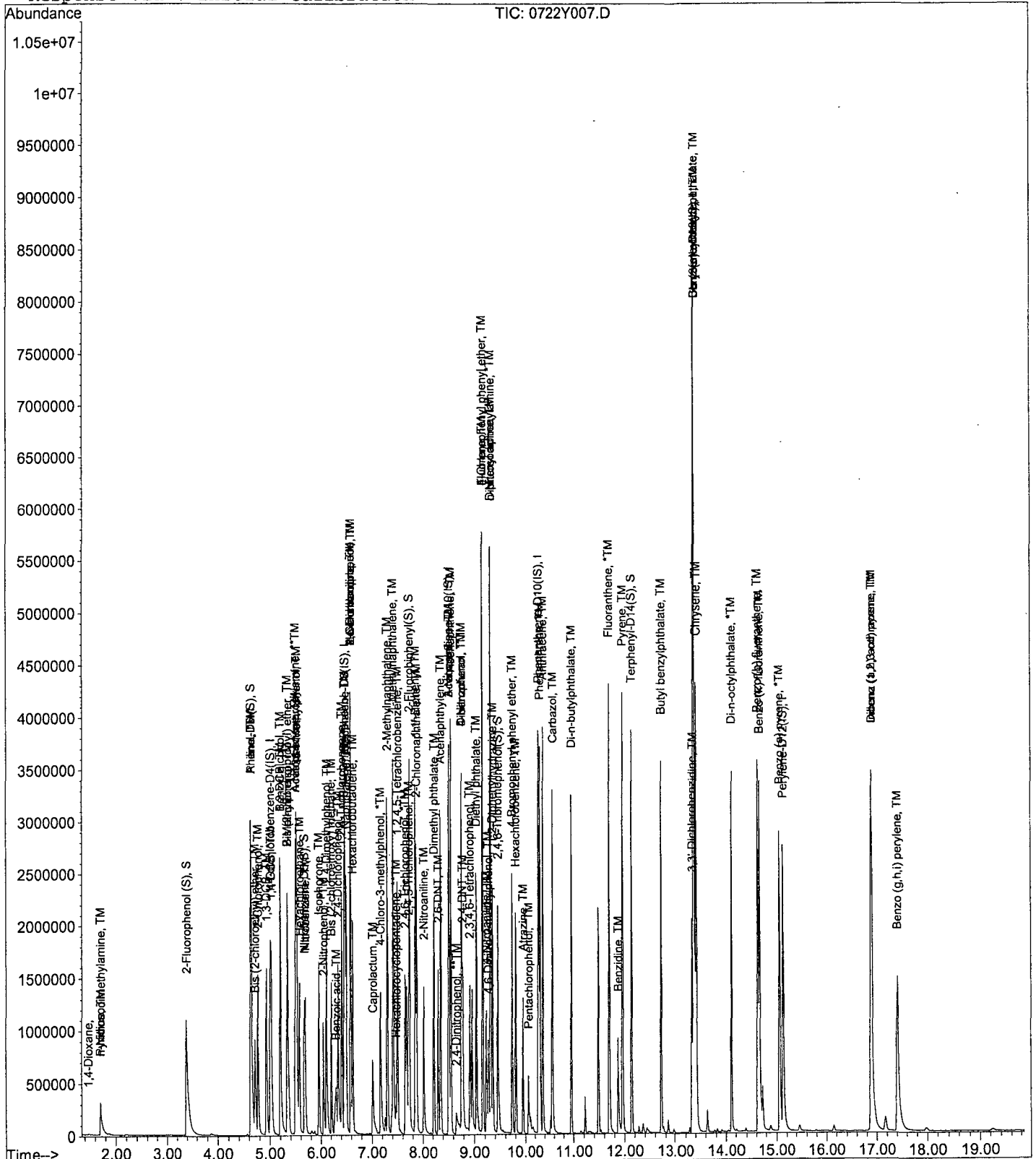
Data File : M:\YODA\DATA\Y190722\0722Y007.D
Acq On : 22 Jul 19 15:53
Sample : 40ug/ml 8270 07/12/19
Misc :

Vial: 7
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y008.D
 Acq On : 22 Jul 19 16:21
 Sample : 50ug/ml 8270 07/12/19
 Misc :

Vial: 8
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:35:45 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.01	152	416163	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.48	136	1667918	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	906758	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1797614	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.38	240	1541141	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.13	264	1693655	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.39	112	1336934	98.55440	ppb	0.00
Spiked Amount 200.000			Recovery =	49.277%		
6) Phenol-D6 (S)	4.63	99	1429162	84.53315	ppb	0.00
Spiked Amount 200.000			Recovery =	42.267%		
22) Nitrobenzene-D5 (S)	5.67	82	605450	41.05274	ppb	0.00
Spiked Amount 100.000			Recovery =	41.053%		
46) 2-Fluorobiphenyl (S)	7.73	172	1551277	48.32338	ppb	0.00
Spiked Amount 100.000			Recovery =	48.323%		
64) 2,4,6-Tribromophenol (S)	9.46	330	472040	101.03012	ppb	0.00
Spiked Amount 200.000			Recovery =	50.515%		
82) Terphenyl-D14 (S)	12.14	244	1857213	51.80090	ppb	0.00
Spiked Amount 100.000			Recovery =	51.801%		

Target Compounds

					Qvalue
2) 1,4-Dioxane	1.47	58	5936	3.43857	100
3) n-Nitrosodimethylamine	1.70	42	87948	33.13359	ppb 100
4) Pyridine	1.71	79	232128	35.12257	ppb 100
7) Phenol	4.64	94	967072	48.28978	ppb 100
8) Aniline	4.64	93	932390	47.79511	ppb 100
9) Bis (2-chloroethyl) ether	4.71	63	404530	47.70830	ppb 100
10) 2-Chlorophenol	4.77	128	770270	52.84754	ppb 100
11) 1,3-DCB	4.94	146	853552	51.25410	ppb 100
12) 1,4-DCB	5.03	146	862586	50.47923	ppb 100
13) Benzyl alcohol	5.20	108	433088	51.05988	ppb 100
14) 1,2-DCB	5.20	146	793816	49.76685	ppb 100
15) 2-Methylphenol	5.34	107	603605	49.46237	ppb 100
16) Bis (2-chloroisopropyl) et	5.33	45	620953	49.62277	ppb 100
17) Acetophenone	5.49	105	891156	47.25407	ppb 100
18) 3&4-Methylphenol	5.52	107	1430006	94.87586	ppb 100
19) n-Nitrosodi-n-propylamine	5.49	70	437552	42.43627	ppb 100
20) Hexachloroethane	5.58	117	286440	47.22839	ppb 100
23) Nitrobenzene	5.69	77	668853	45.98820	ppb 100
24) Isophorone	5.96	82	1184028	47.43253	ppb 100
25) 2-Nitrophenol	6.05	139	448046	55.96687	ppb 100
26) 2,4-Dimethylphenol	6.12	122	667102	52.19031	ppb 100
27) Benzoic acid	6.31	105	483571	58.25429	ppb 100
28) Bis (2-chloroethoxy) metha	6.21	93	769152	48.25472	ppb 100
29) 2,4-Dichlorophenol	6.34	162	642141	52.63096	ppb 100
30) 1,2,4-Trichlorobenzene	6.41	180	693411	51.39991	ppb 100
31) 3,4-Dimethylphenol	6.46	107	843939	48.16667	ppb 100
32) Naphthalene	6.50	128	2079691	49.23063	ppb 100
33) 4-Chloroaniline	6.58	127	797949	49.04655	ppb 100
34) 2,6-Dichlorophenol	6.59	162	587514	46.84150	ppb 100
35) Hexachloropropene	6.59	213	401911	47.20583	ppb 100
36) Hexachlorobutadiene	6.63	225	382861	48.89350	ppb 100
37) Caprolactum	7.03	55	247891	51.36717	ppb 100

(#) = qualifier out of range (m) = manual integration

Data File : M:\YODA\DATA\Y190722\0722Y008.D
 Acq On : 22 Jul 19 16:21
 Sample : 50ug/ml 8270 07/12/19
 Misc :

Vial: 8
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:35:45 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.16	107	619188	52.40727	ppb	100
39) 2-Methylnaphthalene	7.30	142	1424143	51.26456	ppb	100
40) 1-Methylnaphthalene	7.42	142	1459621	50.35401	ppb	100
42) Hexachlorocyclopentadiene	7.47	237	119645	57.26246	ppb	100
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	683965	52.35113	ppb	100
44) 2,4,6-Trichlorophenol	7.65	196	433619	51.56715	ppb	100
45) 2,4,5-Trichlorophenol	7.71	196	461388	53.99275	ppb	100
47) 1,1'-Biphenyl	7.85	154	1856166	53.87627	ppb	100
48) 2-Chloronaphthalene	7.87	162	1418291	52.51265	ppb	100
49) 2-Nitroaniline	8.02	65	349763	51.70229	ppb	100
50) Dimethyl phthalate	8.22	163	1666226	54.22677	ppb	100
51) 2,6-DNT	8.31	165	410703	58.87274	ppb	100
52) Acenaphthylene	8.35	152	2235476	53.14241	ppb	100
53) 3-Nitroaniline	8.50	138	434614	57.23845	ppb	100
54) Acenaphthene	8.56	154	1390142	52.43978	ppb	100
55) 2,4-Dinitrophenol	8.66	184	198431	75.98897	ppb	100
56) 4-Nitrophenol	8.75	65	185306	49.01536	ppb	100
57) Dibenzofuran	8.76	168	2046345	53.24699	ppb	100
58) 2,4-DNT	8.78	165	554698	58.41945	ppb	100
59) 2,3,4,6-Tetrachlorophenol	8.92	232	366798	55.53609	ppb	100
60) Diethyl phthalate	9.04	149	1579664	52.69361	ppb	100
61) 4-Chlorophenyl phenyl ethe	9.16	204	815907	51.51677	ppb	100
62) Fluorene	9.16	166	1578062	49.32301	ppb	100
63) 4-Nitroaniline	9.24	138	403717	56.87516	ppb	100
66) 4,6-Dinitro-2-methylphenol	9.27	198	342958	52.43640	ppb	100
67) Diphenyl amine	9.32	169	2480968	89.01008	ppb	100
68) n-Nitrosodiphenylamine	9.32	169	2480968	89.01008	ppb	100
69) 1,2-Diphenylhydrazine	9.35	77	1530807	44.55380	ppb	100
70) 4-Bromophenyl phenyl ether	9.74	248	510638	47.75488	ppb	100
71) Hexachlorobenzene	9.80	284	528160	47.28876	ppb	100
72) Atrazine	9.95	200	239643	25.62383	ppb	100
73) Pentachlorophenol	10.06	266	177793	47.63931	ppb	100
74) Phenanthrene	10.29	178	2415787	47.40522	ppb	100
75) Anthracene	10.36	178	2512868	47.56233	ppb	100
76) Carbazol	10.56	167	2335501	48.52771	ppb	100
77) Di-n-butylphthalate	10.95	149	2629794	47.35391	ppb	100
78) Fluoranthene	11.70	202	2668320	48.88277	ppb	100
80) Benzidine	11.87	184	700290	70.43070	ppb	100
81) Pyrene	11.96	202	2748798	59.64812	ppb	100
83) Butyl benzylphthalate	12.72	149	1204617	60.55548	ppb	100
84) 3,3'-Dichlorobenzidine	13.34	252	814912	59.62393	ppb	100
85) Benz (a) anthracene	13.37	228	2482336	49.68783	ppb	100
86) Bis (2-ethylhexyl) phthala	13.38	149	1456149	51.33597	ppb	100
87) Chrysene	13.41	228	2483977	55.75741	ppb	100
88) Di-n-octylphthalate	14.11	149	2780018	60.93265	ppb	100
90) Benzo (b) fluoranthene	14.62	252	2538404	50.21136	ppb	100
91) Benzo (k) fluoranthene	14.66	252	2627814	52.91419	ppb	100
92) Benzo (a) pyrene	15.06	252	2445138	52.75262	ppb	100
93) Indeno (1,2,3-cd) pyrene	16.88	276	2828859	53.30882	ppb	100
94) Dibenz (a,h) anthracene	16.89	278	2475329	54.16778	ppb	100
95) Benzo (g,h,i) perylene	17.40	276	2242403	54.86054	ppb	100

Quantitation Report

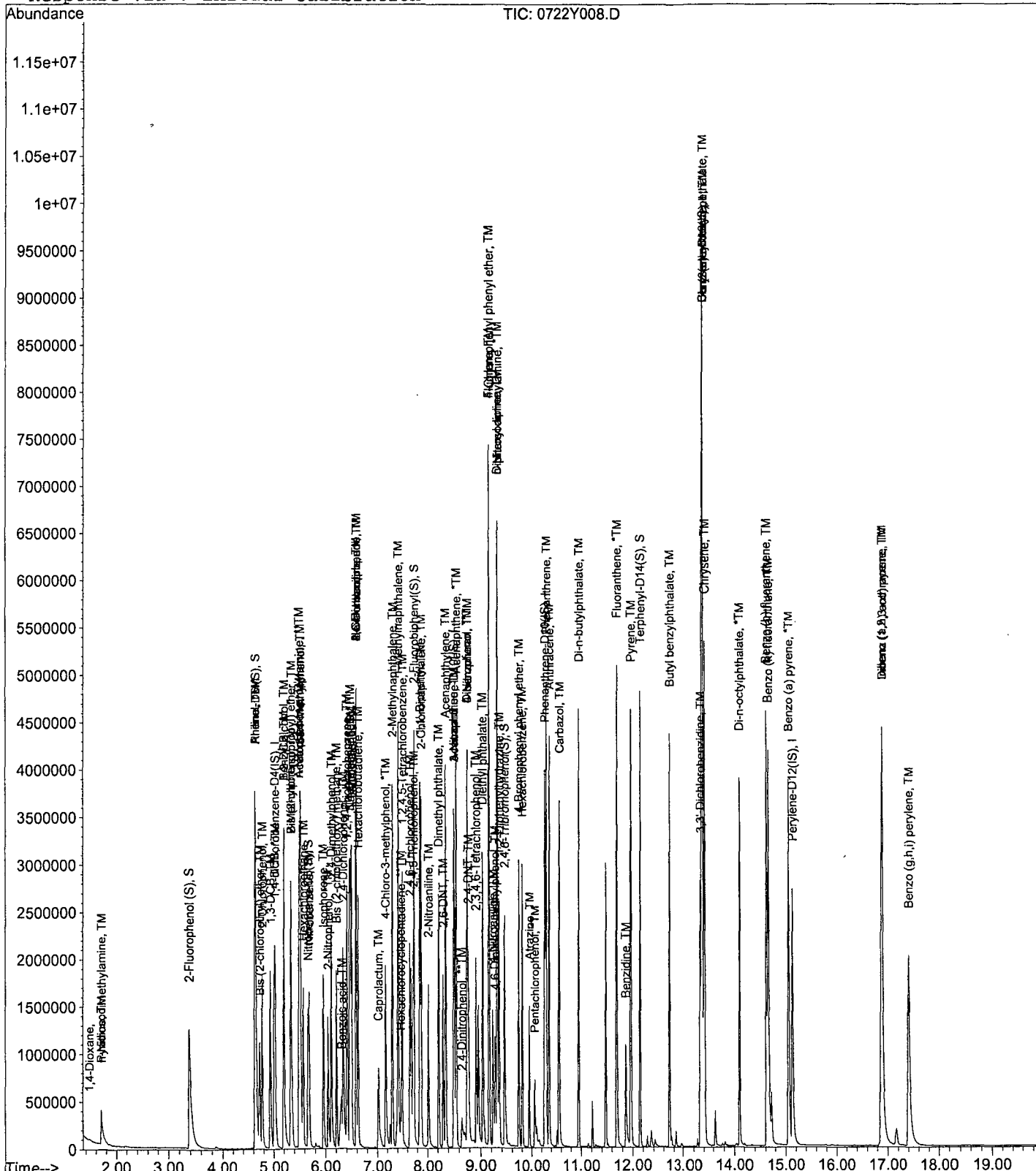
Data File : M:\YODA\DATA\Y190722\0722Y008.D
 Acq On : 22 Jul 19 16:21
 Sample : 50ug/ml 8270 07/12/19
 Misc :

Vial: 8
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y009.D
 Acq On : 22 Jul 19 16:49
 Sample : 60ug/ml 8270 07/12/19
 Misc :

Vial: 9
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:45 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:38:07 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	437675	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.48	136	1720406	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.51	164	937619	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1842343	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.39	240	1607541	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.13	264	1780829	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.38	112	1612028	107.20956	ppb	0.00
Spiked Amount 200.000			Recovery =	53.605%		
6) Phenol-D6 (S)	4.62	99	1692233	95.57774	ppb	0.00
Spiked Amount 200.000			Recovery =	47.789%		
22) Nitrobenzene-D5 (S)	5.66	82	718067	49.13574	ppb	0.00
Spiked Amount 100.000			Recovery =	49.136%		
46) 2-Fluorobiphenyl (S)	7.73	172	1802151	49.66287	ppb	0.00
Spiked Amount 100.000			Recovery =	49.663%		
64) 2,4,6-Tribromophenol (S)	9.46	330	562766	109.26102	ppb	0.00
Spiked Amount 200.000			Recovery =	54.630%		
82) Terphenyl-D14 (S)	12.14	244	2192539	53.48439	ppb	0.00
Spiked Amount 100.000			Recovery =	53.484%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.48	58	6942m	4.52687		45
3) n-Nitrosodimethylamine	1.70	42	121038	54.00330	ppb	97
4) Pyridine	1.71	79	284393	52.07852	ppb	100
7) Phenol	4.64	94	1145828	54.28248	ppb	94
8) Aniline	4.63	93	1121005	54.05728	ppb	# 85
9) Bis (2-chloroethyl) ether	4.72	63	491483	55.21180	ppb	97
10) 2-Chlorophenol	4.77	128	920952	57.12711	ppb	99
11) 1,3-DCB	4.93	146	1031789	56.69173	ppb	98
12) 1,4-DCB	5.02	146	1043327	56.83571	ppb	98
13) Benzyl alcohol	5.20	108	522063	56.90191	ppb	100
14) 1,2-DCB	5.20	146	953510	55.39926	ppb	99
15) 2-Methylphenol	5.34	107	729397	55.43086	ppb	99
16) Bis (2-chloroisopropyl) et	5.33	45	735058	52.52482	ppb	# 87
17) Acetophenone	5.49	105	1066834	53.66137	ppb	99
18) 3&4-Methylphenol	5.52	107	1706286	105.76202	ppb	100
19) n-Nitrosodi-n-propylamine	5.49	70	518839	50.77146	ppb	99
20) Hexachloroethane	5.57	117	344927	54.23276	ppb	84
23) Nitrobenzene	5.69	77	803975	55.25210	ppb	98
24) Isophorone	5.97	82	1420690	56.16339	ppb	92
25) 2-Nitrophenol	6.05	139	547766	63.45967	ppb	96
26) 2,4-Dimethylphenol	6.12	122	794617	57.53359	ppb	98
27) Benzoic acid	6.32	105	499109	58.23316	ppb	100
28) Bis (2-chloroethoxy) metha	6.21	93	917851	55.36882	ppb	99
29) 2,4-Dichlorophenol	6.34	162	766243	58.46976	ppb	99
30) 1,2,4-Trichlorobenzene	6.41	180	833371	57.56733	ppb	99
31) 3,4-Dimethylphenol	6.46	107	1015102	55.90949	ppb	99
32) Napthalene	6.50	128	2507244	55.67213	ppb	100
33) 4-Chloroaniline	6.58	127	935945	53.74350	ppb	99
34) 2,6-Dichlorophenol	6.58	162	692417	52.76459	ppb	97
35) Hexachloropropene	6.59	213	482994	55.43696	ppb	98
36) Hexachlorobutadiene	6.63	225	461712	56.99151	ppb	99
37) Caprolactum	7.04	55	300817	58.55575	ppb	99

Data File : M:\YODA\DATA\Y190722\0722Y009.D
 Acq On : 22 Jul 19 16:49
 Sample : 60ug/ml 8270 07/12/19
 Misc :

Vial: 9
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:45 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:38:07 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	742100	58.38930	ppb	99
39) 2-Methylnaphthalene	7.31	142	1707887	56.78975	ppb	99
40) 1-Methylnaphthalene	7.42	142	1730112	55.23433	ppb	99
42) Hexachlorocyclopentadiene	7.47	237	173882	95.99836	ppb	98
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	819581	57.17759	ppb	99
44) 2,4,6-Trichlorophenol	7.65	196	526860	58.86615	ppb	99
45) 2,4,5-Trichlorophenol	7.70	196	558447	59.42769	ppb	# 93
47) 1,1'-Biphenyl	7.84	154	2186516	55.88384	ppb	# 98
48) 2-Chloronaphthalene	7.87	162	1682772	55.78230	ppb	100
49) 2-Nitroaniline	8.02	65	422122	57.57672	ppb	98
50) Dimethyl phthalate	8.22	163	1988353	57.42611	ppb	98
51) 2,6-DNT	8.31	165	501942	62.17338	ppb	99
52) Acenaphthylene	8.35	152	2688545	57.25804	ppb	100
53) 3-Nitroaniline	8.50	138	510176	59.56709	ppb	100
54) Acenaphthene	8.56	154	1645420	54.98872	ppb	99
55) 2,4-Dinitrophenol	8.65	184	243776m	92.48619	ppb	91
56) 4-Nitrophenol	8.75	65	222218	57.12374	ppb	96
57) Dibenzofuran	8.76	168	2446444	56.48580	ppb	100
58) 2,4-DNT	8.78	165	662711	60.96695	ppb	98
59) 2,3,4,6-Tetrachlorophenol	8.92	232	446533	62.13068	ppb	98
60) Diethyl phthalate	9.04	149	1864739	56.43276	ppb	100
61) 4-Chlorophenyl phenyl ethe	9.16	204	959331	53.53220	ppb	97
62) Fluorene	9.16	166	1836197	52.14519	ppb	99
63) 4-Nitroaniline	9.24	138	491416	60.93816	ppb	99
66) 4,6-Dinitro-2-methylphenol	9.27	198	414952	59.90914	ppb	98
67) Diphenyl amine	9.32	169	2928675	102.65355	ppb	100
68) n-Nitrosodiphenylamine	9.32	169	2928675	102.65355	ppb	100
69) 1,2-Diphenylhydrazine	9.35	77	1842256	55.72450	ppb	98
70) 4-Bromophenyl phenyl ether	9.74	248	619861	56.96373	ppb	96
71) Hexachlorobenzene	9.80	284	632881	56.24004	ppb	96
72) Atrazine	9.95	200	289997	29.32240	ppb	100
73) Pentachlorophenol	10.06	266	217511	61.88485	ppb	99
74) Phenanthrene	10.29	178	2816064	53.11010	ppb	100
75) Anthracene	10.36	178	2937033	53.72686	ppb	100
76) Carbazol	10.56	167	2745559	54.36181	ppb	100
77) Di-n-butylphthalate	10.95	149	3160640	55.24913	ppb	100
78) Fluoranthene	11.70	202	3182581	55.18420	ppb	99
80) Benzidine	11.86	184	887325	75.68119	ppb	98
81) Pyrene	11.97	202	3263914	60.00730	ppb	100
83) Butyl benzylphthalate	12.72	149	1427380	62.33458	ppb	99
84) 3,3'-Dichlorobenzidine	13.34	252	978772	63.06674	ppb	99
85) Benz (a) anthracene	13.37	228	2974744	55.31685	ppb	100
86) Bis (2-ethylhexyl) phthala	13.38	149	1696787	55.39657	ppb	99
87) Chrysene	13.41	228	2893904	57.15954	ppb	99
88) Di-n-octylphthalate	14.10	149	3364339	64.39260	ppb	# 94
90) Benzo (b) fluoranthene	14.62	252	3070425	56.24455	ppb	99
91) Benzo (k) fluoranthene	14.66	252	3073129	56.50474	ppb	100
92) Benzo (a) pyrene	15.06	252	2939565	57.96905	ppb	99
93) Indeno (1,2,3-cd) pyrene	16.89	276	3399948	58.81639	ppb	100
94) Dibenz (a,h) anthracene	16.90	278	2976911	59.57297	ppb	99
95) Benzo (g,h,i) perylene	17.41	276	2685608	59.89385	ppb	99

Quantitation Report

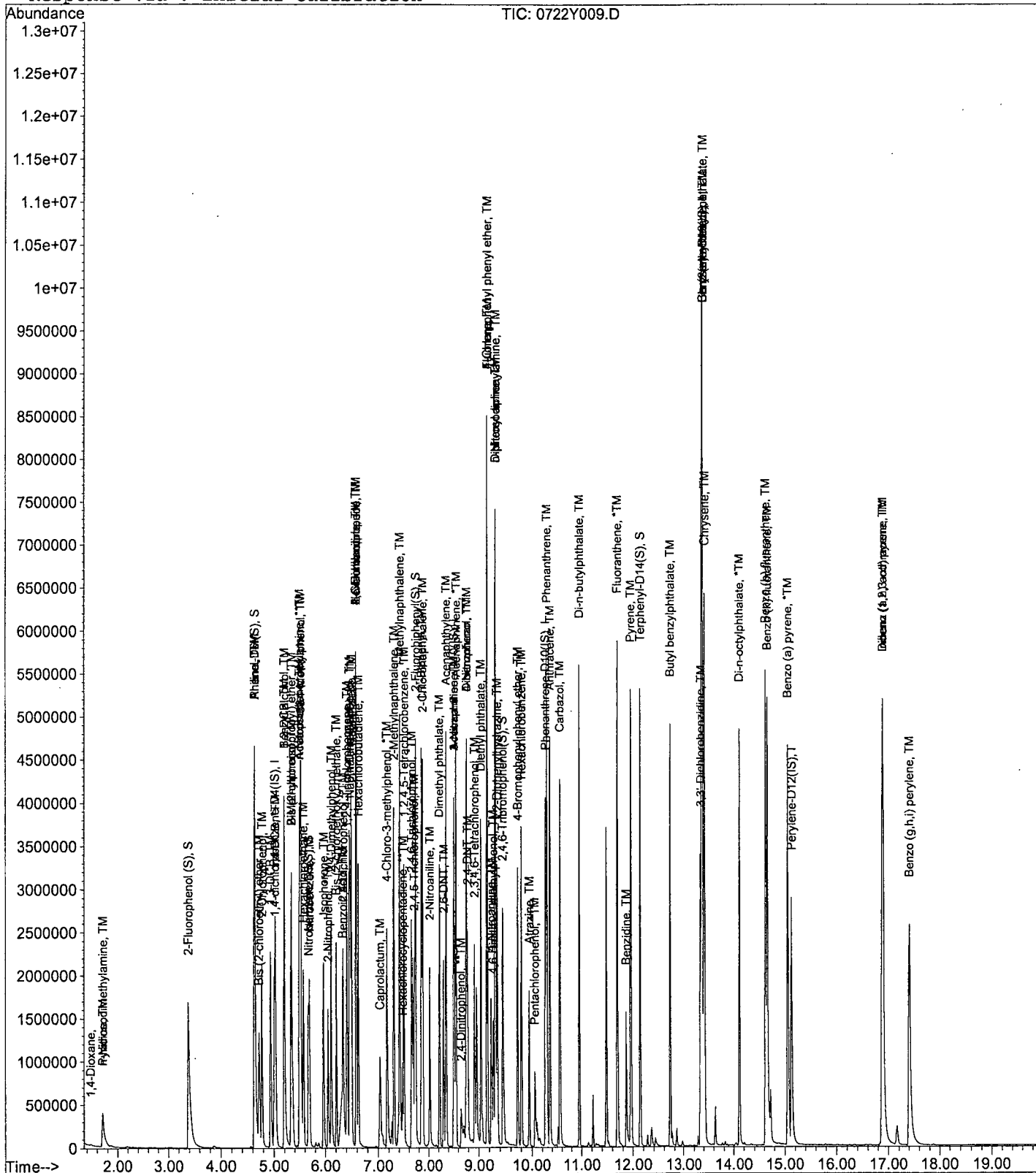
Data File : M:\YODA\DATA\Y190722\0722Y009.D
Acq On : 22 Jul 19 16:49
Sample : 60ug/ml 8270 07/12/19
Misc :

Vial: 9
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 23 8:45 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y010.D
 Acq On : 22 Jul 19 17:17
 Sample : 80ug/ml 8270 07/12/19
 Misc :

Vial: 10
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:46 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 17:50:09 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.01	152	422671	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.48	136	1669353	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	905246	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1837346	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.39	240	1538156	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.14	264	1745092	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.38	112	2066331	146.98991	ppb	0.00
Spiked Amount 200.000			Recovery =	73.495%		
6) Phenol-D6 (S)	4.63	99	2120145	136.12499	ppb	0.00
Spiked Amount 200.000			Recovery =	68.063%		
22) Nitrobenzene-D5 (S)	5.67	82	923542	70.77873	ppb	0.00
Spiked Amount 100.000			Recovery =	70.779%		
46) 2-Fluorobiphenyl (S)	7.73	172	2251275	70.51067	ppb	0.00
Spiked Amount 100.000			Recovery =	70.511%		
64) 2,4,6-Tribromophenol (S)	9.46	330	730628	152.07906	ppb	0.00
Spiked Amount 200.000			Recovery =	76.040%		
82) Terphenyl-D14 (S)	12.14	244	2799653	72.89144	ppb	0.00
Spiked Amount 100.000			Recovery =	72.891%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.47	58	8554	6.67820		91
3) n-Nitrosodimethylamine	1.69	42	162191	82.53792	ppb	87
4) Pyridine	1.70	79	403533	84.37735	ppb	96
7) Phenol	4.65	94	1387486	69.85551	ppb	84
8) Aniline	4.64	93	1426432	73.85061	ppb	# 96
9) Bis (2-chloroethyl) ether	4.72	63	629192	74.33303	ppb	93
10) 2-Chlorophenol	4.77	128	1182620	75.48069	ppb	99
11) 1,3-DCB	4.94	146	1330066	75.32748	ppb	100
12) 1,4-DCB	5.03	146	1333436	75.22611	ppb	100
13) Benzyl alcohol	5.21	108	672312	76.93627	ppb	95
14) 1,2-DCB	5.20	146	1216306	74.02032	ppb	99
15) 2-Methylphenol	5.34	107	943686	75.20546	ppb	99
16) Bis (2-chloroisopropyl) et	5.33	45	928661	69.09613	ppb	96
17) Acetophenone	5.50	105	1375888	73.75039	ppb	97
18) 3&4-Methylphenol	5.52	107	2151118	143.51527	ppb	96
19) n-Nitrosodi-n-propylamine	5.50	70	667264	72.34755	ppb	99
20) Hexachloroethane	5.58	117	446102	74.39339	ppb	100
23) Nitrobenzene	5.69	77	1033417	75.27100	ppb	97
24) Isophorone	5.97	82	1864699	77.32981	ppb	99
25) 2-Nitrophenol	6.05	139	711440	82.41463	ppb	98
26) 2,4-Dimethylphenol	6.12	122	1036273	76.90910	ppb	98
27) Benzoic acid	6.34	105	663728	80.71664	ppb	98
28) Bis (2-chloroethoxy) metha	6.22	93	1187960	74.87666	ppb	97
29) 2,4-Dichlorophenol	6.34	162	989795	77.42557	ppb	99
30) 1,2,4-Trichlorobenzene	6.41	180	1081322	76.44216	ppb	99
31) 3,4-Dimethylphenol	6.46	107	1306929	75.13868	ppb	98
32) Napthalene	6.51	128	3204627	73.84697	ppb	99
33) 4-Chloroaniline	6.59	127	1124848	68.68776	ppb	96
34) 2,6-Dichlorophenol	6.59	162	873852	71.34942	ppb	98
35) Hexachloropropene	6.59	213	622217	77.34861	ppb	99
36) Hexachlorobutadiene	6.63	225	598302	77.18330	ppb	99
37) Caprolactum	7.05	55	400377	79.22139	ppb	99

Data File : M:\YODA\DATA\Y190722\0722Y010.D
 Acq On : 22 Jul 19 17:17
 Sample : 80ug/ml 8270 07/12/19
 Misc :

Vial: 10
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:46 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 17:50:09 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	980242	78.62503	ppb	92
39) 2-Methylnaphthalene	7.30	142	2160923	74.31757	ppb	99
40) 1-Methylnaphthalene	7.42	142	2210853	73.48526	ppb	99
42) Hexachlorocyclopentadiene	7.47	237	279754	82.81229	ppb	100
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	1065201	76.30187	ppb	99
44) 2,4,6-Trichlorophenol	7.66	196	696744	80.10084	ppb	99
45) 2,4,5-Trichlorophenol	7.71	196	731505	79.10127	ppb	99
47) 1,1'-Biphenyl	7.85	154	2771620	72.56990	ppb	98
48) 2-Chloronaphthalene	7.88	162	2170777	74.02629	ppb	97
49) 2-Nitroaniline	8.02	65	550085	77.24621	ppb	91
50) Dimethyl phthalate	8.22	163	2601608	76.30355	ppb	99
51) 2,6-DNT	8.31	165	651434	80.34710	ppb	87
52) Acenaphthylene	8.35	152	3415852	74.51654	ppb	100
53) 3-Nitroaniline	8.51	138	657807	77.55445	ppb	93
54) Acenaphthene	8.56	154	2112619	72.61464	ppb	100
55) 2,4-Dinitrophenol	8.66	184	358399m	105.36927	ppb	97
56) 4-Nitrophenol	8.75	65	290526	78.78486	ppb	94
57) Dibenzofuran	8.76	168	3130346	74.00607	ppb	95
58) 2,4-DNT	8.79	165	868084	80.28114	ppb	89
59) 2,3,4,6-Tetrachlorophenol	8.92	232	596505	84.18512	ppb	98
60) Diethyl phthalate	9.05	149	2398508	74.55840	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.16	204	1212449	70.99473	ppb	96
62) Fluorene	9.17	166	2322746	70.29886	ppb	98
63) 4-Nitroaniline	9.25	138	642323	79.55641	ppb	100
66) 4,6-Dinitro-2-methylphenol	9.28	198	573201	88.99629	ppb	98
67) Diphenyl amine	9.32	169	3722897	138.64184	ppb	100
68) n-Nitrosodiphenylamine	9.32	169	3722897	138.64184	ppb	100
69) 1,2-Diphenylhydrazine	9.36	77	2320560	74.95643	ppb	# 89
70) 4-Bromophenyl phenyl ether	9.74	248	804711	76.13385	ppb	95
71) Hexachlorobenzene	9.81	284	847147	77.57710	ppb	# 86
72) Atrazine	9.95	200	386725	39.34956	ppb	96
73) Pentachlorophenol	10.06	266	307047	91.51224	ppb	97
74) Phenanthrene	10.29	178	3658631	71.50259	ppb	100
75) Anthracene	10.36	178	3780700	71.82454	ppb	99
76) Carbazol	10.56	167	3553229	72.57597	ppb	98
77) Di-n-butylphthalate	10.95	149	4087803	74.14917	ppb	99
78) Fluoranthene	11.70	202	4058534	72.53278	ppb	98
80) Benzidine	11.87	184	1144628	90.77728	ppb	100
81) Pyrene	11.97	202	4171708	76.89439	ppb	99
83) Butyl benzylphthalate	12.72	149	1831013	80.18500	ppb	93
84) 3,3'-Dichlorobenzidine	13.35	252	1258051	80.93991	ppb	# 98
85) Benz (a) anthracene	13.38	228	3740129	74.00832	ppb	100
86) Bis (2-ethylhexyl) phthala	13.38	149	2063704	71.62398	ppb	99
87) Chrysene	13.41	228	3770245	76.35309	ppb	99
88) Di-n-octylphthalate	14.11	149	4235223	80.94007	ppb	98
90) Benzo (b) fluoranthene	14.63	252	4354959	81.71693	ppb	98
91) Benzo (k) fluoranthene	14.67	252	3680501	70.55089	ppb	98
92) Benzo (a) pyrene	15.07	252	3864242	78.12166	ppb	98
93) Indeno (1,2,3-cd) pyrene	16.89	276	4483596	79.28853	ppb	99
94) Dibenz (a,h) anthracene	16.91	278	3879445	79.55640	ppb	98
95) Benzo (g,h,i) perylene	17.41	276	3578990	80.76459	ppb	99

Quantitation Report

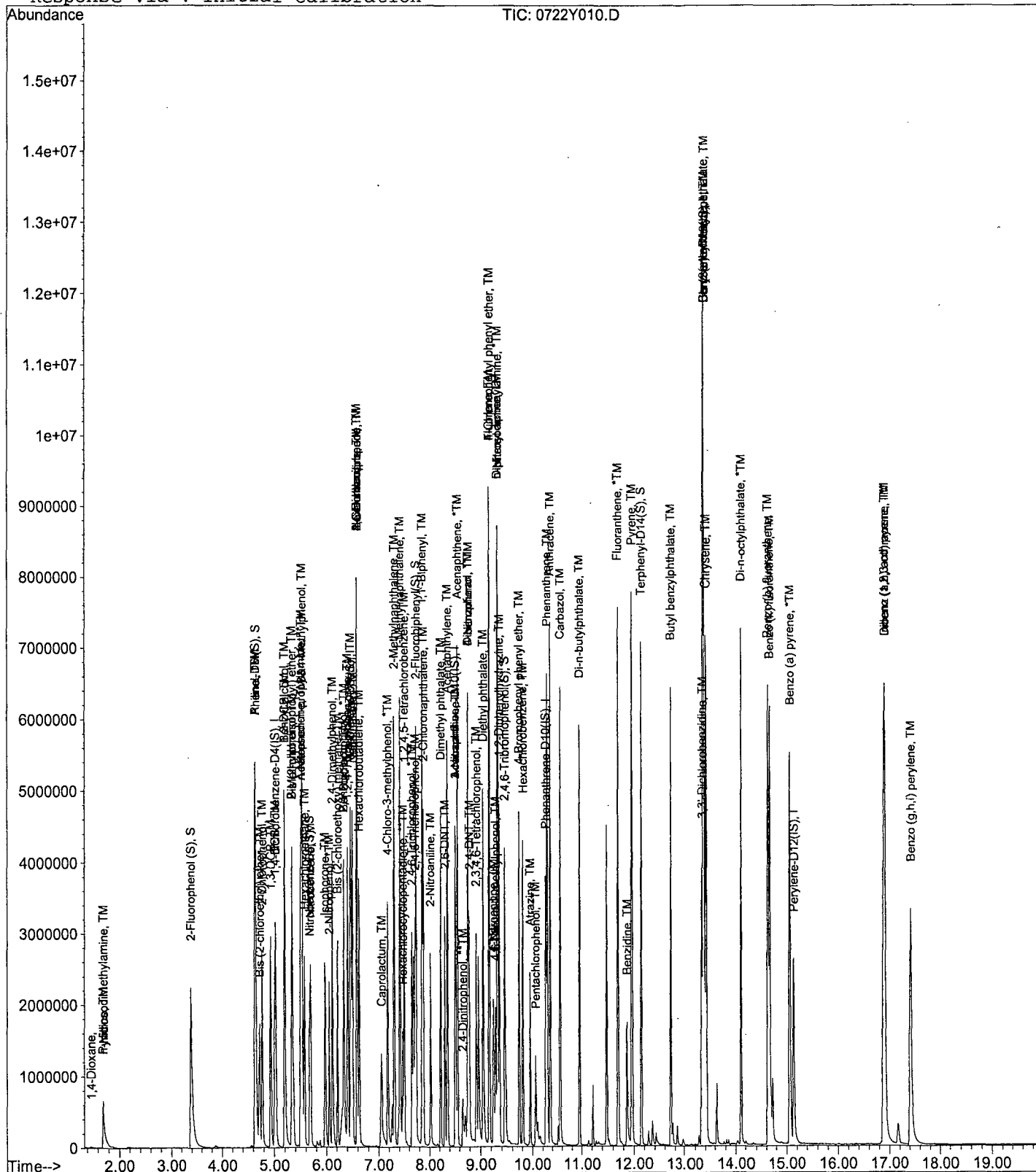
Data File : M:\YODA\DATA\Y190722\0722Y010.D
 Acq On : 22 Jul 19 17:17
 Sample : 80ug/ml 8270 07/12/19
 Misc :

Vial: 10
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:46 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration

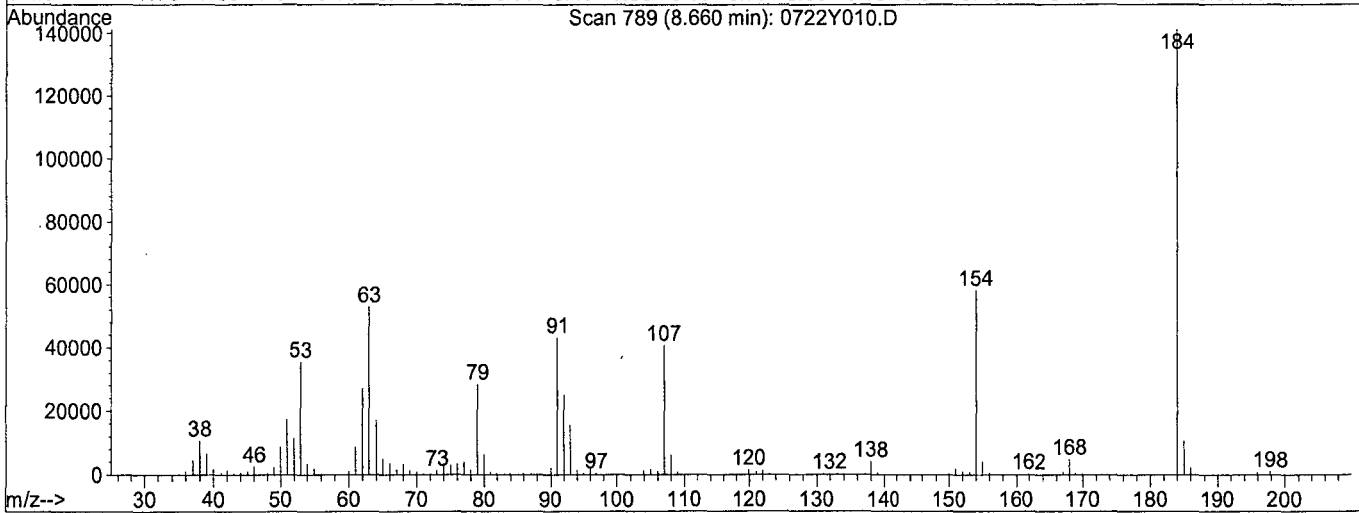
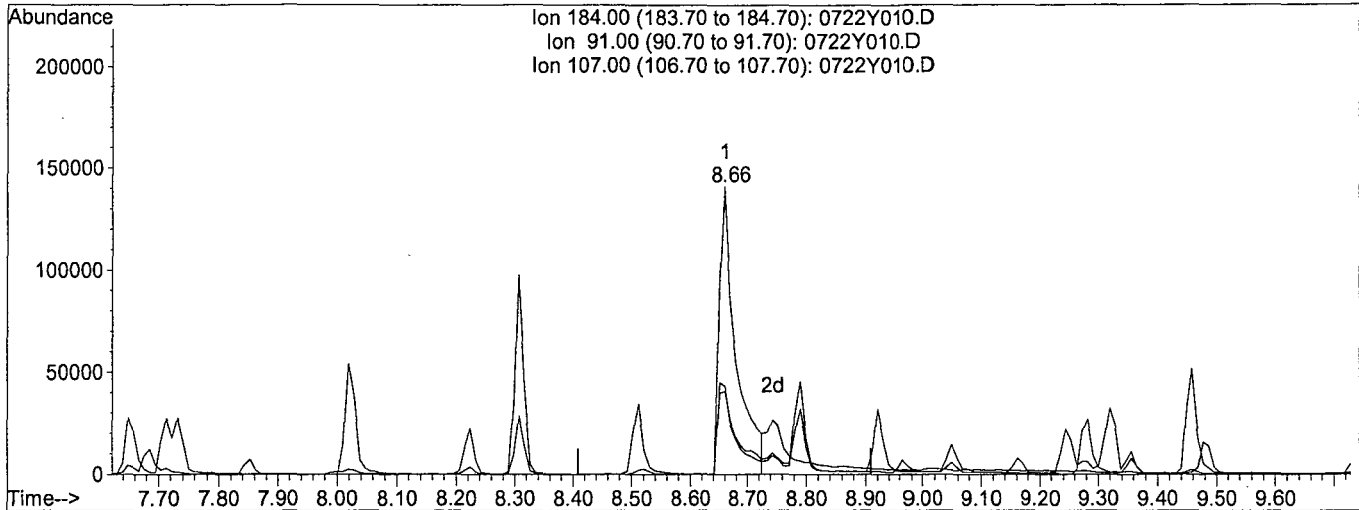


Quantitation Report

Data File : M:\YODA\DATA\Y190722\0722Y010.D
 Acq On : 22 Jul 19 17:17
 Sample : 80ug/ml 8270 07/12/19
 Misc :
 Quant Time: Jul 22 17:50 2019

Vial: 10
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:38:43 2019
 Response via : Multiple Level Calibration



TIC: 0722Y010.D

(55) 2,4-Dinitrophenol (**TM)

8.66min 85.1541ppb

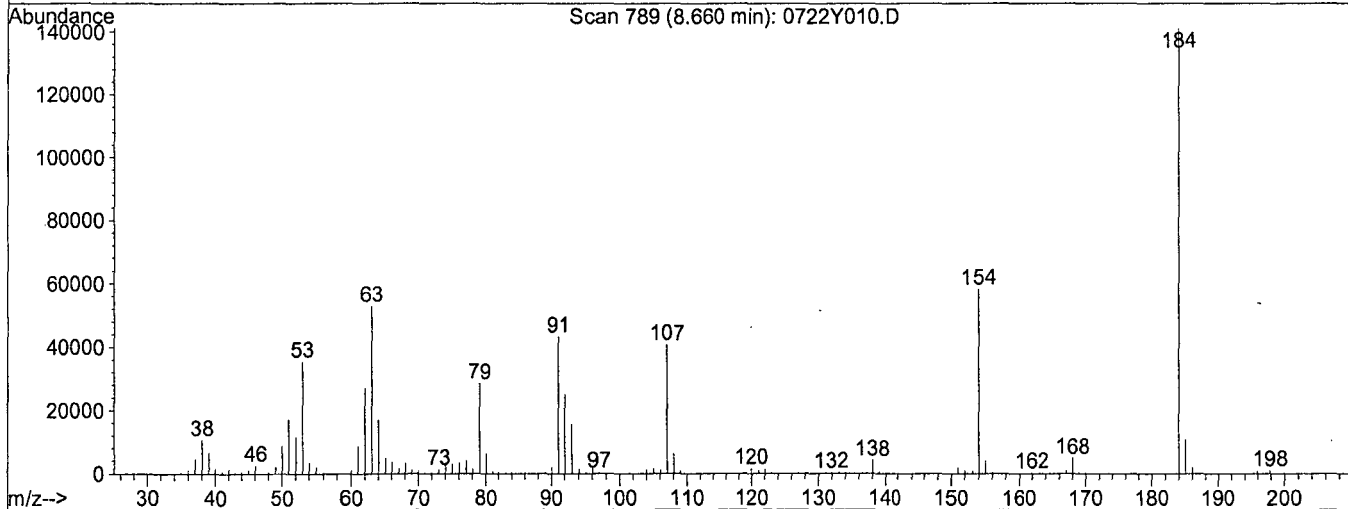
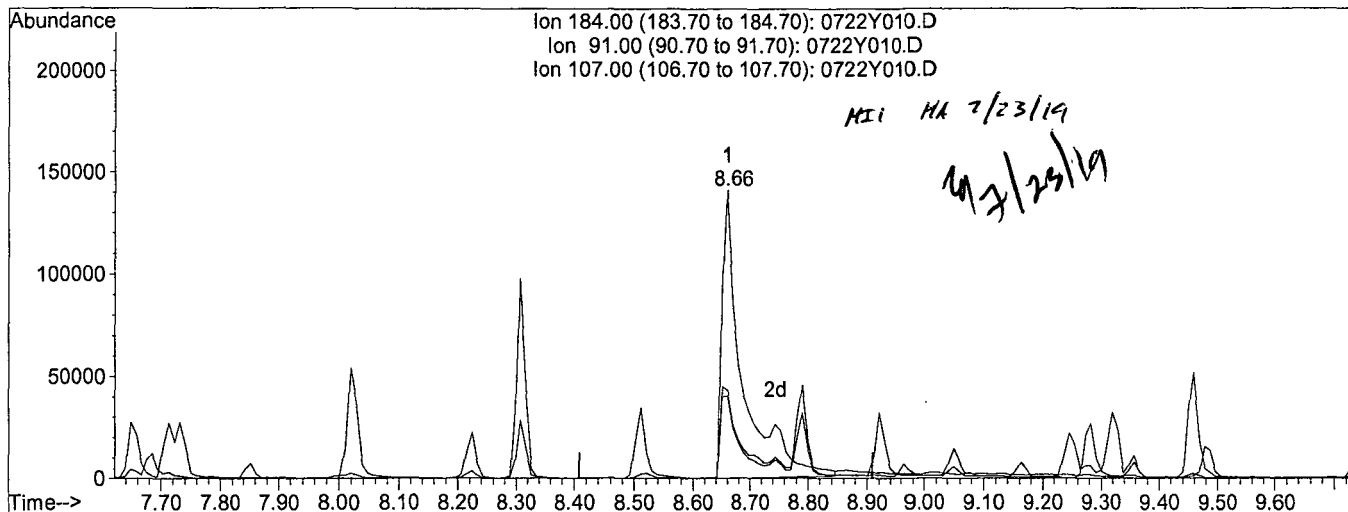
response 289640

Ion	Exp%	Act%
184.00	100	100
91.00	32.70	30.01
107.00	29.50	28.49
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190722\0722Y010.D Vial: 10
 Acq On : 22 Jul 19 17:17 Operator: MA,SS
 Sample : 80ug/ml 8270 07/12/19 Inst : Yoda
 Misc : Multiplr: 1.00
 Quant Time: Jul 23 8:46 2019 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:38:43 2019
 Response via : Multiple Level Calibration



TIC: 0722Y010.D

(55) 2,4-Dinitrophenol (**TM)

8.66min 105.3693ppb m

response 358399

Ion	Exp%	Act%
184.00	100	100
91.00	32.70	30.59
107.00	29.50	28.77
0.00	0.00	0.00

Data File : M:\YODA\DATA\Y190722\0722Y011.D
 Acq On : 22 Jul 19 17:45
 Sample : 100ug/ml 8270 07/12/19
 Misc :

Vial: 11
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:47 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 17:50:09 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.01	152	462838	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.48	136	1798921	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	994363	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	2065221	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.39	240	1675670	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.15	264	1951293	40.00000	ppb	0.02

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.39	112	2801865	182.01547	ppb	0.00
Spiked Amount 200.000			Recovery =	91.007%		
6) Phenol-D6 (S)	4.64	99	2757691	161.69305	ppb	0.00
Spiked Amount 200.000			Recovery =	80.847%		
22) Nitrobenzene-D5 (S)	5.68	82	1250807	88.95543	ppb	0.00
Spiked Amount 100.000			Recovery =	88.955%		
46) 2-Fluorobiphenyl (S)	7.74	172	2941483	83.87147	ppb	0.00
Spiked Amount 100.000			Recovery =	83.871%		
64) 2,4,6-Tribromophenol (S)	9.47	330	1021627	193.59187	ppb	0.00
Spiked Amount 200.000			Recovery =	96.796%		
82) Terphenyl-D14 (S)	12.15	244	3714695	88.77841	ppb	0.00
Spiked Amount 100.000			Recovery =	88.778%		

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.47	58	12433	8.86420		75
3) n-Nitrosodimethylamine	1.70	42	217647	101.14698	ppb	100
4) Pyridine	1.71	79	540705	103.24777	ppb	98
7) Phenol	4.66	94	1836616	84.44304	ppb	80
8) Aniline	4.64	93	1870543	88.43907	ppb	# 79
9) Bis (2-chloroethyl) ether	4.73	63	841111	90.74557	ppb	92
10) 2-Chlorophenol	4.78	128	1615119	94.13878	ppb	98
11) 1,3-DCB	4.94	146	1768812	91.48194	ppb	98
12) 1,4-DCB	5.03	146	1768858	91.13031	ppb	99
13) Benzyl alcohol	5.21	108	913145	95.42748	ppb	99
14) 1,2-DCB	5.20	146	1617682	89.90311	ppb	98
15) 2-Methylphenol	5.34	107	1263329	91.94154	ppb	98
16) Bis (2-chloroisopropyl) et	5.34	45	1229980	83.57339	ppb	# 82
17) Acetophenone	5.50	105	1858400	90.96910	ppb	99
18) 3&4-Methylphenol	5.53	107	2817041	171.63288	ppb	97
19) n-Nitrosodi-n-propylamine	5.51	70	728509	72.13308	ppb	99
20) Hexachloroethane	5.58	117	589503	89.77587	ppb	92
23) Nitrobenzene	5.70	77	1400860	94.68538	ppb	100
24) Isophorone	5.99	82	2561188	98.56342	ppb	94
25) 2-Nitrophenol	6.06	139	974060	104.70992	ppb	95
26) 2,4-Dimethylphenol	6.12	122	1392839	95.92694	ppb	99
27) Benzoic acid	6.36	105	976965	110.25239	ppb	97
28) Bis (2-chloroethoxy) metha	6.22	93	1593579	93.20825	ppb	99
29) 2,4-Dichlorophenol	6.35	162	1337451	97.08522	ppb	98
30) 1,2,4-Trichlorobenzene	6.42	180	1430027	93.81196	ppb	99
31) 3,4-Dimethylphenol	6.47	107	1720490	91.79094	ppb	100
32) Napthalene	6.51	128	4201904	89.85400	ppb	100
33) 4-Chloroaniline	6.60	127	1358084	76.95702	ppb	94
34) 2,6-Dichlorophenol	6.59	162	1137395	86.17871	ppb	97
35) Hexachloropropene	6.59	213	822198	94.84691	ppb	97
36) Hexachlorobutadiene	6.64	225	799165	95.66992	ppb	99
37) Caprolactum	7.08	55	546327	100.31412	ppb	95

Data File : M:\YODA\DATA\Y190722\0722Y011.D
 Acq On : 22 Jul 19 17:45
 Sample : 100ug/ml 8270 07/12/19
 Misc :

Vial: 11
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:47 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 17:50:09 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.18	107	1332114	99.15280	ppb	93
39) 2-Methylnaphthalene	7.30	142	2876492	91.80186	ppb	99
40) 1-Methylnaphthalene	7.42	142	2929016	90.34376	ppb	100
42) Hexachlorocyclopentadiene	7.48	237	463958	107.91561	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.51	216	1439079	93.84473	ppb	99
44) 2,4,6-Trichlorophenol	7.66	196	951976	99.63490	ppb	100
45) 2,4,5-Trichlorophenol	7.72	196	999274	98.37221	ppb	99
47) 1,1'-Biphenyl	7.86	154	3638478	86.72899	ppb	99
48) 2-Chloronaphthalene	7.88	162	2892828	89.80801	ppb	99
49) 2-Nitroaniline	8.03	65	744695	95.20230	ppb	95
50) Dimethyl phthalate	8.23	163	3509158	93.69739	ppb	99
51) 2,6-DNT	8.32	165	892658	100.23204	ppb	91
52) Acenaphthylene	8.36	152	4516447	89.69583	ppb	99
53) 3-Nitroaniline	8.52	138	881092	94.56951	ppb	90
54) Acenaphthene	8.57	154	2789731	87.29452	ppb	100
55) 2,4-Dinitrophenol	8.66	184	543188m	145.38480	ppb	94
56) 4-Nitrophenol	8.76	65	413874	102.17568	ppb	92
57) Dibenzofuran	8.77	168	4115204	88.57028	ppb	96
58) 2,4-DNT	8.80	165	1202620	101.25159	ppb	84
59) 2,3,4,6-Tetrachlorophenol	8.93	232	830315	106.68068	ppb	98
60) Diethyl phthalate	9.06	149	3282647	92.89690	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.17	204	1595502	85.05144	ppb	100
62) Fluorene	9.17	166	3026835	83.39826	ppb	99
63) 4-Nitroaniline	9.26	138	887397	100.06019	ppb	99
66) 4,6-Dinitro-2-methylphenol	9.29	198	801387	110.69594	ppb	96
67) Diphenyl amine	9.34	169	4916676	162.89558	ppb	98
68) n-Nitrosodiphenylamine	9.34	169	4916676	162.89558	ppb	98
69) 1,2-Diphenylhydrazine	9.36	77	3086544	88.69783	ppb	# 83
70) 4-Bromophenyl phenyl ether	9.75	248	1123231	94.54343	ppb	99
71) Hexachlorobenzene	9.82	284	1164684	94.88712	ppb	# 84
72) Atrazine	9.96	200	533051	48.25372	ppb	96
73) Pentachlorophenol	10.07	266	464788	123.24056	ppb	100
74) Phenanthrene	10.30	178	4904500	85.27511	ppb	100
75) Anthracene	10.37	178	5026536	84.95596	ppb	99
76) Carbazol	10.57	167	4745182	86.22773	ppb	98
77) Di-n-butylphthalate	10.96	149	5359696	86.49299	ppb	99
78) Fluoranthene	11.70	202	5373587	85.43854	ppb	98
80) Benzidine	11.87	184	1601348	116.57634	ppb	# 97
81) Pyrene	11.97	202	5475195	92.63866	ppb	99
83) Butyl benzylphthalate	12.73	149	2454618	98.67281	ppb	98
84) 3,3'-Dichlorobenzidine	13.36	252	1698474	100.30793	ppb	# 97
85) Benz (a) anthracene	13.37	228	4885979	88.74776	ppb	99
86) Bis (2-ethylhexyl) phthala	13.38	149	2612510	83.23020	ppb	98
87) Chrysene	13.43	228	5036880	93.63334	ppb	99
88) Di-n-octylphthalate	14.12	149	5643837	99.00877	ppb	98
90) Benzo (b) fluoranthene	14.64	252	5944100	99.74931	ppb	99
91) Benzo (k) fluoranthene	14.67	252	4860324	83.32141	ppb	98
92) Benzo (a) pyrene	15.07	252	5246564	94.85887	ppb	98
93) Indeno (1,2,3-cd) pyrene	16.91	276	6095397	96.40104	ppb	99
94) Dibenz (a,h) anthracene	16.93	278	5279293	96.82269	ppb	98
95) Benzo (g,h,i) perylene	17.43	276	4963616	100.17389	ppb	99

Quantitation Report

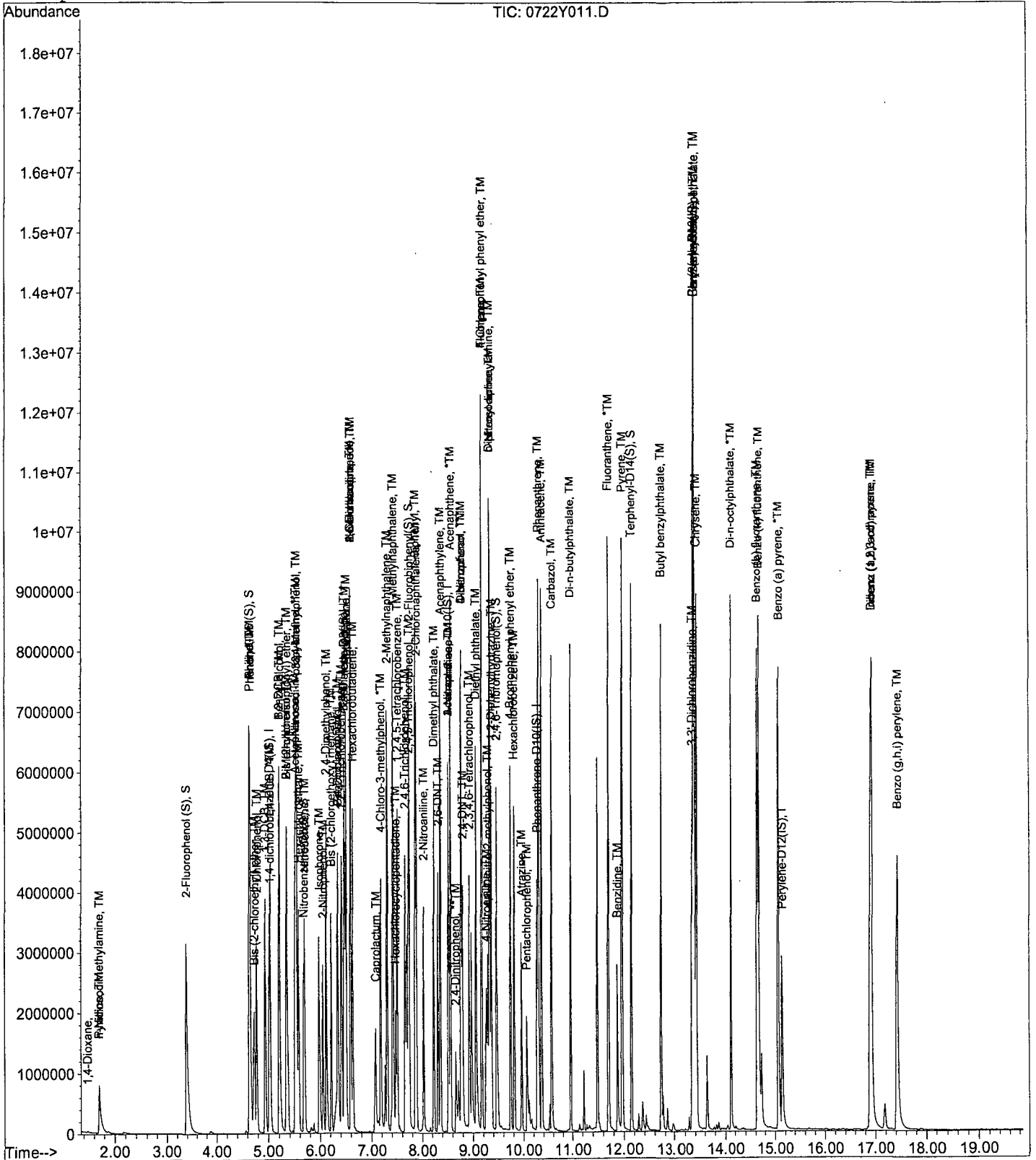
Data File : M:\YODA\DATA\Y190722\0722Y011.D
Acq On : 22 Jul 19 17:45
Sample : 100ug/ml 8270 07/12/19
Misc :

Vial: 11
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 23 8:47 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration

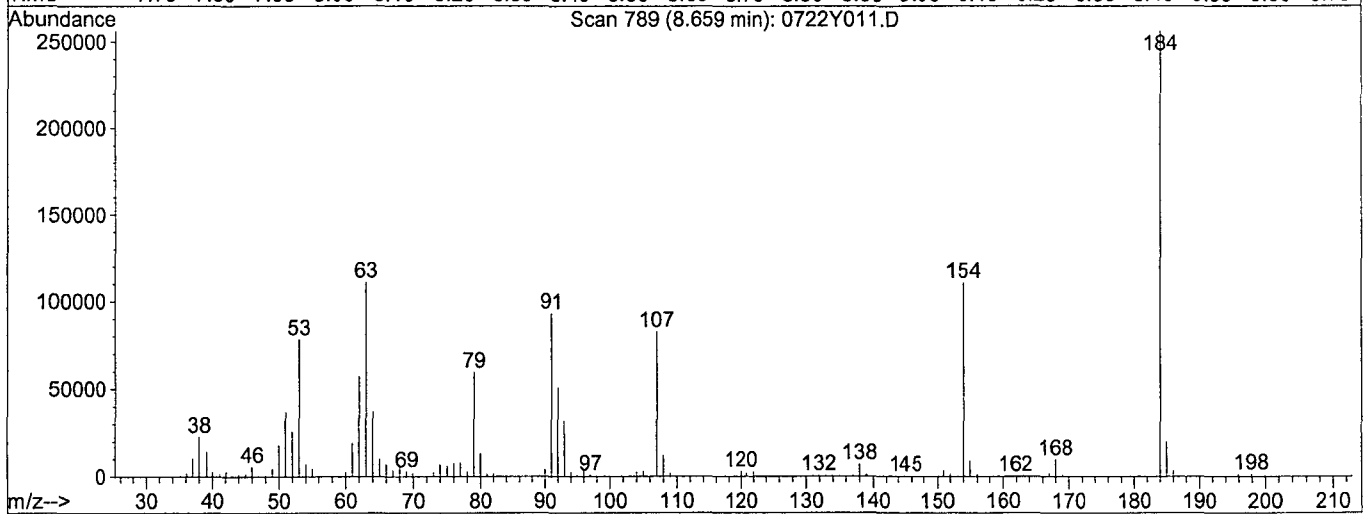
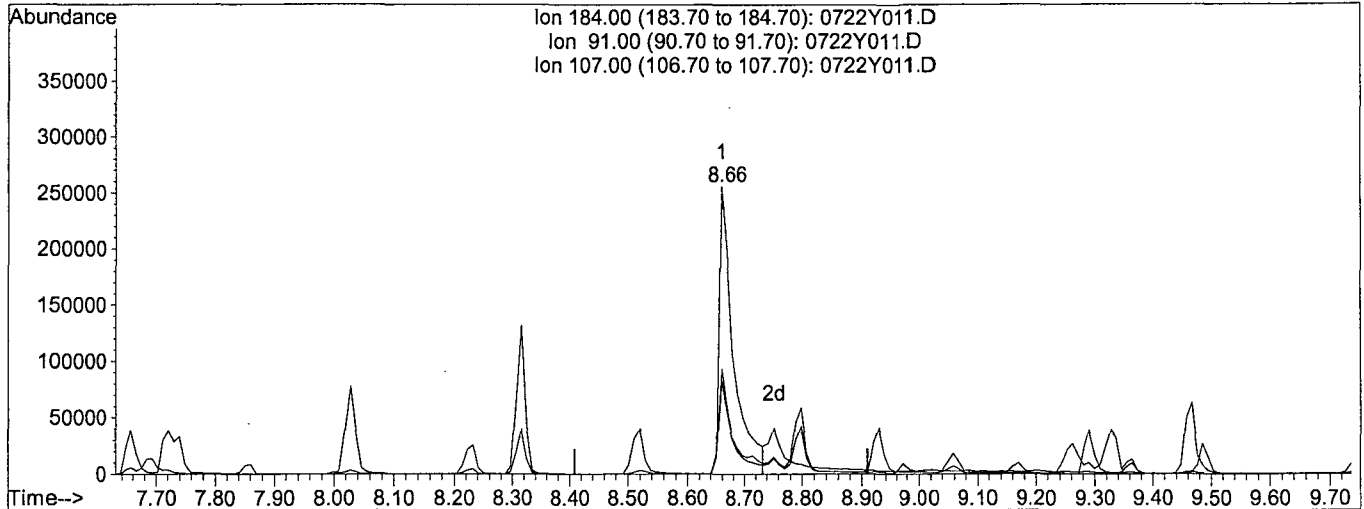


Quantitation Report

Data File : M:\YODA\DATA\Y190722\0722Y011.D
 Acq On : 22 Jul 19 17:45
 Sample : 100ug/ml 8270 07/12/19
 Misc :
 Quant Time: Jul 22 17:50 2019

Vial: 11
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:38:43 2019
 Response via : Multiple Level Calibration



TIC: 0722Y011.D

(55) 2,4-Dinitrophenol (**TM)

8.66min 122.0009ppb

response 455821

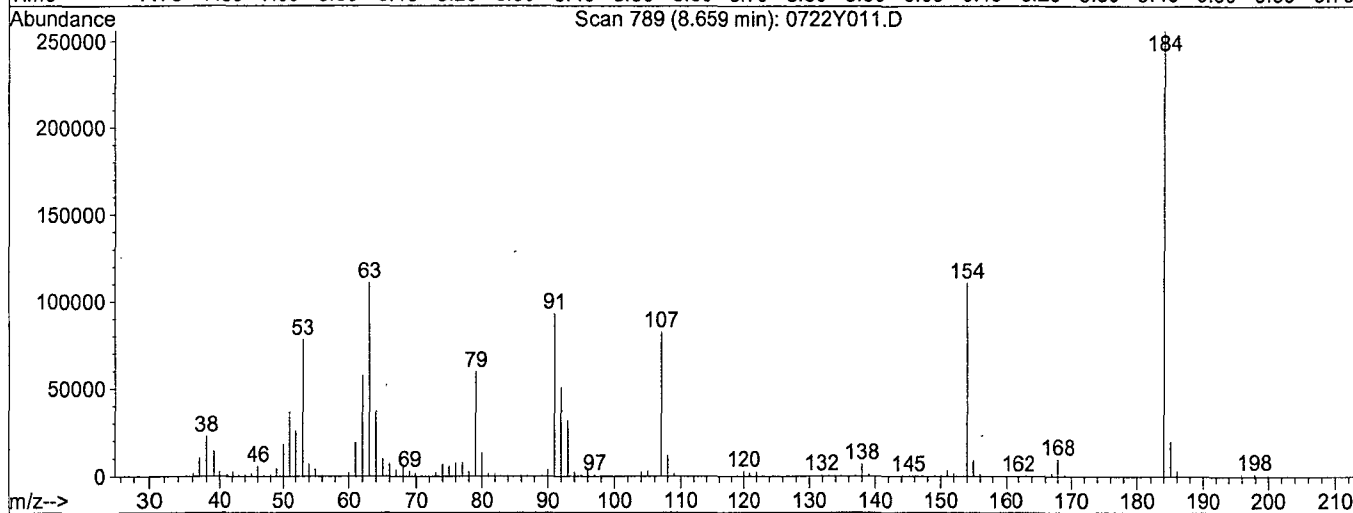
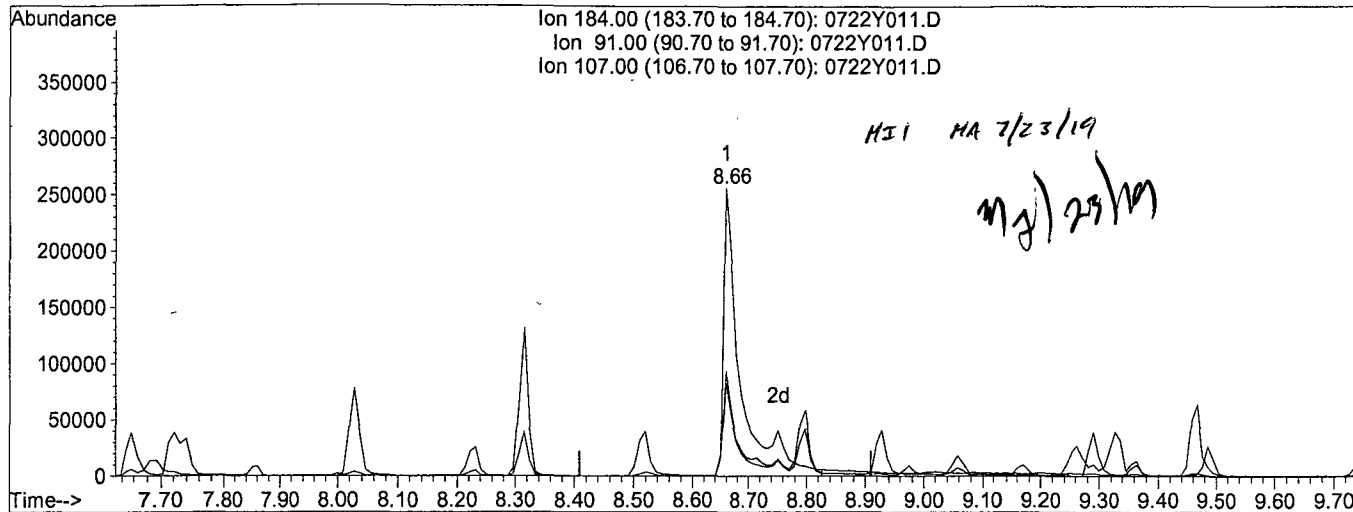
Ion	Exp%	Act%
184.00	100	100
91.00	32.70	36.18
107.00	29.50	32.23
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190722\0722Y011.D
 Acq On : 22 Jul 19 17:45
 Sample : 100ug/ml 8270 07/12/19
 Misc :
 Quant Time: Jul 23 8:47 2019

Vial: 11
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:38:43 2019
 Response via : Multiple Level Calibration



TIC: 0722Y011.D

(55) 2,4-Dinitrophenol (**TM)

8.66min 145.3848ppb m

response 543188

Ion	Exp%	Act%
184.00	100	100
91.00	32.70	36.39
107.00	29.50	32.27
0.00	0.00	0.00

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/22/19
Instrument: Yoda
Initial Cal. Date: 07/22/19
Data File: 0722Y012.D

		Compound	MEAN	CCRF	%D	%Drift	
1		1,4-Dioxane	0.1026	0.1187	16		
2	TM	n-Nitrosodimethylamine	0.1822	0.1783	2.1	TM	
3	TM	Pyridine	0.4491	0.4549	1.3	TM	
4	*TM	Phenol	1.834	1.787	2.6	*TM	
5	TM	Aniline	1.792	1.766	1.5	TM	
6	TM	Bis (2-chloroethyl) ether	0.7838	0.7329	6.5	TM	
7	TM	2-Chlorophenol	1.476	1.411	4.4	TM	
8	TM	1,3-DCB	1.664	1.602	3.7	TM	
9	*TM	1,4-DCB	1.669	1.609	3.6	*TM	
10	TM	Benzyl alcohol	0.8153	0.7742	5.0	TM	
11	TM	1,2-DCB	1.541	1.489	3.4	TM	
12	TM	2-Methylphenol	1.170	1.104	5.7	TM	
13	TM	Bis (2-chloroisopropyl) ether	1.229	1.132	7.9	TM	
14	TM	Acetophenone	1.734	1.642	5.3	TM	
15	TM	3&4-Methylphenol	1.388	1.338	3.6	TM	
16	**TM	n-Nitrosodi-n-propylamine	0.8309	0.8000	3.7	**TM	
17	TM	Hexachloroethane	0.5589	0.5299	5.2	TM	
18	TM	Nitrobenzene	0.3264	0.3093	5.2	TM	
19	TM	Isophorone	0.5763	0.5510	4.4	TM	
20	*TM	2-Nitrophenol	0.2084	0.2022	3.0	*TM	
21	TM	2,4-Dimethylphenol	0.3230	0.3049	5.6	TM	
22	TM	Benzoic acid	0.2059	0.2204	7.0	TM	
23	TM	Bis (2-chloroethoxy) methane	0.3785	0.3473	8.2	TM	
24	*TM	2,4-Dichlorophenol	0.3080	0.2921	5.2	*TM	
25	TM	1,2,4-Trichlorobenzene	0.3410	0.3179	6.8	TM	
26	TM	3,4-Dimethylphenol	0.4139	0.3814	7.9	TM	
27	TM	Naphthalene	1.039	0.9689	6.7	TM	
28	TM	4-Chloroaniline	0.3876	0.3645	6.0	TM	
29	TM	2,6-Dichlorophenol	0.2912	0.2685	7.8	TM	
30	TM	Hexachloropropene	0.1918	0.1871	2.5	TM	
31	*TM	Hexachlorobutadiene	0.1873	0.1766	5.7	*TM	
32	TM	Caprolactum	0.1198	0.1123	6.3	TM	
33	*TM	4-Chloro-3-methylphenol	0.2988	0.2816	5.8	*TM	
34	TM	2-Methylnaphthalene	0.6972	0.6480	7.0	TM	
35	TM	1-Methylnaphthalene	0.7198	0.6567	8.8	TM	
36	**TMQ	Hexachlorocyclopentadiene	0.1159	0.1025	12	**TMQ	1.2
37	TM	1,2,4,5-Tetrachlorobenzene	0.6219	0.5683	8.6	TM	
38	*TM	2,4,6-Trichlorophenol	0.3871	0.3643	5.9	*TM	
39	TM	2,4,5-Trichlorophenol	0.4107	0.3840	6.5	TM	
40	TM	1,1'-Biphenyl	1.681	1.532	8.9	TM	

Average

5.8

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 07/22/19

Matrix: 0

Instrument: Yoda

Cal. Date: 07/22/19

Data File: 0722Y012.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	2-Chloronaphthalene	1.294	1.222	5.6	TM
42	TM	2-Nitroaniline	0.3096	0.2944	4.9	TM
43	TM	Dimethyl phthalate	1.508	1.381	8.4	TM
44	TM	2,6-DNT	0.3603	0.3483	3.3	TM
45	TM	Acenaphthylene	2.021	1.901	6.0	TM
46	TM	3-Nitroaniline	0.3743	0.3600	3.8	TM
47	*TM	Acenaphthene	1.280	1.177	8.0	*TM
48	**TML	2,4-Dinitrophenol	0.1738	0.1616	7.0	**TML 6.8
49	**TM	4-Nitrophenol	0.1595	0.1551	2.8	**TM
50	TM	Dibenzofuran	1.865	1.708	8.4	TM
51	TM	2,4-DNT	0.4806	0.4686	2.5	TM
52	TM	2,3,4,6-Tetrachlorophenol	0.3190	0.3176	0.44	TM
53	TM	Diethyl phthalate	1.419	1.301	8.4	TM
54	TM	4-Chlorophenyl phenyl ether	0.7497	0.6828	8.9	TM
55	TM	Fluorene	1.447	1.338	7.6	TM
56	TM	4-Nitroaniline	0.3596	0.3331	7.3	TM
57	TM	4,6-Dinitro-2-methylphenol	0.1469	0.1431	2.6	TM
58	TM	Diphenyl amine	0.5749	0.5329	7.3	TM
59	*TM	n-Nitrosodiphenylamine	0.5749	0.5329	7.3	*TM
60	TM	1,2-Diphenylhydrazine	0.6498	0.6635	2.1	TM
61	TM	4-Bromophenyl phenyl ether	0.2297	0.2121	7.7	TM
62	TM	Hexachlorobenzene	0.2387	0.2309	3.3	TM
63	TM	Atrazine	0.2137	0.2028	5.1	TM
64	*TM	Pentachlorophenol	0.0772	0.0724	6.3	*TM
65	TM	Phenanthrene	1.102	1.044	5.3	TM
66	TM	Anthracene	1.132	1.049	7.4	TM
67	TM	Carbazol	1.052	0.9902	5.9	TM
68	TM	Di-n-butylphthalate	1.181	1.128	4.4	TM
69	*TM	Fluoranthene	1.207	1.152	4.6	*TM
70	TM	Benzidine	0.3585	0.4215	18	TM
71	TM	Pyrene	1.414	1.323	6.4	TM
72	TM	Butyl benzylphthalate	0.5899	0.5689	3.6	TM
73	TM	3,3'-Dichlorobenzidine	0.4083	0.4447	8.9	TM
74	TM	Benz (a) anthracene	1.302	1.197	8.1	TM
75	TM	Bis (2-ethylhexyl) phthalate	0.7295	0.6984	4.3	TM
76	TM	Chrysene	1.285	1.225	4.7	TM
77	*TM	Di-n-octylphthalate	1.345	1.322	1.8	*TM
78	TM	Benzo (b) fluoranthene	1.211	1.168	3.6	TM
79	TM	Benzo (k) fluoranthene	1.200	1.158	3.5	TM
80	*TM	Benzo (a) pyrene	1.135	1.093	3.7	*TM

Average

5.7

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 07/22/19

Matrix: 0

Instrument: Yoda

Cal. Date: 07/22/19

Data File: 0722Y012.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Indeno (1,2,3-cd) pyrene	1.300	1.261	3.0	TM
82	TM	Dibenz (a,h) anthracene	1.119	1.096	2.1	TM
83	TM	Benzo (g,h,i) perylene	1.026	0.9709	5.4	TM
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118						
119						
120						

Average

3.5

Data File : M:\YODA\DATA\Y190722\0722Y012.D
 Acq On : 22 Jul 19 18:13
 Sample : SS 8270 07/12/19
 Misc :

Vial: 12
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:51 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.01	152	400759	40.00000	ppb	0.00
21) Naphthalene-D8 (IS)	6.48	136	1606893	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	873084	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.26	188	1720103	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.38	240	1524774	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.14	264	1641605	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	0.00	112	0	0.00000	ppb	
Spiked Amount	200.000					
			Recovery	=	0.000%	
6) Phenol-D6 (S)	0.00	99	0	0.00000	ppb	
Spiked Amount	200.000					
			Recovery	=	0.000%	
22) Nitrobenzene-D5 (S)	5.58	82	51484	4.12079	ppb	-0.09
Spiked Amount	100.000					
			Recovery	=	4.121%	
46) 2-Fluorobiphenyl (S)	7.73	172	1647	0.05373	ppb	0.00
Spiked Amount	100.000					
			Recovery	=	0.054%	
64) 2,4,6-Tribromophenol (S)	9.47	330	581	0.12348	ppb	0.02
Spiked Amount	200.000					
			Recovery	=	0.062%	
82) Terphenyl-D14 (S)	12.15	244	3446	0.09011	ppb	0.00
Spiked Amount	100.000					
			Recovery	=	0.090%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.48	58	5945	5.78574		66
3) n-Nitrosodimethylamine	1.70	42	89331	48.93887	ppb	98
4) Pyridine	1.70	79	227893	50.64892	ppb	99
7) Phenol	4.65	94	895203	48.70855	ppb	86
8) Aniline	4.64	93	884610	49.27417	ppb	# 87
9) Bis (2-chloroethyl) ether	4.71	63	367166	46.75600	ppb	97
10) 2-Chlorophenol	4.78	128	707024	47.81847	ppb	98
11) 1,3-DCB	4.94	146	802470	48.13171	ppb	99
12) 1,4-DCB	5.03	146	805820	48.19554	ppb	100
13) Benzyl alcohol	5.20	108	387858	47.48240	ppb	96
14) 1,2-DCB	5.20	146	745839	48.30130	ppb	99
15) 2-Methylphenol	5.33	107	552983	47.16001	ppb	98
16) Bis (2-chloroisopropyl) et	5.33	45	567166	46.06069	ppb	# 73
17) Acetophenone	5.49	105	822363	47.32797	ppb	99
18) 3&4-Methylphenol	5.52	107	1340449	96.39021	ppb	99
19) n-Nitrosodi-n-propylamine	5.49	70	400775	48.14100	ppb	99
20) Hexachloroethane	5.58	117	265451	47.40694	ppb	97
23) Nitrobenzene	5.69	77	621234	47.38159	ppb	97
24) Isophorone	5.97	82	1106827	47.81098	ppb	93
25) 2-Nitrophenol	6.05	139	406118	48.50955	ppb	94
26) 2,4-Dimethylphenol	6.11	122	612378	47.20043	ppb	100
27) Benzoic acid	6.31	105	442622	53.50978	ppb	97
28) Bis (2-chloroethoxy) metha	6.22	93	697630	45.87849	ppb	98
29) 2,4-Dichlorophenol	6.34	162	586634	47.41683	ppb	98
30) 1,2,4-Trichlorobenzene	6.41	180	638582	46.61372	ppb	98
31) 3,4-Dimethylphenol	6.46	107	766042	46.07320	ppb	98
32) Naphthalene	6.50	128	1946116	46.64261	ppb	99
33) 4-Chloroaniline	6.59	127	732101	47.01205	ppb	95
34) 2,6-Dichlorophenol	6.59	162	539232	46.09079	ppb	98
35) Hexachloropropene	6.59	213	375869	48.77062	ppb	98
36) Hexachlorobutadiene	6.62	225	354790	47.16110	ppb	100
37) Caprolactum	7.02	55	225543	46.84997	ppb	99

Data File : M:\YODA\DATA\Y190722\0722Y012.D
 Acq On : 22 Jul 19 18:13
 Sample : SS 8270 07/12/19
 Misc :

Vial: 12
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:51 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	565579	47.11704	ppb	89
39) 2-Methylnaphthalene	7.30	142	1301674	46.47777	ppb	99
40) 1-Methylnaphthalene	7.41	142	1319004	45.61343	ppb	99
42) Hexachlorocyclopentadiene	7.47	237	111916	49.38448	ppb	100
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	620199	45.68722	ppb	98
44) 2,4,6-Trichlorophenol	7.66	196	397569	47.05919	ppb	98
45) 2,4,5-Trichlorophenol	7.71	196	419125	46.74915	ppb	99
47) 1,1'-Biphenyl	7.85	154	1671676	45.57011	ppb	99
48) 2-Chloronaphthalene	7.88	162	1333244	47.18645	ppb	97
49) 2-Nitroaniline	8.02	65	321291	47.53884	ppb	88
50) Dimethyl phthalate	8.22	163	1507514	45.80835	ppb	99
51) 2,6-DNT	8.31	165	380110	48.33379	ppb	88
52) Acenaphthylene	8.35	152	2074200	47.01785	ppb	100
53) 3-Nitroaniline	8.51	138	392837	48.07868	ppb	90
54) Acenaphthene	8.56	154	1284740	45.99698	ppb	99
55) 2,4-Dinitrophenol	8.66	184	176322m	46.61220	ppb	91
56) 4-Nitrophenol	8.76	65	169223	48.59429	ppb	97
57) Dibenzofuran	8.76	168	1864363	45.80467	ppb	96
58) 2,4-DNT	8.79	165	511462	48.75236	ppb	87
59) 2,3,4,6-Tetrachlorophenol	8.93	232	346621	49.77939	ppb	96
60) Diethyl phthalate	9.05	149	1419515	45.82227	ppb	96
61) 4-Chlorophenyl phenyl ethe	9.16	204	745214	45.54304	ppb	94
62) Fluorene	9.17	166	1459708	46.20465	ppb	98
63) 4-Nitroaniline	9.23	138	363577	46.32704	ppb	96
66) 4,6-Dinitro-2-methylphenol	9.27	198	307695	48.70687	ppb	93
67) Diphenyl amine	9.32	169	2291433	92.68835	ppb	99
68) n-Nitrosodiphenylamine	9.32	169	2291433	92.68835	ppb	99
69) 1,2-Diphenylhydrazine	9.35	77	1426711	51.05555	ppb	91
70) 4-Bromophenyl phenyl ether	9.73	248	456026	46.16052	ppb	93
71) Hexachlorobenzene	9.81	284	496373	48.35974	ppb	# 87
72) Atrazine	9.95	200	218048	23.72858	ppb	98
73) Pentachlorophenol	10.06	266	155617	46.85052	ppb	98
74) Phenanthrene	10.29	178	2244381	47.34255	ppb	100
75) Anthracene	10.36	178	2255263	46.31009	ppb	100
76) Carbazol	10.56	167	2129002	47.04663	ppb	98
77) Di-n-butylphthalate	10.96	149	2425520	47.77655	ppb	99
78) Fluoranthene	11.69	202	2477572	47.72253	ppb	97
80) Benzidine	11.87	184	803378	58.78756	ppb	99
81) Pyrene	11.96	202	2521631	46.79629	ppb	100
83) Butyl benzylphthalate	12.71	149	1084346	48.22370	ppb	90
84) 3,3'-Dichlorobenzidine	13.35	252	847524	54.45254	ppb	99
85) Benz (a) anthracene	13.37	228	2281534	45.95399	ppb	99
86) Bis (2-ethylhexyl) phthala	13.37	149	1331051	47.86706	ppb	# 95
87) Chrysene	13.42	228	2334506	47.65919	ppb	100
88) Di-n-octylphthalate	14.11	149	2519215	49.12065	ppb	# 95
90) Benzo (b) fluoranthene	14.63	252	2396061	48.19985	ppb	99
91) Benzo (k) fluoranthene	14.66	252	2375891	48.23090	ppb	99
92) Benzo (a) pyrene	15.06	252	2241812	48.13736	ppb	100
93) Indeno (1,2,3-cd) pyrene	16.89	276	2587882	48.48869	ppb	100
94) Dibenz (a,h) anthracene	16.90	278	2248596	48.96689	ppb	99
95) Benzo (g,h,i) perylene	17.41	276	1992268	47.30672	ppb	98

Quantitation Report

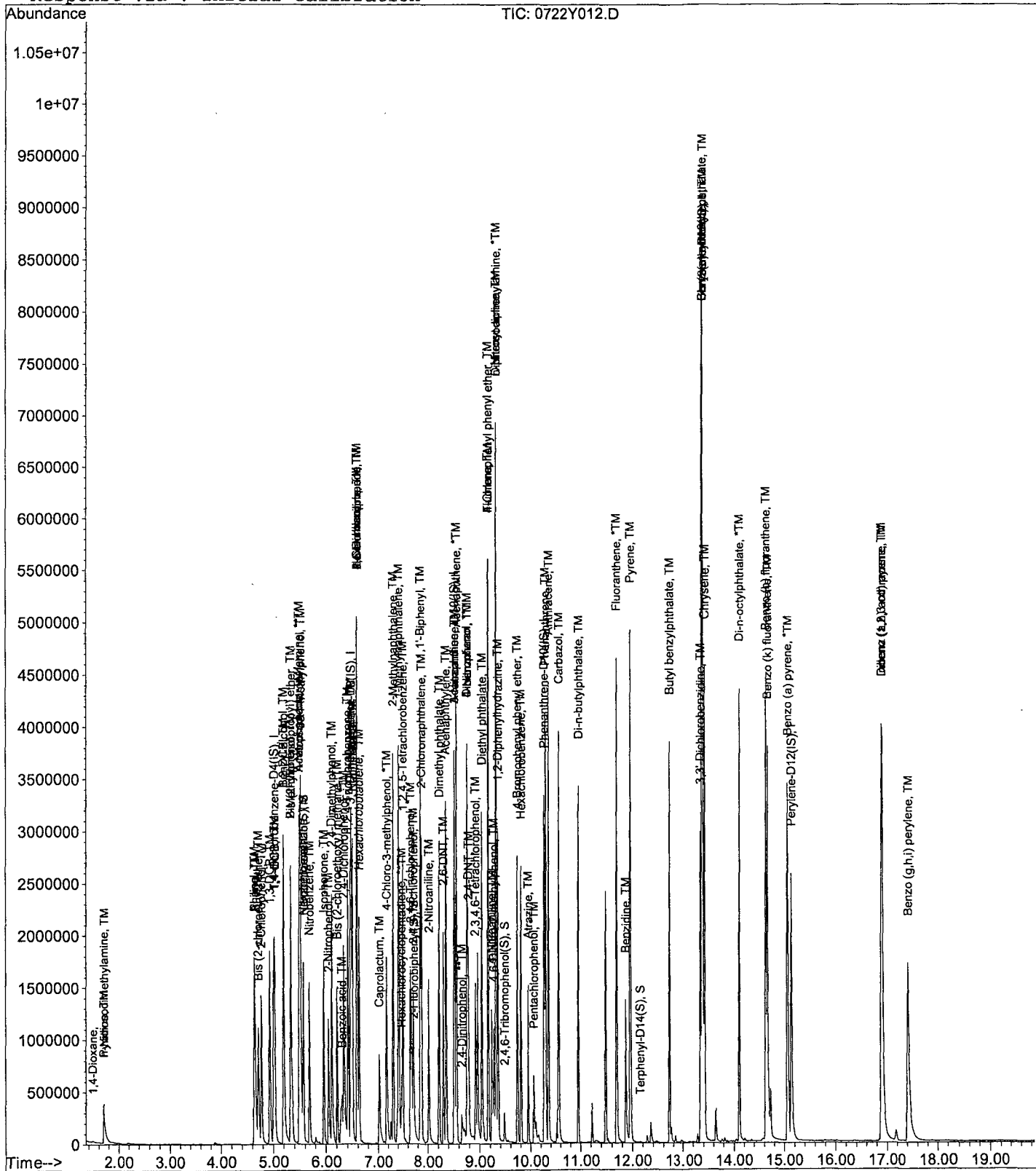
Data File : M:\YODA\DATA\Y190722\0722Y012.D
Acq On : 22 Jul 19 18:13
Sample : SS 8270 07/12/19
Misc :

Vial: 12
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 23 8:51 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/29/19
Instrument: Yoda
Initial Cal. Date: 07/22/19
Data File: 0722Y121.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I
2		1,4-Dioxane	0.1026	0.1734	69	*
3	TM	n-Nitrosodimethylamine	0.1822	0.2338	28	TM *
4	TM	Pyridine	0.4491	0.6601	47	TM *
5	S	2-Fluorophenol (S)	1.326	1.249	5.8	S
6	S	Phenol-D6 (S)	1.394	1.314	5.7	S
7	*TM	Phenol	1.834	1.735	5.4	*TM
8	TM	Aniline	1.792	1.658	7.5	TM
9	TM	Bis (2-chloroethyl) ether	0.7838	0.6730	14	TM
10	TM	2-Chlorophenol	1.476	1.443	2.2	TM
11	TM	1,3-DCB	1.664	1.634	1.8	TM
12	*TM	1,4-DCB	1.669	1.631	2.3	*TM
13	TM	Benzyl alcohol	0.8153	0.7970	2.2	TM
14	TM	1,2-DCB	1.541	1.500	2.7	TM
15	TM	2-Methylphenol	1.170	1.113	4.9	TM
16	TM	Bis (2-chloroisopropyl) ether	1.229	0.9786	20	TM
17	TM	Acetophenone	1.734	1.644	5.2	TM
18	TM	3&4-Methylphenol	1.388	1.328	4.3	TM
19	**TM	n-Nitrosodi-n-propylamine	0.8309	0.7746	6.8	**TM
20	TM	Hexachloroethane	0.5589	0.5302	5.1	TM
21	I	Napthalene-D8(IS)	ISTD			I
22	S	Nitrobenzene-D5(S)	0.3110	0.2826	9.1	S
23	TM	Nitrobenzene	0.3264	0.3052	6.5	TM
24	TM	Isophorone	0.5763	0.5444	5.5	TM
25	*TM	2-Nitrophenol	0.2084	0.2211	6.1	*TM
26	TM	2,4-Dimethylphenol	0.3230	0.3207	0.69	TM
27	TM	Benzoic acid	0.2059	0.2347	14	TM
28	TM	Bis (2-chloroethoxy) methane	0.3785	0.3547	6.3	TM
29	*TM	2,4-Dichlorophenol	0.3080	0.3108	0.91	*TM
30	TM	1,2,4-Trichlorobenzene	0.3410	0.3445	1.0	TM
31	TM	3,4-Dimethylphenol	0.4139	0.4127	0.28	TM
32	TM	Naphthalene	1.039	1.016	2.2	TM
33	TM	4-Chloroaniline	0.3876	0.3761	3.0	TM
34	TM	2,6-Dichlorophenol	0.2912	0.2886	0.92	TM
35	TM	Hexachloropropene	0.1918	0.2058	7.3	TM
36	*TM	Hexachlorobutadiene	0.1873	0.1953	4.3	*TM
37	TM	Caprolactum	0.1198	0.1077	10	TM
38	*TM	4-Chloro-3-methylphenol	0.2988	0.3024	1.2	*TM
39	TM	2-Methylnaphthalene	0.6972	0.6895	1.1	TM
40	TM	1-Methylnaphthalene	0.7198	0.6994	2.8	TM

Average

8.5

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 07/29/19
Instrument: Yoda
Cal. Date: 07/22/19
Data File: 0722Y121.D

		Compound	MEAN	CCRF	%D	%Drift
41	I	Acenaphthene-D10(IS)	ISTD			I
42	**TMQ	Hexachlorocyclopentadiene	0.1159	0.1040	10	**TMQ 0.46
43	TM	1,2,4,5-Tetrachlorobenzene	0.6219	0.6377	2.5	TM
44	*TM	2,4,6-Trichlorophenol	0.3871	0.4047	4.6	*TM
45	TM	2,4,5-Trichlorophenol	0.4107	0.4209	2.5	TM
46	S	2-Fluorobiphenyl(S)	1.404	1.349	4.0	S
47	TM	1,1'-Biphenyl	1.681	1.621	3.5	TM
48	TM	2-Chloronaphthalene	1.294	1.266	2.2	TM
49	TM	2-Nitroaniline	0.3096	0.2844	8.1	TM
50	TM	Dimethyl phthalate	1.508	1.495	0.86	TM
51	TM	2,6-DNT	0.3603	0.3686	2.3	TM
52	TM	Acenaphthylene	2.021	1.970	2.5	TM
53	TM	3-Nitroaniline	0.3743	0.3759	0.41	TM
54	*TM	Acenaphthene	1.280	1.231	3.8	*TM
55	**TML	2,4-Dinitrophenol	0.1738	0.1424	18	**TML 15
56	**TM	4-Nitrophenol	0.1595	0.1578	1.1	**TM
57	TM	Dibenzofuran	1.865	1.831	1.8	TM
58	TM	2,4-DNT	0.4806	0.5004	4.1	TM
59	TM	2,3,4,6-Tetrachlorophenol	0.3190	0.3527	11	TM
60	TM	Diethyl phthalate	1.419	1.395	1.7	TM
61	TM	4-Chlorophenyl phenyl ether	0.7497	0.7290	2.8	TM
62	TM	Fluorene	1.447	1.377	4.9	TM
63	TM	4-Nitroaniline	0.3596	0.3620	0.68	TM
64	S	2,4,6-Tribromophenol(S)	0.2156	0.2532	17	S
65	I	Phenanthrene-D10(IS)	ISTD			I
66	TM	4,6-Dinitro-2-methylphenol	0.1469	0.1593	8.5	TM
67	TM	Diphenyl amine	0.5749	0.5558	3.3	TM
68	*TM	n-Nitrosodiphenylamine	0.5749	0.5558	3.3	*TM
69	TM	1,2-Diphenylhydrazine	0.6498	0.6244	3.9	TM
70	TM	4-Bromophenyl phenyl ether	0.2297	0.2418	5.3	TM
71	TM	Hexachlorobenzene	0.2387	0.2620	9.8	TM
72	TM	Atrazine	0.2137	0.2242	4.9	TM
73	*TM	Pentachlorophenol	0.0772	0.1024	33	*TM *
74	TM	Phenanthrene	1.102	1.061	3.8	TM
75	TM	Anthracene	1.132	1.125	0.68	TM
76	TM	Carbazol	1.052	1.036	1.5	TM
77	TM	Di-n-butylphthalate	1.181	1.199	1.6	TM
78	*TM	Fluoranthene	1.207	1.213	0.45	*TM
79	I	Chrysene-D12(IS)	ISTD			I
80	TM	Benzidine	0.3585	0.3265	8.9	TM
Average					5.4	

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 07/29/19
Instrument: Yoda
Cal. Date: 07/22/19
Data File: 0722Y121.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Pyrene	1.414	1.352	4.3	TM
82	S	Terphenyl-D14(S)	1.003	0.9648	3.8	S
83	TM	Butyl benzylphthalate	0.5899	0.5861	0.65	TM
84	TM	3,3'-Dichlorobenzidine	0.4083	0.4441	8.8	TM
85	TM	Benz (a) anthracene	1.302	1.236	5.1	TM
86	TM	Bis (2-ethylhexyl) phthalate	0.7295	0.7253	0.57	TM
87	TM	Chrysene	1.285	1.288	0.23	TM
88	*TM	Di-n-octylphthalate	1.345	1.394	3.6	*TM
89	I	Perylene-D12(IS)	ISTD			I
90	TM	Benzo (b) fluoranthene	1.211	1.182	2.4	TM
91	TM	Benzo (k) fluoranthene	1.200	1.160	3.3	TM
92	*TM	Benzo (a) pyrene	1.135	1.135	0.03	*TM
93	TM	Indeno (1,2,3-cd) pyrene	1.300	1.318	1.3	TM
94	TM	Dibenz (a,h) anthracene	1.119	1.168	4.4	TM
95	TM	Benzo (g,h,i) perylene	1.026	1.067	4.0	TM
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120						

Average

3.0

Data File : M:\YODA\DATA\Y190722\0722Y121.D
 Acq On : 29 Jul 19 10:45
 Sample : 50ug/ml 8270 07/12/19
 Misc :

Vial: 21
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 29 11:15 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.01	152	283867	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.49	136	1092758	40.00000	ppb	0.01
41) Acenaphthene-D10 (IS)	8.53	164	603872	40.00000	ppb	0.01
65) Phenanthrene-D10 (IS)	10.28	188	1210711	40.00000	ppb	0.01
79) Chrysene-D12 (IS)	13.40	240	1108196	40.00000	ppb	0.01
89) Perylene-D12 (IS)	15.15	264	1284644	40.00000	ppb	0.02

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.40	112	886181	94.17646	ppb	0.01
Spiked Amount 200.000			Recovery =	47.088%		
6) Phenol-D6 (S)	4.64	99	932171	94.25818	ppb	0.01
Spiked Amount 200.000			Recovery =	47.129%		
22) Nitrobenzene-D5 (S)	5.68	82	386008	45.43263	ppb	0.01
Spiked Amount 100.000			Recovery =	45.433%		
46) 2-Fluorobiphenyl (S)	7.74	172	1018170	48.01963	ppb	0.01
Spiked Amount 100.000			Recovery =	48.020%		
64) 2,4,6-Tribromophenol (S)	9.47	330	382274	117.46067	ppb	0.01
Spiked Amount 200.000			Recovery =	58.731%		
82) Terphenyl-D14 (S)	12.15	244	1336527	48.08490	ppb	0.01
Spiked Amount 100.000			Recovery =	48.085%		

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.48	58	6153	8.45400		64
3) n-Nitrosodimethylamine	1.70	42	82966	64.16826	ppb	95
4) Pyridine	1.71	79	234234	73.49495	ppb	98
7) Phenol	4.66	94	615633	47.29051	ppb	88
8) Aniline	4.65	93	588300	46.26309	ppb	95
9) Bis (2-chloroethyl) ether	4.73	63	238806	42.93273	ppb	87
10) 2-Chlorophenol	4.78	128	511987	48.88649	ppb	99
11) 1,3-DCB	4.95	146	579655	49.08406	ppb	99
12) 1,4-DCB	5.04	146	578717	48.86562	ppb	100
13) Benzyl alcohol	5.21	108	282809	48.87891	ppb	99
14) 1,2-DCB	5.21	146	532120	48.65099	ppb	99
15) 2-Methylphenol	5.35	107	394868	47.54254	ppb	98
16) Bis (2-chloroisopropyl) et	5.34	45	347247	39.81320	ppb	# 85
17) Acetophenone	5.51	105	583364	47.39826	ppb	99
18) 3&4-Methylphenol	5.53	107	942764	95.70927	ppb	98
19) n-Nitrosodi-n-propylamine	5.51	70	274872	46.61367	ppb	96
20) Hexachloroethane	5.58	117	188117	47.43009	ppb	87
23) Nitrobenzene	5.70	77	416886	46.75571	ppb	96
24) Isophorone	5.97	82	743655	47.23701	ppb	97
25) 2-Nitrophenol	6.06	139	301965	53.03891	ppb	97
26) 2,4-Dimethylphenol	6.13	122	438108	49.65586	ppb	98
27) Benzoic acid	6.32	105	320624	56.99794	ppb	98
28) Bis (2-chloroethoxy) metha	6.22	93	484545	46.85771	ppb	99
29) 2,4-Dichlorophenol	6.35	162	424514	50.45687	ppb	99
30) 1,2,4-Trichlorobenzene	6.42	180	470513	50.50468	ppb	99
31) 3,4-Dimethylphenol	6.47	107	563746	49.85884	ppb	98
32) Naphthalene	6.51	128	1387782	48.91008	ppb	100
33) 4-Chloroaniline	6.60	127	513775	48.51478	ppb	# 94
34) 2,6-Dichlorophenol	6.60	162	394153	49.54117	ppb	100
35) Hexachloropropene	6.60	213	281149	53.64401	ppb	98
36) Hexachlorobutadiene	6.64	225	266792	52.14928	ppb	99
37) Caprolactum	7.05	55	147117	44.93718	ppb	# 87

(#) = qualifier out of range (m) = manual integration

Data File : M:\YODA\DATA\Y190722\0722Y121.D
 Acq On : 29 Jul 19 10:45
 Sample : 50ug/ml 8270 07/12/19
 Misc :

Vial: 21
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 29 11:15 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.19	107	413030	50.59752	ppb	93
39) 2-Methylnaphthalene	7.32	142	941821	49.45092	ppb	99
40) 1-Methylnaphthalene	7.43	142	955310	48.57960	ppb	98
42) Hexachlorocyclopentadiene	7.48	237	78526	49.77024	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.51	216	481349	51.26664	ppb	99
44) 2,4,6-Trichlorophenol	7.67	196	305463	52.27592	ppb	99
45) 2,4,5-Trichlorophenol	7.72	196	317694	51.23306	ppb	98
47) 1,1'-Biphenyl	7.86	154	1223619	48.22645	ppb	99
48) 2-Chloronaphthalene	7.88	162	955950	48.91635	ppb	98
49) 2-Nitroaniline	8.03	65	214681	45.92559	ppb	99
50) Dimethyl phthalate	8.23	163	1128341	49.57181	ppb	100
51) 2,6-DNT	8.32	165	278220	51.14946	ppb	99
52) Acenaphthylene	8.36	152	1486734	48.72553	ppb	100
53) 3-Nitroaniline	8.52	138	283710	50.20257	ppb #	86
54) Acenaphthene	8.57	154	929121	48.09473	ppb	99
55) 2,4-Dinitrophenol	8.68	184	107505	42.66696	ppb	97
56) 4-Nitrophenol	8.78	65	119119	49.45589	ppb	91
57) Dibenzofuran	8.77	168	1381955	49.08901	ppb	99
58) 2,4-DNT	8.80	165	377760	52.06063	ppb	83
59) 2,3,4,6-Tetrachlorophenol	8.94	232	266194	55.27186	ppb	93
60) Diethyl phthalate	9.06	149	1052812	49.13587	ppb	95
61) 4-Chlorophenyl phenyl ethe	9.17	204	550294	48.62358	ppb	96
62) Fluorene	9.17	166	1039376	47.56675	ppb	99
63) 4-Nitroaniline	9.26	138	273249	50.33938	ppb	90
66) 4,6-Dinitro-2-methylphenol	9.28	198	241128	54.22897	ppb	95
67) Diphenyl amine	9.33	169	1682290	96.67915	ppb	100
68) n-Nitrosodiphenylamine	9.33	169	1682290	96.67915	ppb	100
69) 1,2-Diphenylhydrazine	9.37	77	945014	48.04621	ppb #	80
70) 4-Bromophenyl phenyl ether	9.75	248	366005	52.63590	ppb	98
71) Hexachlorobenzene	9.82	284	396524	54.88571	ppb #	82
72) Atrazine	9.96	200	169615	26.22393	ppb	98
73) Pentachlorophenol	10.07	266	155023	66.30823	ppb	100
74) Phenanthrene	10.30	178	1605483	48.11436	ppb	99
75) Anthracene	10.37	178	1702294	49.66232	ppb	100
76) Carbazol	10.57	167	1568121	49.23183	ppb	98
77) Di-n-butylphthalate	10.96	149	1814655	50.78295	ppb	100
78) Fluoranthene	11.71	202	1835268	50.22392	ppb	99
80) Benzidine	11.88	184	452214	45.53008	ppb	98
81) Pyrene	11.98	202	1873485	47.83756	ppb	100
83) Butyl benzylphthalate	12.73	149	811844	49.67686	ppb	98
84) 3,3'-Dichlorobenzidine	13.36	252	615207	54.38464	ppb #	97
85) Benz (a) anthracene	13.39	228	1712031	47.44569	ppb	99
86) Bis (2-ethylhexyl) phthala	13.39	149	1004768	49.71607	ppb	99
87) Chrysene	13.42	228	1784095	50.11394	ppb	99
88) Di-n-octylphthalate	14.12	149	1931097	51.80741	ppb	99
90) Benzo (b) fluoranthene	14.64	252	1898737	48.80884	ppb	98
91) Benzo (k) fluoranthene	14.68	252	1863280	48.33512	ppb	98
92) Benzo (a) pyrene	15.08	252	1822732	50.01402	ppb	98
93) Indeno (1,2,3-cd) pyrene	16.91	276	2115830	50.65970	ppb	96
94) Dibenz (a,h) anthracene	16.93	278	1875704	52.19648	ppb	97
95) Benzo (g,h,i) perylene	17.44	276	1713092	51.98065	ppb	98

Quantitation Report

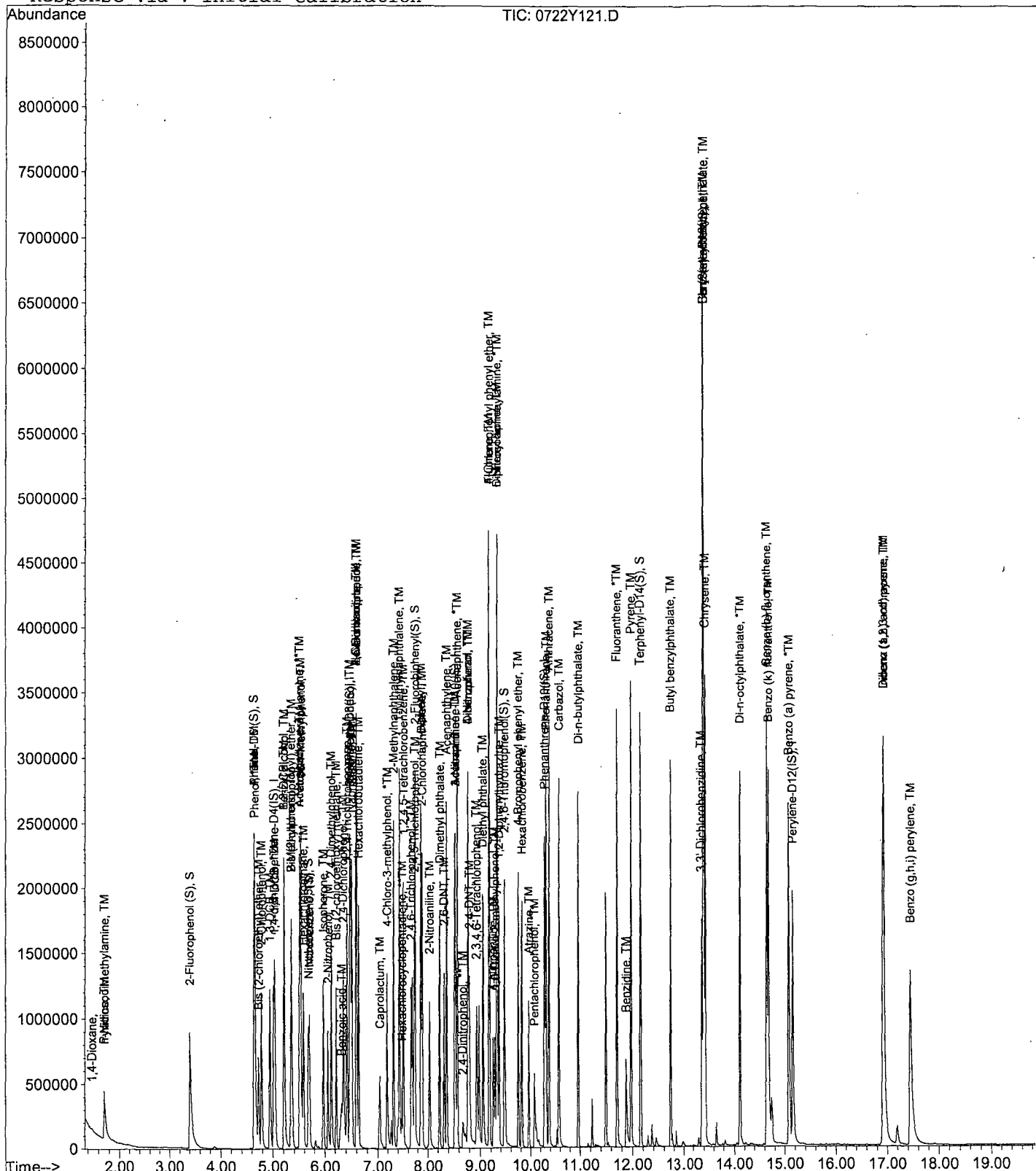
Data File : M:\YODA\DATA\Y190722\0722Y121.D
 Acq On : 29 Jul 19 10:45
 Sample : 50ug/ml 8270 07/12/19
 Misc :

Vial: 21
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 29 11:15 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration



Data File : G:\APOLLO\DATA\190814\814256.D Vial: 56
 Acq On : 8-23-19 11:02:51 Operator: DP
 Sample : Diesel/Motor Oil CCV 8/22/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 23 12:32 2019 Quant Results File: TPHD0617.RES

Method : G:\APOLLO\DATA\190814\TPHD0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Fri Jul 05 10:15:32 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

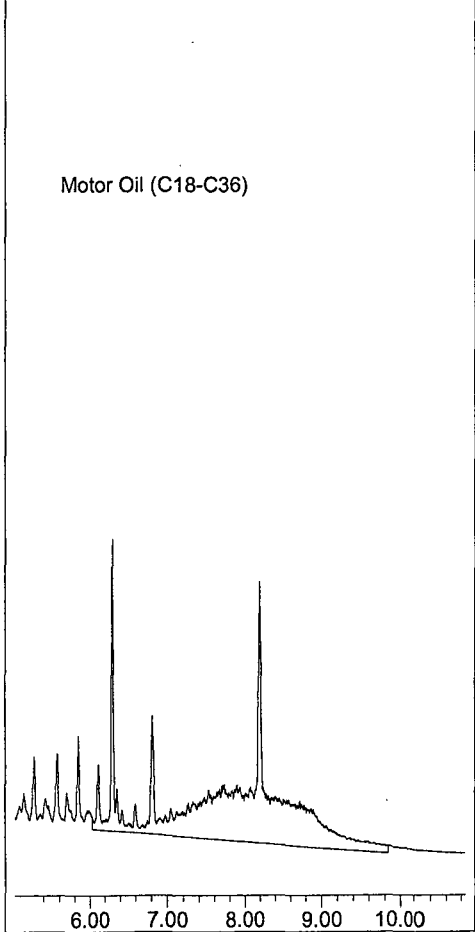
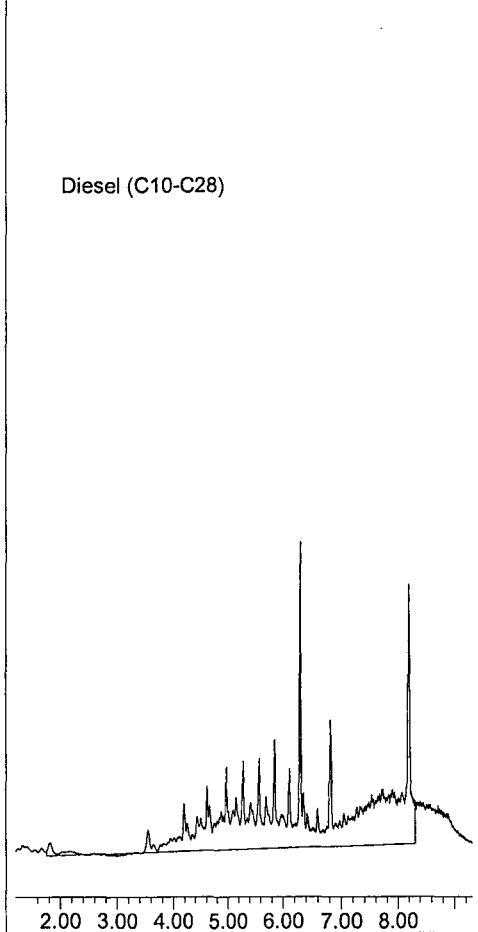
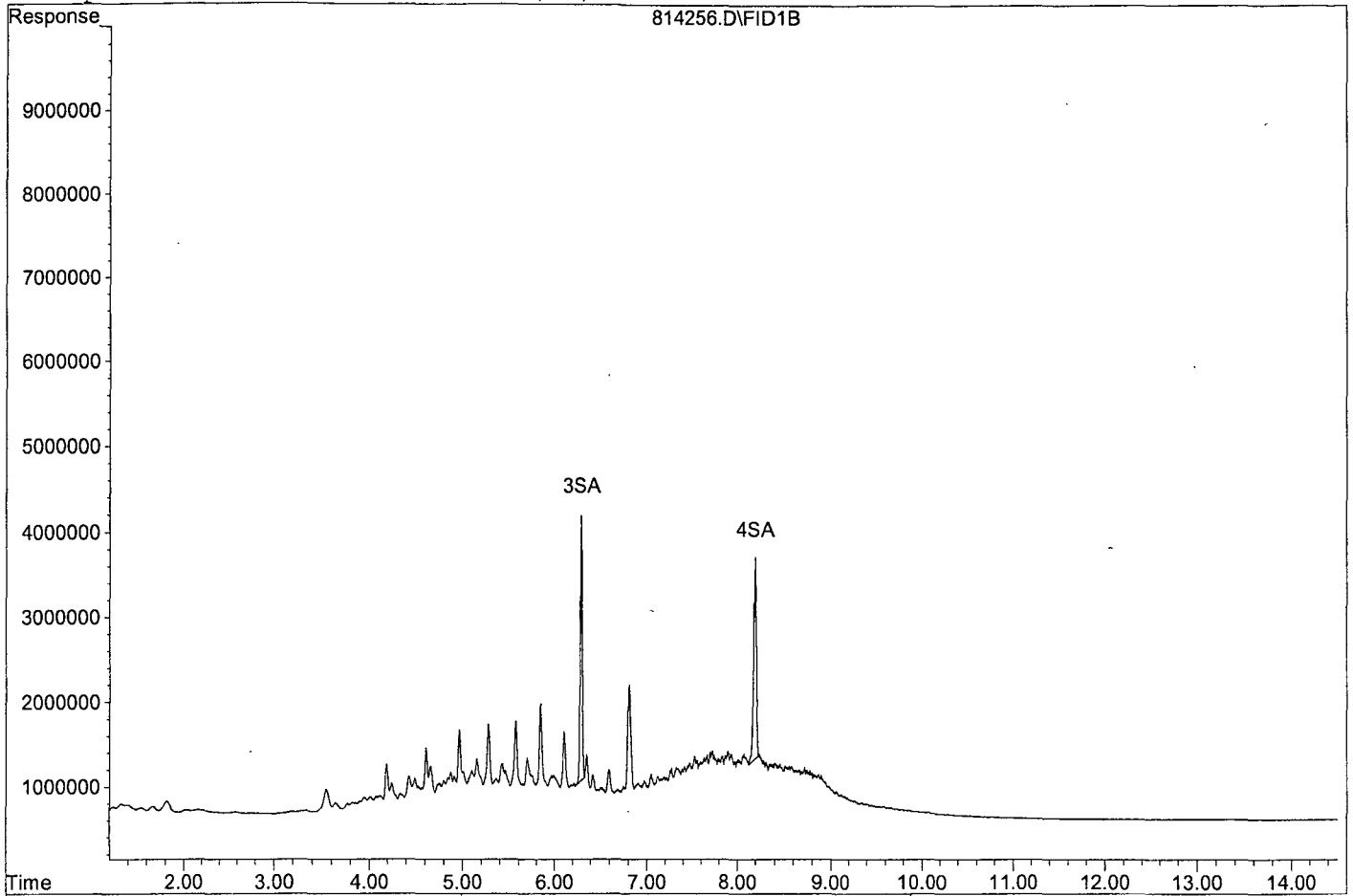
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.30	48899922	13.453 ppb
Surrogate Spike 30.000		Recovery =	44.84%
4) SA Octacosane(S)	8.19	49050330	13.327 ppb
Surrogate Spike 30.000		Recovery =	44.42%
Target Compounds			
1) HATM Diesel (C10-C28)	5.03	1017894385	288.148 ppb
2) HBTM Motor Oil (C18-C36)	7.94	721285998	259.152 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\190814\814256.D

Sample : Diesel/Motor Oil CCV 8/22/19



Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/29/19
Instrument: Yoda
Initial Cal. Date: 07/22/19
Data File: 0722Y141.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I
2		1,4-Dioxane	0.1026	0.1084	5.7	
3	TM	n-Nitrosodimethylamine	0.1822	0.2578	41	TM
4	TM	Pyridine	0.4491	0.6255	39	TM
5	S	2-Fluorophenol (S)	1.326	1.261	4.9	S
6	S	Phenol-D6 (S)	1.394	1.329	4.6	S
7	*TM	Phenol	1.834	1.744	4.9	*TM
8	TM	Aniline	1.792	1.608	10	TM
9	TM	Bis (2-chloroethyl) ether	0.7838	0.6928	12	TM
10	TM	2-Chlorophenol	1.476	1.447	1.9	TM
11	TM	1,3-DCB	1.664	1.601	3.8	TM
12	*TM	1,4-DCB	1.669	1.631	2.3	*TM
13	TM	Benzyl alcohol	0.8153	0.8201	0.59	TM
14	TM	1,2-DCB	1.541	1.505	2.3	TM
15	TM	2-Methylphenol	1.170	1.140	2.6	TM
16	TM	Bis (2-chloroisopropyl) ether	1.229	0.9871	20	TM
17	TM	Acetophenone	1.734	1.675	3.4	TM
18	TM	3&4-Methylphenol	1.388	1.366	1.6	TM
19	**TM	n-Nitrosodi-n-propylamine	0.8309	0.7985	3.9	**TM
20	TM	Hexachloroethane	0.5589	0.5202	6.9	TM
21	I	Napthalene-D8(IS)	ISTD			I
22	S	Nitrobenzene-D5(S)	0.3110	0.2853	8.3	S
23	TM	Nitrobenzene	0.3264	0.3089	5.4	TM
24	TM	Isophorone	0.5763	0.5613	2.6	TM
25	*TM	2-Nitrophenol	0.2084	0.2235	7.3	*TM
26	TM	2,4-Dimethylphenol	0.3230	0.3301	2.2	TM
27	TM	Benzoic acid	0.2059	0.1910	7.2	TM
28	TM	Bis (2-chloroethoxy) methane	0.3785	0.3610	4.6	TM
29	*TM	2,4-Dichlorophenol	0.3080	0.3209	4.2	*TM
30	TM	1,2,4-Trichlorobenzene	0.3410	0.3457	1.4	TM
31	TM	3,4-Dimethylphenol	0.4139	0.4207	1.6	TM
32	TM	Naphthalene	1.039	1.032	0.66	TM
33	TM	4-Chloroaniline	0.3876	0.3734	3.7	TM
34	TM	2,6-Dichlorophenol	0.2912	0.2909	0.10	TM
35	TM	Hexachloropropene	0.1918	0.2036	6.1	TM
36	*TM	Hexachlorobutadiene	0.1873	0.1982	5.9	*TM
37	TM	Caprolactum	0.1198	0.1107	7.7	TM
38	*TM	4-Chloro-3-methylphenol	0.2988	0.3161	5.8	*TM
39	TM	2-Methylnaphthalene	0.6972	0.7044	1.0	TM
40	TM	1-Methylnaphthalene	0.7198	0.7159	0.55	TM

Average

6.5

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 07/29/19
Instrument: Yoda
Cal. Date: 07/22/19
Data File: 0722Y141.D

		Compound	MEAN	CCRF	%D	%Drift
41	I	Acenaphthene-D10(IS)	ISTD			I
42	**TMQ	Hexachlorocyclopentadiene	0.1159	0.1077	7.1	**TMQ 1.4
43	TM	1,2,4,5-Tetrachlorobenzene	0.6219	0.6388	2.7	TM
44	*TM	2,4,6-Trichlorophenol	0.3871	0.4114	6.3	*TM
45	TM	2,4,5-Trichlorophenol	0.4107	0.4289	4.4	TM
46	S	2-Fluorobiphenyl(S)	1.404	1.376	2.0	S
47	TM	1,1'-Biphenyl	1.681	1.629	3.1	TM
48	TM	2-Chloronaphthalene	1.294	1.277	1.3	TM
49	TM	2-Nitroaniline	0.3096	0.2940	5.0	TM
50	TM	Dimethyl phthalate	1.508	1.525	1.2	TM
51	TM	2,6-DNT	0.3603	0.3780	4.9	TM
52	TM	Acenaphthylene	2.021	2.023	0.07	TM
53	TM	3-Nitroaniline	0.3743	0.3815	1.9	TM
54	*TM	Acenaphthene	1.280	1.239	3.2	*TM
55	**TML	2,4-Dinitrophenol	0.1738	0.1879	8.2	**TML 4.1
56	**TM	4-Nitrophenol	0.1595	0.1572	1.5	**TM
57	TM	Dibenzofuran	1.865	1.852	0.67	TM
58	TM	2,4-DNT	0.4806	0.5155	7.3	TM
59	TM	2,3,4,6-Tetrachlorophenol	0.3190	0.3603	13	TM
60	TM	Diethyl phthalate	1.419	1.439	1.4	TM
61	TM	4-Chlorophenyl phenyl ether	0.7497	0.7517	0.27	TM
62	TM	Fluorene	1.447	1.420	1.9	TM
63	TM	4-Nitroaniline	0.3596	0.3835	6.7	TM
64	S	2,4,6-Tribromophenol(S)	0.2156	0.2612	21	S
65	I	Phenanthrene-D10(IS)	ISTD			I
66	TM	4,6-Dinitro-2-methylphenol	0.1469	0.1533	4.3	TM
67	TM	Diphenyl amine	0.5749	0.5505	4.2	TM
68	*TM	n-Nitrosodiphenylamine	0.5749	0.5505	4.2	*TM
69	TM	1,2-Diphenylhydrazine	0.6498	0.6232	4.1	TM
70	TM	4-Bromophenyl phenyl ether	0.2297	0.2419	5.3	TM
71	TM	Hexachlorobenzene	0.2387	0.2637	10	TM
72	TM	Atrazine	0.2137	0.2021	5.4	TM
73	*TM	Pentachlorophenol	0.0772	0.0989	28	*TM
74	TM	Phenanthrene	1.102	1.065	3.4	TM
75	TM	Anthracene	1.132	1.114	1.6	TM
76	TM	Carbazol	1.052	1.029	2.2	TM
77	TM	Di-n-butylphthalate	1.181	1.172	0.69	TM
78	*TM	Fluoranthene	1.207	1.205	0.16	*TM
79	I	Chrysene-D12(IS)	ISTD			I
80	TM	Benzidine	0.3585	0.1634	54	TM

Average

6.3

*NT

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 07/29/19

Matrix: 0

Instrument: Yoda

Cal. Date: 07/22/19

Data File: 0722Y141.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Pyrene	1.414	1.369	3.2	TM
82	S	Terphenyl-D14(S)	1.003	0.9613	4.2	S
83	TM	Butyl benzylphthalate	0.5899	0.5955	0.96	TM
84	TM	3,3'-Dichlorobenzidine	0.4083	0.4821	18	TM
85	TM	Benz (a) anthracene	1.302	1.262	3.1	TM
86	TM	Bis (2-ethylhexyl) phthalate	0.7295	0.7102	2.6	TM
87	TM	Chrysene	1.285	1.273	0.97	TM
88	*TM	Di-n-octylphthalate	1.345	1.399	4.0	*TM
89	I	Perylene-D12(ISTD)	ISTD			I
90	TM	Benzo (b) fluoranthene	1.211	1.262	4.2	TM
91	TM	Benzo (k) fluoranthene	1.200	1.067	11	TM
92	*TM	Benzo (a) pyrene	1.135	1.135	0.06	*TM
93	TM	Indeno (1,2,3-cd) pyrene	1.300	1.295	0.41	TM
94	TM	Dibenz (a,h) anthracene	1.119	1.155	3.2	TM
95	TM	Benzo (g,h,i) perylene	1.026	1.071	4.4	TM
96						
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119						
120						

Average

4.3

Data File : M:\YODA\DATA\Y190722\0722Y141.D
 Acq On : 29 Jul 19 21:03
 Sample : 50ug/ml 8270 07/12/19 (3)
 Misc :

Vial: 41
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 30 7:24 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	338373	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.48	136	1326301	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	741640	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1527025	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.39	240	1382392	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.15	264	1619107	40.00000	ppb	0.02

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.38	112	1066572	95.08879	ppb	0.00
Spiked Amount 200.000			Recovery =	47.545%		
6) Phenol-D6 (S)	4.63	99	1124428	95.38373	ppb	0.00
Spiked Amount 200.000			Recovery =	47.692%		
22) Nitrobenzene-D5 (S)	5.67	82	473018	45.87025	ppb	0.00
Spiked Amount 100.000			Recovery =	45.870%		
46) 2-Fluorobiphenyl (S)	7.73	172	1276044	49.00224	ppb	0.00
Spiked Amount 100.000			Recovery =	49.002%		
64) 2,4,6-Tribromophenol (S)	9.47	330	484207	121.14361	ppb	0.00
Spiked Amount 200.000			Recovery =	60.572%		
82) Terphenyl-D14 (S)	12.15	244	1661128	47.90926	ppb	0.00
Spiked Amount 100.000			Recovery =	47.909%		

Target Compounds

					Qvalue	
2) 1,4-Dioxane	1.47	58	4587m	5.28717		1
3) n-Nitrosodimethylamine	1.70	42	109028	70.74201	ppb	93
4) Pyridine	1.71	79	264555	69.63743	ppb	98
7) Phenol	4.64	94	737822	47.54697	ppb	99
8) Aniline	4.63	93	680109	44.86767	ppb	# 78
9) Bis (2-chloroethyl) ether	4.71	63	293045	44.19740	ppb	92
10) 2-Chlorophenol	4.77	128	612195	49.03870	ppb	97
11) 1,3-DCB	4.93	146	677346	48.11723	ppb	98
12) 1,4-DCB	5.02	146	689857	48.86697	ppb	98
13) Benzyl alcohol	5.20	108	346888	50.29638	ppb	98
14) 1,2-DCB	5.20	146	636655	48.83211	ppb	99
15) 2-Methylphenol	5.34	107	482310	48.71649	ppb	99
16) Bis (2-chloroisopropyl) et	5.33	45	417505	40.15776	ppb	89
17) Acetophenone	5.49	105	708626	48.30132	ppb	99
18) 3&4-Methylphenol	5.52	107	1155909	98.44504	ppb	97
19) n-Nitrosodi-n-propylamine	5.49	70	337723	48.04660	ppb	99
20) Hexachloroethane	5.57	117	220039	46.54197	ppb	90
23) Nitrobenzene	5.69	77	512116	47.32249	ppb	97
24) Isophorone	5.97	82	930643	48.70526	ppb	92
25) 2-Nitrophenol	6.05	139	370577	53.62883	ppb	97
26) 2,4-Dimethylphenol	6.12	122	547291	51.10807	ppb	98
27) Benzoic acid	6.33	105	316648	46.37904	ppb	96
28) Bis (2-chloroethoxy) metha	6.21	93	598434	47.68097	ppb	100
29) 2,4-Dichlorophenol	6.34	162	531956	52.09378	ppb	99
30) 1,2,4-Trichlorobenzene	6.41	180	573171	50.69045	ppb	99
31) 3,4-Dimethylphenol	6.46	107	697432	50.82092	ppb	96
32) Naphthalene	6.51	128	1710604	49.67164	ppb	99
33) 4-Chloroaniline	6.59	127	619054	48.16278	ppb	96
34) 2,6-Dichlorophenol	6.59	162	482358	49.95199	ppb	99
35) Hexachloropropene	6.59	213	337520	53.05986	ppb	99
36) Hexachlorobutadiene	6.63	225	328631	52.92562	ppb	100
37) Caprolactum	7.04	55	183455	46.16942	ppb	90

Data File : M:\YODA\DATA\Y190722\0722Y141.D
 Acq On : 29 Jul 19 21:03
 Sample : 50ug/ml 8270 07/12/19 (3)
 Misc :

Vial: 41
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 30 7:24 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	524081	52.89662	ppb	96
39) 2-Methylnaphthalene	7.30	142	1167850	50.52135	ppb	99
40) 1-Methylnaphthalene	7.42	142	1186818	49.72509	ppb	99
42) Hexachlorocyclopentadiene	7.47	237	99827	50.71108	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	592229	51.35896	ppb	99
44) 2,4,6-Trichlorophenol	7.66	196	381413	53.14841	ppb	98
45) 2,4,5-Trichlorophenol	7.71	196	397607	52.20920	ppb	96
47) 1,1'-Biphenyl	7.85	154	1509872	48.45415	ppb	98
48) 2-Chloronaphthalene	7.88	162	1184129	49.33664	ppb	97
49) 2-Nitroaniline	8.02	65	272579	47.47941	ppb	89
50) Dimethyl phthalate	8.22	163	1414034	50.58316	ppb	99
51) 2,6-DNT	8.31	165	350393	52.45173	ppb	87
52) Acenaphthylene	8.35	152	1875006	50.03544	ppb	100
53) 3-Nitroaniline	8.51	138	353633	50.95137	ppb	92
54) Acenaphthene	8.56	154	1148459	48.40524	ppb	99
55) 2,4-Dinitrophenol	8.67	184	174220	52.04667	ppb	94
56) 4-Nitrophenol	8.76	65	145733	49.26593	ppb	98
57) Dibenzofuran	8.76	168	1717200	49.66644	ppb	96
58) 2,4-DNT	8.79	165	477908	53.62774	ppb	86
59) 2,3,4,6-Tetrachlorophenol	8.93	232	333983	56.46534	ppb	94
60) Diethyl phthalate	9.05	149	1333648	50.68048	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.16	204	696858	50.13583	ppb	93
62) Fluorene	9.17	166	1316613	49.06149	ppb	100
63) 4-Nitroaniline	9.24	138	355494	53.32530	ppb	97
66) 4,6-Dinitro-2-methylphenol	9.28	198	292595	52.17290	ppb	96
67) Diphenyl amine	9.32	169	2101549	95.75596	ppb	100
68) n-Nitrosodiphenylamine	9.32	169	2101549	95.75596	ppb	100
69) 1,2-Diphenylhydrazine	9.36	77	1189635	47.95445	ppb #	89
70) 4-Bromophenyl phenyl ether	9.74	248	461742	52.64883	ppb	90
71) Hexachlorobenzene	9.81	284	503353	55.24040	ppb	88
72) Atrazine	9.96	200	192866	23.64197	ppb	98
73) Pentachlorophenol	10.07	266	188740	64.00732	ppb	98
74) Phenanthrene	10.30	178	2032619	48.29691	ppb	99
75) Anthracene	10.36	178	2126278	49.18207	ppb	99
76) Carbazol	10.56	167	1963660	48.87953	ppb	97
77) Di-n-butylphthalate	10.96	149	2237914	49.65484	ppb	99
78) Fluoranthene	11.70	202	2300844	49.92207	ppb	98
80) Benzidine	11.88	184	282358	22.78977	ppb	99
81) Pyrene	11.96	202	2365648	48.42329	ppb	99
83) Butyl benzylphthalate	12.72	149	1029084	50.47981	ppb	93
84) 3,3'-Dichlorobenzidine	13.35	252	833140	59.04163	ppb	99
85) Benz (a) anthracene	13.38	228	2180031	48.43209	ppb	99
86) Bis (2-ethylhexyl) phthala	13.38	149	1227260	48.68027	ppb #	95
87) Chrysene	13.42	228	2198938	49.51524	ppb	100
88) Di-n-octylphthalate	14.11	149	2417677	51.99618	ppb	97
90) Benzo (b) fluoranthene	14.64	252	2553622	52.08319	ppb	97
91) Benzo (k) fluoranthene	14.67	252	2159358	44.44436	ppb	99
92) Benzo (a) pyrene	15.07	252	2298009	50.02970	ppb	97
93) Indeno (1,2,3-cd) pyrene	16.91	276	2621169	49.79481	ppb	96
94) Dibenz (a,h) anthracene	16.92	278	2336728	51.59318	ppb	96
95) Benzo (g,h,i) perylene	17.43	276	2167894	52.19228	ppb	96

Quantitation Report

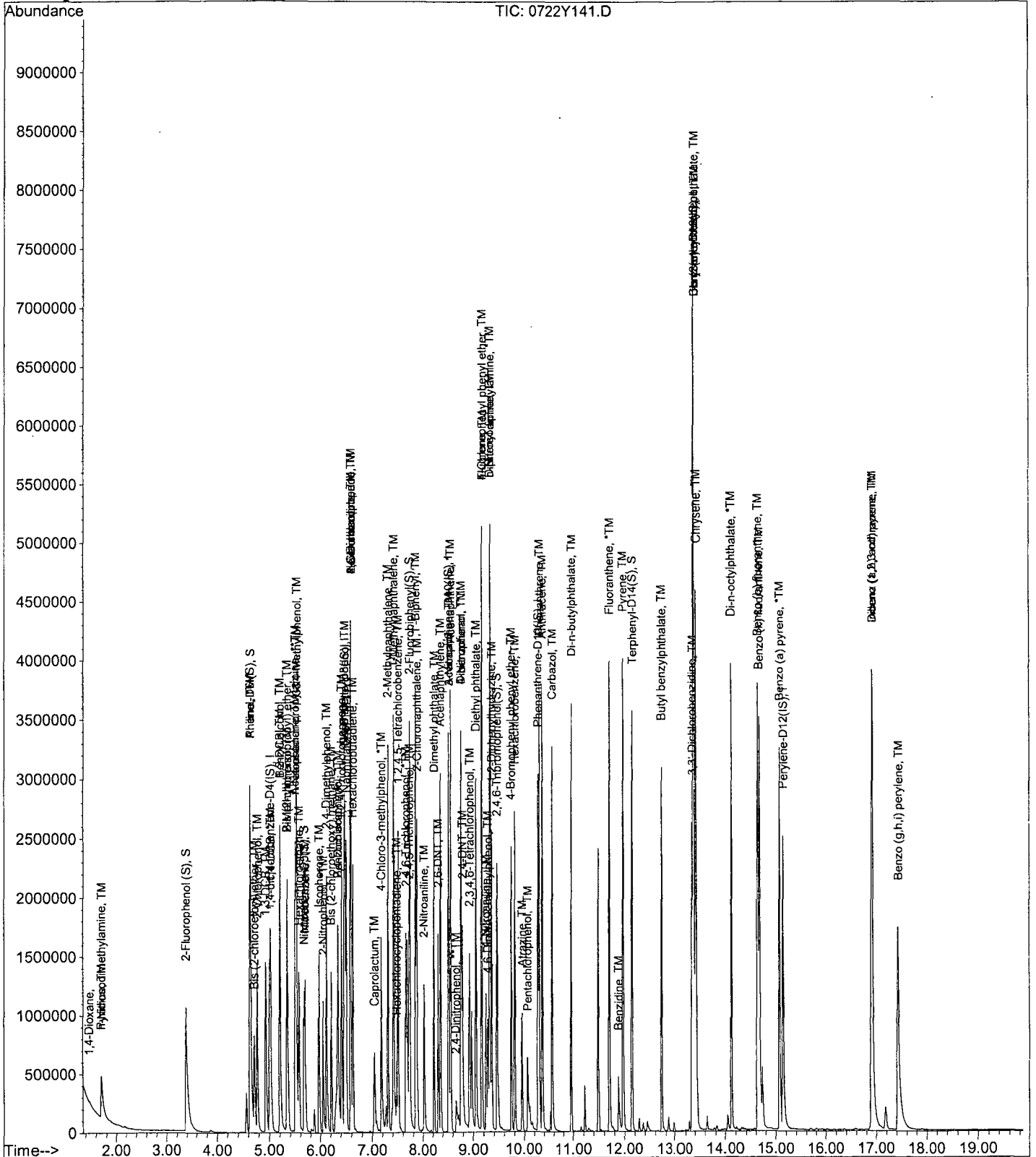
Data File : M:\YODA\DATA\Y190722\0722Y141.D
Acq On : 29 Jul 19 21:03
Sample : 50ug/ml 8270 07/12/19 (3)
Misc :

Vial: 41
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 30 7:24 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



ORGANICS
Raw Data

Data File : M:\YODA\DATA\Y190722\0722Y130.D Vial: 30
 Acq On : 29 Jul 19 15:55 Operator: MA,SS
 Sample : AZ95187W14 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Jul 30 14:39 2019 Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	265149	40.00000	ppb	-0.01
21) Napthalene-D8 (IS)	6.47	136	1157966	40.00000	ppb	-0.01
41) Acenaphthene-D10 (IS)	8.52	164	697115	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.26	188	1413990	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.38	240	1389772	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.14	264	1388001	40.00000	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.38	112	1495615	212.70353	ppb	-0.01
Spiked Amount 250.000			Recovery =	85.082%		
6) Phenol-D6 (S)	4.63	99	1595820	215.94457	ppb	0.00
Spiked Amount 250.000			Recovery =	86.378%		
22) Nitrobenzene-D5 (S)	5.66	82	798089	110.80544	ppb	-0.01
Spiked Amount 125.000			Recovery =	88.644%		
46) 2-Fluorobiphenyl (S)	7.73	172	1973608	100.78826	ppb	0.00
Spiked Amount 125.000			Recovery =	80.630%		
64) 2,4,6-Tribromophenol (S)	9.46	330	722689	240.44715	ppb	0.00
Spiked Amount 250.000			Recovery =	96.179%		
82) Terphenyl-D14 (S)	12.15	244	2516740	90.25107	ppb	0.00
Spiked Amount 125.000			Recovery =	72.201%		
Target Compounds						
50) Dimethyl phthalate	8.22	163	101612	4.83381	ppb	Qvalue 99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

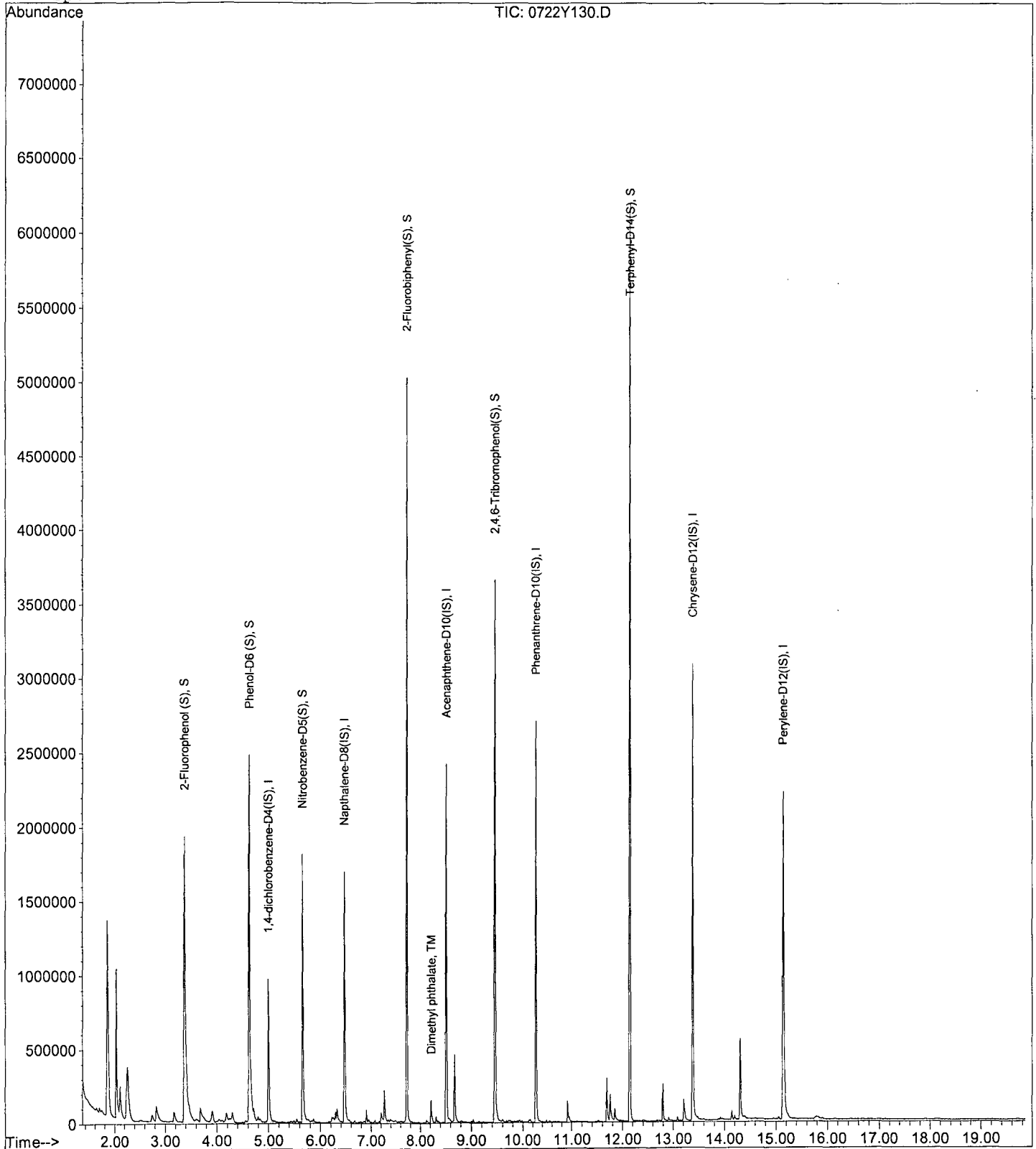
Data File : M:\YODA\DATA\Y190722\0722Y130.D
Acq On : 29 Jul 19 15:55
Sample : AZ95187W14 1/800
Misc :

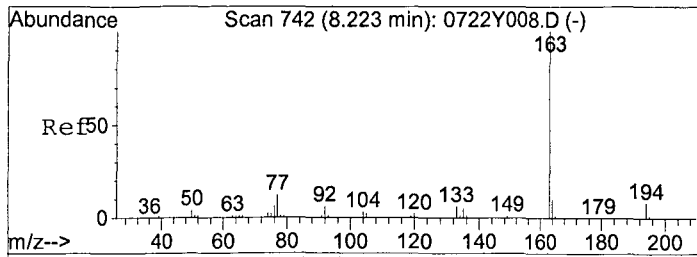
Vial: 30
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 30 14:39 2019

Quant Results File: Y0722NC.RES

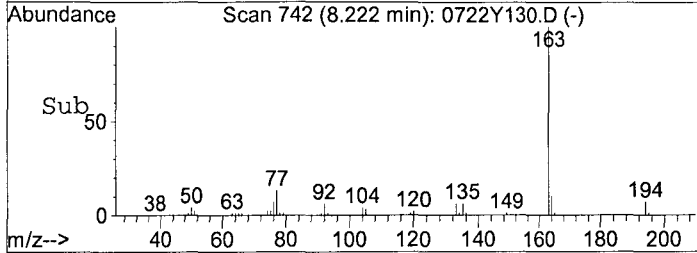
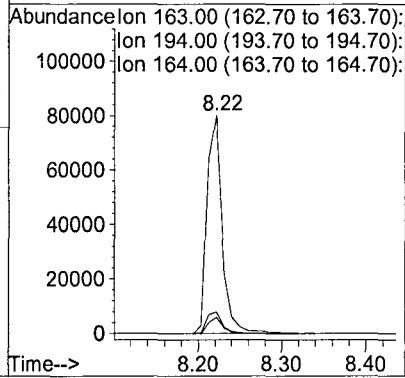
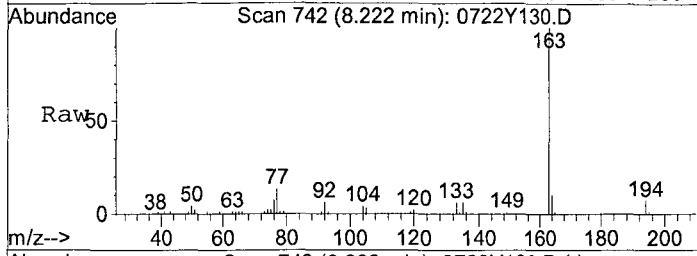
Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration





#50
 Dimethyl phthalate
 Concen: 4.83381 ppb
 RT: 8.22 min Scan# 742
 Delta R.T. -0.00 min
 Lab File: 0722Y130.D
 Acq: 29 Jul 19 15:55

Tgt Ion	Resp	Lower	Upper
163	101612		
163	100		
194	7.4	5.5	10.3
164	10.0	6.9	12.9



Data File : M:\YODA\DATA\Y190722\0722Y133.D Vial: 33
 Acq On : 29 Jul 19 17:19 Operator: MA,SS
 Sample : AZ95189W26 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Jul 30 14:41 2019 Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	271768	40.00000	ppb	-0.01
21) Napthalene-D8 (IS)	6.48	136	1167974	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	708289	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.26	188	1430685	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.38	240	1404806	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.14	264	1538807	40.00000	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.38	112	1485722	206.15036	ppb	-0.01
Spiked Amount 250.000			Recovery =	82.460%		
6) Phenol-D6 (S)	4.63	99	1600379	211.28706	ppb	0.00
Spiked Amount 250.000			Recovery =	84.515%		
22) Nitrobenzene-D5 (S)	5.66	82	812478	111.83661	ppb	-0.01
Spiked Amount 125.000			Recovery =	89.470%		
46) 2-Fluorobiphenyl (S)	7.73	172	2014817	101.26948	ppb	0.00
Spiked Amount 125.000			Recovery =	81.015%		
64) 2,4,6-Tribromophenol (S)	9.46	330	715578	234.32526	ppb	0.00
Spiked Amount 250.000			Recovery =	93.730%		
82) Terphenyl-D14 (S)	12.15	244	2506812	88.93301	ppb	0.00
Spiked Amount 125.000			Recovery =	71.146%		
Target Compounds						
50) Dimethyl phthalate	8.22	163	108059	5.05941	ppb	Qvalue 99

Quantitation Report

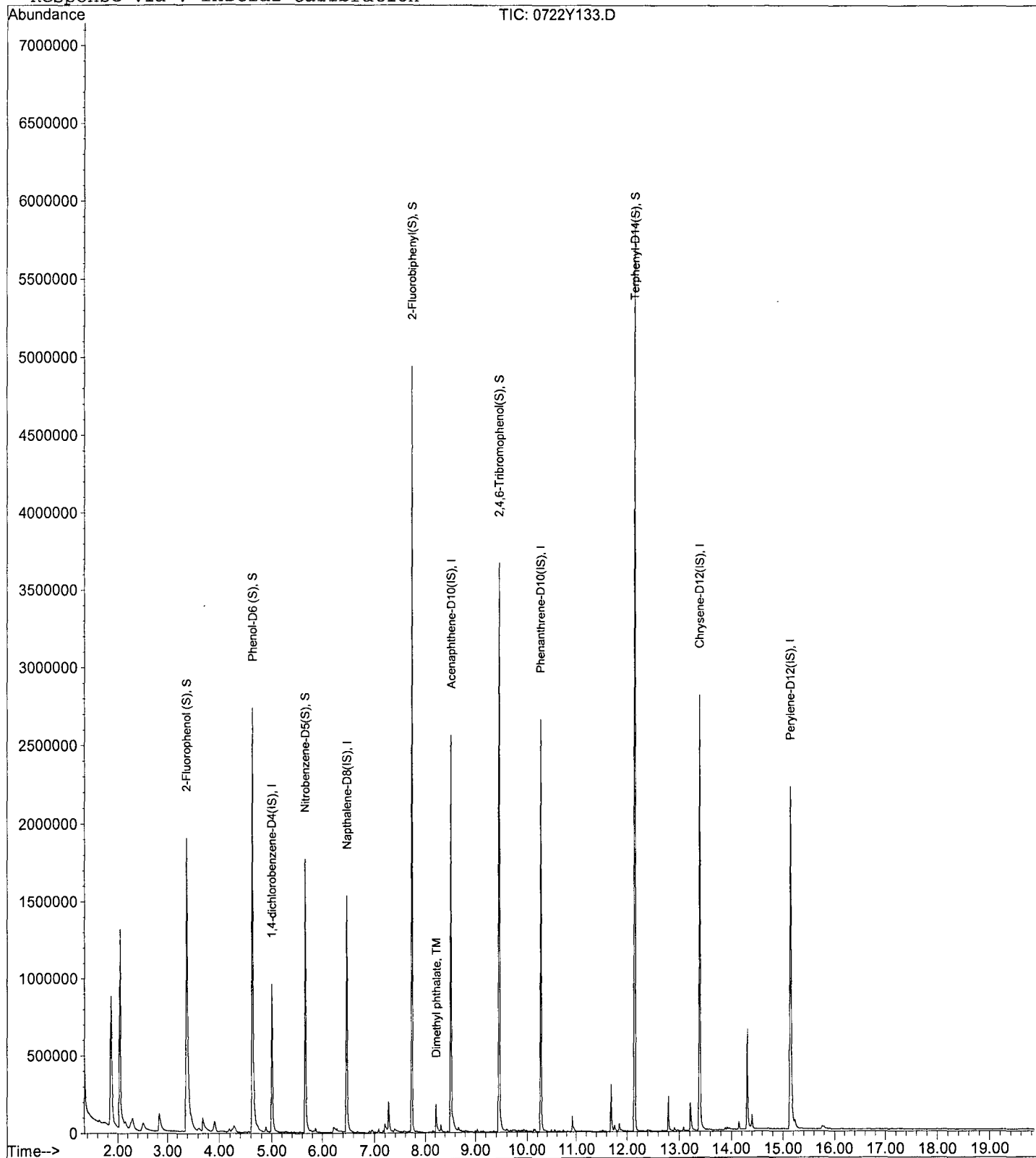
Data File : M:\YODA\DATA\Y190722\0722Y133.D
Acq On : 29 Jul 19 17:19
Sample : AZ95189W26 1/800
Misc :

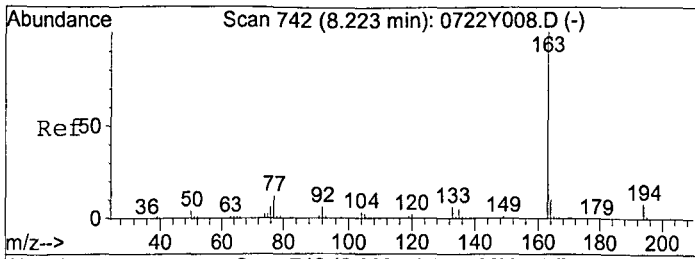
Vial: 33
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 30 14:41 2019

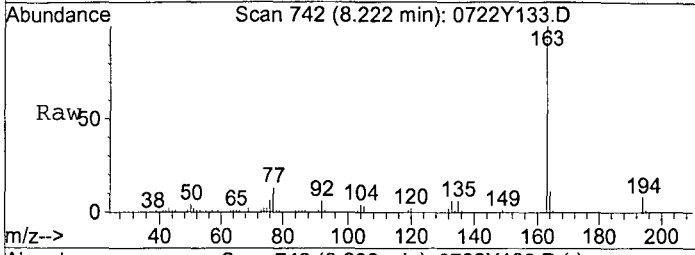
Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



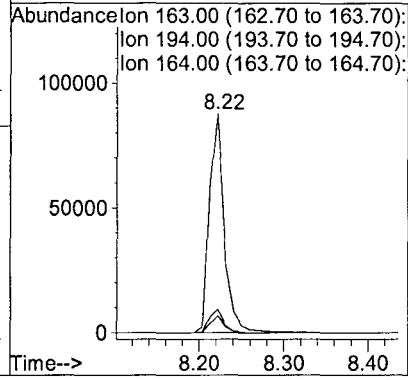
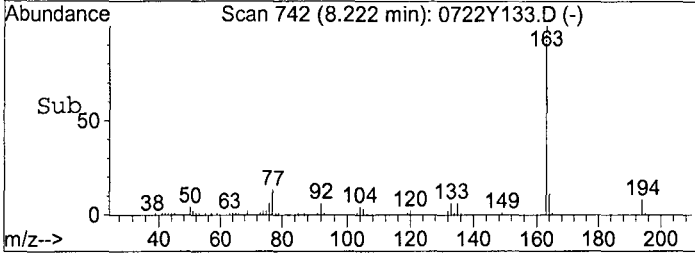


#50
 Dimethyl phthalate
 Concen: 5.05941 ppb
 RT: 8.22 min Scan# 742
 Delta R.T. -0.00 min
 Lab File: 0722Y133.D
 Acq: 29 Jul 19 17:19



Tgt Ion: 163 Resp: 108059

Ion	Ratio	Lower	Upper
163	100		
194	7.7	5.5	10.3
164	10.6	6.9	12.9



Data File : M:\YODA\DATA\Y190722\0722Y134.D Vial: 34
 Acq On : 29 Jul 19 17:47 Operator: MA,SS
 Sample : AZ95190W07 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Jul 30 14:43 2019 Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	271212	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.47	136	1160525	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.51	164	684458	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1353458	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.39	240	1336451	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.14	264	1447489	40.00000	ppb	0.01
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.39	112	1563499	217.38700	ppb	0.00
Spiked Amount	250.000		Recovery	=	86.955%	
6) Phenol-D6 (S)	4.63	99	1689293	223.48298	ppb	0.00
Spiked Amount	250.000		Recovery	=	89.393%	
22) Nitrobenzene-D5 (S)	5.66	82	815877	113.02532	ppb	0.00
Spiked Amount	125.000		Recovery	=	90.420%	
46) 2-Fluorobiphenyl (S)	7.73	172	2015126	104.81148	ppb	0.00
Spiked Amount	125.000		Recovery	=	83.849%	
64) 2,4,6-Tribromophenol (S)	9.46	330	722911	244.96873	ppb	0.00
Spiked Amount	250.000		Recovery	=	97.988%	
82) Terphenyl-D14 (S)	12.15	244	2578317	96.14813	ppb	0.01
Spiked Amount	125.000		Recovery	=	76.918%	
Target Compounds						Qvalue
50) Dimethyl phthalate	8.22	163	118627	5.74759	ppb	98

Quantitation Report

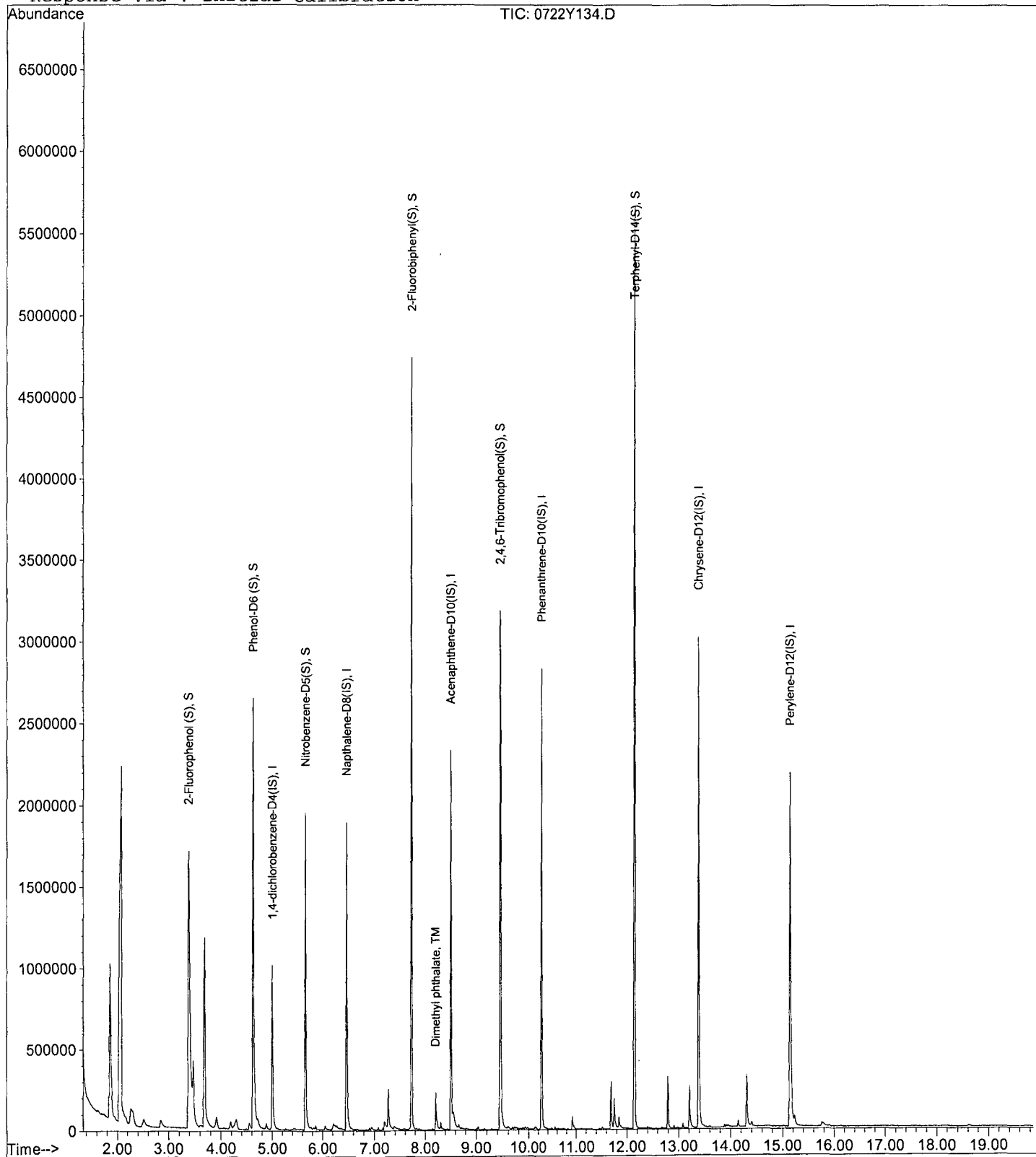
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Acq On : 29 Jul 19 17:47
Sample : AZ95190W07 1/800
Misc :

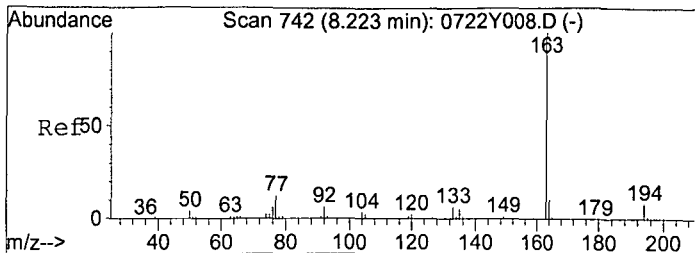
Vial: 34
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 30 14:43 2019

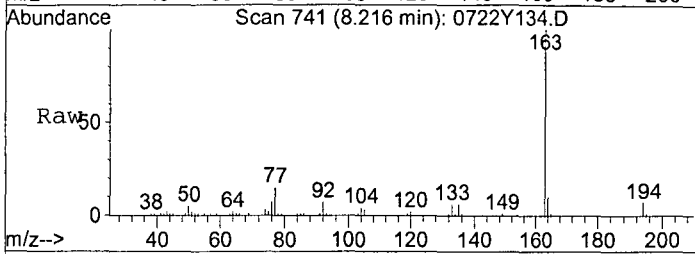
Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



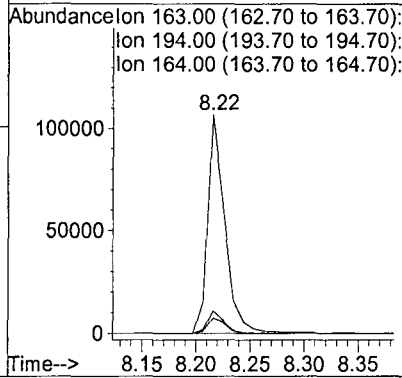
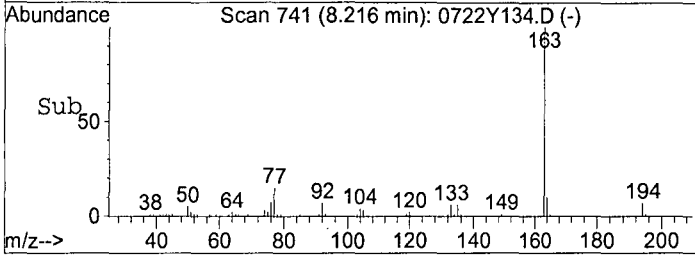


#50
 Dimethyl phthalate
 Concen: 5.74759 ppb
 RT: 8.22 min Scan# 741
 Delta R.T. -0.01 min
 Lab File: 0722Y134.D
 Acq: 29 Jul 19 17:47



Tgt Ion:163 Resp: 118627

Ion	Ratio	Lower	Upper
163	100		
194	7.0	5.5	10.3
164	10.3	6.9	12.9



Data File : M:\YODA\DATA\Y190722\0722Y127.D
 Acq On : 29 Jul 19 14:31
 Sample : 190725A BLK 1/800
 Misc :

Vial: 27
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Jul 30 12:54 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	277806	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.47	136	1158336	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	692778	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1407707	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.38	240	1400268	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.14	264	1506562	40.00000	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.38	112	1460893	198.29952	ppb	0.00
Spiked Amount 250.000			Recovery =	79.320%		
6) Phenol-D6 (S)	4.62	99	1546555	199.74326	ppb	0.00
Spiked Amount 250.000			Recovery =	79.897%		
22) Nitrobenzene-D5 (S)	5.66	82	797125	110.63625	ppb	0.00
Spiked Amount 125.000			Recovery =	88.509%		
46) 2-Fluorobiphenyl (S)	7.73	172	1889854	97.11529	ppb	0.00
Spiked Amount 125.000			Recovery =	77.692%		
64) 2,4,6-Tribromophenol (S)	9.46	330	698155	233.73857	ppb	0.00
Spiked Amount 250.000			Recovery =	93.496%		
82) Terphenyl-D14 (S)	12.15	244	2503311	89.09661	ppb	0.00
Spiked Amount 125.000			Recovery =	71.278%		
Target Compounds						Qvalue
50) Dimethyl phthalate	8.22	163	72265	3.45926	ppb	99

Quantitation Report

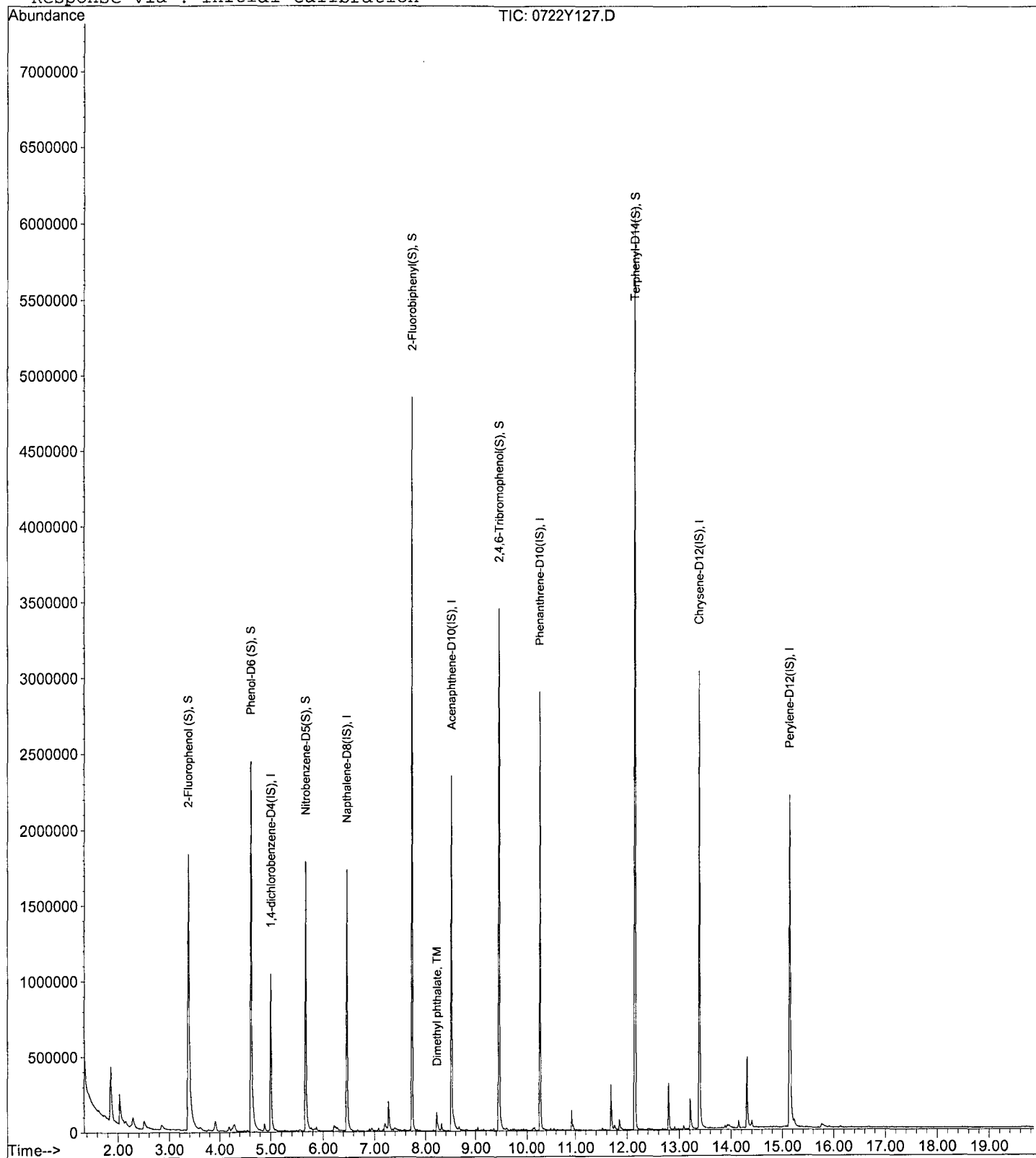
Data File : M:\YODA\DATA\Y190722\0722Y127.D
Acq On : 29 Jul 19 14:31
Sample : 190725A BLK 1/800
Misc :

Vial: 27
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 30 12:54 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y128.D
 Acq On : 29 Jul 19 15:00
 Sample : 190725A LCS-1 1/800
 Misc :

Vial: 28
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Jul 30 7:44 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	276356	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.47	136	1135465	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	688835	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1424540	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.39	240	1320111	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.14	264	1532801	40.00000	ppb	0.01

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.38	112	1507442	205.69161	ppb	0.00
Spiked Amount 250.000			Recovery =	82.277%		
6) Phenol-D6 (S)	4.63	99	1552644	201.58182	ppb	0.00
Spiked Amount 250.000			Recovery =	80.633%		
22) Nitrobenzene-D5 (S)	5.66	82	762483	107.95978	ppb	0.00
Spiked Amount 125.000			Recovery =	86.368%		
46) 2-Fluorobiphenyl (S)	7.73	172	1939755	100.25017	ppb	0.00
Spiked Amount 125.000			Recovery =	80.200%		
64) 2,4,6-Tribromophenol (S)	9.46	330	702217	236.44425	ppb	0.00
Spiked Amount 250.000			Recovery =	94.578%		
82) Terphenyl-D14 (S)	12.15	244	2556129	96.50057	ppb	0.01
Spiked Amount 125.000			Recovery =	77.201%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.47	58	10056	17.74012		83
3) n-Nitrosodimethylamine	1.69	42	80202	79.64552	ppb	97
4) Pyridine	1.70	79	159056	64.07870	ppb	99
7) Phenol	4.65	94	567307	55.95337	ppb	79
8) Aniline	4.63	93	375358	37.89985	ppb	# 77
9) Bis (2-chloroethyl) ether	4.72	63	217717	50.25643	ppb	82
10) 2-Chlorophenol	4.77	128	463125	56.77854	ppb	97
11) 1,3-DCB	4.93	146	422153	45.89832	ppb	99
12) 1,4-DCB	5.02	146	432307	46.86897	ppb	98
13) Benzyl alcohol	5.20	108	261249	57.97476	ppb	99
14) 1,2-DCB	5.20	146	416921	48.94315	ppb	99
15) 2-Methylphenol	5.34	107	353203	54.60229	ppb	98
16) Bis (2-chloroisopropyl) et	5.33	45	311355	45.83534	ppb	90
17) Acetophenone	5.49	105	541019	56.44055	ppb	95
18) 3&4-Methylphenol	5.52	107	849522	110.73417	ppb	100
19) n-Nitrosodi-n-propylamine	5.49	70	252728	55.02907	ppb	96
20) Hexachloroethane	5.57	117	115281	37.31983	ppb	95
23) Nitrobenzene	5.69	77	385945	52.07185	ppb	95
24) Isophorone	5.96	82	701390	53.59579	ppb	94
25) 2-Nitrophenol	6.05	139	279616	59.08269	ppb	95
26) 2,4-Dimethylphenol	6.12	122	365243	49.80024	ppb	100
27) Benzoic acid	6.31	105	264836	56.63702	ppb	99
28) Bis (2-chloroethoxy) metha	6.21	93	455667	53.00963	ppb	98
29) 2,4-Dichlorophenol	6.34	162	399279	57.09065	ppb	100
30) 1,2,4-Trichlorobenzene	6.41	180	365367	47.17909	ppb	99
31) 3,4-Dimethylphenol	6.46	107	502928	53.50875	ppb	97
32) Napthalene	6.50	128	1207962	51.21423	ppb	100
33) 4-Chloroaniline	6.58	127	259412	29.46805	ppb	98
34) 2,6-Dichlorophenol	6.58	162	371710	56.20383	ppb	96
35) Hexachloropropene	6.59	213	170860	39.21799	ppb	99
36) Hexachlorobutadiene	6.63	225	173324	40.75628	ppb	98
37) Caprolactum	7.03	55	127558	46.87172	ppb	87

(#) = qualifier out of range (m) = manual integration
 0722Y128.D Y0722NC.M Fri Aug 23 16:04:58 2019

Data File : M:\YODA\DATA\Y190722\0722Y128.D
 Acq On : 29 Jul 19 15:00
 Sample : 190725A LCS-1 1/800
 Misc :

Vial: 28
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Jul 30 7:44 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.18	107	393406	57.97608	ppb	93
39) 2-Methylnaphthalene	7.31	142	815405	51.50385	ppb	100
40) 1-Methylnaphthalene	7.42	142	832261	50.91308	ppb	98
42) Hexachlorocyclopentadiene	7.47	237	2068	15.90278	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	399915	46.67477	ppb	99
44) 2,4,6-Trichlorophenol	7.66	196	306985	57.57049	ppb	100
45) 2,4,5-Trichlorophenol	7.71	196	302011	53.37080	ppb	99
47) 1,1'-Biphenyl	7.85	154	1073434	46.36114	ppb	99
48) 2-Chloronaphthalene	7.87	162	862481	48.36243	ppb	99
49) 2-Nitroaniline	8.02	65	203246	47.64561	ppb	98
50) Dimethyl phthalate	8.22	163	1135780	54.67997	ppb	100
51) 2,6-DNT	8.31	165	261389	52.65986	ppb	99
52) Acenaphthylene	8.35	152	1360709	48.86841	ppb	100
53) 3-Nitroaniline	8.51	138	221896	43.02694	ppb	# 86
54) Acenaphthene	8.56	154	846998	48.04490	ppb	99
55) 2,4-Dinitrophenol	8.66	184	143386	59.54398	ppb	96
56) 4-Nitrophenol	8.76	65	121966	55.49010	ppb	98
57) Dibenzofuran	8.76	168	1283685	49.96761	ppb	97
58) 2,4-DNT	8.79	165	363397	54.88005	ppb	# 79
59) 2,3,4,6-Tetrachlorophenol	8.93	232	251648	57.25838	ppb	95
60) Diethyl phthalate	9.05	149	1005773	51.43840	ppb	96
61) 4-Chlorophenyl phenyl ethe	9.16	204	526053	50.93559	ppb	97
62) Fluorene	9.16	166	986126	49.45417	ppb	100
63) 4-Nitroaniline	9.25	138	253553	51.18677	ppb	# 86
66) 4,6-Dinitro-2-methylphenol	9.27	198	232864	55.63677	ppb	98
67) Diphenyl amine	9.32	169	1476492	90.14443	ppb	100
68) n-Nitrosodiphenylamine	9.32	169	1476492	90.14443	ppb	100
69) 1,2-Diphenylhydrazine	9.36	77	878906	47.47218	ppb	# 78
70) 4-Bromophenyl phenyl ether	9.74	248	345699	52.81643	ppb	98
71) Hexachlorobenzene	9.81	284	371308	54.60092	ppb	# 83
72) Atrazine	9.95	200	154350	25.35222	ppb	98
73) Pentachlorophenol	10.06	266	174708	79.38893	ppb	99
74) Phenanthrene	10.29	178	1514637	48.22291	ppb	100
75) Anthracene	10.36	178	1569518	48.64459	ppb	100
76) Carbazol	10.56	167	1446404	48.24273	ppb	98
77) Di-n-butylphthalate	10.95	149	1717593	51.06460	ppb	100
78) Fluoranthene	11.70	202	1707565	49.64371	ppb	99
80) Benzidine	11.90	184	35973	3.80056	ppb	98
81) Pyrene	11.97	202	1757523	47.09079	ppb	100
83) Butyl benzylphthalate	12.72	149	767348	49.27085	ppb	97
84) 3,3'-Dichlorobenzidine	13.35	252	360233	33.41601	ppb	98
85) Benz (a) anthracene	13.38	228	1631320	47.43954	ppb	98
86) Bis (2-ethylhexyl) phthala	13.38	149	943466	48.98616	ppb	98
87) Chrysene	13.42	228	1670074	49.22576	ppb	100
88) Di-n-octylphthalate	14.11	149	1846409	51.97947	ppb	100
90) Benzo (b) fluoranthene	14.63	252	1793185	48.29096	ppb	98
91) Benzo (k) fluoranthene	14.67	252	1766043	47.99467	ppb	98
92) Benzo (a) pyrene	15.07	252	1648072	47.37532	ppb	99
93) Indeno (1,2,3-cd) pyrene	16.90	276	1894514	47.52112	ppb	96
94) Dibenz (a,h) anthracene	16.91	278	1750862	51.04296	ppb	97
95) Benzo (g,h,i) perylene	17.42	276	1684365	53.54319	ppb	98

(#) = qualifier out of range (m) = manual integration
 0722Y128.D Y0722NC.M Fri Aug 23 16:04:59 2019

Quantitation Report

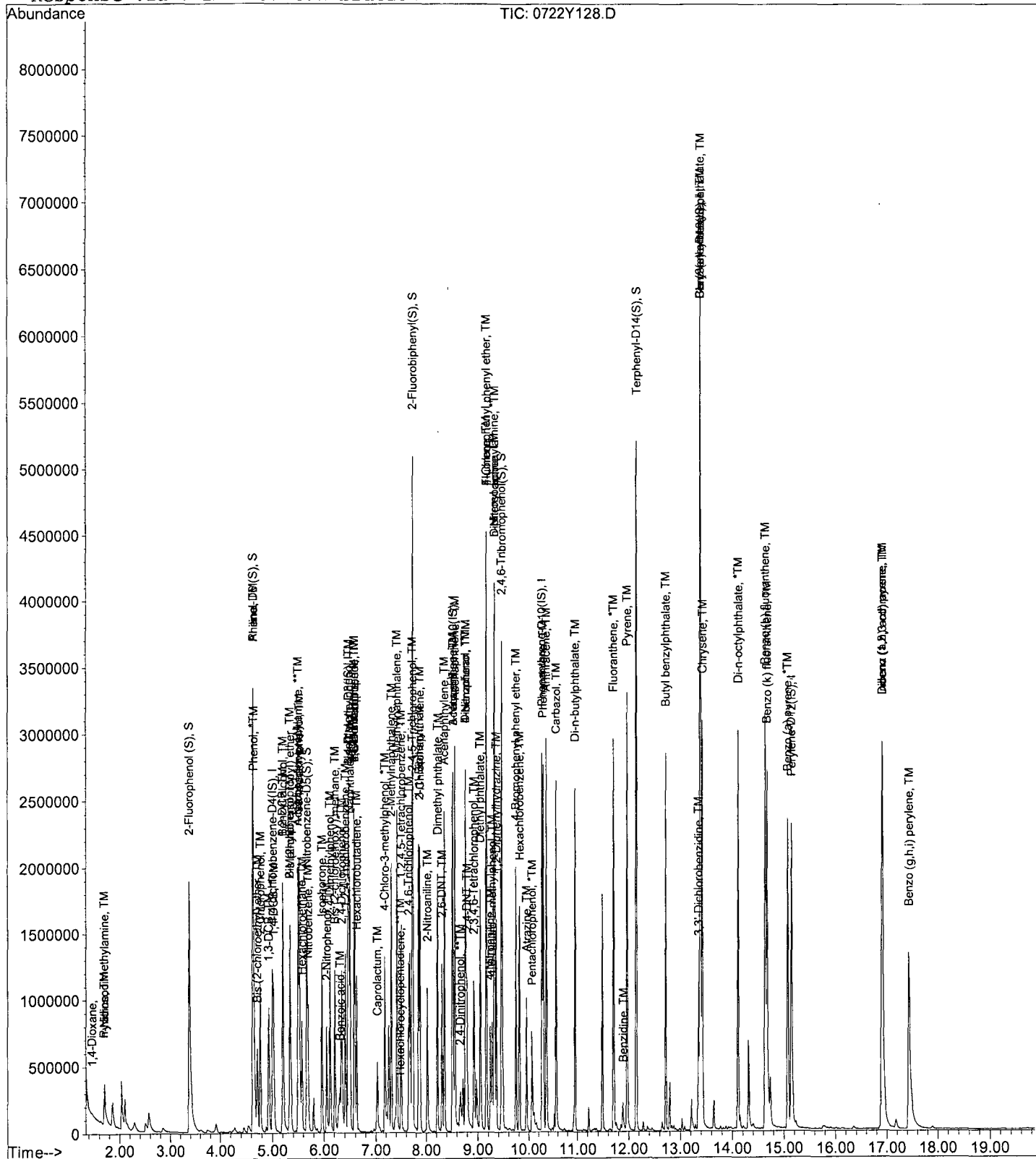
Data File : M:\YODA\DATA\Y190722\0722Y128.D
Acq On : 29 Jul 19 15:00
Sample : 190725A LCS-1 1/800
Misc :

Vial: 28
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 30 7:44 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y129.D
 Acq On : 29 Jul 19 15:27
 Sample : 190725A LCSD-1 1/800
 Misc :

Vial: 29
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Jul 30 7:44 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	277066	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.47	136	1172430	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	702341	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1425790	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.39	240	1330405	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.14	264	1539575	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.38	112	1505064	204.84087	ppb	0.00
Spiked Amount	250.000		Recovery	=	81.936%	
6) Phenol-D6 (S)	4.63	99	1576300	204.12867	ppb	0.00
Spiked Amount	250.000		Recovery	=	81.652%	
22) Nitrobenzene-D5 (S)	5.66	82	764577	104.84310	ppb	0.00
Spiked Amount	125.000		Recovery	=	83.874%	
46) 2-Fluorobiphenyl (S)	7.73	172	1935817	98.12276	ppb	0.00
Spiked Amount	125.000		Recovery	=	78.498%	
64) 2,4,6-Tribromophenol (S)	9.46	330	712153	235.17866	ppb	0.00
Spiked Amount	250.000		Recovery	=	94.072%	
82) Terphenyl-D14 (S)	12.15	244	2525165	94.59397	ppb	0.00
Spiked Amount	125.000		Recovery	=	75.675%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.46	58	13227	23.27439		# 41
3) n-Nitrosodimethylamine	1.69	42	82425	81.64334	ppb	98
4) Pyridine	1.71	79	118120	47.46491	ppb	98
7) Phenol	4.65	94	558350	54.92882	ppb	# 77
8) Aniline	4.64	93	222092	22.36714	ppb	# 41
9) Bis (2-chloroethyl) ether	4.71	63	218199	50.23862	ppb	84
10) 2-Chlorophenol	4.77	128	458364	56.05084	ppb	96
11) 1,3-DCB	4.93	146	439427	47.65399	ppb	99
12) 1,4-DCB	5.02	146	448125	48.45940	ppb	99
13) Benzyl alcohol	5.20	108	261219	57.81955	ppb	100
14) 1,2-DCB	5.20	146	440504	51.57908	ppb	99
15) 2-Methylphenol	5.34	107	354259	54.62520	ppb	98
16) Bis (2-chloroisopropyl) et	5.33	45	309216	45.40380	ppb	86
17) Acetophenone	5.49	105	541666	56.36325	ppb	96
18) 3&4-Methylphenol	5.52	107	860785	111.91476	ppb	99
19) n-Nitrosodi-n-propylamine	5.49	70	248551	53.98089	ppb	97
20) Hexachloroethane	5.57	117	123476	39.87036	ppb	95
23) Nitrobenzene	5.69	77	386869	50.55084	ppb	95
24) Isophorone	5.96	82	696385	51.53560	ppb	95
25) 2-Nitrophenol	6.05	139	277835	56.85544	ppb	95
26) 2,4-Dimethylphenol	6.12	122	400558	52.89344	ppb	99
27) Benzoic acid	6.32	105	318260	65.91622	ppb	98
28) Bis (2-chloroethoxy) metha	6.21	93	442101	49.80989	ppb	98
29) 2,4-Dichlorophenol	6.34	162	398554	55.19027	ppb	100
30) 1,2,4-Trichlorobenzene	6.41	180	374686	46.85701	ppb	100
31) 3,4-Dimethylphenol	6.46	107	505085	52.04395	ppb	98
32) Napthalene	6.50	128	1247932	51.24070	ppb	100
33) 4-Chloroaniline	6.59	127	60921	6.70217	ppb	96
34) 2,6-Dichlorophenol	6.58	162	372999	54.62057	ppb	95
35) Hexachloropropene	6.59	213	178690	39.72209	ppb	99
36) Hexachlorobutadiene	6.63	225	182849	41.64043	ppb	98
37) Caprolactum	7.03	55	131013	46.62345	ppb	92

(#) = qualifier out of range (m) = manual integration
 0722Y129.D Y0722NC.M Fri Aug 23 16:05:02 2019

Data File : M:\YODA\DATA\Y190722\0722Y129.D
 Acq On : 29 Jul 19 15:27
 Sample : 190725A LCSD-1 1/800
 Misc :

Vial: 29
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Jul 30 7:44 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	394417	56.29248	ppb	96
39) 2-Methylnaphthalene	7.30	142	833193	50.96813	ppb	99
40) 1-Methylnaphthalene	7.42	142	830942	49.22972	ppb	99
42) Hexachlorocyclopentadiene	7.47	237	3530	17.12080	ppb	98
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	400217	45.81178	ppb	100
44) 2,4,6-Trichlorophenol	7.66	196	302142	55.57264	ppb	99
45) 2,4,5-Trichlorophenol	7.71	196	305419	52.93516	ppb	97
47) 1,1'-Biphenyl	7.85	154	1076655	45.60605	ppb	98
48) 2-Chloronaphthalene	7.87	162	858353	47.20540	ppb	98
49) 2-Nitroaniline	8.02	65	197690	45.45197	ppb	97
50) Dimethyl phthalate	8.22	163	1121727	52.96494	ppb	99
51) 2,6-DNT	8.31	165	261965	51.76102	ppb	97
52) Acenaphthylene	8.35	152	1347073	47.44837	ppb	100
53) 3-Nitroaniline	8.52	138	59283	11.27427	ppb	# 89
54) Acenaphthene	8.56	154	839838	46.72266	ppb	98
55) 2,4-Dinitrophenol	8.66	184	132755	55.59919	ppb	96
56) 4-Nitrophenol	8.77	65	125521	56.00932	ppb	87
57) Dibenzofuran	8.76	168	1279701	48.85464	ppb	98
58) 2,4-DNT	8.79	165	352656	52.23380	ppb	# 80
59) 2,3,4,6-Tetrachlorophenol	8.93	232	254710	56.84061	ppb	93
60) Diethyl phthalate	9.05	149	1013077	50.81561	ppb	96
61) 4-Chlorophenyl phenyl ethe	9.16	204	524506	49.80919	ppb	96
62) Fluorene	9.16	166	979127	48.15892	ppb	99
63) 4-Nitroaniline	9.23	138	203030	40.19910	ppb	96
66) 4,6-Dinitro-2-methylphenol	9.27	198	235188	56.14277	ppb	98
67) Diphenyl amine	9.32	169	1180955	72.03777	ppb	99
68) n-Nitrosodiphenylamine	9.32	169	1180955	72.03777	ppb	99
69) 1,2-Diphenylhydrazine	9.36	77	808845	43.64969	ppb	# 80
70) 4-Bromophenyl phenyl ether	9.74	248	346238	52.85240	ppb	95
71) Hexachlorobenzene	9.81	284	366285	53.81507	ppb	# 86
72) Atrazine	9.95	200	72399	11.88122	ppb	99
73) Pentachlorophenol	10.06	266	182751	82.97094	ppb	100
74) Phenanthrene	10.30	178	1509697	48.02349	ppb	99
75) Anthracene	10.36	178	1554937	48.15043	ppb	99
76) Carbazol	10.56	167	1430382	47.66651	ppb	97
77) Di-n-butylphthalate	10.96	149	1682784	49.98586	ppb	99
78) Fluoranthene	11.70	202	1692530	49.16346	ppb	98
80) Benzidine	11.92	184	3036	0.31827	ppb	# 66
81) Pyrene	11.96	202	1751337	46.56196	ppb	99
83) Butyl benzylphthalate	12.72	149	758575	48.33067	ppb	96
84) 3,3'-Dichlorobenzidine	13.35	252	136766	12.58855	ppb	98
85) Benz (a) anthracene	13.38	228	1597497	46.09650	ppb	99
86) Bis (2-ethylhexyl) phthala	13.38	149	962760	49.60115	ppb	97
87) Chrysene	13.42	228	1679634	49.12447	ppb	99
88) Di-n-octylphthalate	14.11	149	1842859	51.47811	ppb	99
90) Benzo (b) fluoranthene	14.63	252	1751256	46.95429	ppb	99
91) Benzo (k) fluoranthene	14.67	252	1787427	48.36208	ppb	99
92) Benzo (a) pyrene	15.06	252	1645583	47.09564	ppb	99
93) Indeno (1,2,3-cd) pyrene	16.90	276	1876708	46.86736	ppb	96
94) Dibenz (a,h) anthracene	16.91	278	1743147	50.59445	ppb	98
95) Benzo (g,h,i) perylene	17.42	276	1667967	52.78863	ppb	99

(#) = qualifier out of range (m) = manual integration
 0722Y129.D Y0722NC.M Fri Aug 23 16:05:03 2019

Quantitation Report

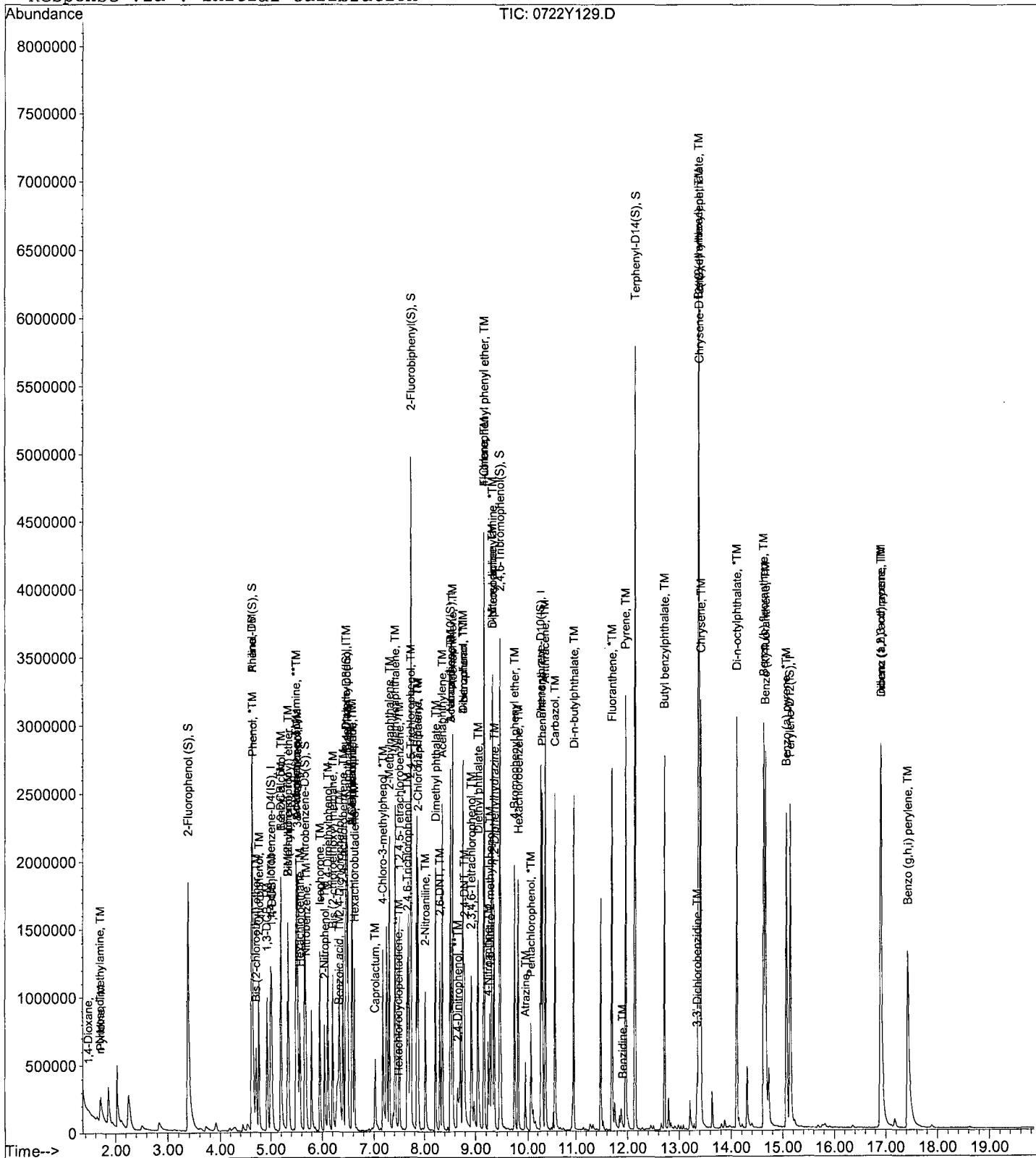
Data File : M:\YODA\DATA\Y190722\0722Y129.D
Acq On : 29 Jul 19 15:27
Sample : 190725A LCSD-1 1/800
Misc :

Vial: 29
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 30 7:44 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y131.D
 Acq On : 29 Jul 19 16:23
 Sample : AZ95189W24 MS-1 1/800
 Misc :

Vial: 31
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Jul 30 7:44 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	261380	40.00000	ppb	0.00
21) Naphthalene-D8 (IS)	6.48	136	1136864	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	671721	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1376708	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.39	240	1272614	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.15	264	1479578	40.00000	ppb	0.02

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.38	112	1346987	194.32824	ppb	0.00
Spiked Amount 250.000			Recovery =	77.731%		
6) Phenol-D6 (S)	4.63	99	1440684	197.76287	ppb	0.00
Spiked Amount 250.000			Recovery =	79.105%		
22) Nitrobenzene-D5 (S)	5.67	82	759191	107.36138	ppb	0.00
Spiked Amount 125.000			Recovery =	85.889%		
46) 2-Fluorobiphenyl (S)	7.73	172	1926039	102.07740	ppb	0.00
Spiked Amount 125.000			Recovery =	81.662%		
64) 2,4,6-Tribromophenol (S)	9.47	330	691296	238.69743	ppb	0.00
Spiked Amount 250.000			Recovery =	95.479%		
82) Terphenyl-D14 (S)	12.15	244	2468536	96.67192	ppb	0.00
Spiked Amount 125.000			Recovery =	77.338%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.46	58	6927	12.92031		88
3) n-Nitrosodimethylamine	1.69	42	77463	81.33304	ppb	87
4) Pyridine	1.71	79	160849	68.51387	ppb	95
7) Phenol	4.65	94	541336	56.45099	ppb	81
8) Aniline	4.63	93	420580	44.89903	ppb #	72
9) Bis (2-chloroethyl) ether	4.71	63	214758	52.41374	ppb	85
10) 2-Chlorophenol	4.77	128	440075	57.04390	ppb	98
11) 1,3-DCB	4.93	146	441569	50.76005	ppb	98
12) 1,4-DCB	5.02	146	448064	51.36056	ppb	99
13) Benzyl alcohol	5.20	108	258113	60.56068	ppb	99
14) 1,2-DCB	5.20	146	429894	53.35757	ppb	99
15) 2-Methylphenol	5.34	107	345835	56.52649	ppb	98
16) Bis (2-chloroisopropyl) et	5.33	45	306698	47.73667	ppb #	82
17) Acetophenone	5.49	105	538334	59.37821	ppb	96
18) 3&4-Methylphenol	5.52	107	830397	114.44303	ppb	99
19) n-Nitrosodi-n-propylamine	5.49	70	253014	58.24786	ppb	98
20) Hexachloroethane	5.57	117	120804	41.34850	ppb	90
23) Nitrobenzene	5.69	77	383727	51.70889	ppb	97
24) Isophorone	5.96	82	706059	53.88618	ppb	96
25) 2-Nitrophenol	6.05	139	268216	56.60413	ppb	97
26) 2,4-Dimethylphenol	6.12	122	383023	52.16025	ppb	99
27) Benzoic acid	6.31	105	223792	47.80058	ppb	98
28) Bis (2-chloroethoxy) metha	6.21	93	448685	52.13315	ppb	99
29) 2,4-Dichlorophenol	6.34	162	390075	55.70599	ppb	99
30) 1,2,4-Trichlorobenzene	6.41	180	382242	49.29739	ppb	100
31) 3,4-Dimethylphenol	6.46	107	492791	52.36571	ppb	99
32) Naphthalene	6.50	128	1239013	52.46606	ppb	100
33) 4-Chloroaniline	6.59	127	346304	39.29019	ppb	95
34) 2,6-Dichlorophenol	6.59	162	350598	52.94639	ppb	100
35) Hexachloropropene	6.59	213	154859	35.50150	ppb	99
36) Hexachlorobutadiene	6.63	225	171905	40.37286	ppb	99
37) Caprolactum	7.03	55	127920	46.94690	ppb	88

(#) = qualifier out of range (m) = manual integration

Data File : M:\YODA\DATA\Y190722\0722Y131.D
 Acq On : 29 Jul 19 16:23
 Sample : AZ95189W24 MS-1 1/800
 Misc :

Vial: 31
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Jul 30 7:44 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	391784	57.66600	ppb	97
39) 2-Methylnaphthalene	7.30	142	832540	52.52144	ppb	98
40) 1-Methylnaphthalene	7.42	142	834867	51.00965	ppb	99
42) Hexachlorocyclopentadiene	7.47	237	13269	24.95952	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	404771	48.44513	ppb	100
44) 2,4,6-Trichlorophenol	7.66	196	283896	54.59694	ppb	98
45) 2,4,5-Trichlorophenol	7.71	196	286120	51.85080	ppb	97
47) 1,1'-Biphenyl	7.85	154	1075243	47.62244	ppb	99
48) 2-Chloronaphthalene	7.88	162	867694	49.89436	ppb	96
49) 2-Nitroaniline	8.02	65	200160	48.11765	ppb	93
50) Dimethyl phthalate	8.22	163	1124413	55.51192	ppb	99
51) 2,6-DNT	8.31	165	264714	54.68845	ppb	95
52) Acenaphthylene	8.35	152	1359710	50.07668	ppb	100
53) 3-Nitroaniline	8.51	138	241636	48.04840	ppb	# 88
54) Acenaphthene	8.56	154	844616	49.13042	ppb	99
55) 2,4-Dinitrophenol	8.66	184	134468	57.90069	ppb	97
56) 4-Nitrophenol	8.77	65	118403	55.24153	ppb	89
57) Dibenzofuran	8.76	168	1274168	50.86079	ppb	99
58) 2,4-DNT	8.79	165	355524	55.05900	ppb	83
59) 2,3,4,6-Tetrachlorophenol	8.93	232	246176	57.44041	ppb	96
60) Diethyl phthalate	9.05	149	1014694	53.21681	ppb	97
61) 4-Chlorophenyl phenyl ethe	9.16	204	518289	51.46241	ppb	94
62) Fluorene	9.17	166	982492	50.52727	ppb	99
63) 4-Nitroaniline	9.24	138	257636	53.33617	ppb	90
66) 4,6-Dinitro-2-methylphenol	9.28	198	229629	56.77003	ppb	91
67) Diphenyl amine	9.32	169	1483276	93.70496	ppb	100
68) n-Nitrosodiphenylamine	9.32	169	1483276	93.70496	ppb	100
69) 1,2-Diphenylhydrazine	9.36	77	884796	49.45073	ppb	# 85
70) 4-Bromophenyl phenyl ether	9.74	248	347687	54.96575	ppb	93
71) Hexachlorobenzene	9.81	284	366515	55.76866	ppb	87
72) Atrazine	9.95	200	150231	25.53300	ppb	97
73) Pentachlorophenol	10.06	266	160360	75.40081	ppb	99
74) Phenanthrene	10.30	178	1518683	50.03165	ppb	99
75) Anthracene	10.36	178	1571245	50.39007	ppb	100
76) Carbazol	10.56	167	1447752	49.96538	ppb	97
77) Di-n-butylphthalate	10.96	149	1734201	53.34970	ppb	99
78) Fluoranthene	11.70	202	1718290	51.69115	ppb	98
80) Benzidine	11.89	184	105054	11.51322	ppb	99
81) Pyrene	11.96	202	1772394	49.26165	ppb	99
83) Butyl benzylphthalate	12.73	149	770116	51.29412	ppb	90
84) 3,3'-Dichlorobenzidine	13.35	252	428682	41.24964	ppb	99
85) Benz (a) anthracene	13.38	228	1606253	48.45393	ppb	99
86) Bis (2-ethylhexyl) phthala	13.38	149	973379	52.42553	ppb	96
87) Chrysene	13.42	228	1670310	51.07020	ppb	99
88) Di-n-octylphthalate	14.11	149	1837042	53.64593	ppb	97
90) Benzo (b) fluoranthene	14.64	252	1964413	54.80516	ppb	97
91) Benzo (k) fluoranthene	14.67	252	1559231	43.89854	ppb	99
92) Benzo (a) pyrene	15.07	252	1652240	49.20361	ppb	97
93) Indeno (1,2,3-cd) pyrene	16.90	276	1876967	48.77457	ppb	95
94) Dibenz (a,h) anthracene	16.91	278	1736962	52.45926	ppb	99
95) Benzo (g,h,i) perylene	17.43	276	1681454	55.37337	ppb	97

(#) = qualifier out of range (m) = manual integration
 0722Y131.D Y0722NC.M Fri Aug 23 16:05:08 2019

Quantitation Report

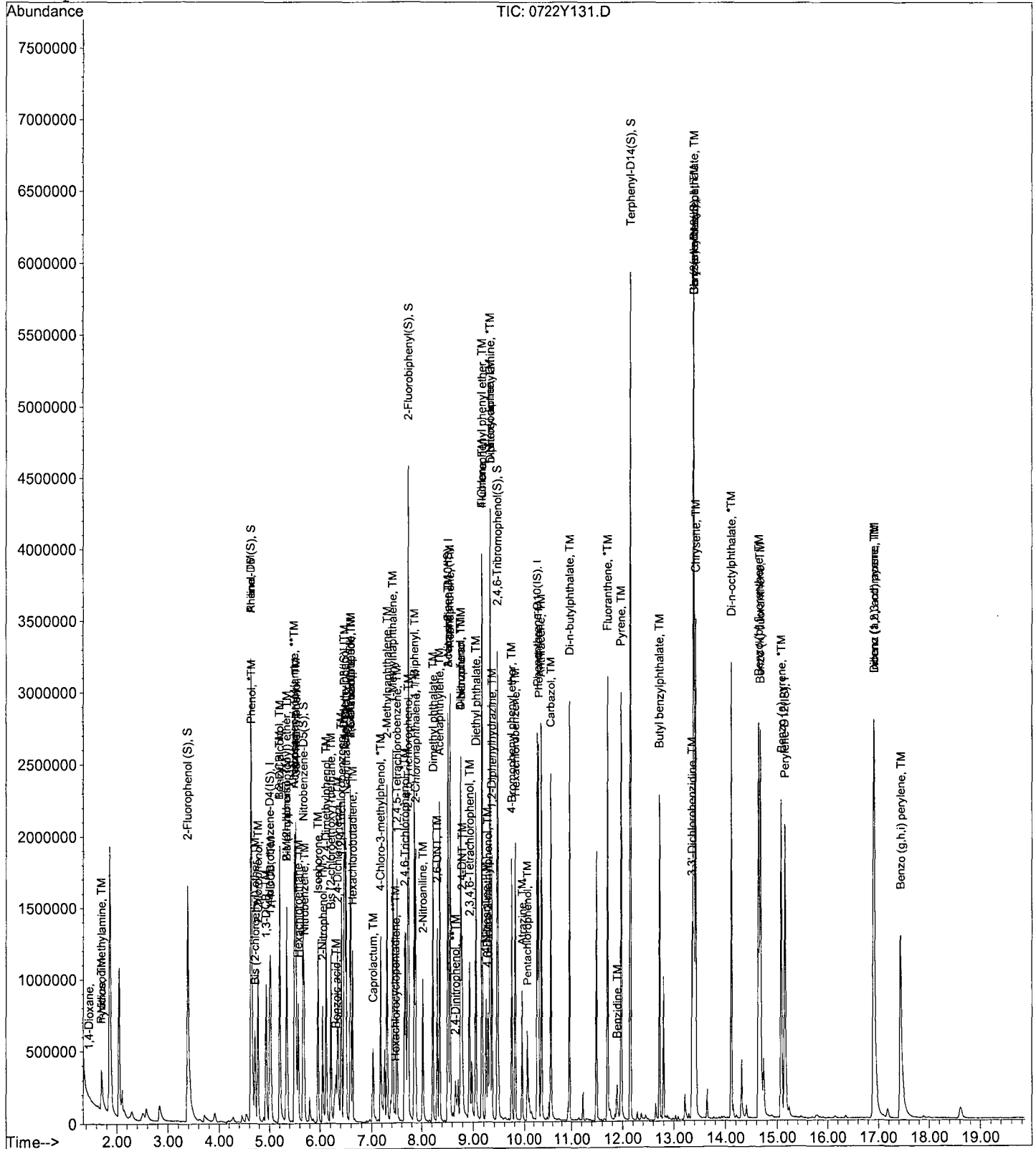
Data File : M:\YODA\DATA\Y190722\0722Y131.D
Acq On : 29 Jul 19 16:23
Sample : AZ95189W24 MS-1 1/800
Misc :

Vial: 31
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 30 7:44 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y132.D
 Acq On : 29 Jul 19 16:51
 Sample : AZ95189W31 MSD-1 1/800
 Misc :

Vial: 32
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Jul 30 7:44 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	273193	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.47	136	1142479	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	689652	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1414580	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.39	240	1326045	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.14	264	1521428	40.00000	ppb	0.01

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.38	112	1468515	202.69997	ppb	0.00
Spiked Amount 250.000			Recovery =	81.080%		
6) Phenol-D6 (S)	4.63	99	1541096	202.39906	ppb	0.00
Spiked Amount 250.000			Recovery =	80.960%		
22) Nitrobenzene-D5 (S)	5.66	82	770828	108.47129	ppb	0.00
Spiked Amount 125.000			Recovery =	86.777%		
46) 2-Fluorobiphenyl (S)	7.73	172	1978500	102.13145	ppb	0.00
Spiked Amount 125.000			Recovery =	81.705%		
64) 2,4,6-Tribromophenol (S)	9.46	330	711566	239.30833	ppb	0.00
Spiked Amount 250.000			Recovery =	95.723%		
82) Terphenyl-D14 (S)	12.15	244	2479810	93.20038	ppb	0.01
Spiked Amount 125.000			Recovery =	74.560%		

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.47	58	10070	17.97049		85
3) n-Nitrosodimethylamine	1.69	42	78212	78.56858	ppb	91
4) Pyridine	1.71	79	147295	60.02759	ppb	97
7) Phenol	4.64	94	574141	57.28303	ppb	92
8) Aniline	4.63	93	395443	40.39011	ppb	# 78
9) Bis (2-chloroethyl) ether	4.72	63	217438	50.77314	ppb	83
10) 2-Chlorophenol	4.77	128	459369	56.97010	ppb	96
11) 1,3-DCB	4.93	146	461425	50.74898	ppb	98
12) 1,4-DCB	5.02	146	470628	51.61433	ppb	99
13) Benzyl alcohol	5.20	108	260867	58.56023	ppb	98
14) 1,2-DCB	5.20	146	453032	53.79802	ppb	99
15) 2-Methylphenol	5.34	107	355269	55.55756	ppb	97
16) Bis (2-chloroisopropyl) et	5.33	45	317751	47.31849	ppb	93
17) Acetophenone	5.50	105	541251	57.11850	ppb	95
18) 3&4-Methylphenol	5.51	107	842082	111.03521	ppb	94
19) n-Nitrosodi-n-propylamine	5.50	70	257919	56.80957	ppb	95
20) Hexachloroethane	5.57	117	128274	42.00683	ppb	100
23) Nitrobenzene	5.69	77	387466	51.95612	ppb	93
24) Isophorone	5.96	82	702786	53.37277	ppb	94
25) 2-Nitrophenol	6.05	139	280988	59.00809	ppb	94
26) 2,4-Dimethylphenol	6.12	122	391236	53.01685	ppb	100
27) Benzoic acid	6.31	105	233583	49.64667	ppb	99
28) Bis (2-chloroethoxy) metha	6.21	93	453330	52.41399	ppb	98
29) 2,4-Dichlorophenol	6.34	162	404743	57.51663	ppb	99
30) 1,2,4-Trichlorobenzene	6.41	180	390167	50.07216	ppb	99
31) 3,4-Dimethylphenol	6.46	107	503386	53.22867	ppb	98
32) Napthalene	6.50	128	1281374	53.99316	ppb	99
33) 4-Chloroaniline	6.58	127	291193	32.87516	ppb	97
34) 2,6-Dichlorophenol	6.58	162	373295	56.09697	ppb	96
35) Hexachloropropene	6.58	213	174510	39.80988	ppb	99
36) Hexachlorobutadiene	6.63	225	180338	42.14524	ppb	97
37) Caprolactum	7.03	55	127598	46.59857	ppb	# 84

(#) = qualifier out of range (m) = manual integration

Data File : M:\YODA\DATA\Y190722\0722Y132.D
 Acq On : 29 Jul 19 16:51
 Sample : AZ95189W31 MSD-1 1/800
 Misc :

Vial: 32
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Jul 30 7:44 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.18	107	393498	57.63363	ppb	90
39) 2-Methylnaphthalene	7.31	142	845885	53.10105	ppb	100
40) 1-Methylnaphthalene	7.42	142	856402	52.06826	ppb	98
42) Hexachlorocyclopentadiene	7.47	237	13670	24.99234	ppb	98
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	410586	47.86343	ppb	97
44) 2,4,6-Trichlorophenol	7.65	196	296564	55.55030	ppb	99
45) 2,4,5-Trichlorophenol	7.71	196	292953	51.70876	ppb	100
47) 1,1'-Biphenyl	7.84	154	1087096	46.89557	ppb	98
48) 2-Chloronaphthalene	7.87	162	872452	48.86358	ppb	99
49) 2-Nitroaniline	8.02	65	204944	47.98674	ppb	95
50) Dimethyl phthalate	8.22	163	1176151	56.55648	ppb	100
51) 2,6-DNT	8.31	165	267188	53.76437	ppb	97
52) Acenaphthylene	8.35	152	1379549	49.48634	ppb	100
53) 3-Nitroaniline	8.51	138	230875	44.71499	ppb	# 86
54) Acenaphthene	8.56	154	850240	48.17166	ppb	99
55) 2,4-Dinitrophenol	8.66	184	120397	52.62268	ppb	96
56) 4-Nitrophenol	8.76	65	119452	54.28194	ppb	93
57) Dibenzofuran	8.76	168	1299819	50.53569	ppb	99
58) 2,4-DNT	8.79	165	359342	54.20338	ppb	# 81
59) 2,3,4,6-Tetrachlorophenol	8.92	232	253905	57.70348	ppb	99
60) Diethyl phthalate	9.04	149	1012246	51.70812	ppb	100
61) 4-Chlorophenyl phenyl ethe	9.16	204	526073	50.87719	ppb	98
62) Fluorene	9.16	166	993188	49.74933	ppb	100
63) 4-Nitroaniline	9.25	138	252763	50.96684	ppb	# 88
66) 4,6-Dinitro-2-methylphenol	9.27	198	231844	55.78309	ppb	97
67) Diphenyl amine	9.32	169	1507914	92.71105	ppb	100
68) n-Nitrosodiphenylamine	9.32	169	1507914	92.71105	ppb	100
69) 1,2-Diphenylhydrazine	9.35	77	891091	48.46921	ppb	97
70) 4-Bromophenyl phenyl ether	9.74	248	350530	53.93159	ppb	99
71) Hexachlorobenzene	9.81	284	371721	55.04652	ppb	# 81
72) Atrazine	9.95	200	151783	25.10613	ppb	100
73) Pentachlorophenol	10.06	266	164140	75.11190	ppb	100
74) Phenanthrene	10.30	178	1525844	48.92177	ppb	100
75) Anthracene	10.36	178	1587406	49.54541	ppb	100
76) Carbazol	10.56	167	1461397	49.08599	ppb	99
77) Di-n-butylphthalate	10.95	149	1710467	51.21080	ppb	100
78) Fluoranthene	11.70	202	1726557	50.54928	ppb	99
80) Benzidine	11.89	184	106139	11.16343	ppb	99
81) Pyrene	11.97	202	1758970	46.91866	ppb	100
83) Butyl benzylphthalate	12.72	149	775683	49.58315	ppb	99
84) 3,3'-Dichlorobenzidine	13.35	252	401529	37.08004	ppb	98
85) Benz (a) anthracene	13.38	228	1619467	46.88410	ppb	99
86) Bis (2-ethylhexyl) phthala	13.38	149	956007	49.41518	ppb	98
87) Chrysene	13.42	228	1658486	48.66544	ppb	99
88) Di-n-octylphthalate	14.11	149	1839267	51.54671	ppb	100
90) Benzo (b) fluoranthene	14.63	252	1757296	47.67822	ppb	99
91) Benzo (k) fluoranthene	14.67	252	1760153	48.19218	ppb	98
92) Benzo (a) pyrene	15.07	252	1662453	48.14594	ppb	98
93) Indeno (1,2,3-cd) pyrene	16.90	276	1869167	47.23581	ppb	96
94) Dibenz (a,h) anthracene	16.90	278	1736182	50.99335	ppb	100
95) Benzo (g,h,i) perylene	17.42	276	1668756	53.44354	ppb	96

(#) = qualifier out of range (m) = manual integration

0722Y132.D Y0722NC.M

Fri Aug 23 16:05:12 2019

Quantitation Report

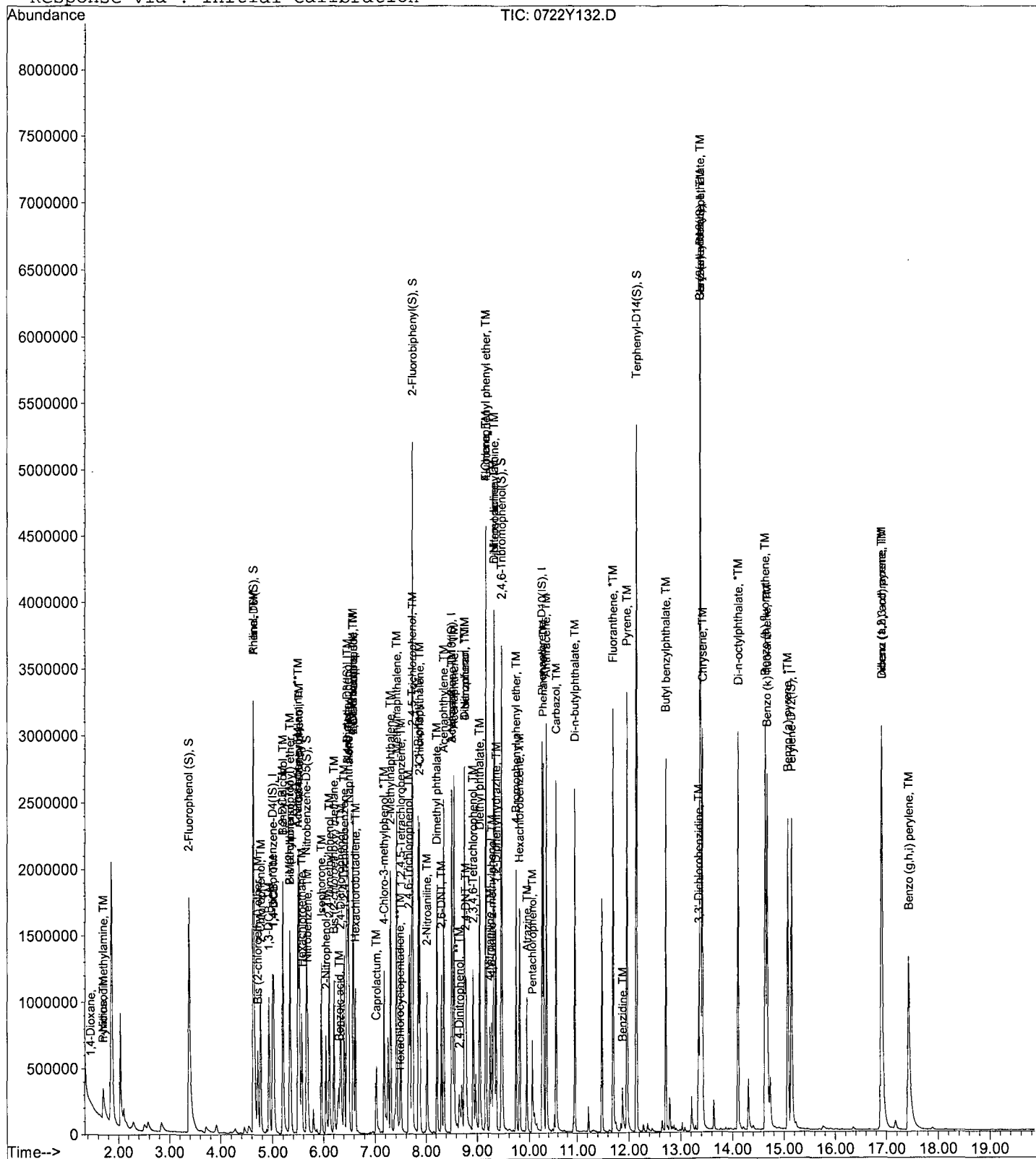
Data File : M:\YODA\DATA\Y190722\0722Y132.D
Acq On : 29 Jul 19 16:51
Sample : AZ95189W31 MSD-1 1/800
Misc :

Vial: 32
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 30 7:44 2019

Quant Results File: Y0722NC.RES

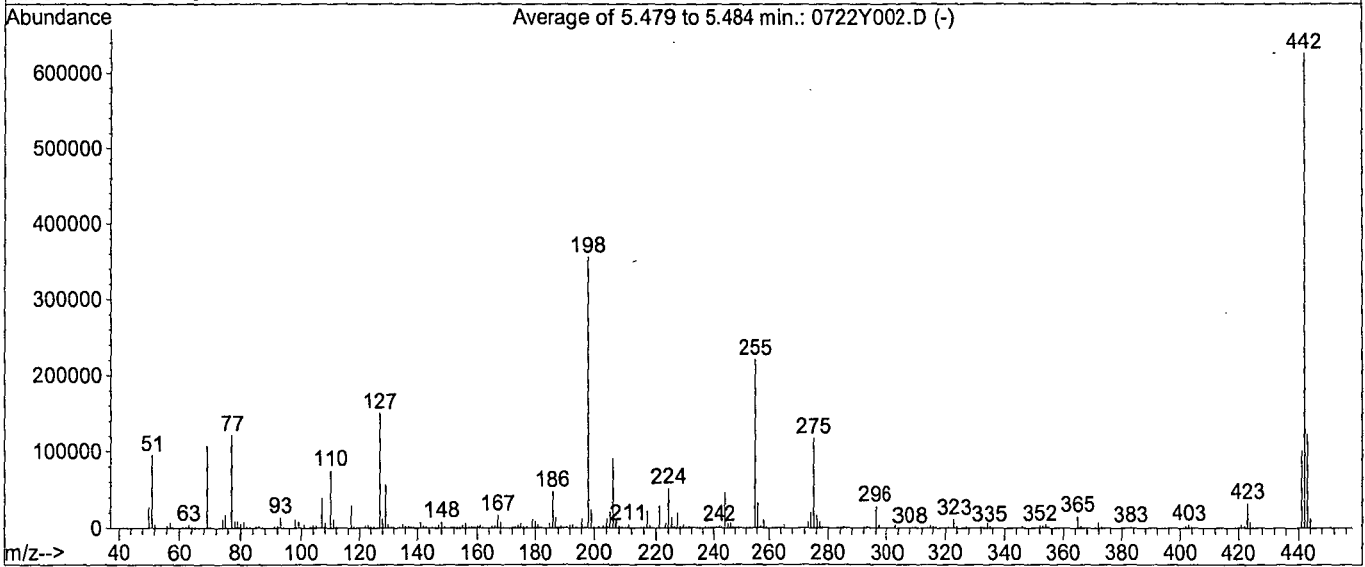
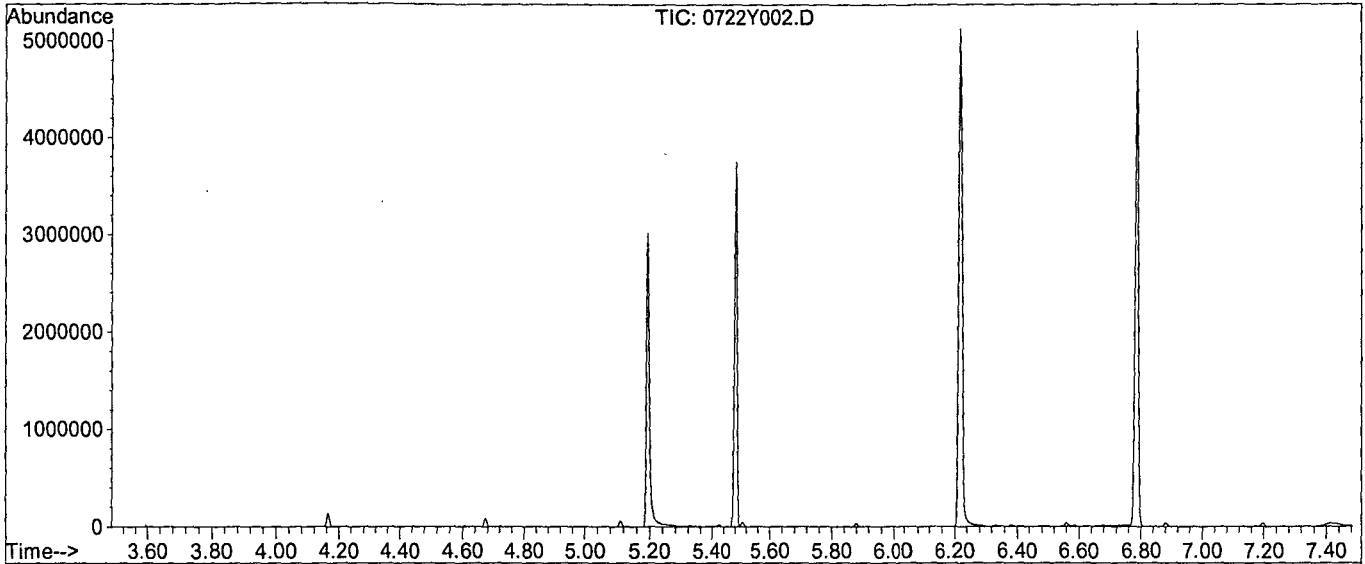
Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y002.D
 Acq On : 22 Jul 19 13:46
 Sample : SV TUNE 07/11/19
 Misc :

Vial: 2
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C



Spectrum Information: Average of 5.479 to 5.484 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	26.6	94405	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.5	531	PASS
127	198	10	80	42.2	149845	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	355456	PASS
199	198	5	9	6.7	23792	PASS
275	198	10	60	32.8	116749	PASS
365	198	1	100	4.2	14956	PASS
441	442	0.01	24	16.1	100755	PASS
442	198	50	500	176.3	626581	PASS
443	442	15	24	19.5	122216	PASS

Data File Name: 0722Y002.D
Data File Path: M:\YODA\DATA\Y190722\
Operator: MA,SS
Date Acquired: 22 Jul 2019 13:46
Method File: DFTPP2.M
Sample Name: SV TUNE 07/11/19
Vial Number: 2
Instrument Name: Yoda

#	Name	Ret Time	Target Response
1)	DDT	6.87	36257100
2)	DDD	6.46	129952
3)	DDE	6.66	0

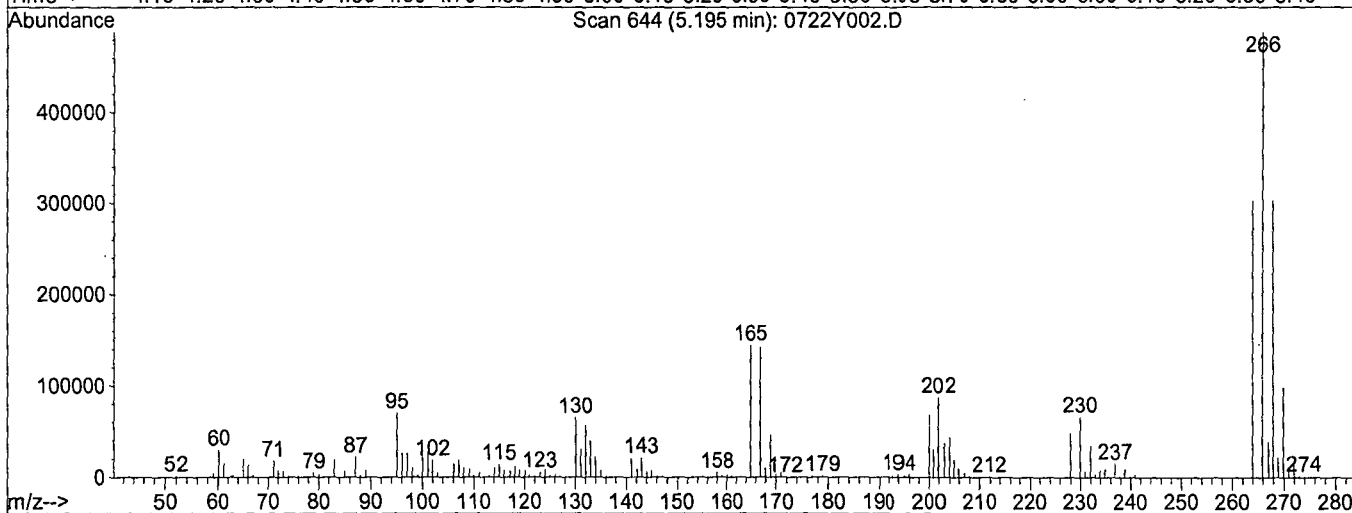
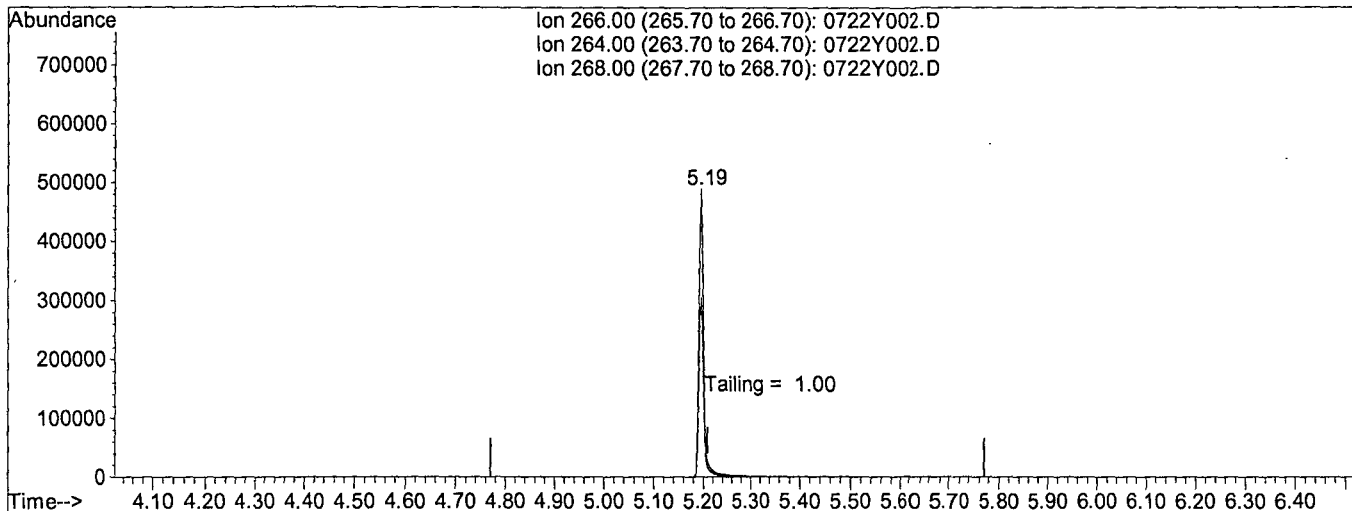
Breakdown 0.36

Quantitation Report

Data File : M:\YODA\DATA\Y190722\0722Y002.D
 Acq On : 22 Jul 19 13:46
 Sample : SV TUNE 07/11/19
 Misc :
 Quant Time: Jul 22 13:41 2019

Vial: 2
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190722\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Tue Jul 16 08:38:31 2019
 Response via : Single Level Calibration



TIC: 0722Y002.D

(5) Pentachlorophenol

5.20min 0.0000

response 3128882

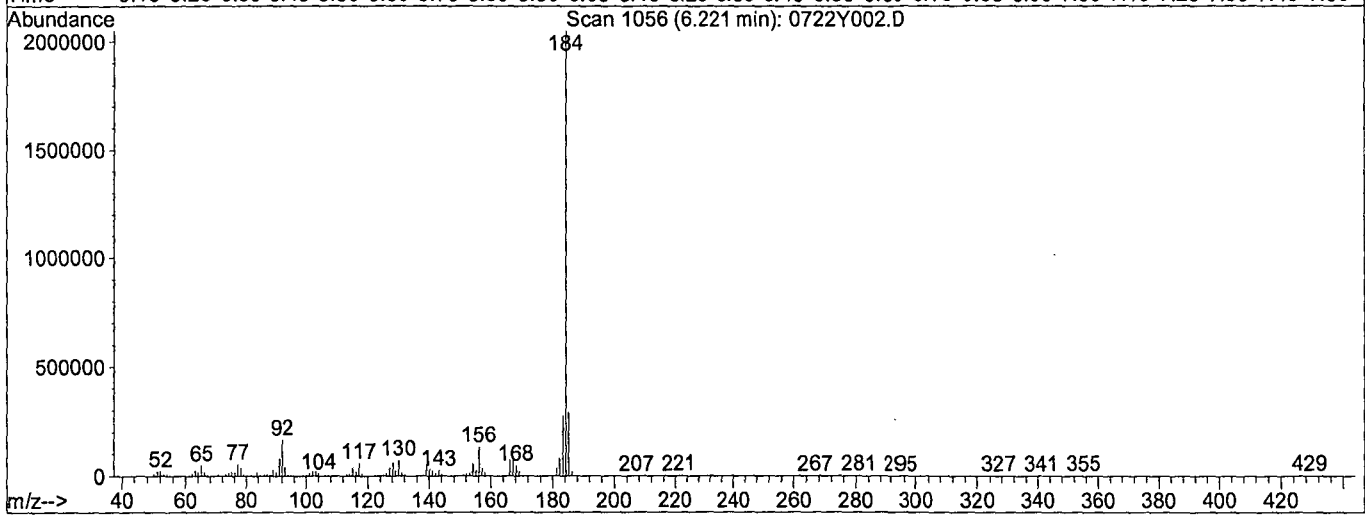
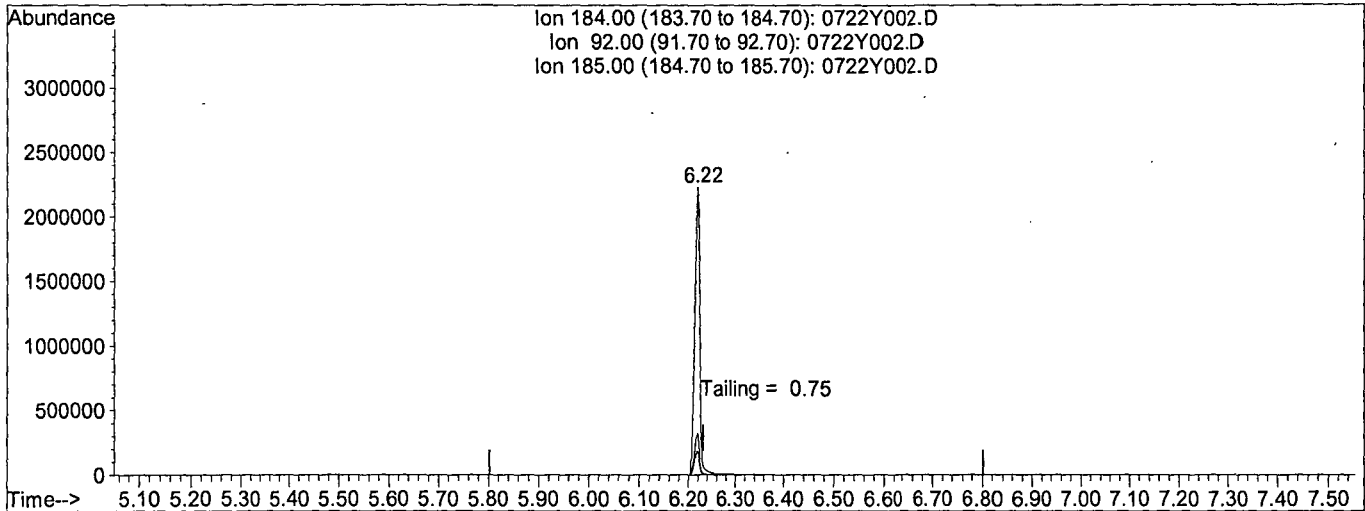
Ion	Exp%	Act%
266.00	100	100
264.00	63.30	61.86
268.00	65.70	62.20
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190722\0722Y002.D
 Acq On : 22 Jul 19 13:46
 Sample : SV TUNE 07/11/19
 Misc :
 Quant Time: Jul 22 13:41 2019

Vial: 2
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190722\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Tue Jul 16 08:38:31 2019
 Response via : Single Level Calibration



TIC: 0722Y002.D

(6) Benzidine

6.22min 0.0000

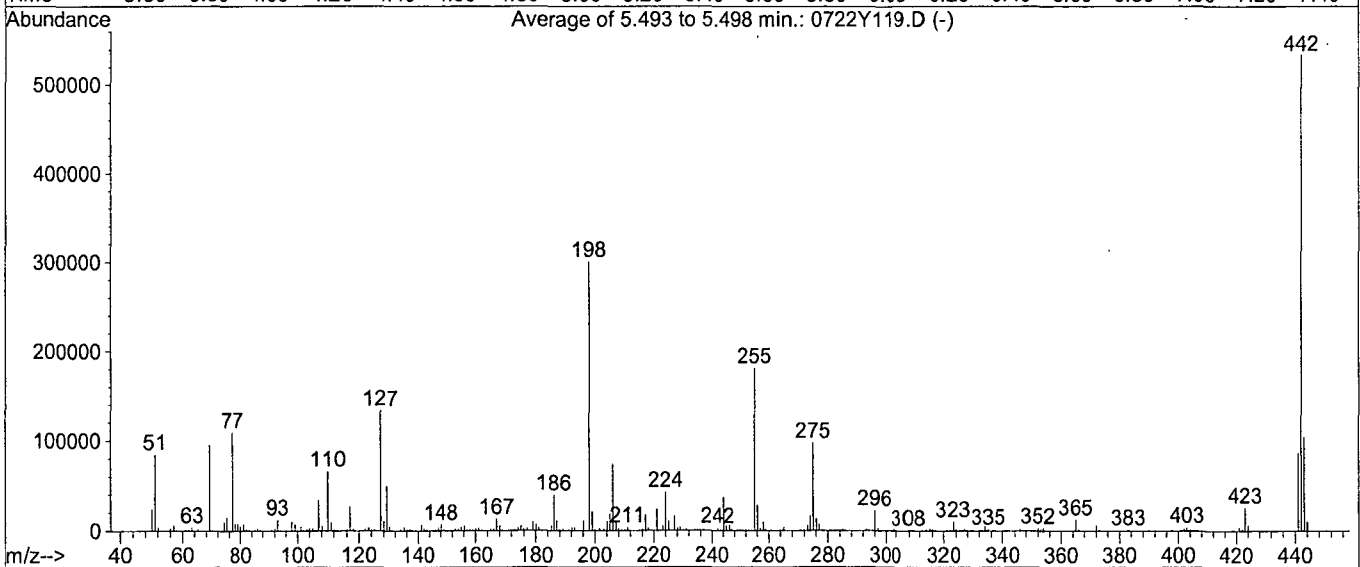
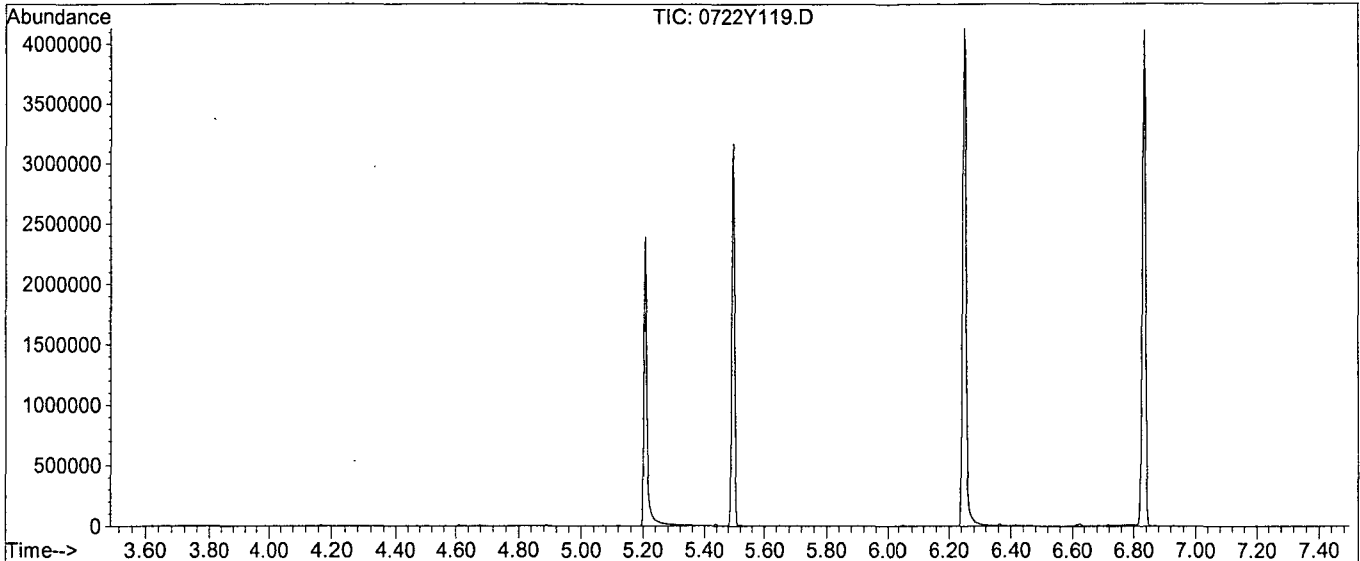
response 16652803

Ion	Exp%	Act%
184.00	100	100
92.00	7.90	8.30
185.00	14.30	14.23
0.00	0.00	0.00

Data File : M:\YODA\DATA\Y190722\0722Y119.D
 Acq On : 29 Jul 19 9:07
 Sample : SV TUNE 7/11/19
 Misc :

Vial: 19
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C



Spectrum Information: Average of 5.493 to 5.498 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	28.1	84492	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.5	452	PASS
127	198	10	80	44.5	133675	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	300501	PASS
199	198	5	9	6.9	20781	PASS
275	198	10	60	32.4	97267	PASS
365	198	1	100	4.2	12550	PASS
441	442	0.01	24	16.3	86808	PASS
442	198	50	500	177.6	533739	PASS
443	442	15	24	19.6	104669	PASS

M:\YODA\DATA\Y190722\0722Y119.D

Data File Name: 0722Y119.D
Data File Path: M:\YODA\DATA\Y190722\
Operator: MA,SS
Date Acquired: 29 Jul 2019 09:07
Method File: DFTPP2.M
Sample Name: SV TUNE 7/11/19
Vial Number: 19
Instrument Name: Yoda

#	Name	Ret Time	Target Response
1)	DDT	6.84	30611700
2)	DDD	6.63	218403
3)	DDE	6.77	0

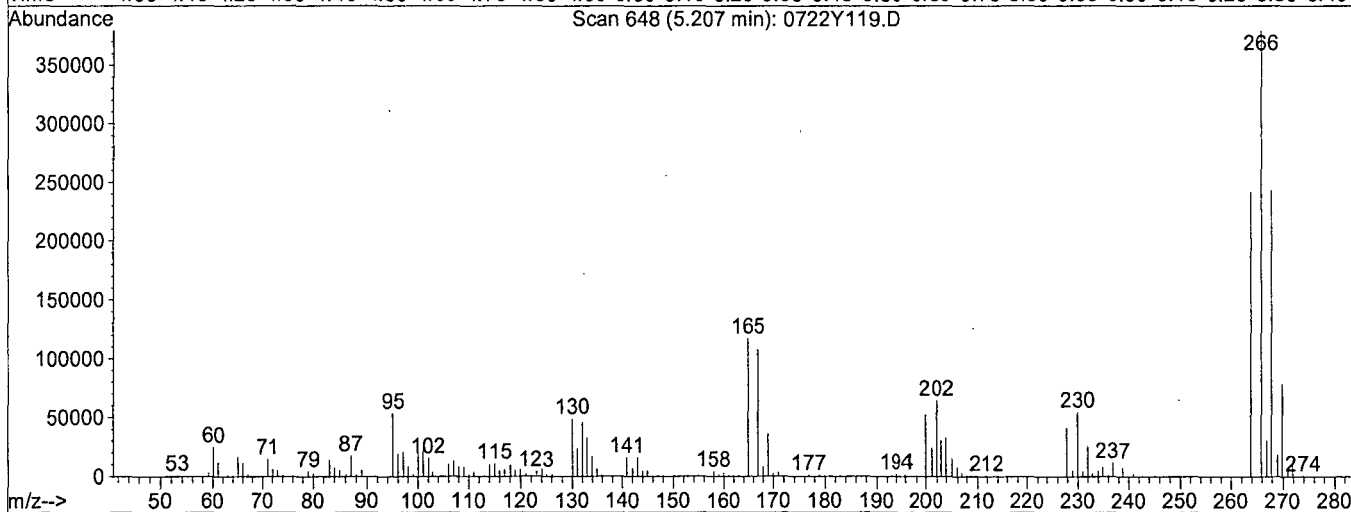
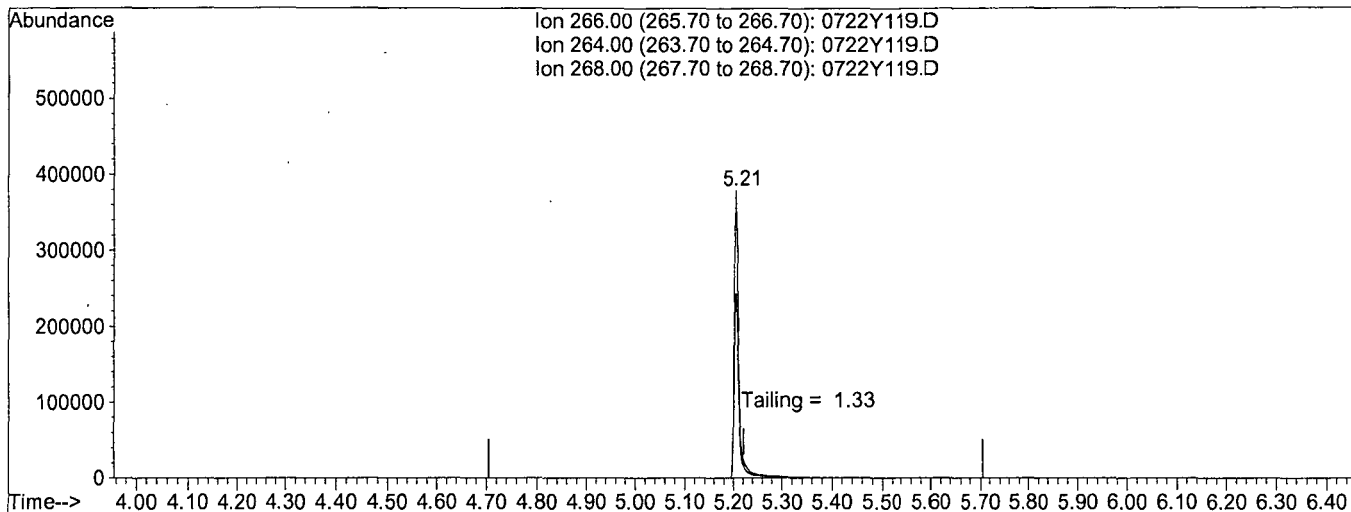
Breakdown 0.71

Quantitation Report

Data File : M:\YODA\DATA\Y190722\0722Y119.D
 Acq On : 29 Jul 19 9:07
 Sample : SV TUNE 7/11/19
 Misc :
 Quant Time: Jul 29 9:04 2019

Vial: 19
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190722\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Tue Jul 23 10:22:22 2019
 Response via : Single Level Calibration



TIC: 0722Y119.D

(5) Pentachlorophenol

5.21min 0.0000

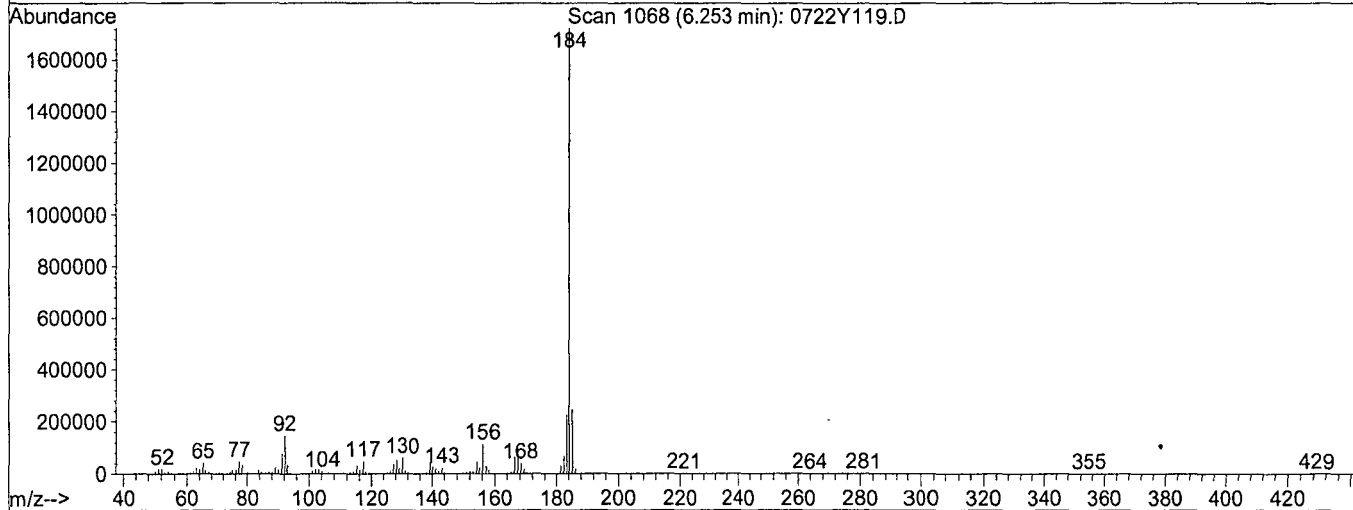
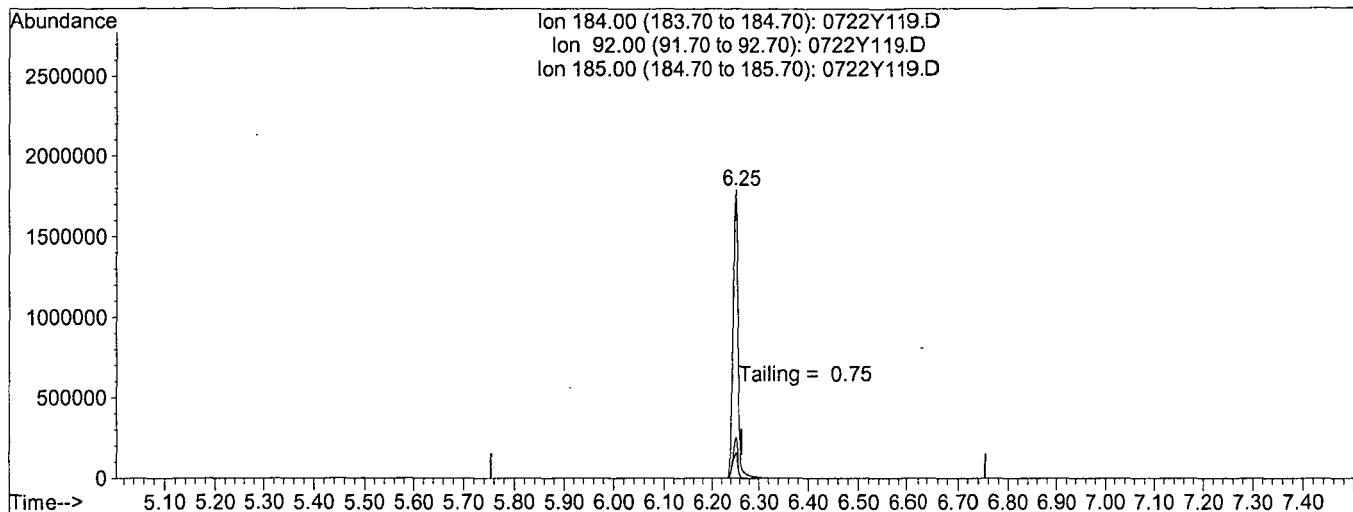
response 2535809

Ion	Exp%	Act%
266.00	100	100
264.00	66.20	61.24
268.00	69.40	63.48
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190722\0722Y119.D Vial: 19
 Acq On : 29 Jul 19 9:07 Operator: MA,SS
 Sample : SV TUNE 7/11/19 Inst : Yoda
 Misc : Multiplr: 1.00
 Quant Time: Jul 29 9:04 2019 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190722\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Tue Jul 23 10:22:22 2019
 Response via : Single Level Calibration



TIC: 0722Y119.D

(6) Benzidine

6.25min 0.0000

response 14109616

Ion	Exp%	Act%
184.00	100	100
92.00	8.60	8.82
185.00	14.80	14.02
0.00	0.00	0.00

Name of Final Standard

8270 Full Scan Standard Curve

Prep'd By
(Initials)

GA

Prep Date

07/12/19

Exp Date

10/20/19

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	4 uL	200uL	MC 56258 192uL	4 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	4 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	4 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	5 uL	200uL	MC 56258 190uL	5 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	5 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	4 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	5 uL	100uL	MC 56258 90uL	10 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	5 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	10 uL	100uL	MC 56258 80uL	20 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	10 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	20 uL	100uL	MC 56258 60uL	40 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	20 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	50 uL	200 uL	MC 56258 100uL	50 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	50 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	4 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	30 uL	100uL	MC 56258 40uL	60 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	30 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	40 uL	100uL	MC 56258 20uL	80 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	40 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	50 uL	100uL	na	100 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	50 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	2 uL	*	*	*

Name of Final Standard **8270 Full Scan Spike** Prep'd By (Initials) **GA**
 Prep Date **03/05/19**
 Exp Date **10/20/19**

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
10001	Absolute	10001	2000	051018-39827 051018-39828	03/05/20	2.0 mL	20 mL	NA	200 ug/mL
10002	Absolute	10002	2000	051018-39832 051018-39833	03/05/20	2.0 mL	*	*	200 ug/mL
10004	Absolute	10004	2000	031618-39836 031618-39839	01/30/20	2.0 mL	*	*	200 ug/mL
10005	Absolute	10005	2000	032018-40011 032018-40012	01/30/20	2.0 mL	*	*	200 ug/mL
10006	Absolute	10006	2000	071318-39842 071318-39843	01/30/20	2.0 mL	*	*	200 ug/mL
10007	Absolute	10007	2000	080116-40016 080116-40017	01/30/20	2.0 mL	*	*	200 ug/mL
10018	Absolute	10018	2000	062718-39847 062718-39848	01/30/20	2.0 mL	*	*	200 ug/mL
70023	Absolute	70023	1000	091217-39852 091217-39853	01/30/20	2.0 mL	*	*	100 ug/mL
82705	Absolute	82705	2000	081418-40020 081418-40021	01/30/20	2.0 mL	*	*	200 ug/mL
94552	Absolute	94552	various	102017-40026 102017-40027	10/20/19	2.0 mL	*	*	various

Name of Final Standard **8270 SS STOCK** Prep'd By (Initials) **GA**
 Prep Date **03/05/19**
 Exp Date **01/08/20**

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
10001	Absolute	10001	2000	031618-39202	03/05/20	1.0 mL	10 mL	NA	200 ug/mL
10002	Absolute	10002	2000	G34-020217-38182	02/02/20	1.0 mL	*	*	200 ug/mL
10004	Absolute	10004	2000	010815-38625	01/08/20	1.0 mL	*	*	200 ug/mL
10005	Absolute	10005	2000	041317-37804	03/05/20	1.0 mL	*	*	200 ug/mL
10006	Absolute	10006	2000	011718-38827	03/05/20	1.0 mL	*	*	200 ug/mL
10007	Absolute	10007	2000	020515-38627	02/05/20	1.0 mL	*	*	200 ug/mL
10018	Absolute	10018	2000	G34-030216-38195	03/05/20	1.0 mL	*	*	200 ug/mL
70023	Absolute	70023	1000	013118-38830	03/05/20	1.0 mL	*	*	100 ug/mL
82705	Absolute	82705	2000	090617-38832	03/05/20	1.0 mL	*	*	200 ug/mL
94552	Absolute	94552	various	013118-40453	01/31/20	1.0 mL	*	*	various

Final 8270 Surrogate 200/400 ppm
 Prep Date 07/10/19
 Exp Date 06/24/20

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Initial Standard	Supplier	P/N# (or APPL Mix)	Conc.(range)	QA # (or reference)	Exp Date	Aliquot from Stock	Final Volume	Solvent + Lot# (or)	Standard Conc.
Surrogate	Restek	33029	ug/mL	39902	06/24/20	200 uL	5 mL	4,600 uL	400 ug/mL
Surrogate	Restek	31086	ug/mL	40114	06/24/20	200 uL	*	*	200 ug/mL

Final 8270 Internal Standard
 Prep Date 05/17/19
 Exp Date 05/17/20

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Initial Standard	Supplier	P/N# (or APPL Mix)	Conc.(range)	QA # (or reference)	Exp Date	Aliquot from Stock	Final Volume	Solvent + Lot# (or)	Standard Conc.
e Internal	Restek	31206	2000ug/mL	39543	11/30/24	2 mL	2 mL	NA	2000ug/mL

Name of Final Standard 8270 Full Scan Second Source
 Prep Date 07/12/19
 Exp Date 01/08/20

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc. (range)
8270 SS Stock	o2si	8270 SS Stock	200 ug/mL	03/05/19	01/08/20	50 uL	200uL	MC 56258 150uL	50 ug/mL
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	4 uL	*	*	*

Name of Final Standard Semivolatle (SV) Tuning Solution
 Prep Date 07/11/19
 Exp Date 09/30/19

Prep'd By (Initials) JP

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Semivolatle GC/MS Tuning Standard	Ultra Scientific	GCM-150-1	1,000 ug/mL	CR3789-38879	09/30/19	1,250 uL	25 mL	MC #58240	50 ug/mL

Name of Final Standard 8270 Spike
 Prep Date 06/14/19
 Exp Date 06/14/20
 Methanol Lot# 208858

Prep'd By (Initials) JP

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent (or APPL Prep Date)	Final Standard Conc (range)
8270 Stock spike	APPL	8270 STD	200:100 ug/mL	06/14/19	06/14/20	6.25 mL	25 mL	Methanol 208858	50:25 ug/mL

Name of Final Standard 8270 Spike
 Prep Date 05/29/19
 Exp Date 05/16/20
 Methanol Lot# 208858

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent (or APPL Prep Date)	Final Standard Conc (range)
8270 Stock spike	APPL	8270 STD	200:100 ug/mL	05/16/19	5/16/20	12.5 mL	50 mL	Methanol 208858	50:25 ug/mL

Organic Extraction Worksheet

Method	Continuous Liquid/Liquid SVOC 3520C	Extraction Set	190725A	Extraction Method	LIQ003	Units	mL
Spiked ID 1	8270T Spike 6/19/19-12/19/19	Surrogate ID 1	8270	Surrogate 6/24/19-4/10/20			
Spiked ID 2	Sim Spike 7/8/19-7/8/20	Surrogate ID 2	SIM	Surrogate 7/1/19-1/24/20			
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:		yes			
Spiked ID 7		Ext. Start Time:		07/25/19 12:30			
Spiked ID 8		Ext. End Time:		07/29/19 10:50			
		GC Requires Extract By:		07/30/19 0:00			
pH1	2	07/25/19 15:00	Water Bath Temp 1 °C	75/74.2	EWB5	°	
pH2	14	07/26/19 9:25	Water Bath Temp 2 °C	75/74.9	EWB6		
pH3			Water Bath Temp 3 °C				

Spiked By: DL

Date 07/25/19

Witnessed By: CFM

Date 07/25/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1 190725A Blk				1,0.050	1,2	800	1	2/1	07/25/19 12:30	
					equip	e-hp51 e-wb5				
2 190725A LCS-1		1	1	1	1	800	1	2/1	07/25/19 12:30	
					equip	E-HP50 E-WB5				
3 190725A LCS-2		0.125	2	0.050	2	800	1	2/1	07/25/19 12:30	
					equip	E-HP48 E-WB5				
4 190725A LCSD-1		1	1	1	1	800	1	2/1	07/25/19 12:30	
					equip	E-HP49 E-WB5				
5 190725A LCSD-2		0.125	2	0.050	2	800	1	2/1	07/25/19 12:30	
					equip	E-HP47 E-WB5				
6 AZ95187	AZ95187W14			1,0.050	1,2	800	1	2/1	07/25/19 12:30	89570
					equip	E-HP25 E-WB5				
7 AZ95189 MS-1	AZ95189W24	1	1	1	1	800	1	2/1	07/25/19 12:30	
					equip	E-HP26 E-WB5				
8 AZ95189 MSD-1	AZ95189W31	1	1	1	1	800	1	2/1	07/25/19 12:30	
					equip	E-HP27 E-WB6				
9 AZ95189 MS-2	AZ95189W27	0.125	2	0.050	2	800	1	2/1	07/25/19 12:30	
					equip	E-HP28 E-WB6				
10 AZ95189 MSD-2	AZ95189W30	0.125	2	0.050	2	800	1	2/1	07/25/19 12:30	
					equip	E-HP29 E-WB6				
11 AZ95189	AZ95189W26			1,0.050	1,2	800	1	2/1	07/25/19 12:30	89570
					equip	E-HP30 E-WB5				
12 AZ95190	AZ95190W07			1,0.050	1,2	800	1	2/1	07/25/19 12:30	89570
					equip	E-HP17 E-WB6				
13 AZ95329	AZ95329W16			1,0.050	1,2	800	1	2/1	07/25/19 14:35	89593
					equip	E-HP16 E-WB6				
14 AZ95330	AZ95330W16			1,0.050	1,2	800	1	2/1	07/25/19 14:35	89593
					equip	E-HP15 E-WB6				
15 AZ95332	AZ95332W16			1,0.050	1,2	800	1	2/1	07/25/19 14:35	89593
					equip	E-HP14 E-WB6				
16 AZ95334	AZ95334W16			1,0.050	1,2	800	1	2/1	07/25/19 14:35	89593
					equip	E-HP13 E-WB6				

Solvent and Lot#	
PH Strips	HC863463
Dichloromethane (DCM)	58240
1+1 H2SO4	7/2/19
10N NaOH	7/16/19
Filter Paper	400163
Acidified Na2SO4	2/28/19
B. Na2SO4	2019010772

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	JP
Date	7/29/19
Time	11:40
Refrigerator	6C-C

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	07/29/19 5:43:13 PM

Reviewed By: S Page 344 of Date 7/29/19

Organic Extraction Worksheet

Method	Continuous Liquid/Liquid SVOC 3520C	Extraction Set	190725A	Extraction Method	LIQ003	Units	mL
Spiked ID 1	8270T Spike 6/19/19-12/19/19	Surrogate ID 1	8270 Surrogate 6/24/19-4/10/20				
Spiked ID 2	Sim Spike 7/8/19-7/8/20	Surrogate ID 2	SIM Surrogate 7/1/19-1/24/20				
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:	yes				
Spiked ID 7		Ext. Start Time:	07/25/19 12:30				
Spiked ID 8		Ext. End Time:	07/29/19 10:50				
		GC Requires Extract By:	07/30/19 0:00				
pH1	2	07/25/19 15:00	Water Bath Temp 1 °C	75/74.2 EWB5 °			
pH2	14	07/26/19 9:25	Water Bath Temp 2 °C	75/74.9 EWB6			
pH3			Water Bath Temp 3 °C				

Spiked By: DL

Date 07/25/19

Witnessed By: CFM

Date 07/25/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
17 AZ95336	AZ95336W16			1,0.050	1,2	800	1	2/1	07/25/19 14:35	89593
						equip	E-HP12E-WB6			
18 AZ95338	AZ95338W16			1,0.050	1,2	800	1	2/1	07/25/19 14:35	89593
						equip	E-HP11e-wb6			

SS 7/29/19

Solvent and Lot#	
PH Strips	HC863463
Dichloromethane (DCM)	58240
1+1 H2SO4	7/2/19
10N NaOH	7/16/19
Filter Paper	400163
Acidified Na2SO4	2/28/19
B. Na2SO4	2019010772

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	
Date	
Time	
Refrigerator	

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	07/29/19 5:43:13 PM

Reviewed By: Page 345 of 717

Injection Log

Directory: M:\YODA\DATA\Y190722\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	2	0722Y002.D	1	SV TUNE 07/11/19		22 Jul 19 13:46
2	3	0722Y003.D	1	4ug/ml 8270 07/12/19		22 Jul 19 14:01
3	4	0722Y004.D	1	5ug/ml 8270 07/12/19		22 Jul 19 14:29
4	5	0722Y005.D	1	10ug/ml 8270 07/12/19		22 Jul 19 14:57
5	6	0722Y006.D	1	20ug/ml 8270 07/12/19		22 Jul 19 15:25
6	7	0722Y007.D	1	40ug/ml 8270 07/12/19		22 Jul 19 15:53
7	8	0722Y008.D	1	50ug/ml 8270 07/12/19		22 Jul 19 16:21
8	9	0722Y009.D	1	60ug/ml 8270 07/12/19		22 Jul 19 16:49
9	10	0722Y010.D	1	80ug/ml 8270 07/12/19		22 Jul 19 17:17
10	11	0722Y011.D	1	100ug/ml 8270 07/12/19		22 Jul 19 17:45
11	12	0722Y012.D	1	SS 8270 07/12/19		22 Jul 19 18:13
12	19	0722Y119.D	1	SV TUNE 7/11/19		29 Jul 19 9:07
13	21	0722Y121.D	1	50ug/ml 8270 07/12/19		29 Jul 19 10:45
14	27	0722Y127.D	1.25	190725A BLK 1/800		29 Jul 19 14:31
15	28	0722Y128.D	1.25	190725A LCS-1 1/800		29 Jul 19 15:00
16	29	0722Y129.D	1.25	190725A LCSD-1 1/800		29 Jul 19 15:27
17	30	0722Y130.D	1.25	AZ95187W14 1/800		29 Jul 19 15:55
18	31	0722Y131.D	1.25	AZ95189W24 MS-1 1/800		29 Jul 19 16:23
19	32	0722Y132.D	1.25	AZ95189W31 MSD-1 1/800		29 Jul 19 16:51
20	33	0722Y133.D	1.25	AZ95189W26 1/800		29 Jul 19 17:19
21	34	0722Y134.D	1.25	AZ95190W07 1/800		29 Jul 19 17:47
22	41	0722Y141.D	1	50ug/ml 8270 07/12/19 (3)		29 Jul 19 21:03

**ORGANICS
Calibration Data**

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/30/19
Instrument: Linus

Initials: _____

0730L004.D 0730L005.D 0730L006.D 0730L007.D 0730L003.D 0730L008.D 0730L009.D 0730L010.D

	Compound	1	2	3	4	5	6	7	8			Avg	%RSD	Type	r^2	Q	MRF
1	I 1,4-dichlorobenzene-D4(IS)																
2	TM 2-(2-Methoxyethoxy)ethanol	0.0513	0.0486	0.0503	0.0603	0.0658	0.0514	0.0494	0.0498			0.05	12	TM			
3	I Napthalene-D8(IS)																
4	I Acenaphthene-D10(IS)																
5	I Phenanthrene-D10(IS)																
6	I Chrysene-D12(IS)																
7	I Perylene-D12(IS)																
8																	
9																	
10																	
11																	
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14																	
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35																	

Data File : M:\LINUS\DATA\L190730M\0730L003.D Vial: 3
 Acq On : 30 Jul 19 11:54 Operator: MA
 Sample : 500ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 30 15:11 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.15	152	1252960m	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.06	136	4766611	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3290611	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	6280174	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	7882794	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	8242249	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.72	45	1031220	602.48523	ppb	100

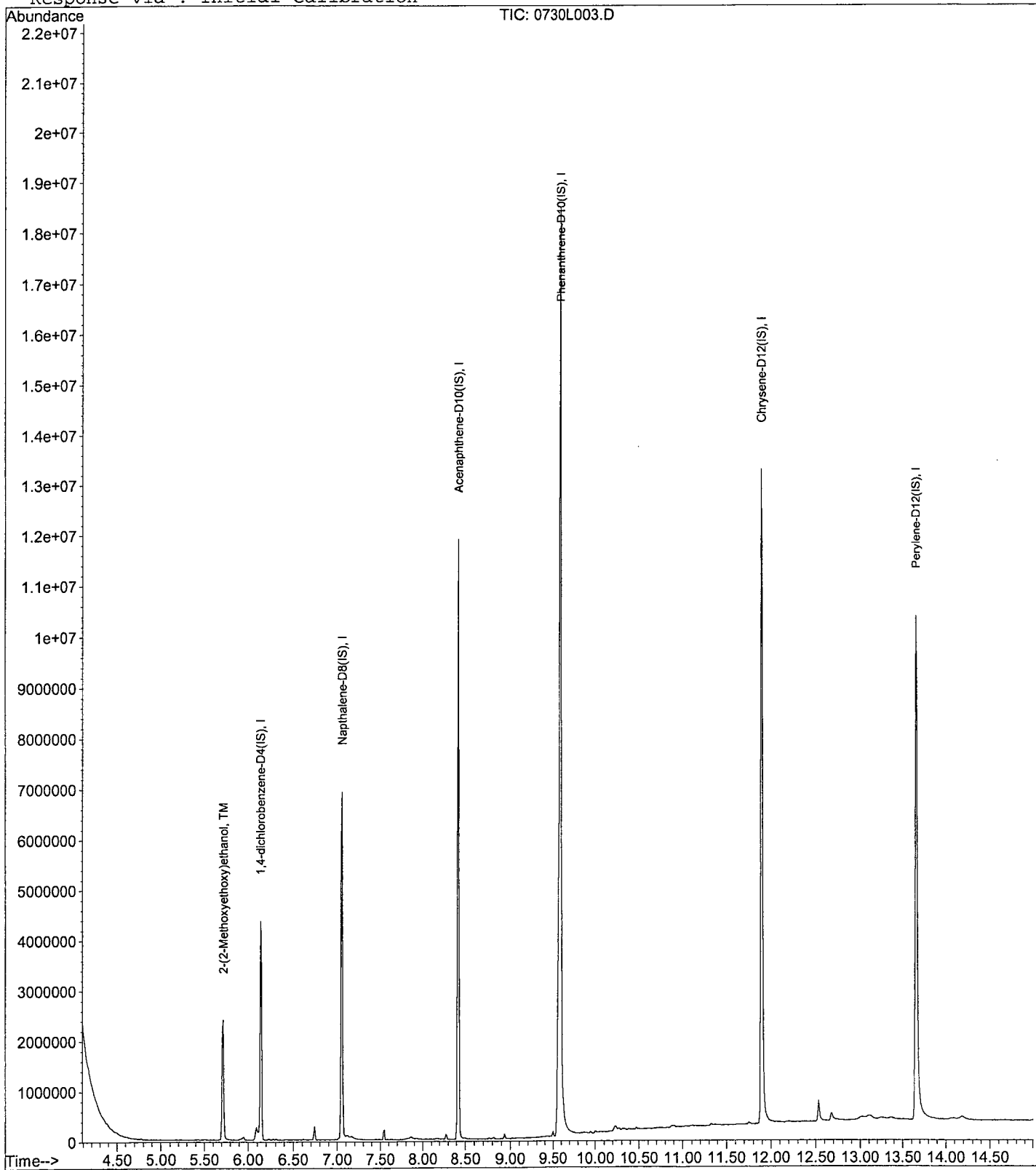
Data File : M:\LINUS\DATA\L190730M\0730L003.D
 Acq On : 30 Jul 19 11:54
 Sample : 500ug/ml MEE 04/30/19
 Misc :

Vial: 3
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Jul 30 15:11 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration

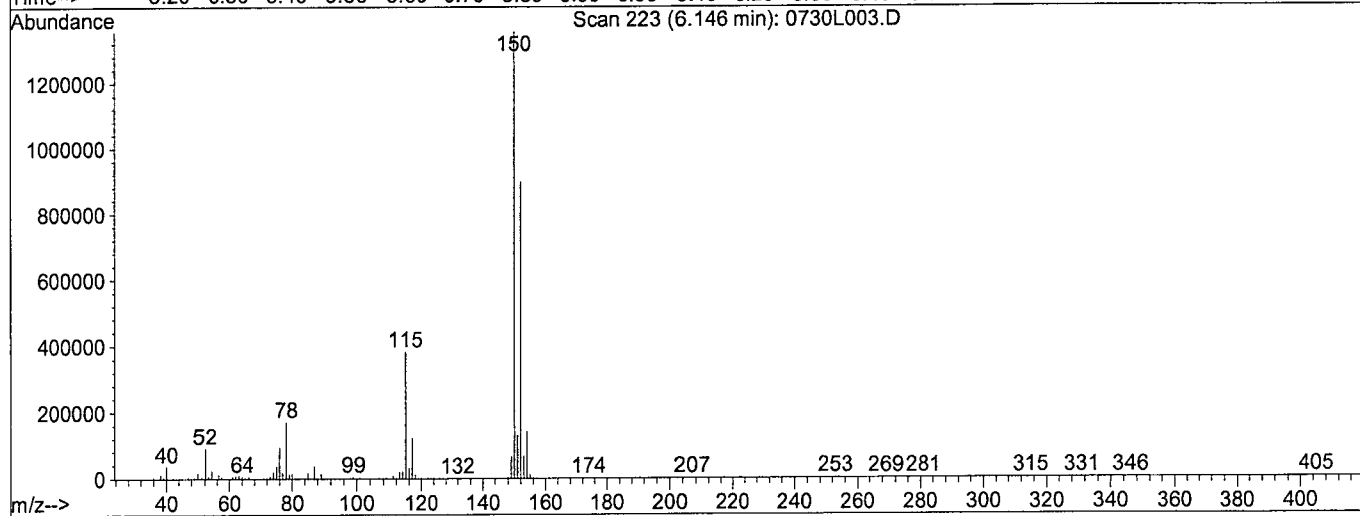
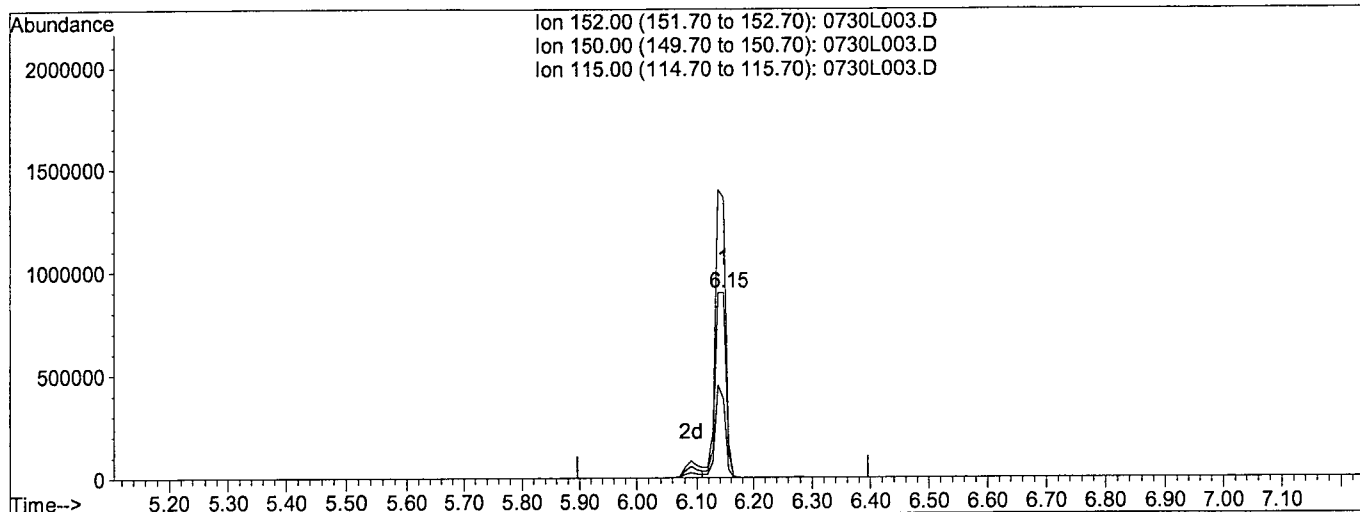


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L003.D
 Acq On : 30 Jul 19 11:54
 Sample : 500ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:11 2019

Vial: 3
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L003.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.15min 40.0000ppb

response 1162118

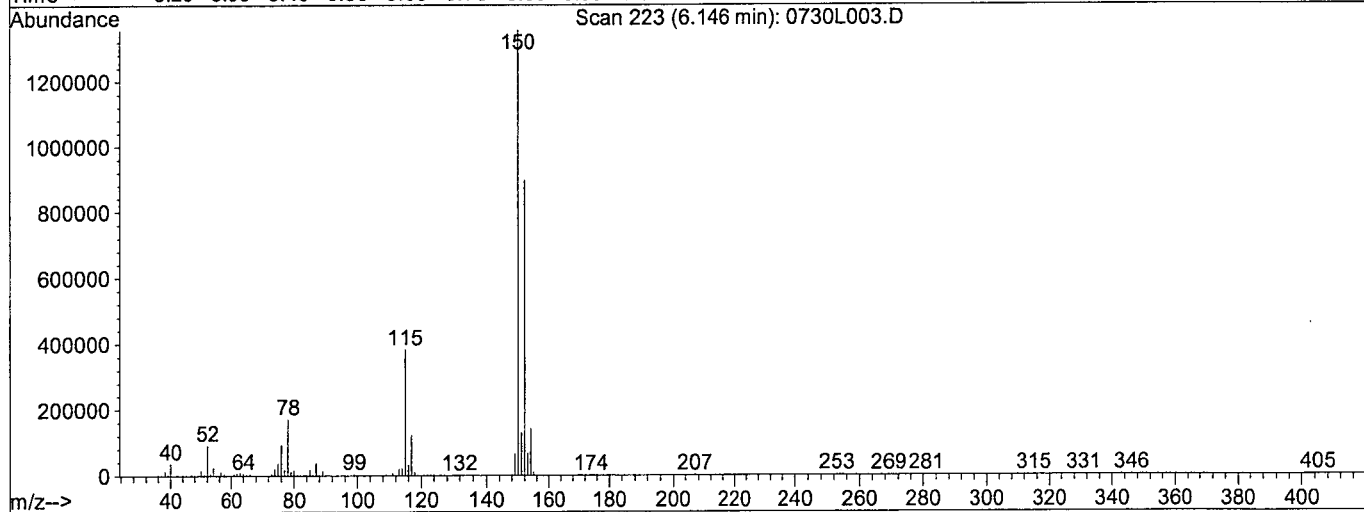
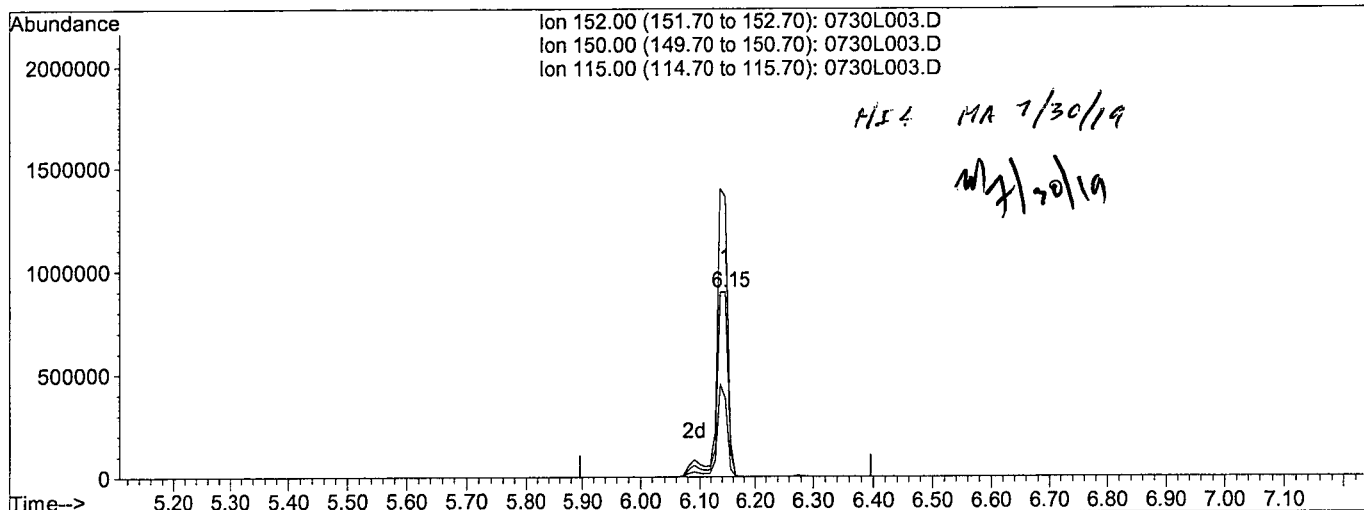
Ion	Exp%	Act%
152.00	100	100
150.00	151.30	151.29
115.00	42.60	42.59
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L003.D
 Acq On : 30 Jul 19 11:54
 Sample : 500ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:11 2019

Vial: 3
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L003.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.15min 40.0000ppb m

response 1252960

Ion	Exp%	Act%
152.00	100	100
150.00	151.30	151.32
115.00	42.60	42.57
0.00	0.00	0.00

Data File : M:\LINUS\DATA\L190730M\0730L004.D Vial: 4
 Acq On : 30 Jul 19 12:18 Operator: MA
 Sample : 50ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 30 15:11 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	6.10	152	1583836	40.00000	ppb	-0.05
3) Napthalene-D8(IS)	7.05	136	4068946	40.00000	ppb	0.00
4) Acenaphthene-D10(IS)	8.42	164	3257857	40.00000	ppb	0.00
5) Phenanthrene-D10(IS)	9.59	188	7336759	40.00000	ppb	0.00
6) Chrysene-D12(IS)	11.89	240	7870725	40.00000	ppb	0.00
7) Perylene-D12(IS)	13.66	264	9316764	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.67	45	101552	46.93648	ppb	98

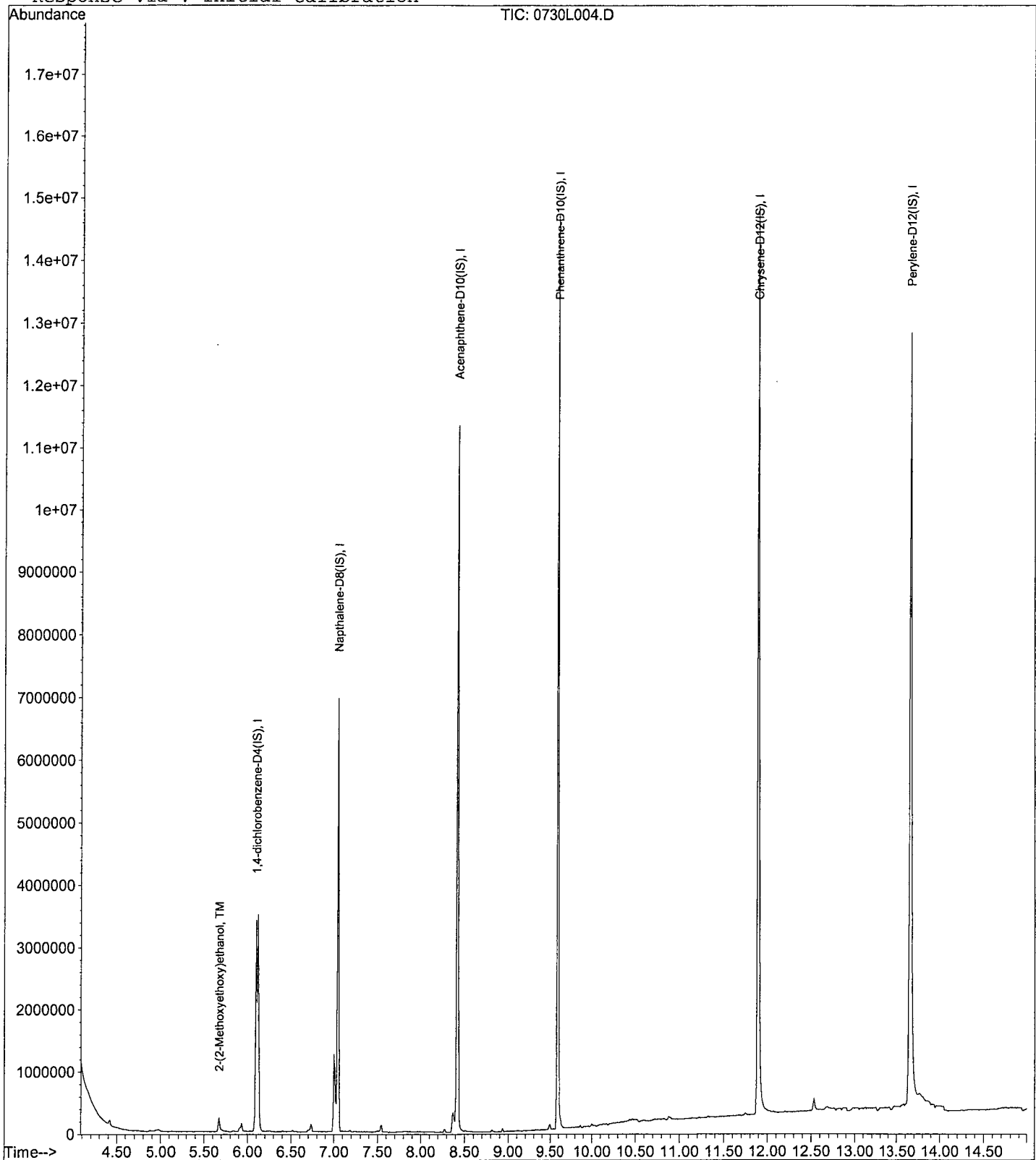
Data File : M:\LINUS\DATA\L190730M\0730L004.D
Acq On : 30 Jul 19 12:18
Sample : 50ug/ml MEE 04/30/19
Misc :

Vial: 4
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:11 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L005.D Vial: 5
 Acq On : 30 Jul 19 13:17 Operator: MA
 Sample : 100ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 30 15:11 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	6.10	152	1470082	40.00000	ppb	-0.05
3) Napthalene-D8(IS)	7.05	136	4360086	40.00000	ppb	0.00
4) Acenaphthene-D10(IS)	8.42	164	3657157	40.00000	ppb	0.00
5) Phenanthrene-D10(IS)	9.60	188	7715173	40.00000	ppb	0.00
6) Chrysene-D12(IS)	11.93	240	7945115	40.00000	ppb	0.04
7) Perylene-D12(IS)	13.71	264	7813985	40.00000	ppb	0.06

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.66	45	178738	89.00361	ppb	96

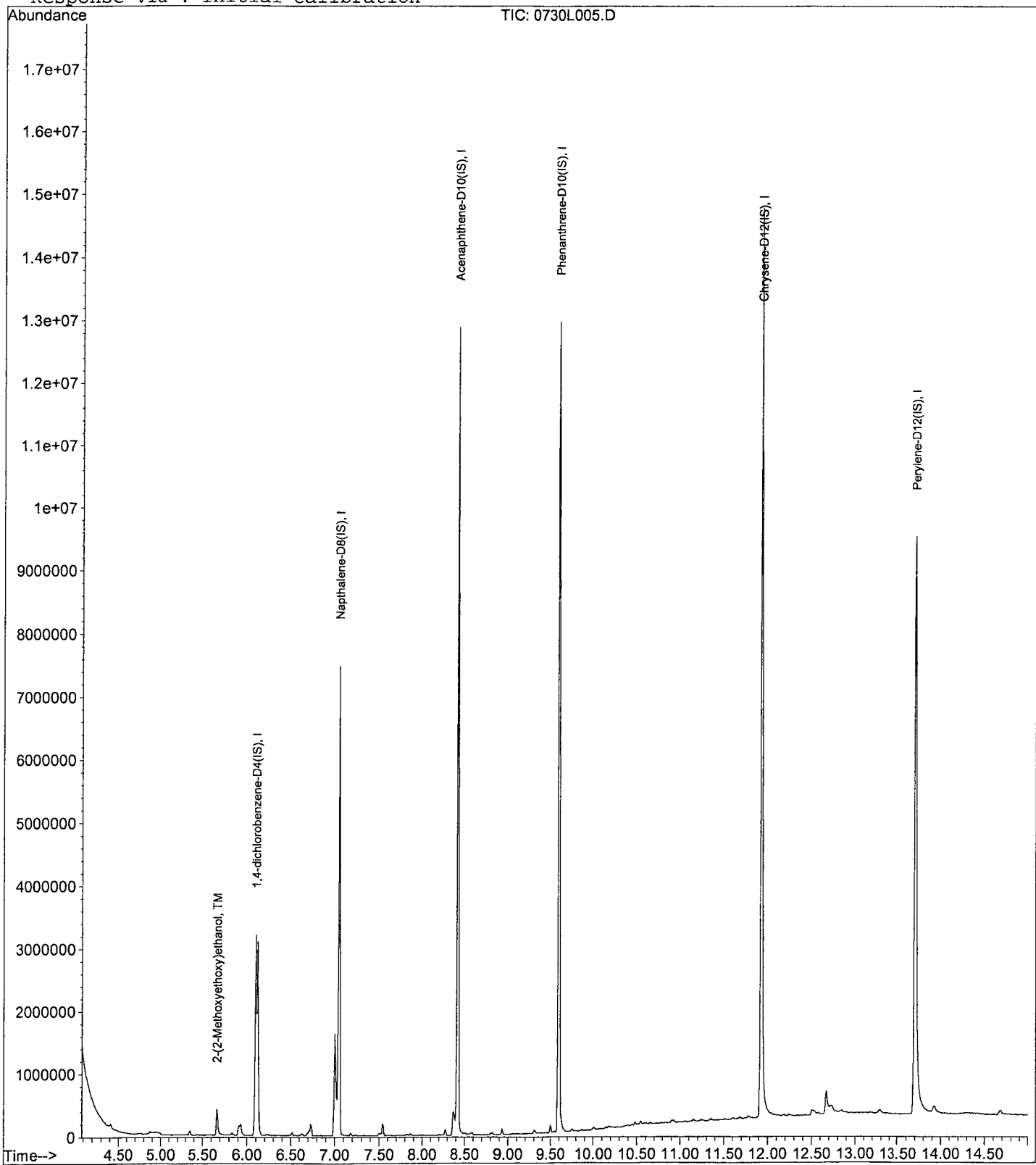
Data File : M:\LINUS\DATA\L190730M\0730L005.D
Acq On : 30 Jul 19 13:17
Sample : 100ug/ml MEE 04/30/19
Misc :

Vial: 5
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:11 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L006.D
 Acq On : 30 Jul 19 13:41
 Sample : 200ug/ml MEE 04/30/19
 Misc :

Vial: 6
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Jul 30 15:12 2019

Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.13	152	1461825m	40.00000	ppb	-0.02
3) Napthalene-D8 (IS)	7.05	136	5084767	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3673311	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7619869	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	8245101	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	8432192	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.68	45	367317	183.94074	ppb	99

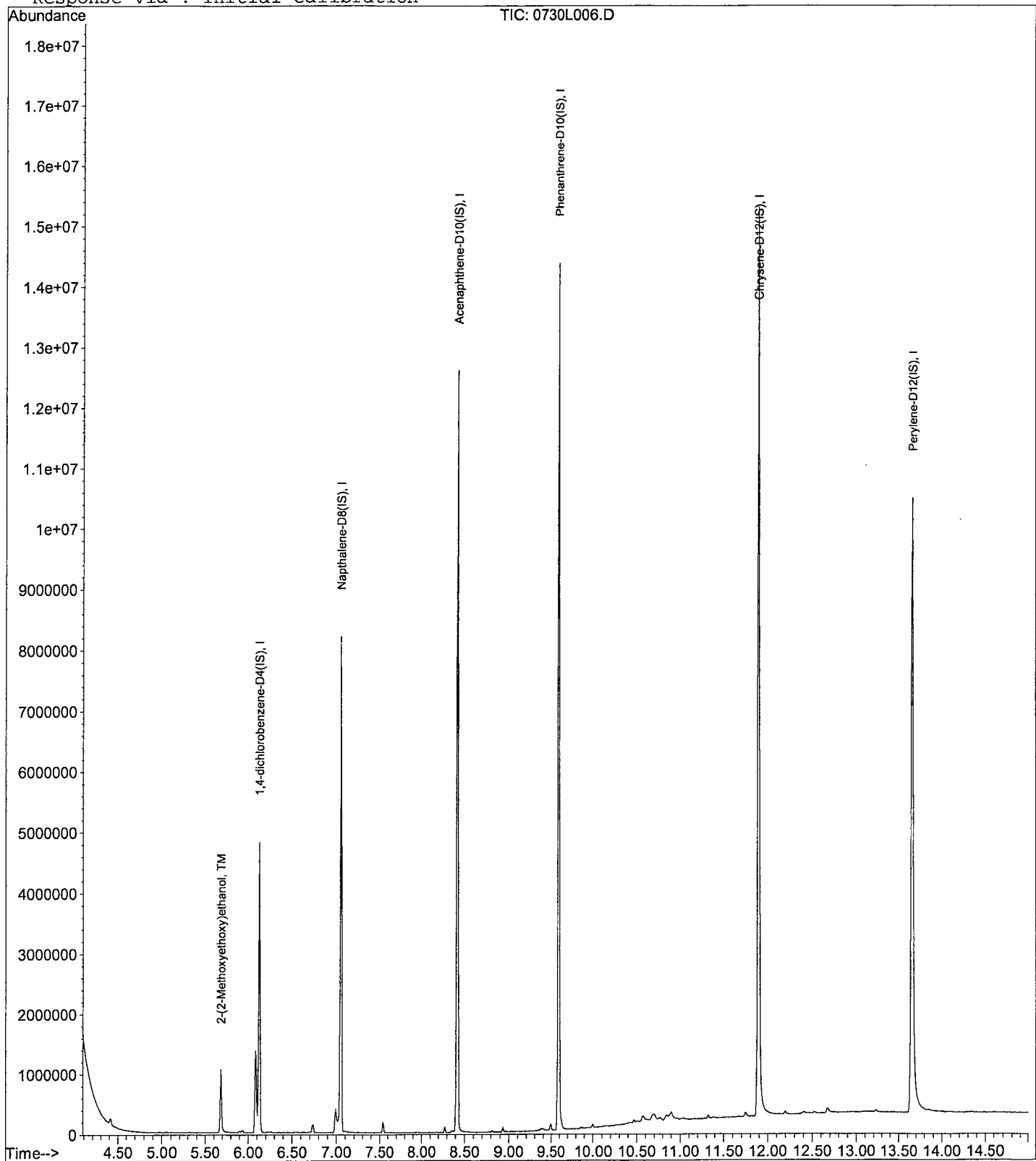
Data File : M:\LINUS\DATA\L190730M\0730L006.D
 Acq On : 30 Jul 19 13:41
 Sample : 200ug/ml MEE 04/30/19
 Misc :

Vial: 6
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Jul 30 15:12 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration

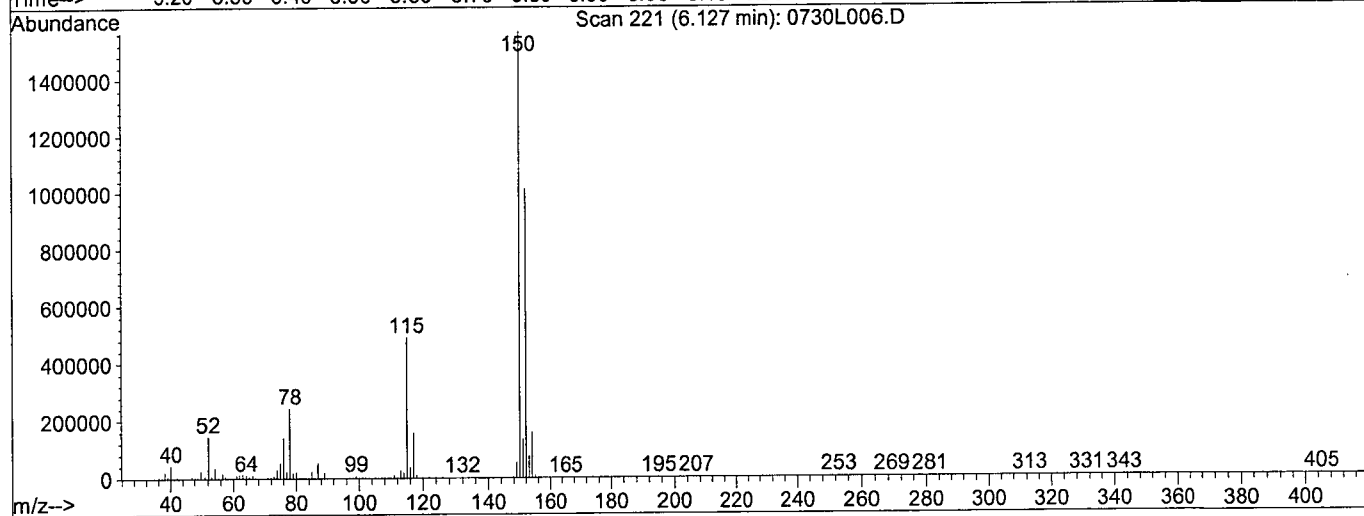
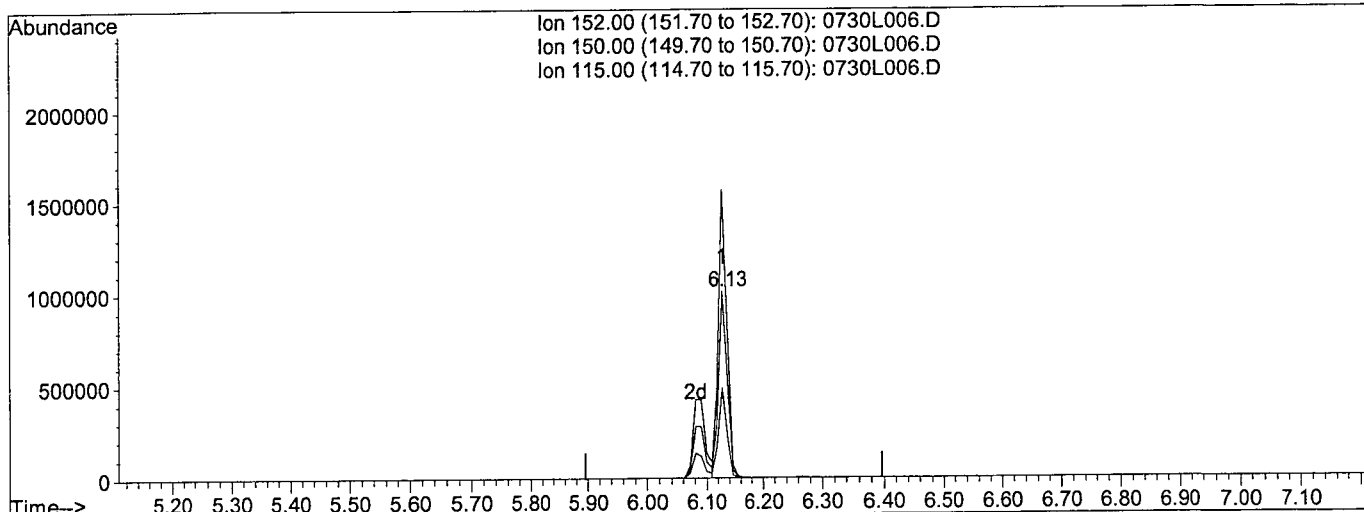


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L006.D
 Acq On : 30 Jul 19 13:41
 Sample : 200ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:11 2019

Vial: 6
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L006.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb

response 1047104

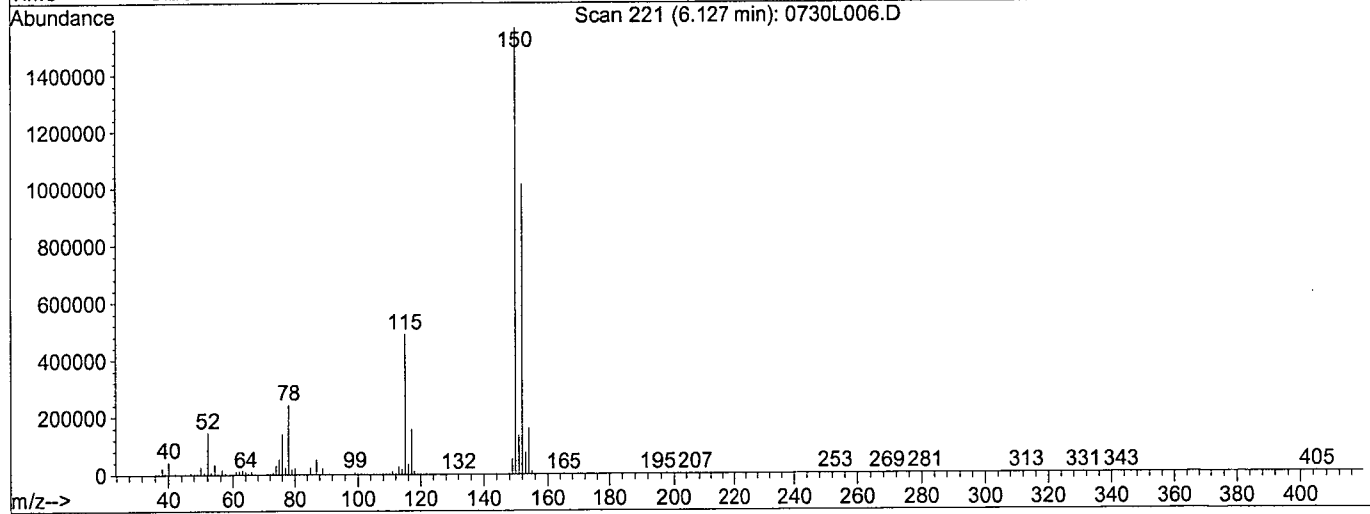
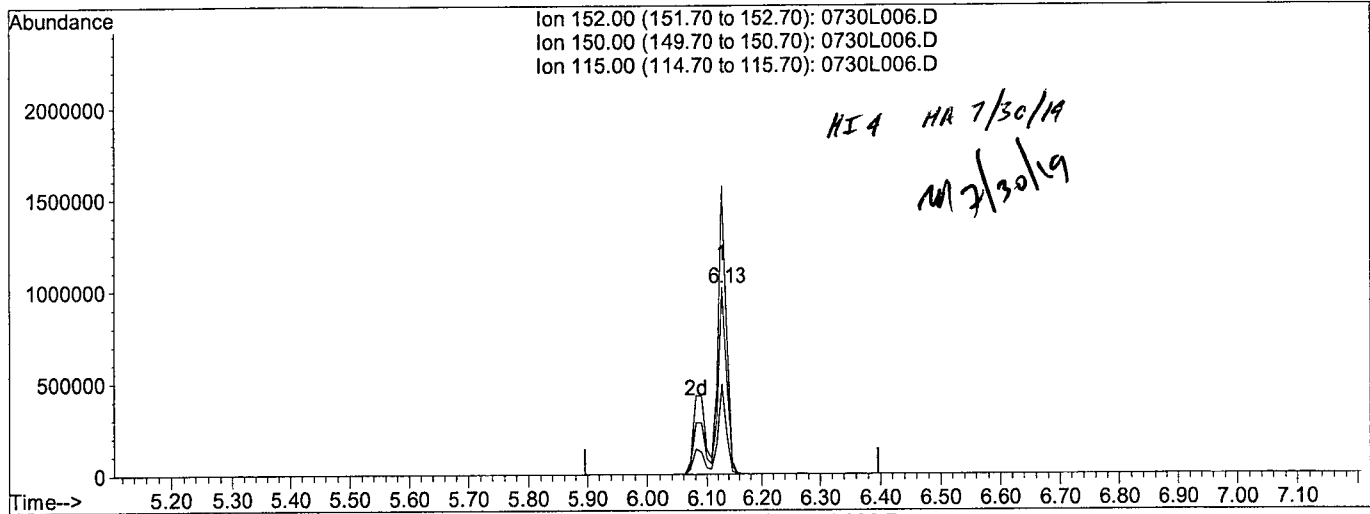
Ion	Exp%	Act%
152.00	100	100
150.00	151.30	154.77
115.00	42.60	48.39
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L006.D
 Acq On : 30 Jul 19 13:41
 Sample : 200ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:12 2019

Vial: 6
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L006.D

(1) 1,4-dichlorobenzene-D4(1S) (I)

6.13min 40.0000ppb m

response 1461825

Ion	Exp%	Act%
152.00	100	100
150.00	151.30	154.73
115.00	42.60	48.40
0.00	0.00	0.00

Data File : M:\LINUS\DATA\L190730M\0730L007.D Vial: 7
 Acq On : 30 Jul 19 14:04 Operator: MA
 Sample : 400ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 30 15:13 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.13	152	1382825m	40.00000	ppb	-0.02
3) Napthalene-D8 (IS)	7.05	136	4970142	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3606286	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7424397	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.88	240	7867434	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.64	264	7875034	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	5.69	45	833210	441.08221	ppb	98

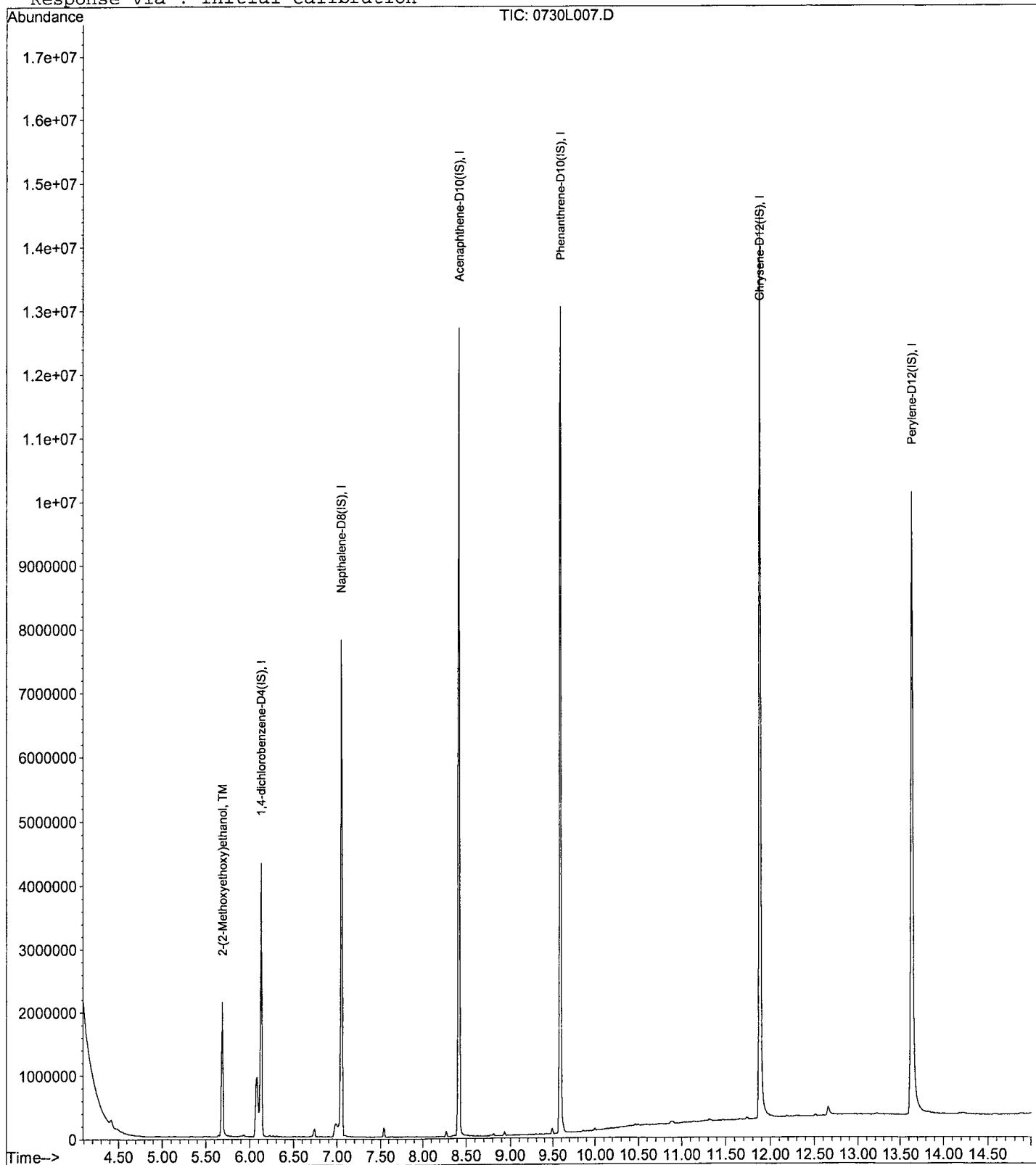
Data File : M:\LINUS\DATA\L190730M\0730L007.D
Acq On : 30 Jul 19 14:04
Sample : 400ug/ml MEE 04/30/19
Misc :

Vial: 7
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:13 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration

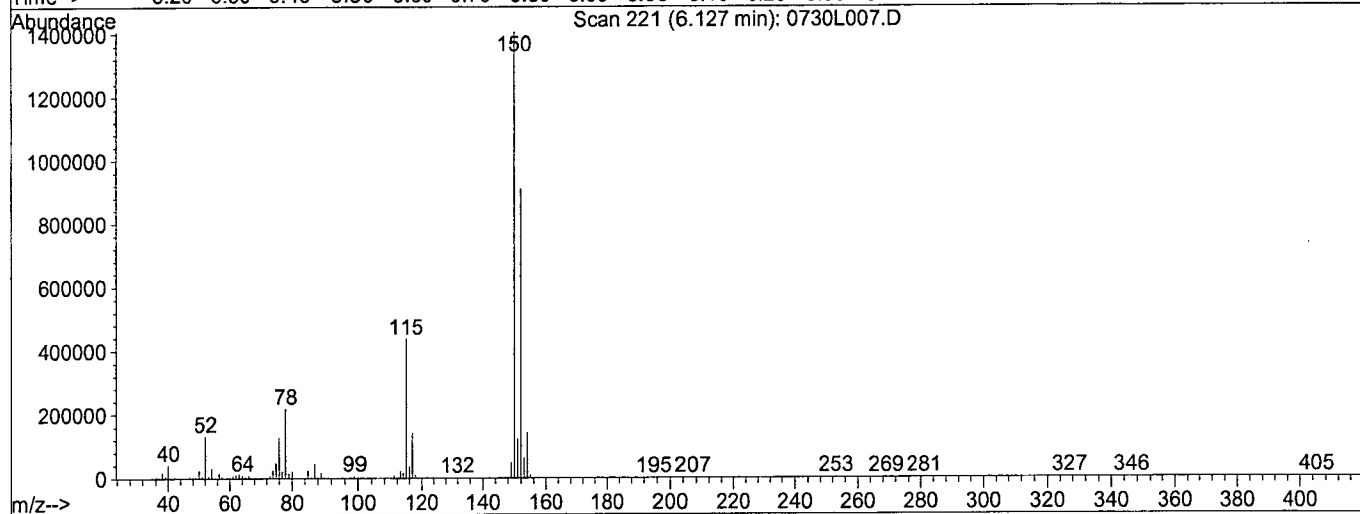
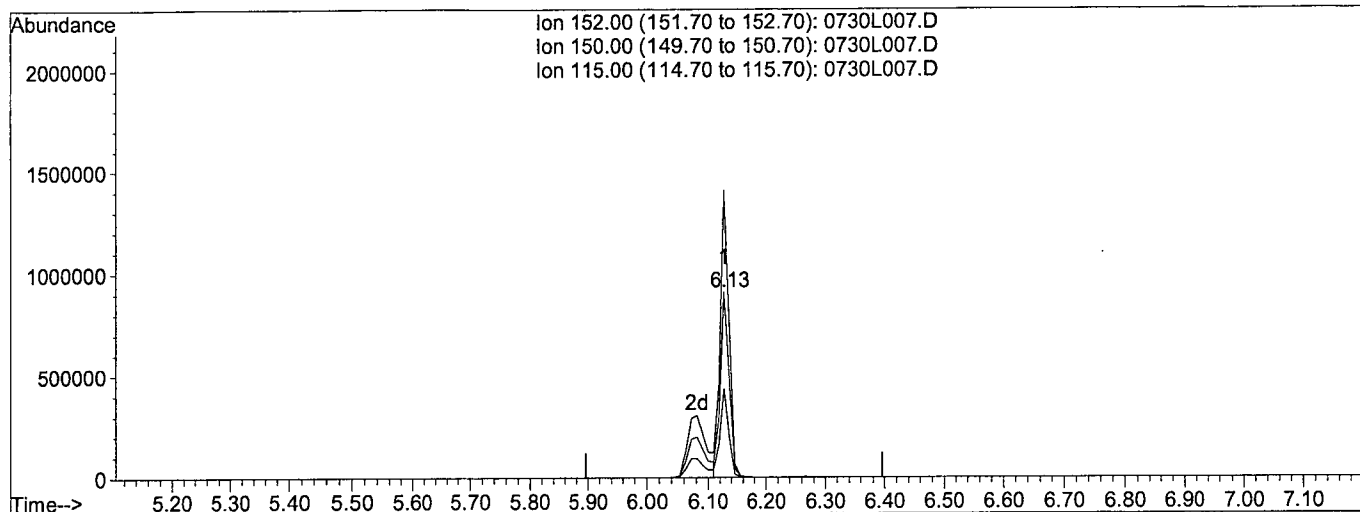


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L007.D
 Acq On : 30 Jul 19 14:04
 Sample : 400ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:11 2019

Vial: 7
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L007.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb

response 957510

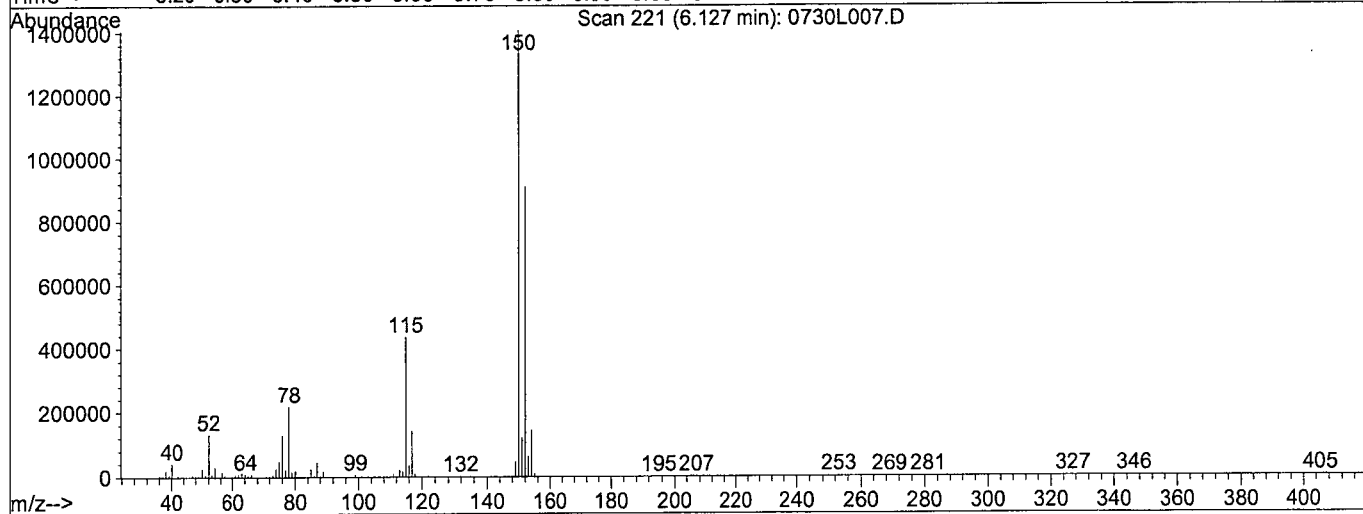
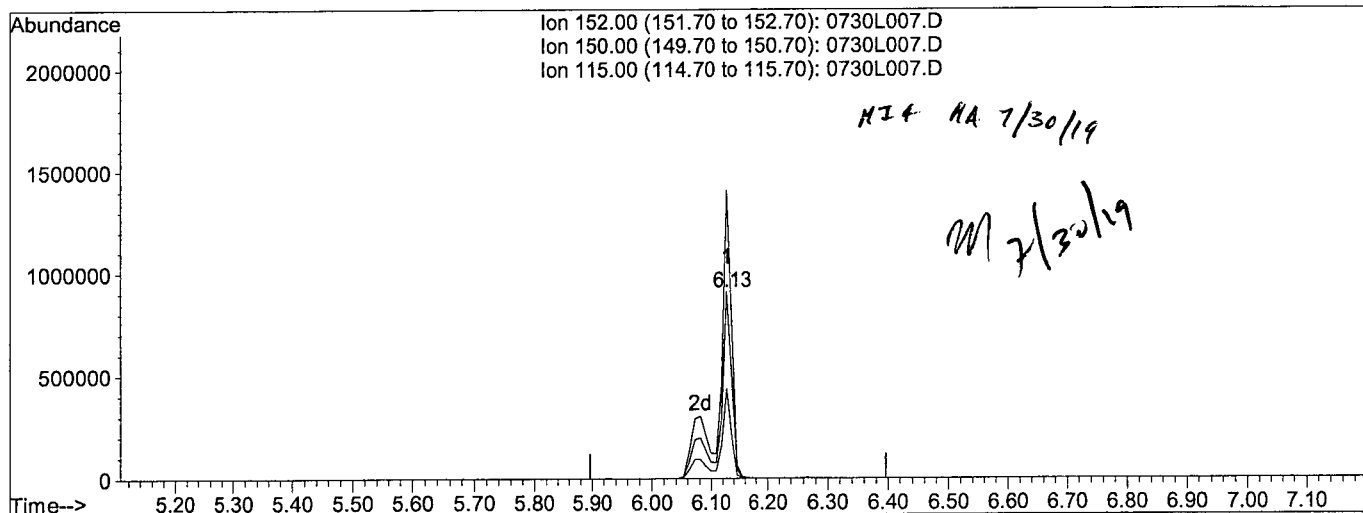
Ion	Exp%	Act%
152.00	100	100
150.00	151.30	154.57
115.00	42.60	47.94
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L007.D
 Acq On : 30 Jul 19 14:04
 Sample : 400ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:13 2019

Vial: 7
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L007.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb m

response 1382825

Ion	Exp%	Act%
152.00	100	100
150.00	151.30	154.56
115.00	42.60	47.96
0.00	0.00	0.00

Data File : M:\LINUS\DATA\L190730M\0730L008.D Vial: 8
 Acq On : 30 Jul 19 14:27 Operator: MA
 Sample : 600ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 30 15:13 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.12	152	1716822m	40.00000	ppb	-0.03
3) Napthalene-D8 (IS)	7.05	136	6268016	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	4318908	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	9164097	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	9844624	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	9933894	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.69	45	1324145	564.60219	ppb	100

Quantitation Report

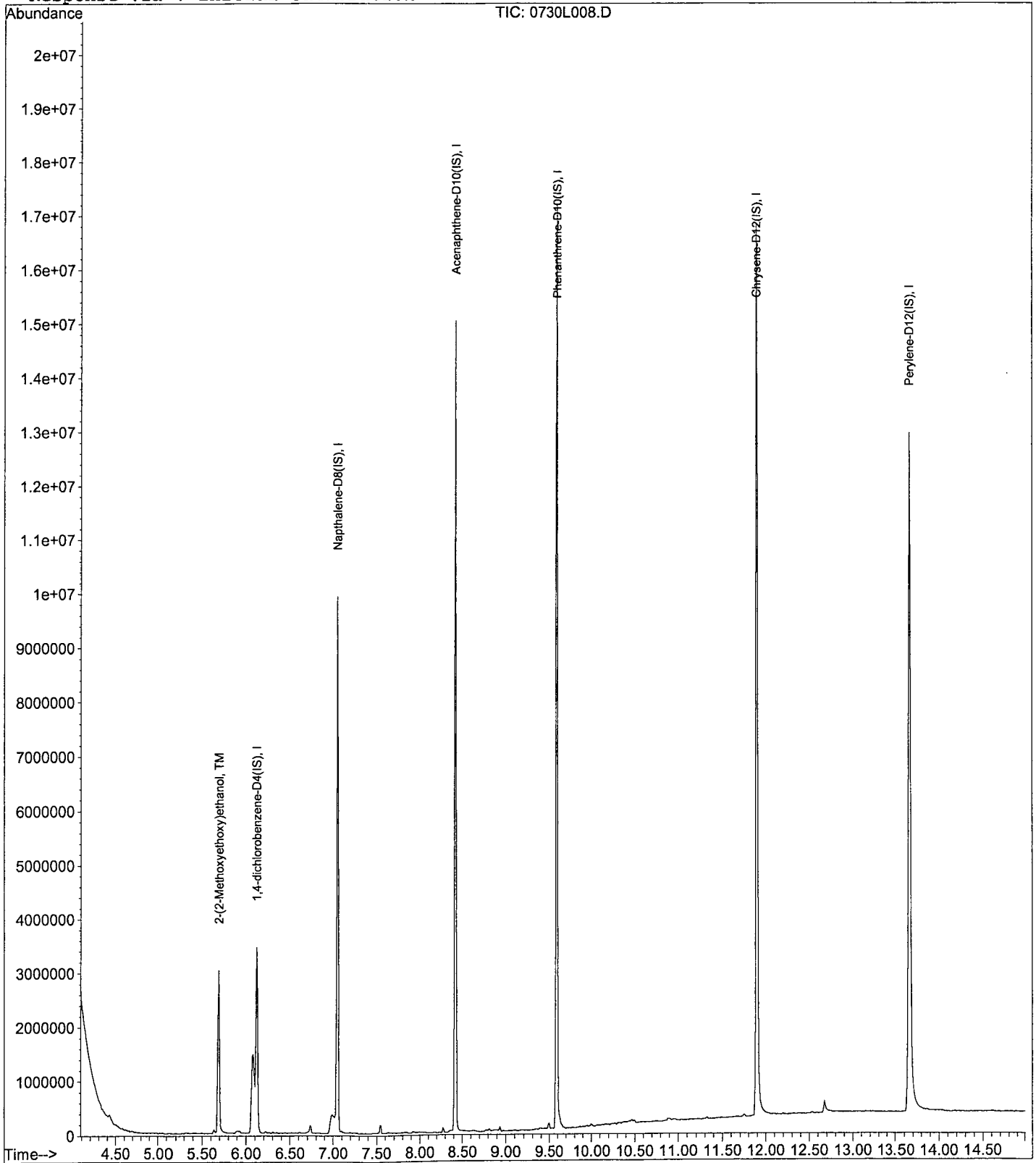
Data File : M:\LINUS\DATA\L190730M\0730L008.D
Acq On : 30 Jul 19 14:27
Sample : 600ug/ml MEE 04/30/19
Misc :

Vial: 8
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:13 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration

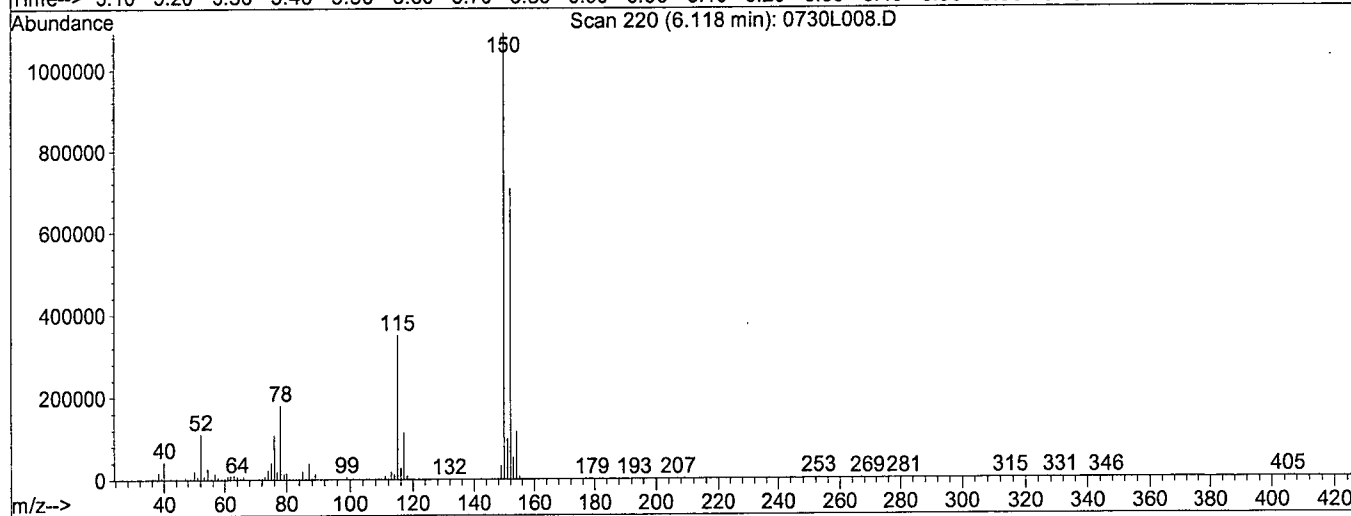
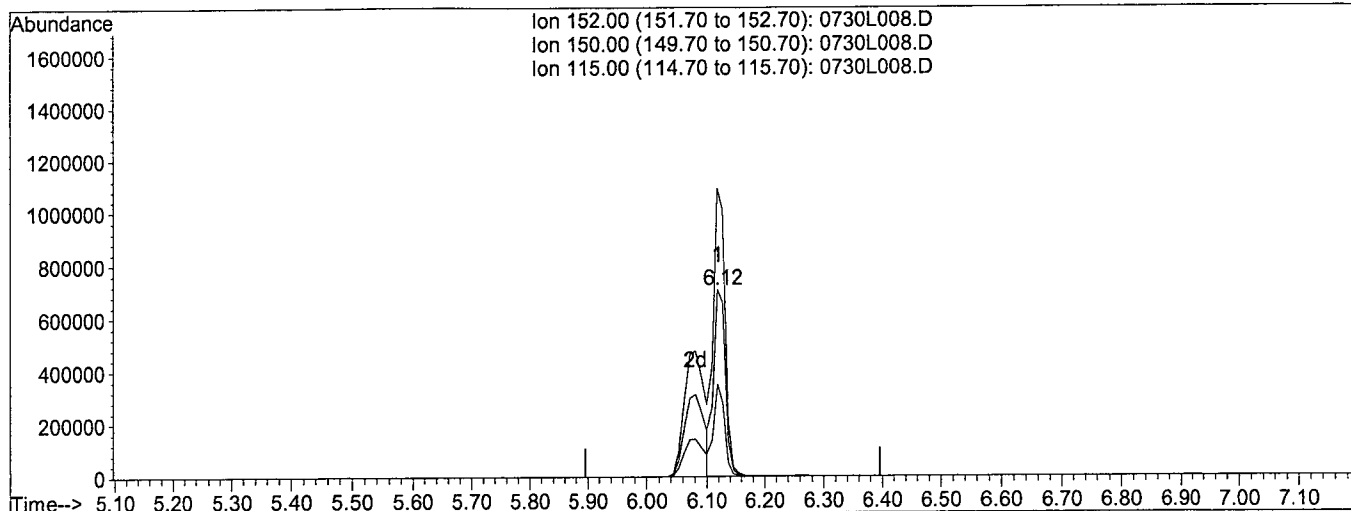


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L008.D
 Acq On : 30 Jul 19 14:27
 Sample : 600ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:11 2019

Vial: 8
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L008.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.12min 40.0000ppb

response 1002516

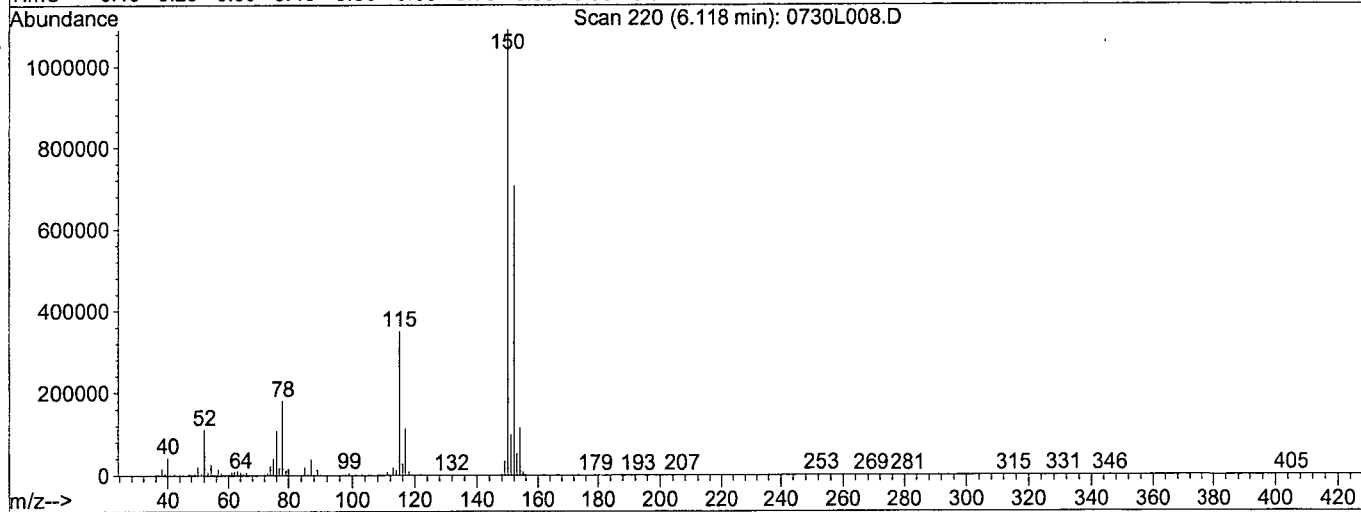
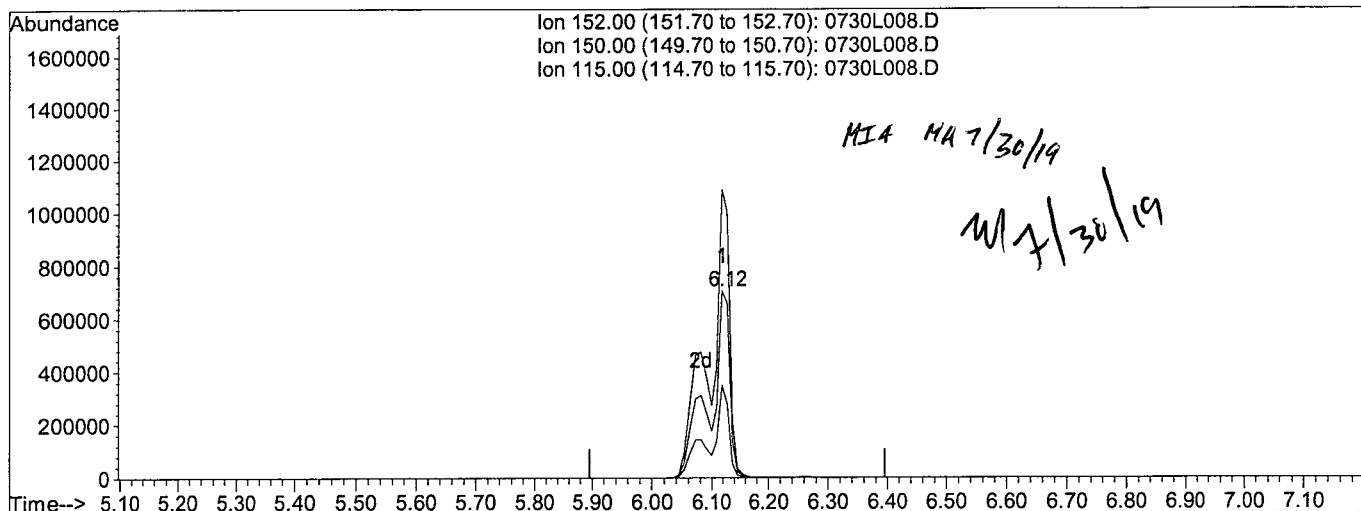
Ion	Exp%	Act%
152.00	100	100
150.00	151.30	154.35
115.00	42.60	49.55
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L008.D
 Acq On : 30 Jul 19 14:27
 Sample : 600ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:13 2019

Vial: 8
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L008.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.12min 40.0000ppb m

response 1716822

Ion	Exp%	Act%
152.00	100	100
150.00	151.30	154.38
115.00	42.60	49.62
0.00	0.00	0.00

Data File : M:\LINUS\DATA\L190730M\0730L009.D Vial: 9
 Acq On : 30 Jul 19 14:51 Operator: MA
 Sample : 800ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 30 15:10 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.12	152	1669070m	40.00000	ppb	-0.03
3) Napthalene-D8 (IS)	7.05	136	5374930	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	4141489	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	8405653	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	9474975	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	9450888	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	5.69	45	1649063	723.26089	ppb	99

Quantitation Report

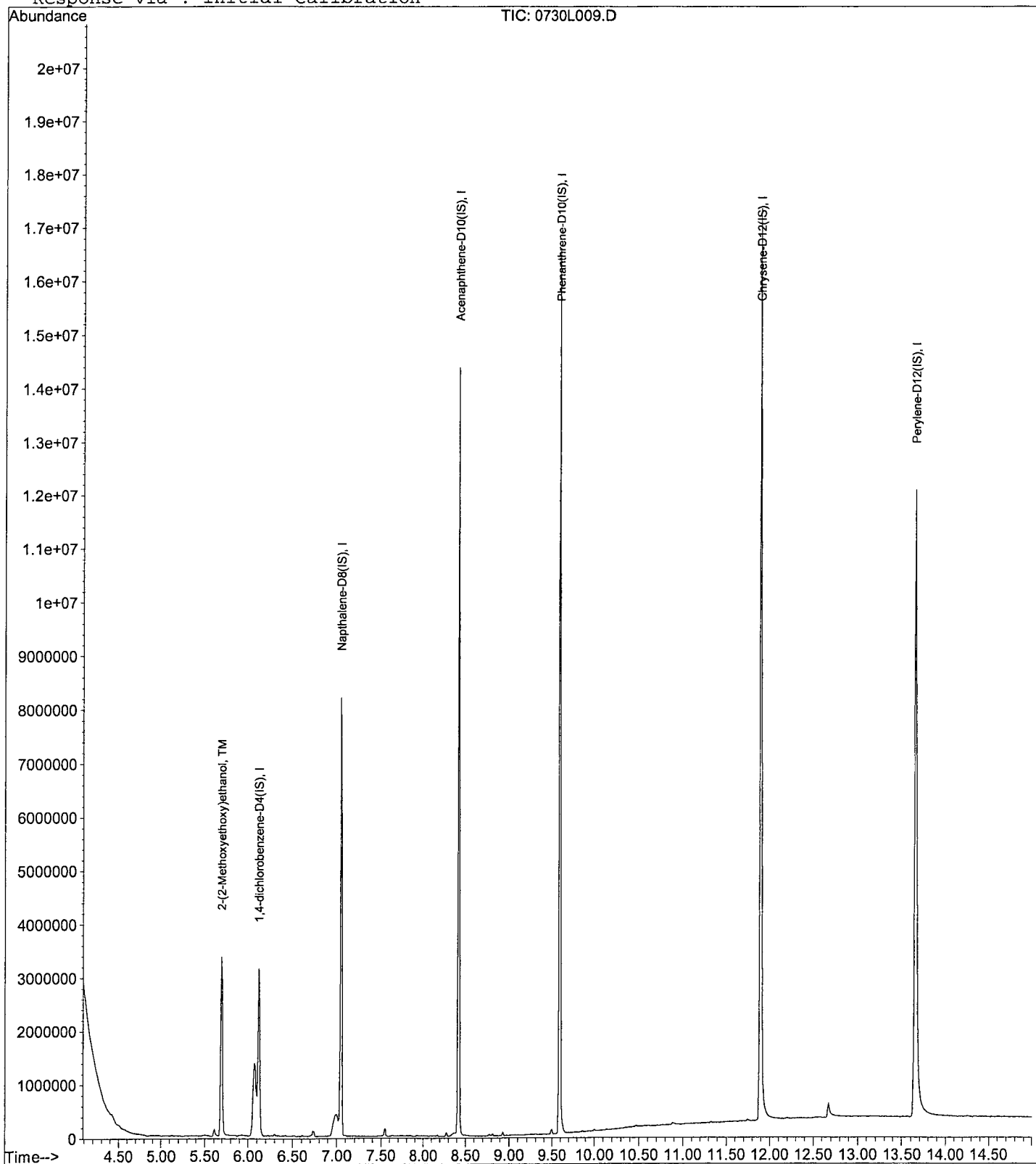
Data File : M:\LINUS\DATA\L190730M\0730L009.D
Acq On : 30 Jul 19 14:51
Sample : 800ug/ml MEE 04/30/19
Misc :

Vial: 9
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:10 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration

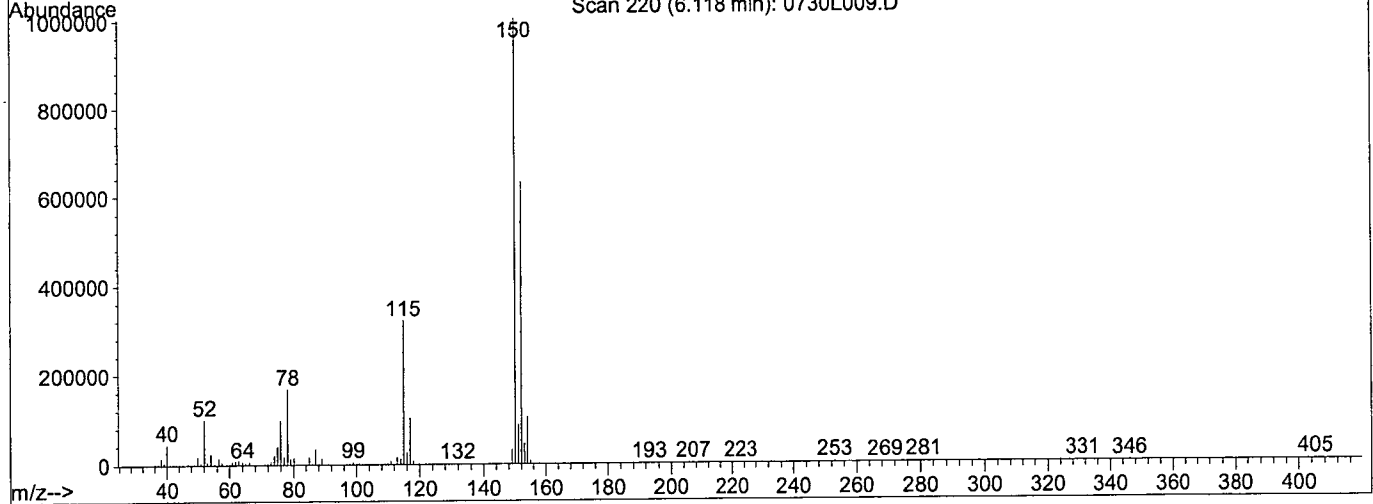
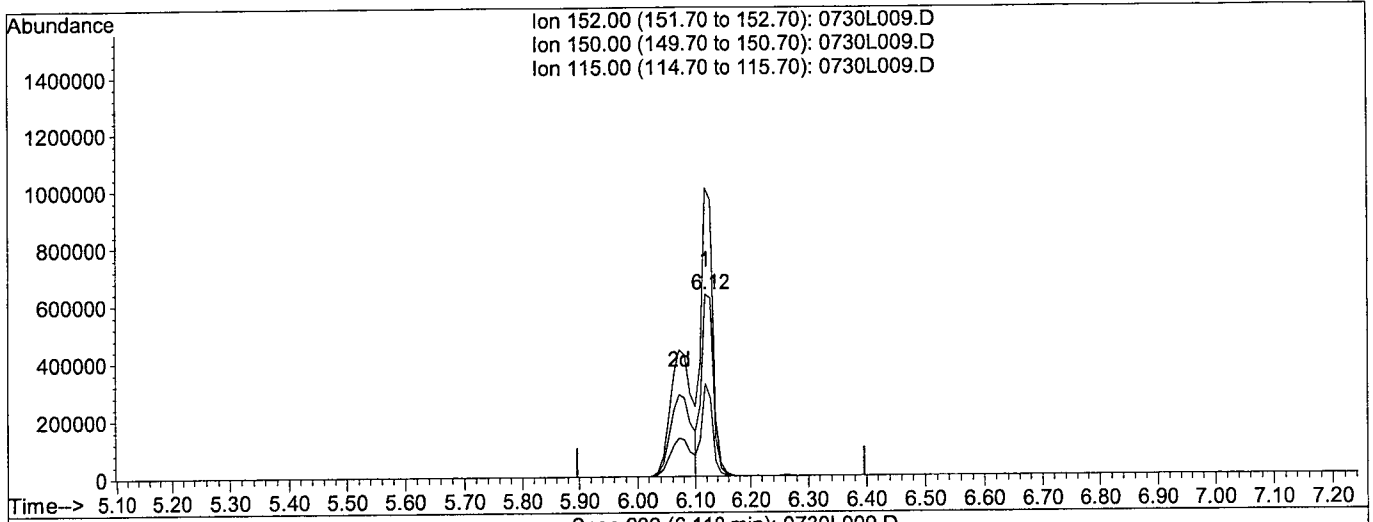


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L009.D
 Acq On : 30 Jul 19 14:51
 Sample : 800ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:10 2019

Vial: 9
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L009.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.12min 40.0000ppb

response 933046

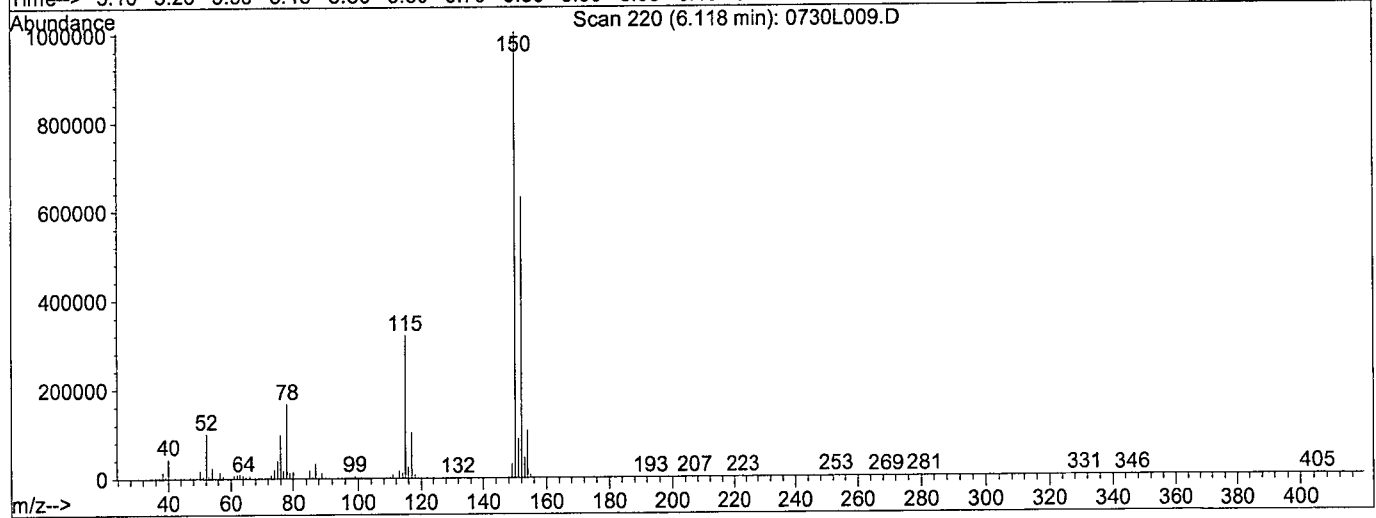
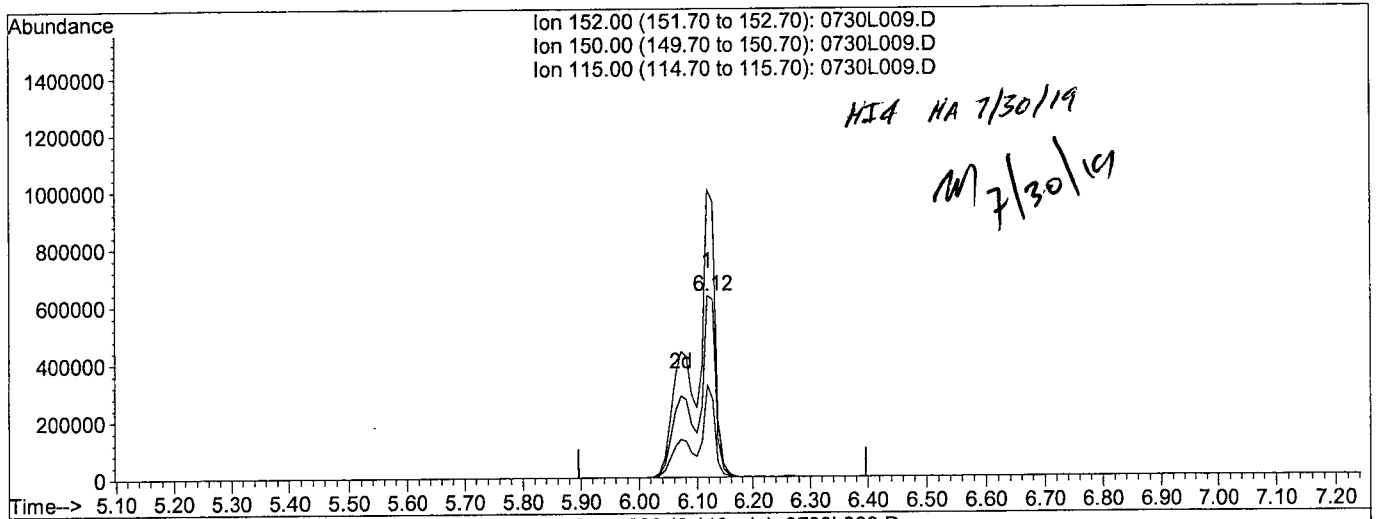
Ion	Exp%	Act%
152.00	100	100
150.00	151.30	158.87
115.00	42.60	50.79
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L009.D
 Acq On : 30 Jul 19 14:51
 Sample : 800ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:10 2019

Vial: 9
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L009.D

(1) 1,4-dichlorobenzene-D4(1S) (I)

6.12min 40.0000ppb m

response 1669070

Ion	Exp%	Act%
152.00	100	100
150.00	151.30	158.89
115.00	42.60	50.84
0.00	0.00	0.00

Data File : M:\LINUS\DATA\L190730M\0730L010.D
 Acq On : 30 Jul 19 15:13
 Sample : 1000ug/ml MEE 04/30/19
 Misc :

Vial: 10
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Jul 30 15:42 2019

Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:12:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.13	152	1481485m	40.00000	ppb	-0.02
3) Napthalene-D8 (IS)	7.05	136	5786003	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	4262349	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	8581509	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	9894804	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	9883087	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	5.71	45	1845695	925.02058	ppb	99

Quantitation Report

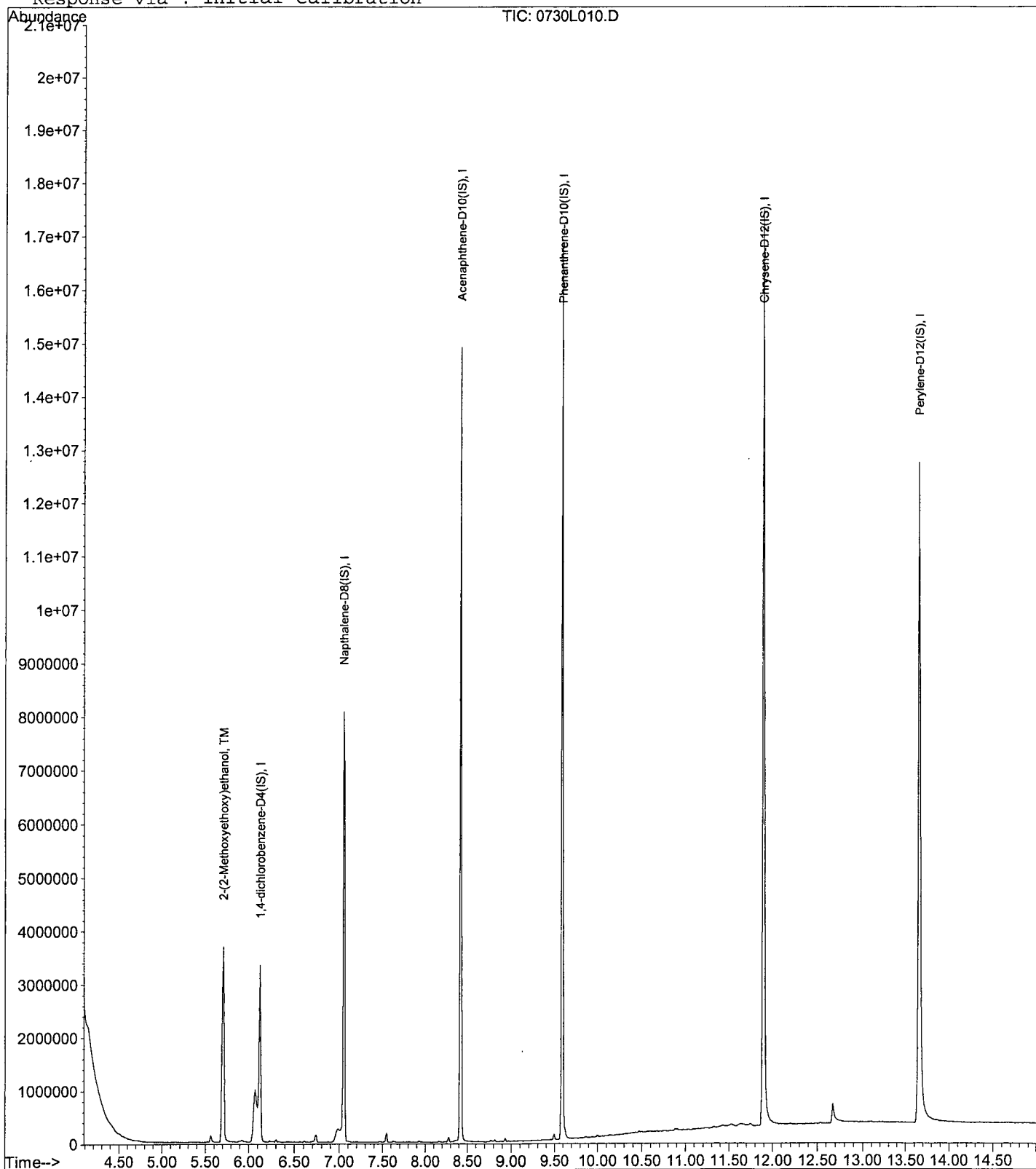
Data File : M:\LINUS\DATA\L190730M\0730L010.D
Acq On : 30 Jul 19 15:13
Sample : 1000ug/ml MEE 04/30/19
Misc :

Vial: 10
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:42 2019

Quant Results File: LMEE0430.RES

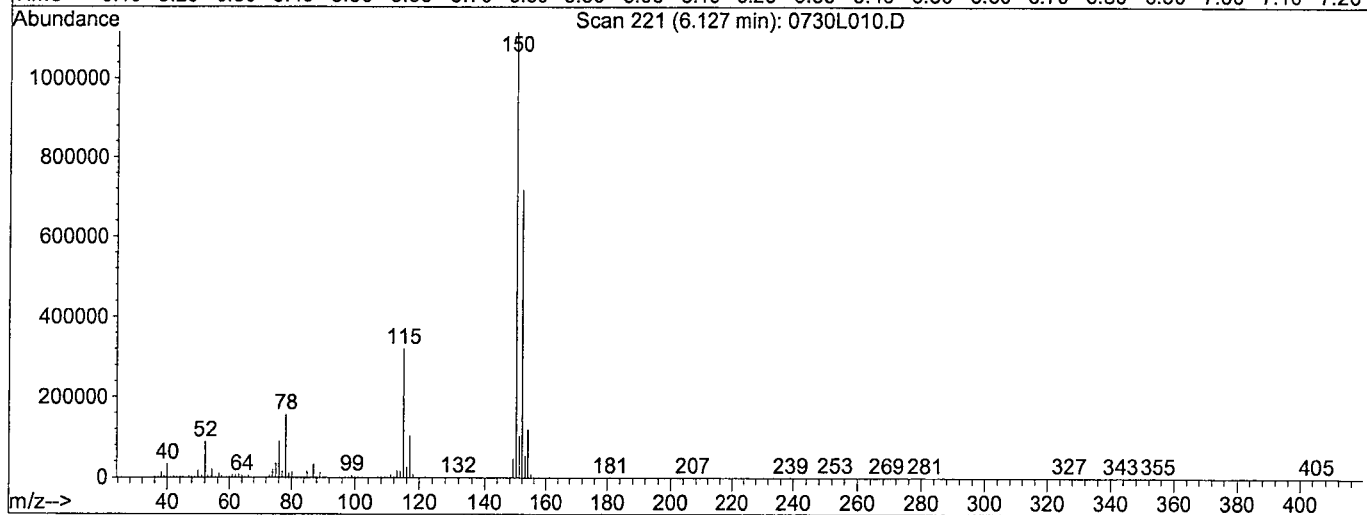
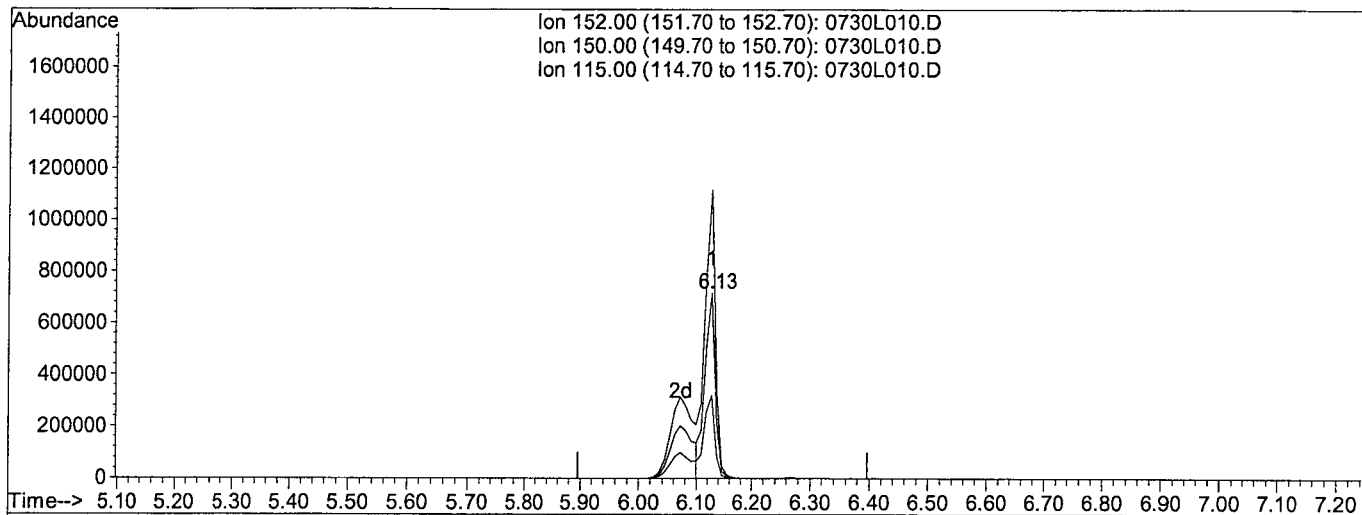
Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L010.D Vial: 10
 Acq On : 30 Jul 19 15:13 Operator: MA
 Sample : 1000ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00
 Quant Time: Jul 30 15:42 2019 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:12:18 2019
 Response via : Multiple Level Calibration



TIC: 0730L010.D

(1) 1,4-dichlorobenzene-D4(1S) (I)

6.13min 40.0000ppb

response 924804

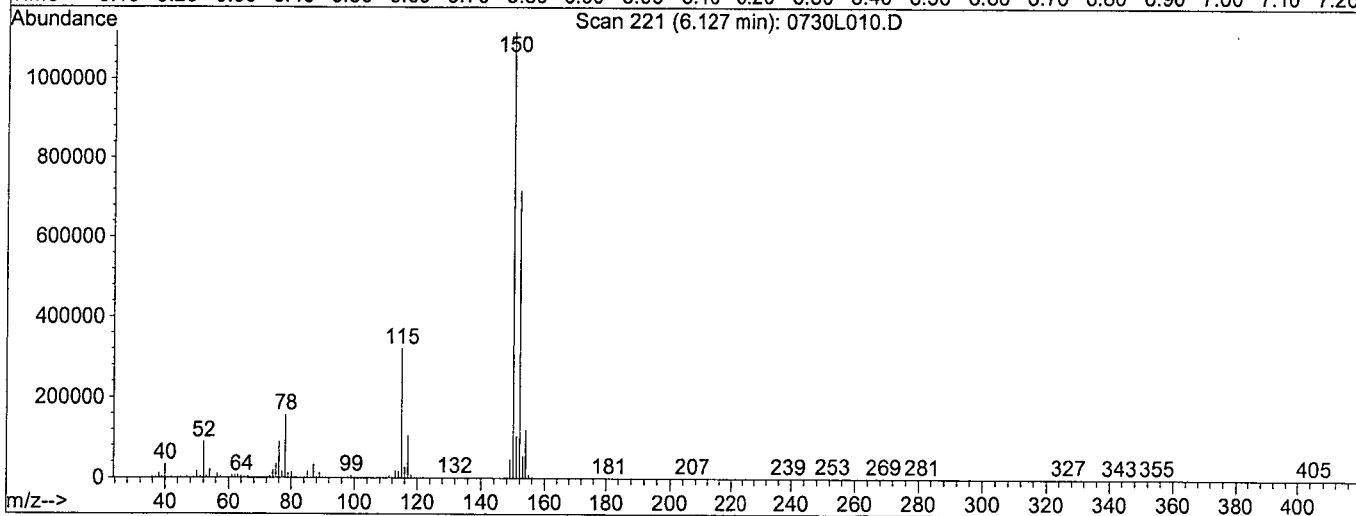
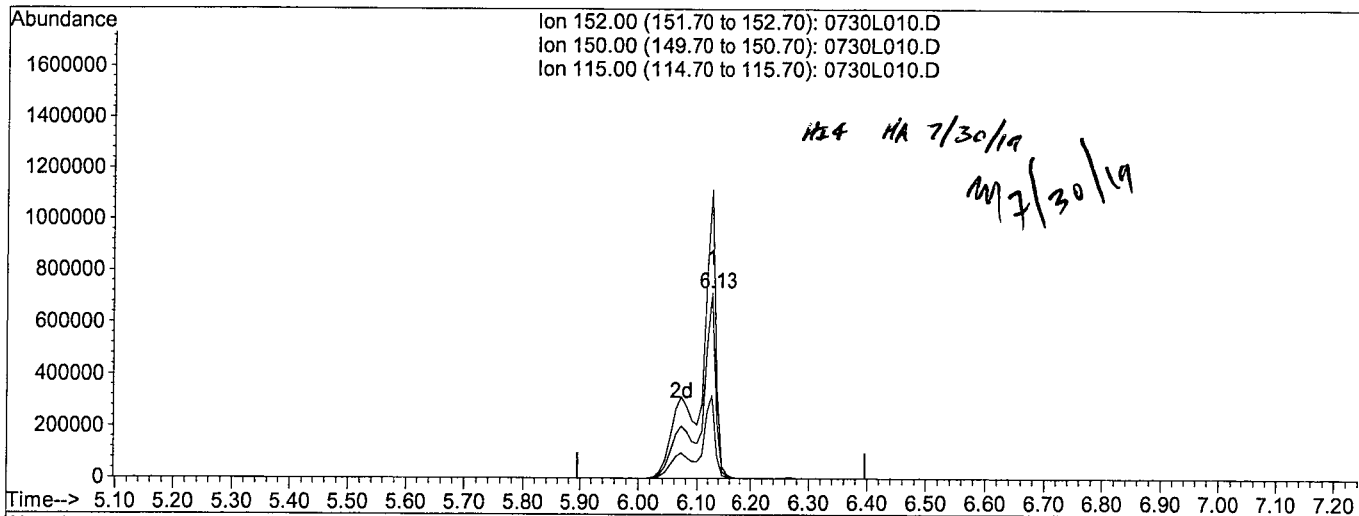
Ion	Exp%	Act%
152.00	100	100
150.00	151.30	156.03
115.00	42.60	44.84
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L010.D
 Acq On : 30 Jul 19 15:13
 Sample : 1000ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:42 2019

Vial: 10
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:12:18 2019
 Response via : Multiple Level Calibration



TIC: 0730L010.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb m

response 1481485

Ion	Exp%	Act%
152.00	100	100
150.00	151.30	156.01
115.00	42.60	44.87
0.00	0.00	0.00

2MEE
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/30/19
Instrument: Linus
Initial Cal. Date: 07/30/19
Data File: 0730L011.D

		Compound	MEAN	CCRF	%D	%Drift
1	TM	2-(2-Methoxyethoxy)ethanol	0.0534	0.0617	16	TM
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						

Average

16.0

Data File : M:\LINUS\DATA\L190730M\0730L011.D Vial: 11
 Acq On : 30 Jul 19 15:37 Operator: MA
 Sample : SS MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 30 17:38 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.13	152	1382961m	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.05	136	4594613	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3598325	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7544561	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	8541977	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	9241872	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.68	45	1066714	578.11784	ppb	98

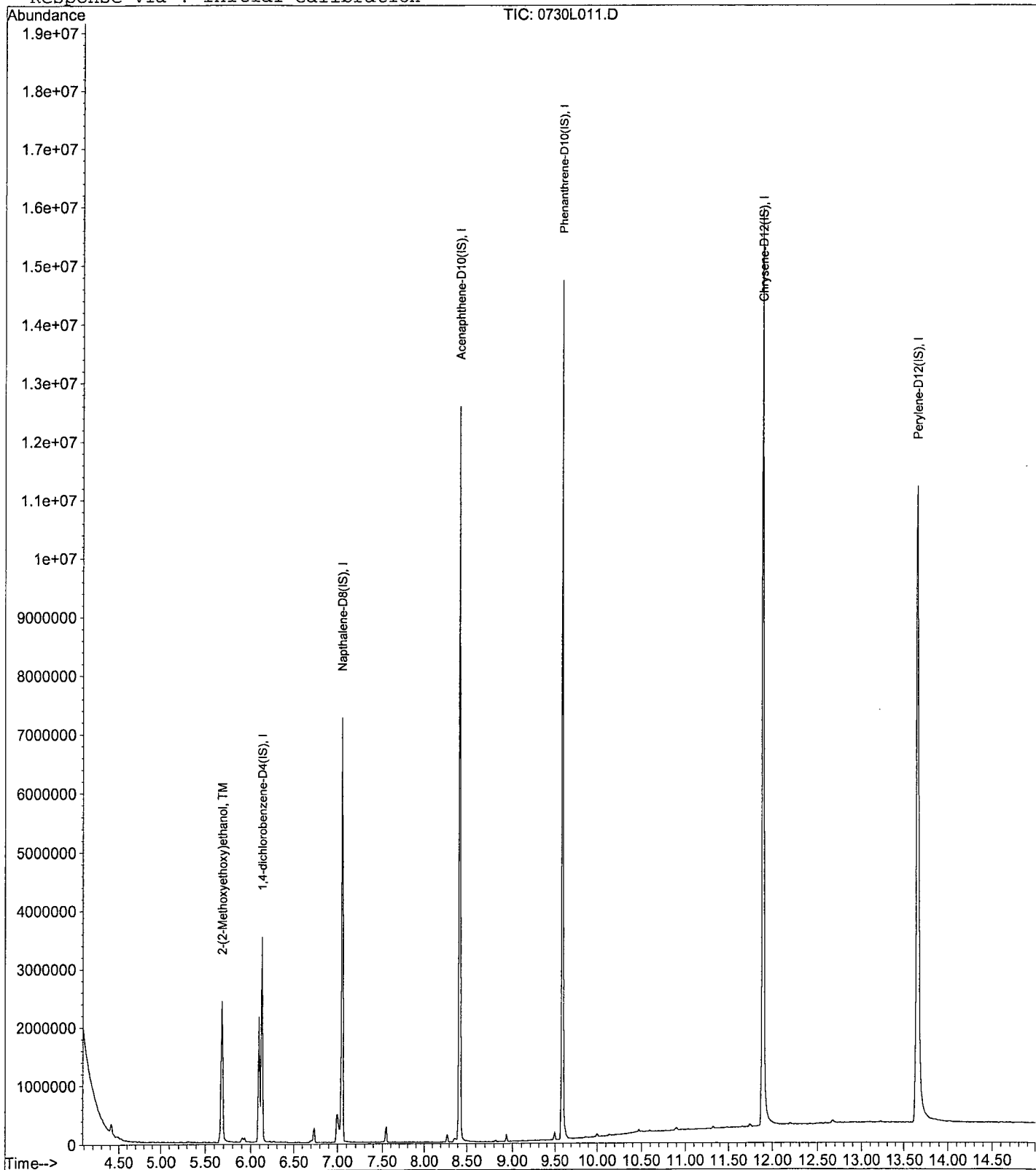
Data File : M:\LINUS\DATA\L190730M\0730L011.D
Acq On : 30 Jul 19 15:37
Sample : SS MEE 04/30/19
Misc :

Vial: 11
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 17:38 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration

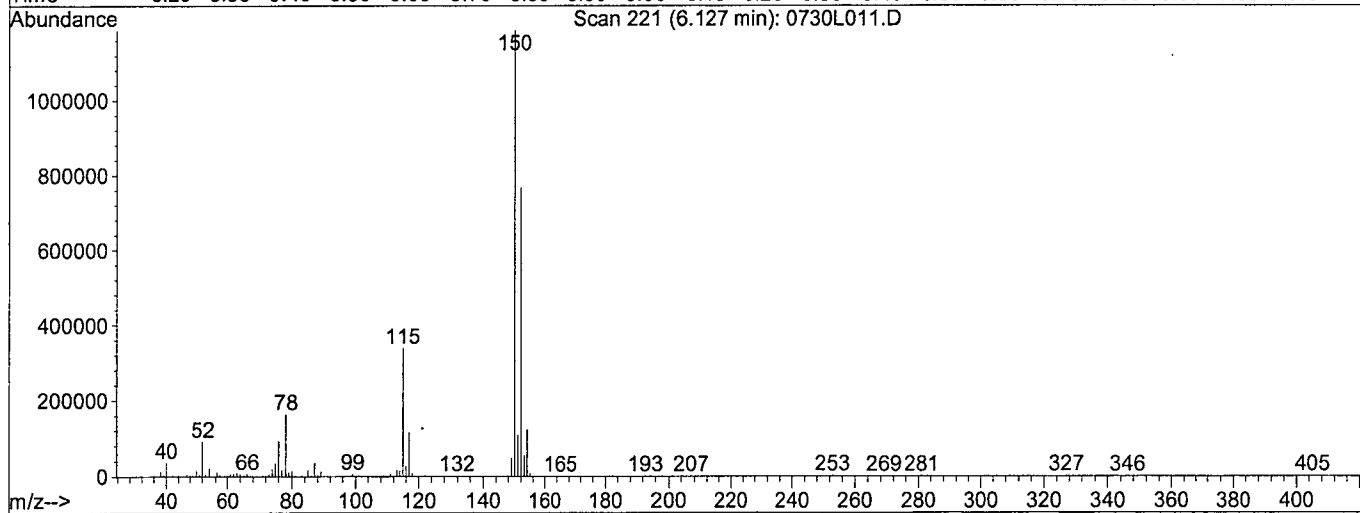
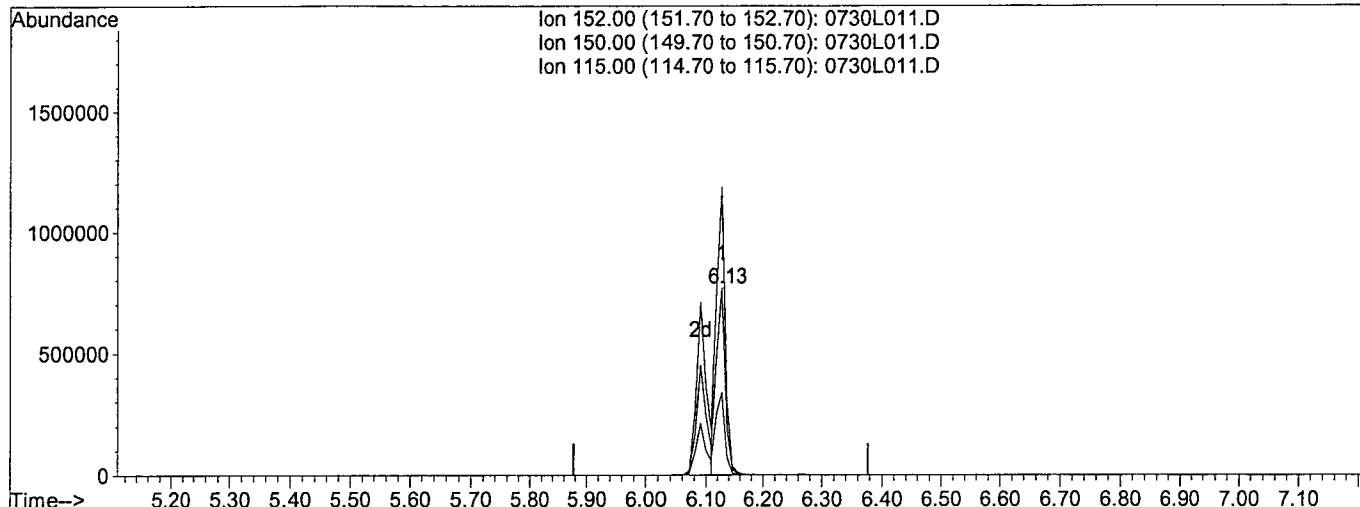


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L011.D
 Acq On : 30 Jul 19 15:37
 Sample : SS MEE 04/30/19
 Misc :
 Quant Time: Jul 30 17:38 2019

Vial: 11
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Multiple Level Calibration



TIC: 0730L011.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb

response 826966

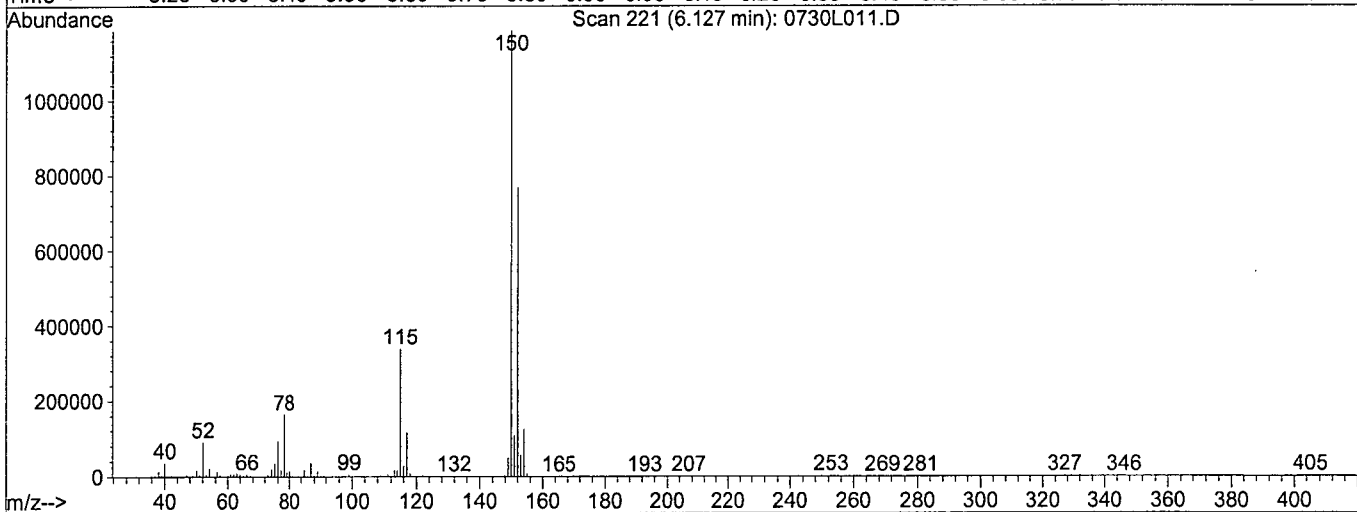
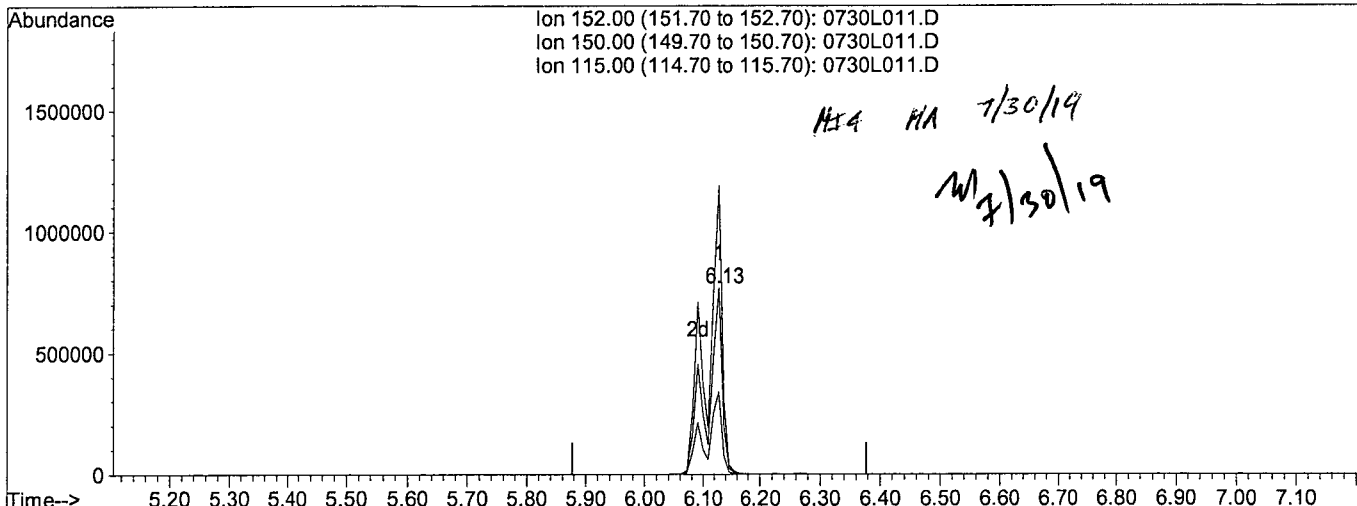
Ion	Exp%	Act%
152.00	100	100
150.00	154.60	154.55
115.00	44.10	44.04
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L011.D
 Acq On : 30 Jul 19 15:37
 Sample : SS MEE 04/30/19
 Misc :
 Quant Time: Jul 30 17:38 2019

Vial: 11
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Multiple Level Calibration



TIC: 0730L011.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb m

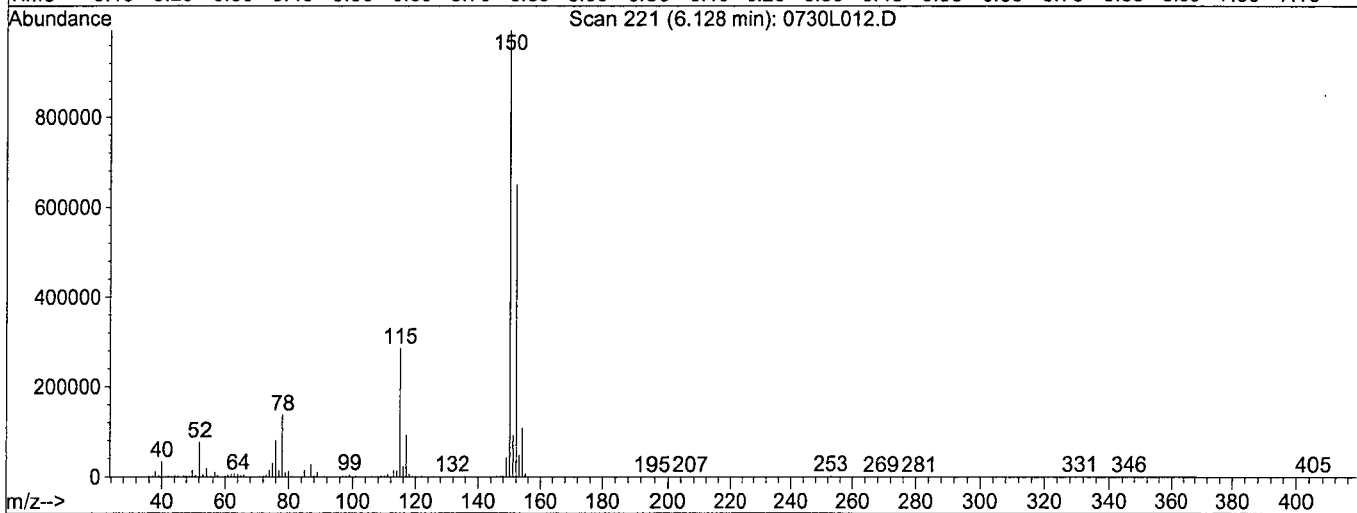
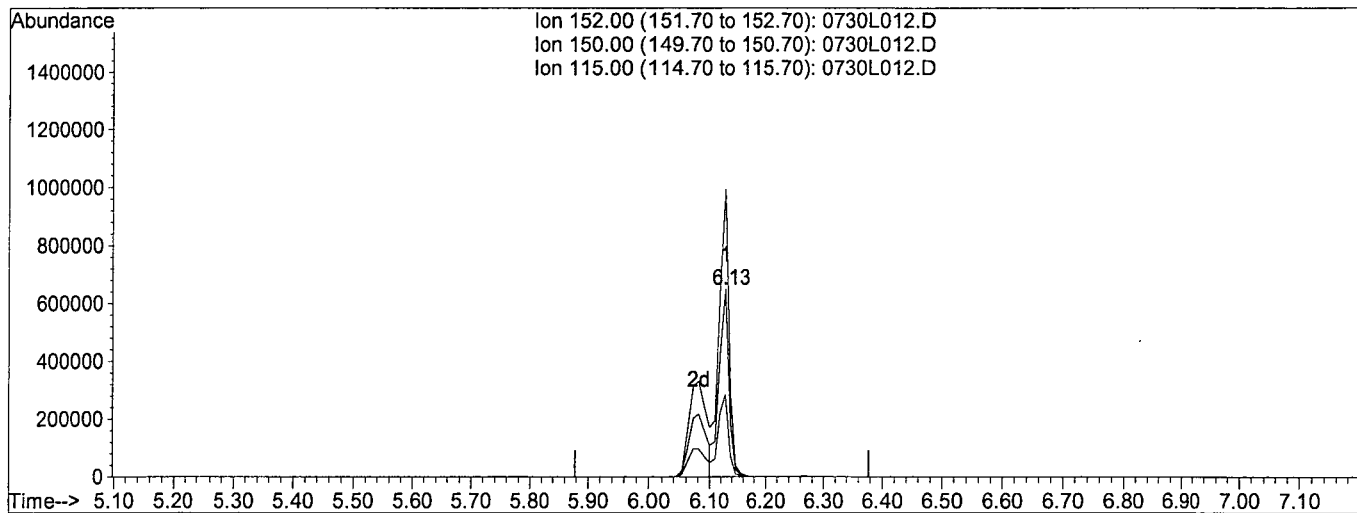
response 1382961

Ion	Exp%	Act%
152.00	100	100
150.00	154.60	154.57
115.00	44.10	44.07
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L012.D Vial: 12
 Acq On : 30 Jul 19 16:00 Operator: MA
 Sample : QC 500ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00
 Quant Time: Jul 30 16:17 2019 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Multiple Level Calibration



TIC: 0730L012.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb

response 787665

Ion	Exp%	Act%
152.00	100	100
150.00	154.60	153.33
115.00	44.10	44.00
0.00	0.00	0.00

2MEE
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/30/19
Instrument: Linus
Initial Cal. Date: 07/30/19
Data File: 0730L031.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I
2	TM	2-(2-Methoxyethoxy)ethanol	0.0534	0.0610	14	TM
3	I	Napthalene-D8(IS)	ISTD			I
4	I	Acenaphthene-D10(IS)	ISTD			I
5	I	Phenanthrene-D10(IS)	ISTD			I
6	I	Chrysene-D12(IS)	ISTD			I
7	I	Perylene-D12(IS)	ISTD			I
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
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20						
21						
22						
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31						
32						
33						
34						
35						
36						
37						
38						
39						
40						

Average

14.0

Data File : M:\LINUS\DATA\L190730M\0730L031.D Vial: 31
 Acq On : 30 Jul 19 23:19 Operator: MA
 Sample : 500ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 31 9:50 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.12	152	1430074m	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.05	136	4679509	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3697826	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.58	188	6445648	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.88	240	8956592	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.64	264	9413879	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.68	45	1089986	571.26908	ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

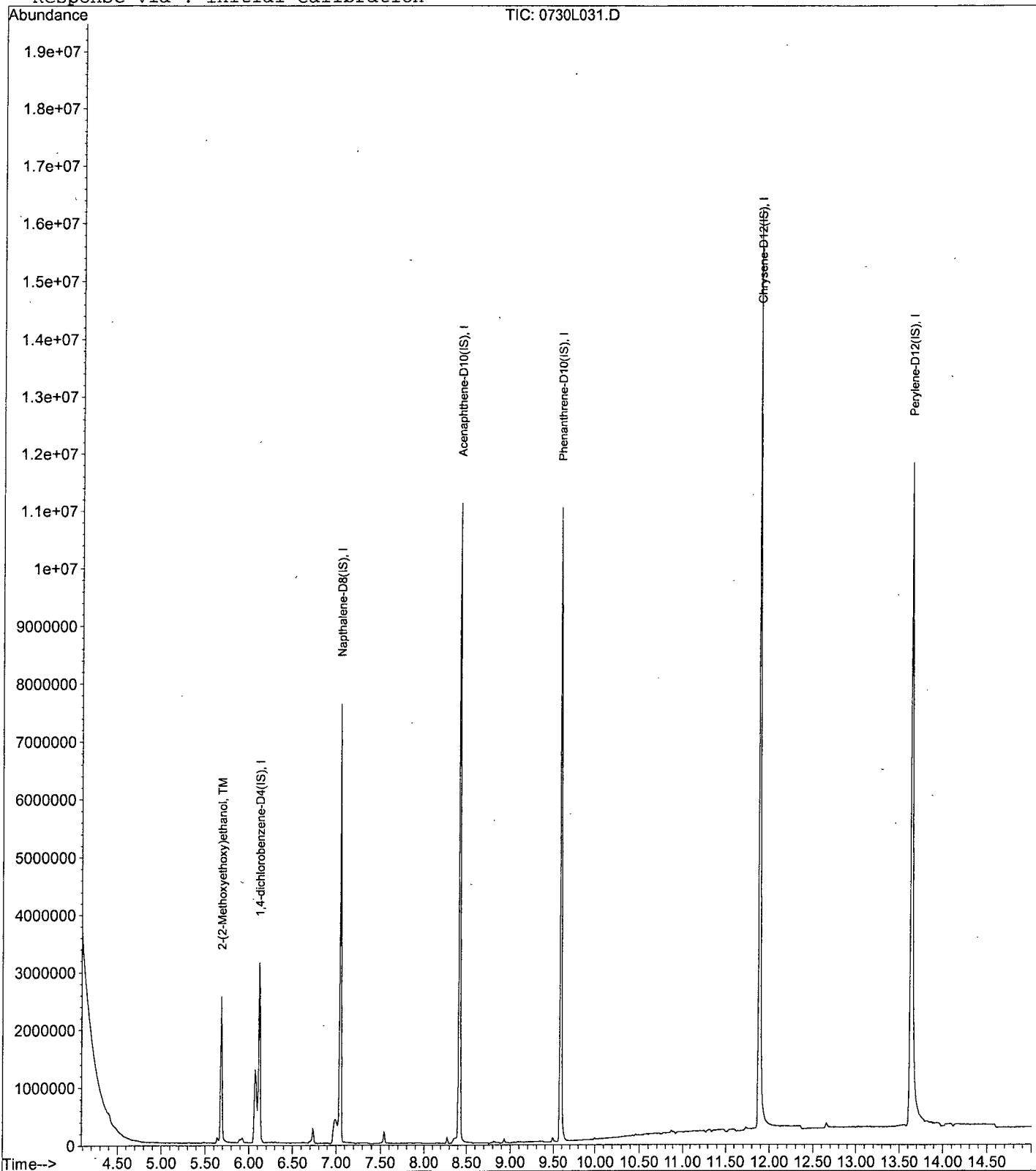
Data File : M:\LINUS\DATA\L190730M\0730L031.D
Acq On : 30 Jul 19 23:19
Sample : 500ug/ml MEE 04/30/19
Misc :

Vial: 31
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 31 9:50 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration

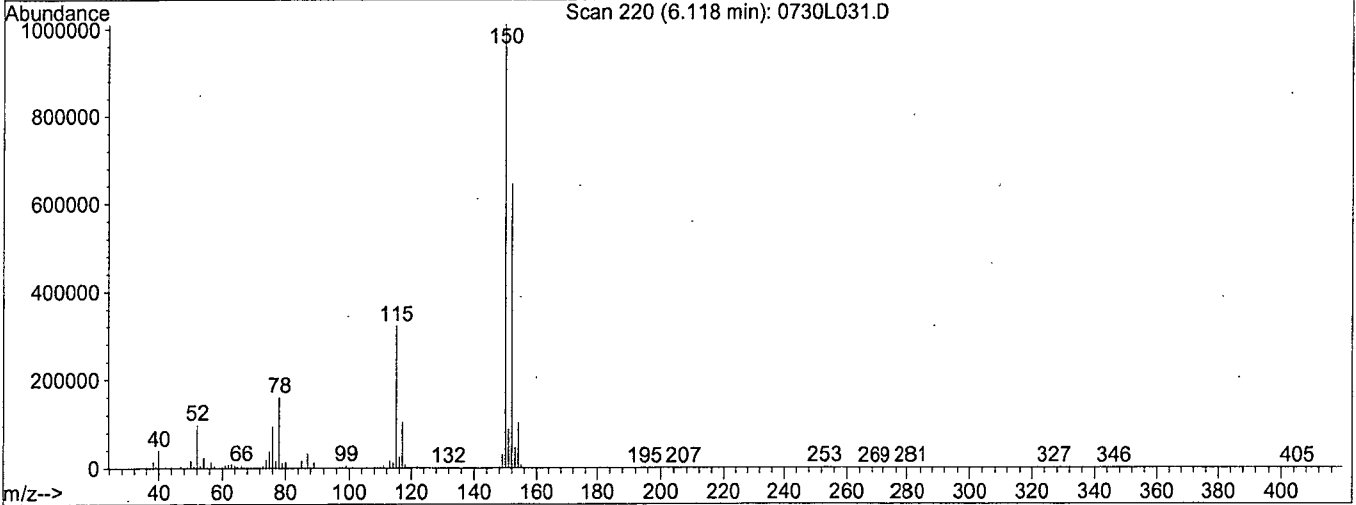
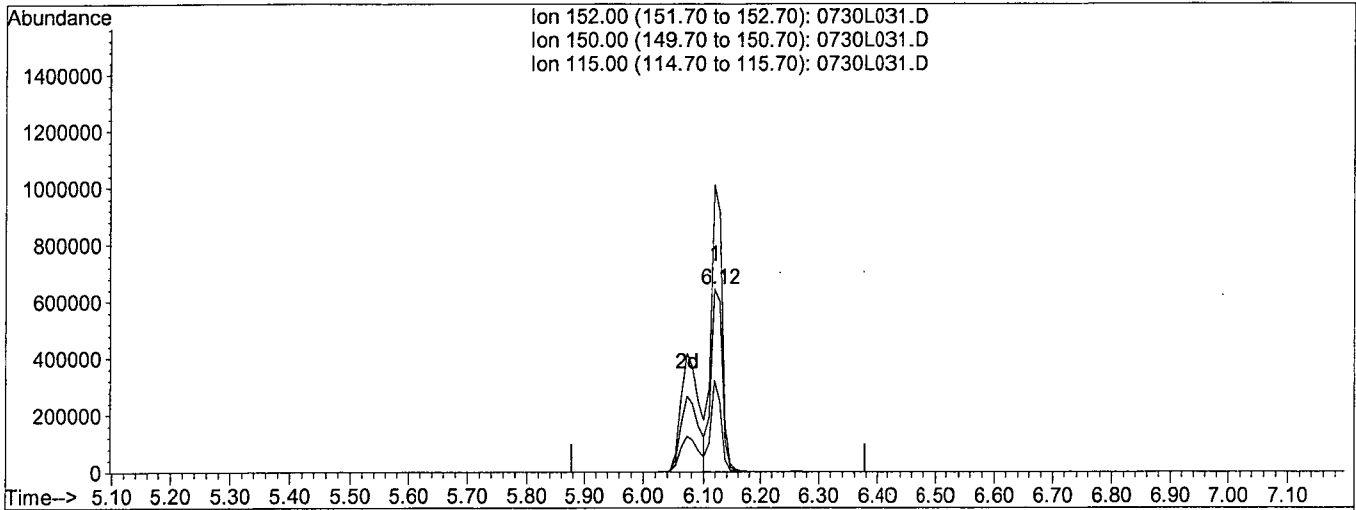


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L031.D
 Acq On : 30 Jul 19 23:19
 Sample : 500ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 31 9:08 2019

Vial: 31
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Multiple Level Calibration



TIC: 0730L031.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.12min 40.0000ppb

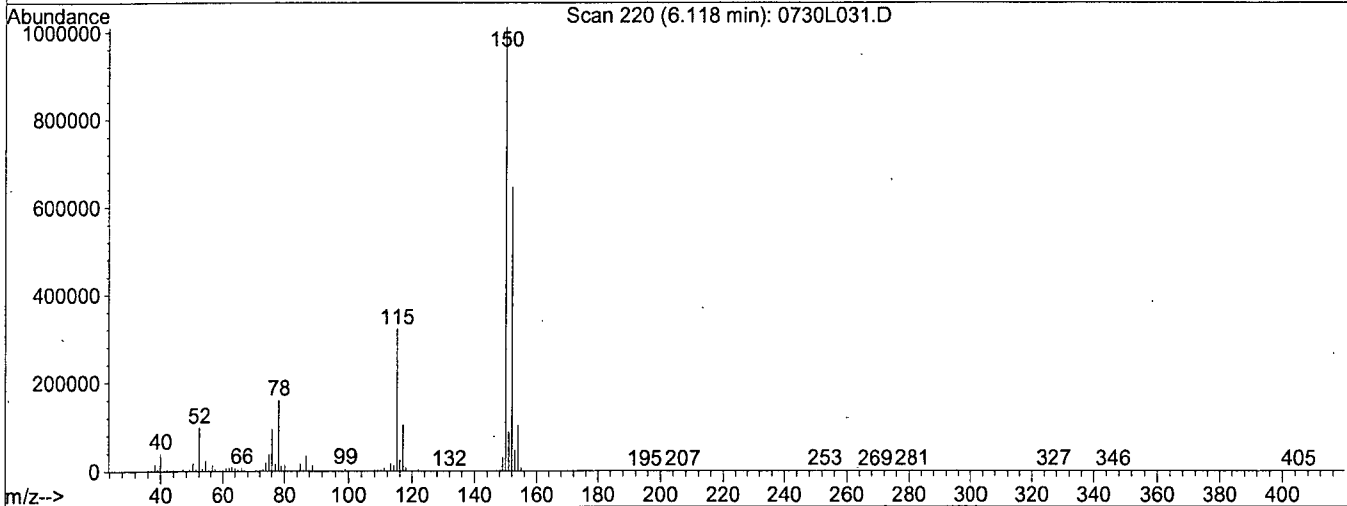
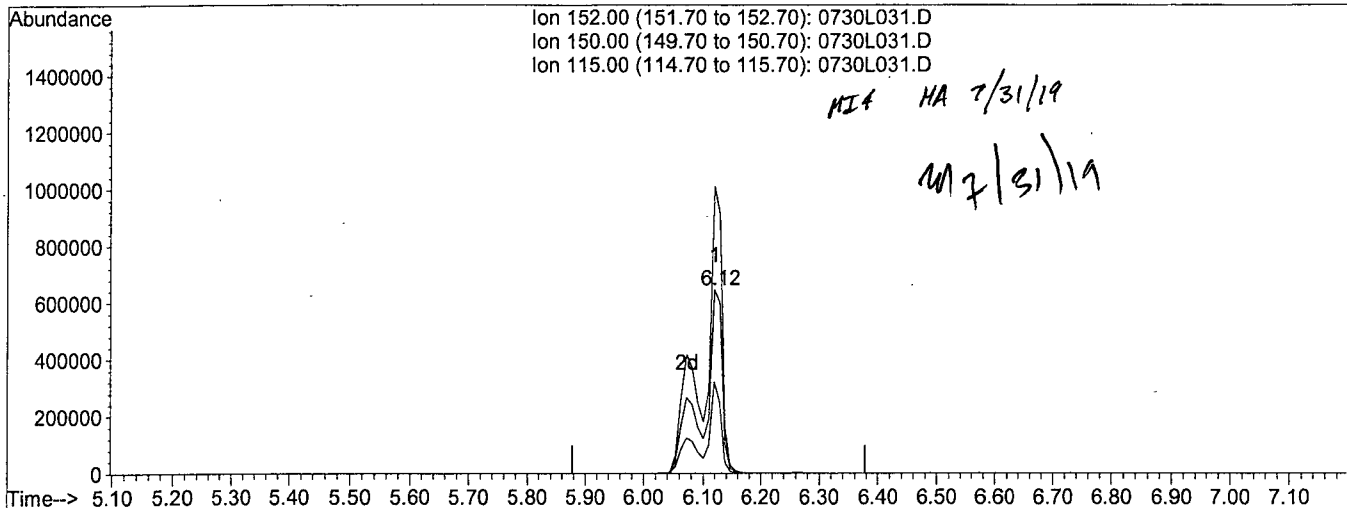
response 873641

Ion	Exp%	Act%
152.00	100	100
150.00	154.60	156.76
115.00	44.10	49.92
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L031.D Vial: 31
 Acq On : 30 Jul 19 23:19 Operator: MA
 Sample : 500ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00
 Quant Time: Jul 31 9:50 2019 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Multiple Level Calibration



TIC: 0730L031.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.12min 40.0000ppb m

response 1430074

Ion	Exp%	Act%
152.00	100	100
150.00	154.60	156.77
115.00	44.10	49.94
0.00	0.00	0.00

ORGANICS
Raw Data

Data File : M:\LINUS\DATA\L190730M\0730L017.D Vial: 17
 Acq On : 30 Jul 19 17:56 Operator: MA
 Sample : AZ95187W10 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 31 10:07 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.14	152	1182144	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.06	136	4594830	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3381595	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7602498	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.87	240	7725860	40.00000	ppb	-0.02
7) Perylene-D12 (IS)	13.62	264	8202905	40.00000	ppb	-0.04

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

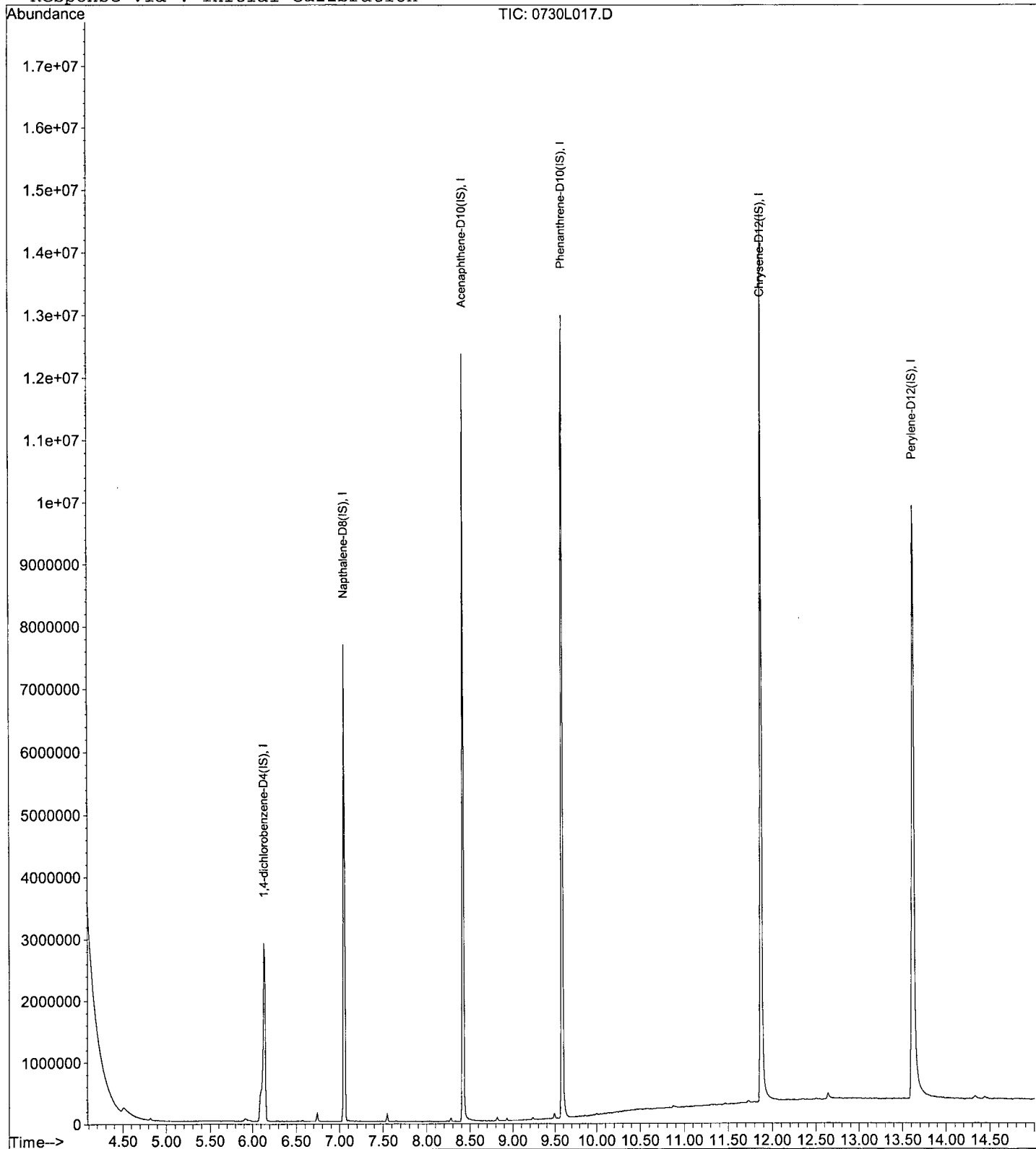
Data File : M:\LINUS\DATA\L190730M\0730L017.D
Acq On : 30 Jul 19 17:56
Sample : AZ95187W10 2/500
Misc :

Vial: 17
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 31 10:07 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L018.D Vial: 18
 Acq On : 30 Jul 19 18:19 Operator: MA
 Sample : AZ95189W36 MS-1 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 31 10:05 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.14	152	1410007	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.06	136	5289148	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3419320	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7721523	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.87	240	8712756	40.00000	ppb	-0.02
7) Perylene-D12 (IS)	13.63	264	10823651	40.00000	ppb	-0.03

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	5.77	45	170821	90.80260	ppb	99

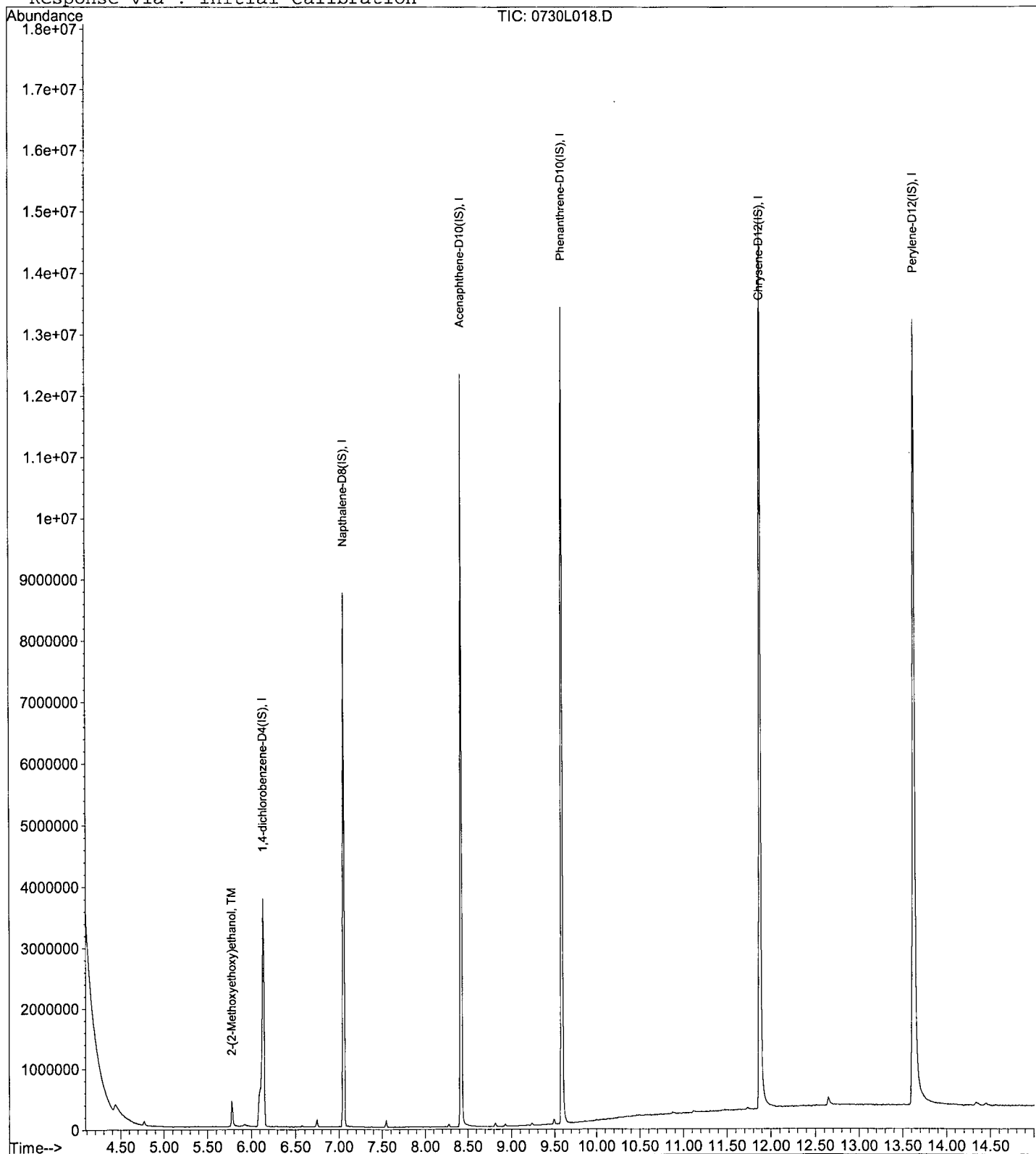
Data File : M:\LINUS\DATA\L190730M\0730L018.D
Acq On : 30 Jul 19 18:19
Sample : AZ95189W36 MS-1 2/500
Misc :

Vial: 18
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 31 10:05 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L019.D Vial: 19
 Acq On : 30 Jul 19 18:42 Operator: MA
 Sample : AZ95189W18 MSD-1 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 31 10:05 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.15	152	1283912	40.00000	ppb	0.02
3) Napthalene-D8 (IS)	7.06	136	4839036	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3412507	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7680947	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.88	240	8479141	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.65	264	9000810	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	5.77	45	158473	92.51206	ppb	98

Quantitation Report

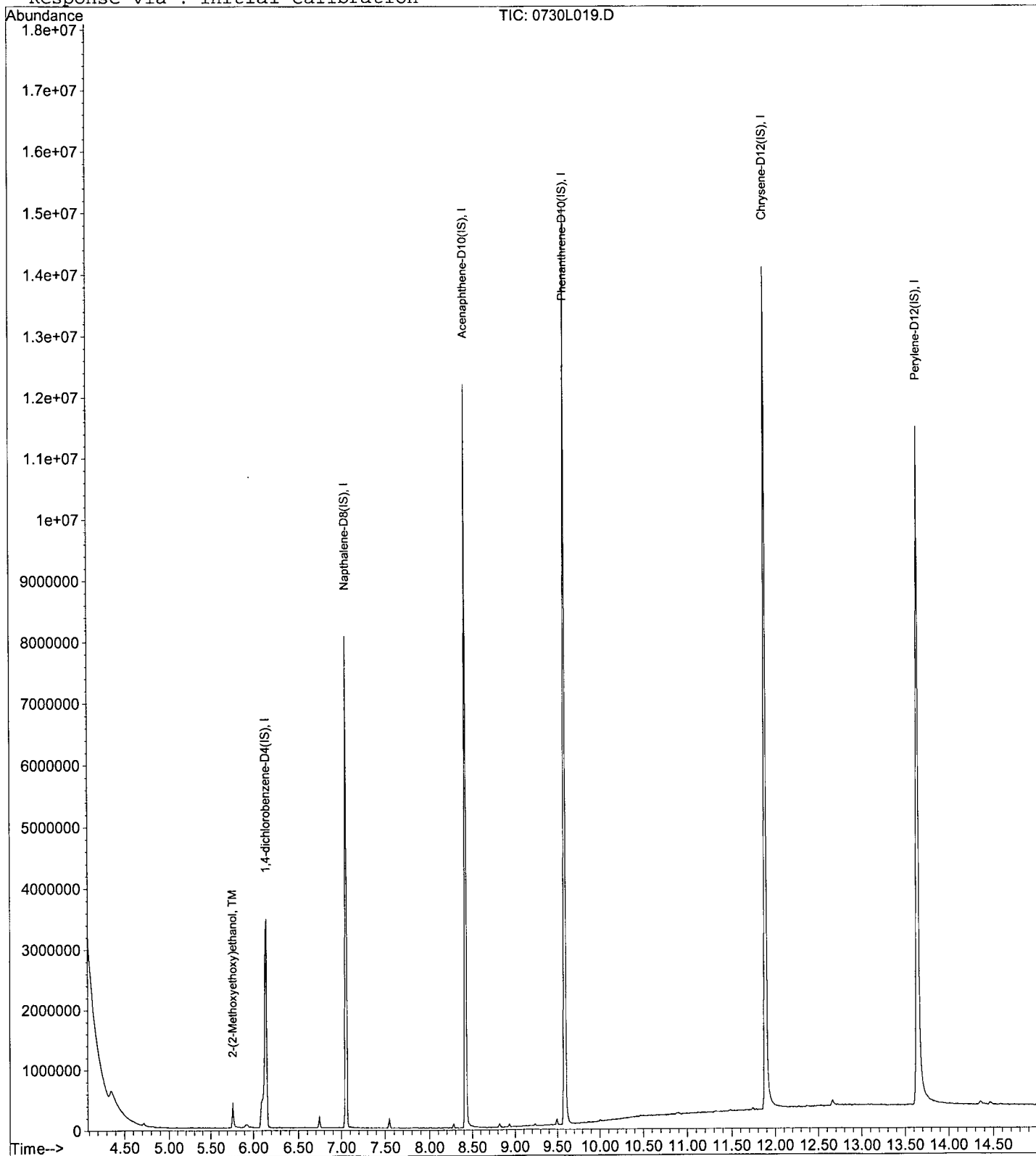
Data File : M:\LINUS\DATA\L190730M\0730L019.D
Acq On : 30 Jul 19 18:42
Sample : AZ95189W18 MSD-1 2/500
Misc :

Vial: 19
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 31 10:05 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L020.D
 Acq On : 30 Jul 19 19:05
 Sample : AZ95189W35 2/500
 Misc :

Vial: 20
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Jul 31 10:08 2019

Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.15	152	1216549	40.00000	ppb	0.02
3) Napthalene-D8 (IS)	7.06	136	4923554	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3533971	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	8085073	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	9204488	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	10444994	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds

Qvalue

Quantitation Report

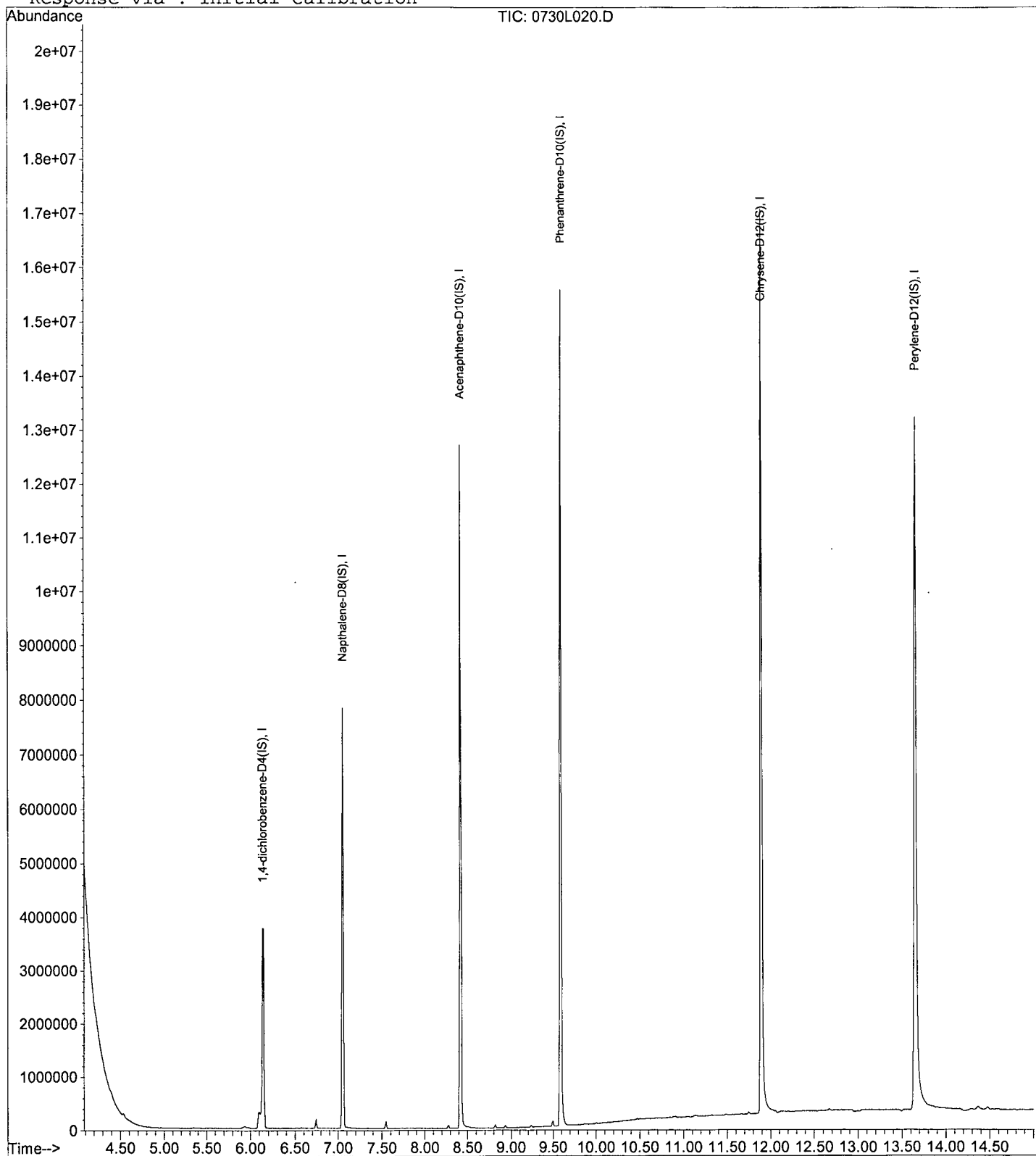
Data File : M:\LINUS\DATA\L190730M\0730L020.D
Acq On : 30 Jul 19 19:05
Sample : AZ95189W35 2/500
Misc :

Vial: 20
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 31 10:08 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L021.D Vial: 21
 Acq On : 30 Jul 19 19:28 Operator: MA
 Sample : AZ95190W06 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 31 10:14 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.15	152	1399210	40.00000	ppb	0.02
3) Napthalene-D8 (IS)	7.06	136	5321439	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3710734	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	8456643	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.90	240	8834765	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.67	264	10808315	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

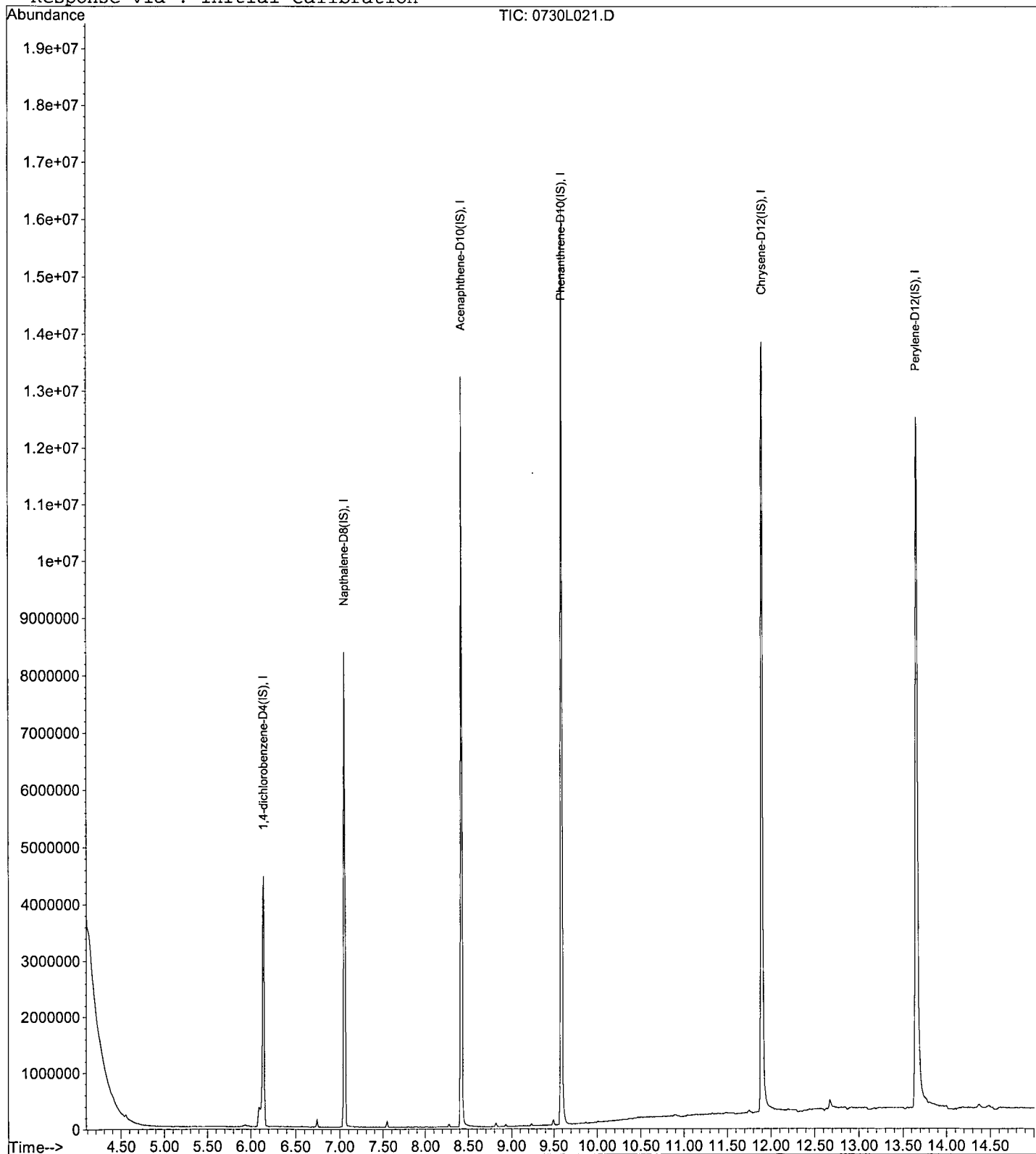
Data File : M:\LINUS\DATA\L190730M\0730L021.D
Acq On : 30 Jul 19 19:28
Sample : AZ95190W06 2/500
Misc :

Vial: 21
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 31 10:14 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L014.D
 Acq On : 30 Jul 19 16:45
 Sample : 190726A BLK 2/500
 Misc :

Vial: 14
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Jul 31 10:06 2019

Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.14	152	1336804	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.06	136	4953764	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3582064	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	8123027	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.90	240	8906228	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.67	264	9831222	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds

Qvalue

Quantitation Report

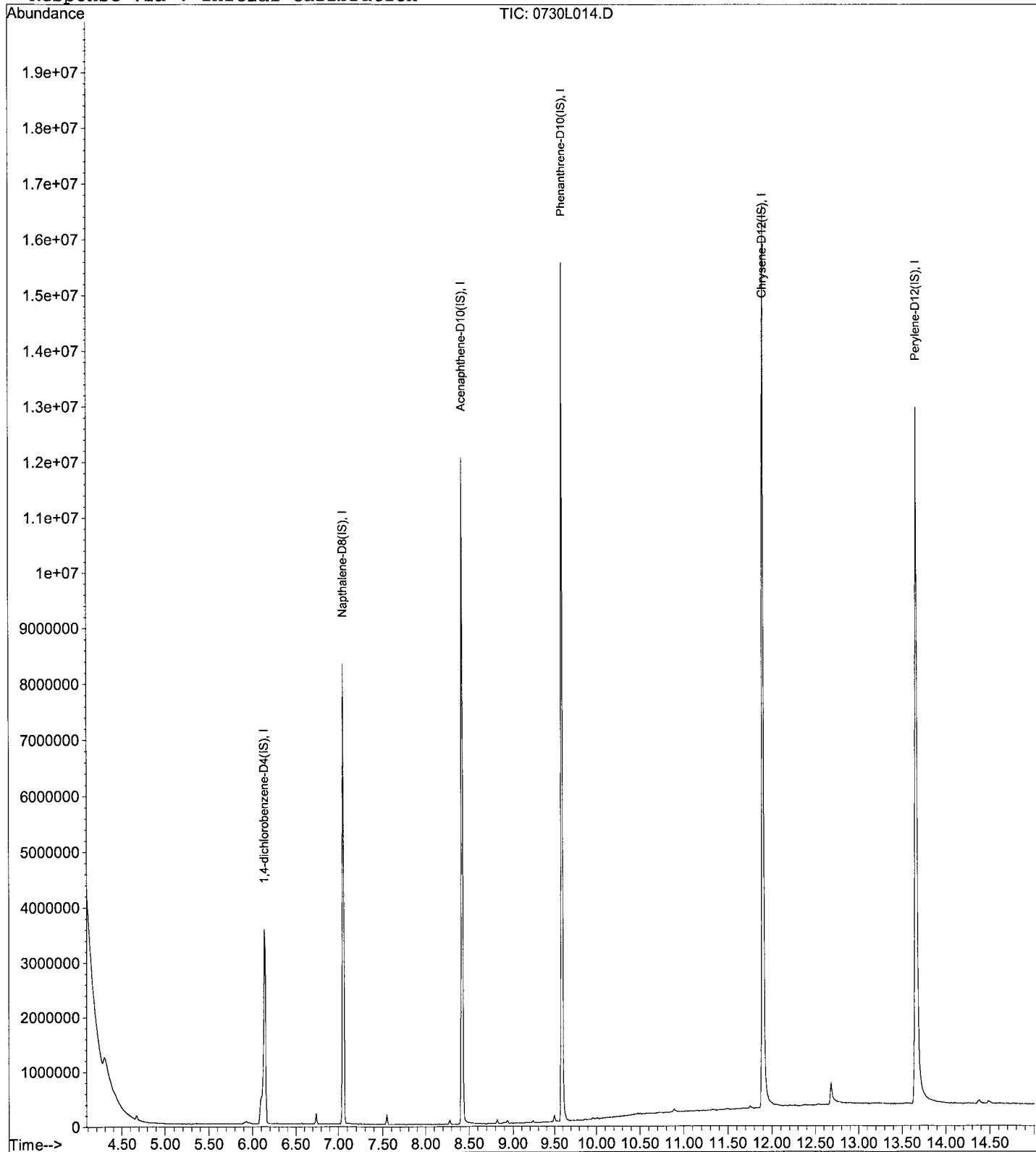
Data File : M:\LINUS\DATA\L190730M\0730L014.D
Acq On : 30 Jul 19 16:45
Sample : 190726A BLK 2/500
Misc :

Vial: 14
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 31 10:06 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L015.D Vial: 15
 Acq On : 30 Jul 19 17:09 Operator: MA
 Sample : 190726A LCS-1 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 31 10:05 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.14	152	1275338	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.06	136	4717275	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3276414	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7472320	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.88	240	8004561	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.64	264	8866056	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	5.77	45	174716	102.67996	ppb	97

Quantitation Report

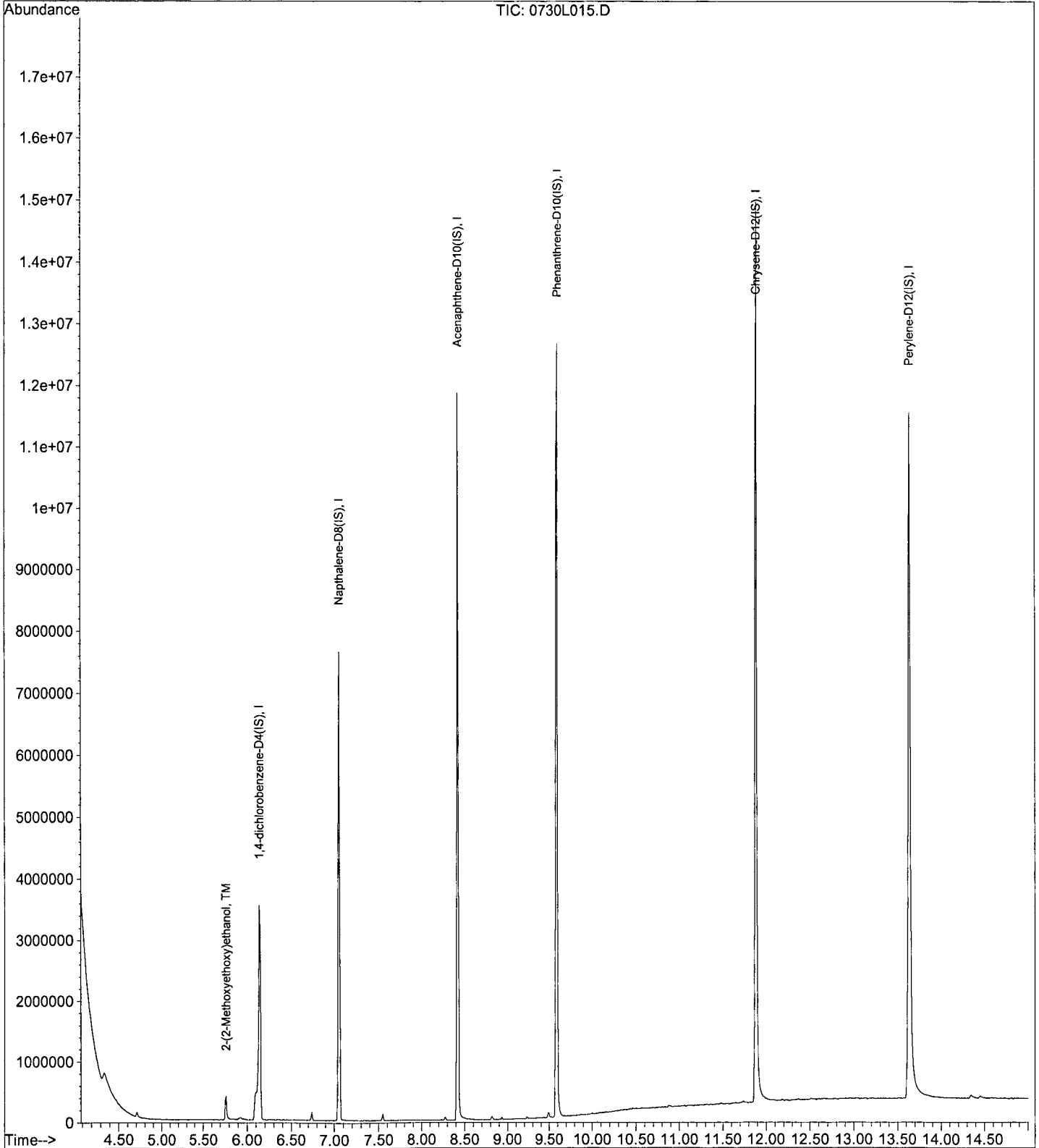
Data File : M:\LINUS\DATA\L190730M\0730L015.D
Acq On : 30 Jul 19 17:09
Sample : 190726A LCS-1 2/500
Misc :

Vial: 15
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 31 10:05 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L016.D
 Acq On : 30 Jul 19 17:32
 Sample : 190726A LCSD-1 2/500
 Misc :

Vial: 16
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Jul 31 10:05 2019

Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.14	152	1099448	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.06	136	4328762	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3177077	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7321662	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.88	240	7997465	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.64	264	10753455	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	5.77	45	177377	120.92077	ppb	100

Quantitation Report

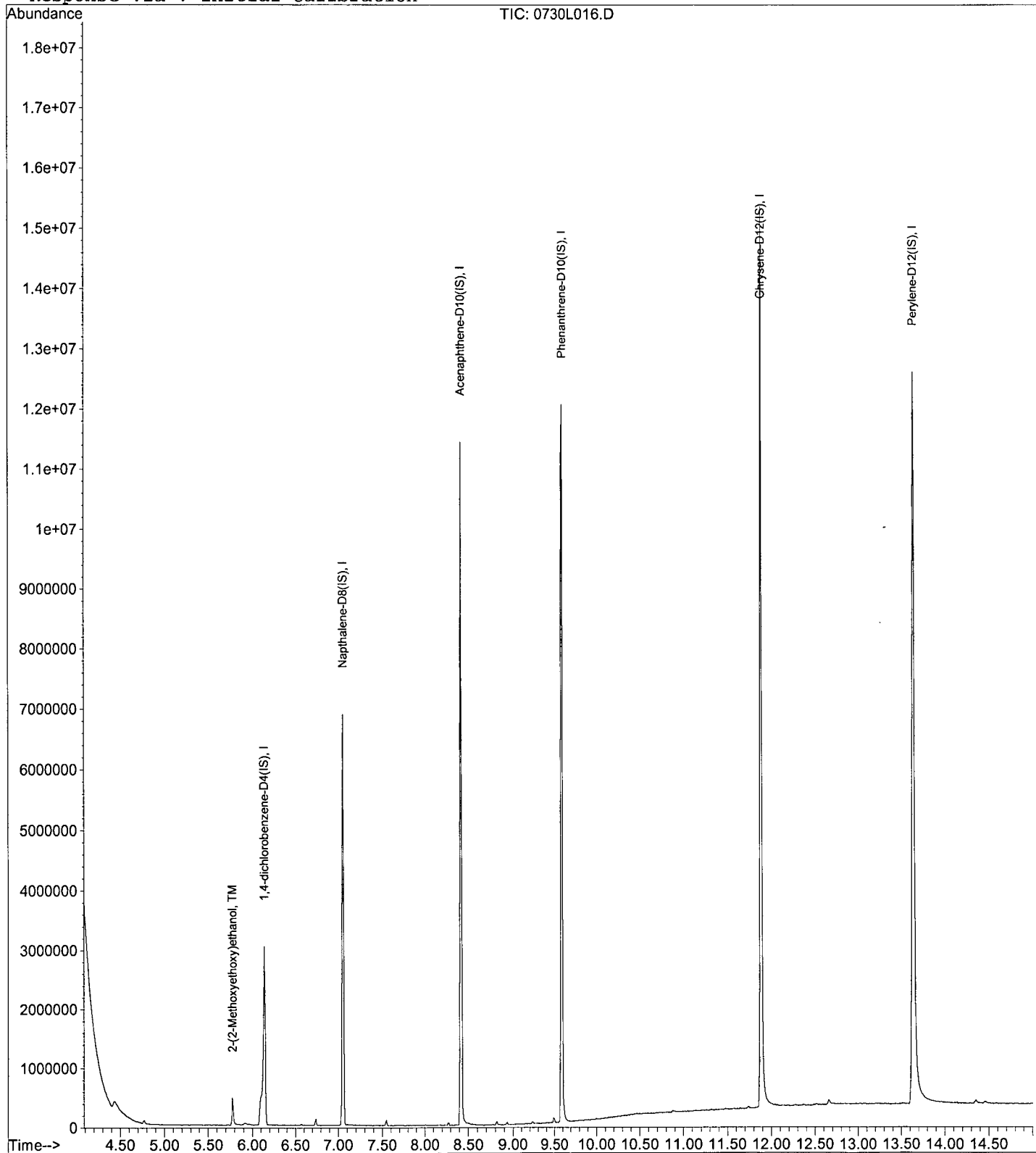
Data File : M:\LINUS\DATA\L190730M\0730L016.D
Acq On : 30 Jul 19 17:32
Sample : 190726A LCSD-1 2/500
Misc :

Vial: 16
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 31 10:05 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Organic Extraction Worksheet

Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	190726A	Extraction Method	MWE2MEE	Units	mL
Spiked ID 1	Diethylene Glycol 1-31-19 EXP 1-31-20		Surrogate ID 1				
Spiked ID 2	2MEE SS 10320ug/mL 8-3-18 exp 8-3-19		Surrogate ID 2				
Spiked ID 3			Surrogate ID 3				
Spiked ID 4			Surrogate ID 4				
Spiked ID 5			Surrogate ID 5				
Spiked ID 6			Sufficient Vol for Matrix QC:				
Spiked ID 7			Ext. Start Time:	07/26/19 8:45			
Spiked ID 8			Ext. End Time:	07/26/19 15:05			
GC Requires Extract By:							
pH1				Water Bath Temp 1 °C			
pH2				Water Bath Temp 2 °C			
pH3				Water Bath Temp 3 °C			

Spiked By: DL

Date 07/26/19

Witnessed By: CFM

Date 07/26/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	190726A Blk			NA	NA	500	2	7	07/26/19 8:45	
						equip				
2	190726A LCS-1	0.040	1	NA	NA	500	2	7	07/26/19 8:45	
						equip				
3	190726A LCSD-1	0.040	1	NA	NA	500	2	7	07/26/19 8:45	
						equip				
4	AZ95187 AZ95187W10			NA	NA	500	2	7	07/26/19 8:45	89570
						equip				
5	AZ95189 MS-1 AZ95189W36	0.040	1	NA	NA	500	2	7	07/26/19 8:45	
						equip				
6	AZ95189 MSD-1 AZ95189W18	0.040	1	NA	NA	500	2	7	07/26/19 8:45	
						equip				
7	AZ95189 AZ95189W35			NA	NA	500	2	7	07/26/19 8:45	89570
						equip				
8	AZ95190 AZ95190W06			NA	NA	500	2	7	07/26/19 8:45	89570
						equip				
9	AZ95329 AZ95329W11			NA	NA	500	2	7	07/26/19 8:45	89593
						equip				
10	AZ95330 AZ95330W10			NA	NA	500	2	7	07/26/19 8:45	89593
						equip				
11	AZ95332 AZ95332W11			NA	NA	500	2	7	07/26/19 8:45	89593
						equip				
12	AZ95334 AZ95334W10			NA	NA	500	2	7	07/26/19 8:45	89593
						equip				
13	AZ95336 AZ95336W10			NA	NA	500	2	7	07/26/19 8:45	89593
						equip				
14	AZ95338 AZ95338W11			NA	NA	500	2	7	07/26/19 8:45	89593
						equip				
15	AZ95419 AZ95419W15			NA	NA	500	2	7	07/26/19 11:20	89607
						equip				
16	AZ95421 AZ95421W15			NA	NA	500	2	7	07/26/19 11:20	89607
						equip				

Solvent and Lot#	
ENVI-Carb Plus 400MG/1ML *	
Reyerible Tube Lot:	11225702
PH Strip	HC863463
Di Water	7/26/19
Dichloromethane	58240
Methanol	59129

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	JP
Date	7/29/19
Time	11:40
Refrigerator	Hobart

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	07/26/19 4:38:03 PM

Reviewed By:

Date

Organic Extraction Worksheet



Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	190726A	Extraction Method	MWE2MEE	Units	mL
Spiked ID 1	Diethylene Glycol 1-31-19 EXP 1-31-20		Surrogate ID 1				
Spiked ID 2	2MEE SS 10320ug/mL 8-3-18 exp 8-3-19		Surrogate ID 2				
Spiked ID 3			Surrogate ID 3				
Spiked ID 4			Surrogate ID 4				
Spiked ID 5			Surrogate ID 5				
Spiked ID 6			Sufficient Vol for Matrix QC:				
Spiked ID 7			Ext. Start Time:	07/26/19 8:45			
Spiked ID 8			Ext. End Time:	07/26/19 15:05			
			GC Requires Extract By:				
			pH1			Water Bath Temp 1 °C	
			pH2			Water Bath Temp 2 °C	
			pH3			Water Bath Temp 3 °C	

Spiked By: DL

Date 07/26/19

Witnessed By: CFM

Date 07/26/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
17	AZ95423 			NA	NA	500	2	7	07/26/19 11:20	89607
					equip					
18	SS 	0.097	2	NA	NA	500	2	7	07/26/19 8:45	
					equip					

Solvent and Lot#	
ENVI-Carb Plus 400MG/1ML *	
Reverible Tube Lot:	11225702
PH Strip	HC863463
Di Water	7/26/19
Dichloromethane	58240
Methanol	59129

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	
Date	
Time	
Refrigerator	

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	07/26/19 4:38:03 PM

Reviewed By:

Date

Injection Log

Directory: M:\LINUS\DATA\190730M\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
13	0730L002.D	1	SV TUNE 7/11/19		30 Jul 19 9:38
3	0730L003.D	1	500ug/ml MEE 04/30/19		30 Jul 19 11:54
4	0730L004.D	1	50ug/ml MEE 04/30/19		30 Jul 19 12:18
5	0730L005.D	1	100ug/ml MEE 04/30/19		30 Jul 19 13:17
6	0730L006.D	1	200ug/ml MEE 04/30/19		30 Jul 19 13:41
7	0730L007.D	1	400ug/ml MEE 04/30/19		30 Jul 19 14:04
8	0730L008.D	1	600ug/ml MEE 04/30/19		30 Jul 19 14:27
9	0730L009.D	1	800ug/ml MEE 04/30/19		30 Jul 19 14:51
10	0730L010.D	1	1000ug/ml MEE 04/30/19		30 Jul 19 15:13
11	0730L011.D	1	SS MEE 04/30/19		30 Jul 19 15:37
13	0730L013.D	1	SV TUNE 07/11/19		30 Jul 19 16:20
14	0730L014.D	1	190726A BLK 2/500		30 Jul 19 16:45
15	0730L015.D	1	190726A LCS-1 2/500		30 Jul 19 17:09
16	0730L016.D	1	190726A LCSD-1 2/500		30 Jul 19 17:32
17	0730L017.D	1	AZ95187W10 2/500		30 Jul 19 17:56
18	0730L018.D	1	AZ95189W36 MS-1 2/500		30 Jul 19 18:19
19	0730L019.D	1	AZ95189W18 MSD-1 2/500		30 Jul 19 18:42
20	0730L020.D	1	AZ95189W35 2/500		30 Jul 19 19:05
21	0730L021.D	1	AZ95190W06 2/500		30 Jul 19 19:28
31	0730L031.D	1	500ug/ml MEE 04/30/19		30 Jul 19 23:19

ORGANICS
Calibration Data

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/24/19
Instrument: Loki

Initials: DP / LCP

0724L15.D 0724L16.D 0724L17.D 0724L18.D 0724L19.D 0724L20.D 0724L21.D 0724L22.D 0724L23.D

	Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	r ²	Q	MRF
1	I Fluorobenzene (IS)																
2	TM Chlorotrifluoroethene		0.0814	0.0729	0.0748	0.0793	0.0864	0.0836	0.0849	0.0721		0.08	7.0	TM			
3	TML Dichlorodifluoromethane		0.0739	0.0647	0.0884	0.0572	0.0697	0.0581	0.0584	0.0558		0.07	17	TML	0.999		
4	TM Freon 114		0.1882	0.1780	0.1849	0.1903	0.1844	0.1675	0.1695	0.1623		0.18	5.9	TM			
5	TM**L Chloromethane		0.3201	0.2594	0.2397	0.2051	0.2066	0.1813	0.1769	0.1593		0.22	24	TM**L	0.998		
6	TM* Vinyl chloride		0.2492	0.2407	0.2178	0.1970	0.2272	0.2058	0.1955	0.1829		0.21	11	TM*			
7	TM 2-Chloro-1,1,1-trifluoroethane		2.819	2.749	2.780	2.847	2.951	2.896	2.866	2.446		2.8	5.5	TM			
8	TML Bromomethane	0.2250	0.1710	0.1687	0.1394	0.1194	0.1296					0.16	24	TML	0.996		
9	TML Chloroethane		0.2197	0.1516	0.1669	0.1353	0.1420	0.1231	0.1186	0.1032		0.15	25	TML	0.996		
10	TM Dichlorofluoromethane		0.3791	0.3404	0.3654	0.4016	0.3824	0.3456	0.3467	0.3217		0.36	7.3	TM			
11	TM Trichlorofluoromethane		0.2296	0.2723	0.2355	0.2304	0.2591	0.2255	0.2201	0.2112		0.24	8.6	TM			
12	TM Diethyl ether													TM			
13	TM Acrolein		0.0137	0.0118	0.0113	0.0144	0.0136	0.0137	0.0132	0.0113		0.01	9.6	TM			
14	TML Acetone		0.4071	0.2200	0.1573	0.1169	0.0962	0.0793	0.0679	0.0608		0.15	77	TML	0.998		
15	TM Freon-113		0.2087	0.1928	0.2187	0.2326	0.2089	0.1827	0.1956	0.1909		0.20	8.1	TM			
16	TM* 1,1-DCE		0.2171	0.2254	0.2069	0.2021	0.1955	0.1755	0.1918	0.1768		0.20	8.9	TM*			
17	TML t-Butanol	0.0334	0.0226	0.0221	0.0231	0.0225	0.0203	0.0195	0.0209			0.02	19	TML	0.992		
18	TML 2-Propanol		0.0201	0.0178	0.0150	0.0134	0.0121	0.0132	0.0133			0.01	19	TML	0.996		
19	TM Acetonitrile		0.0292	0.0293	0.0284	0.0279	0.0281	0.0252	0.0270	0.0260		0.03	5.3	TM			
20	TML Methyl Acetate		0.2261	0.2553	0.2118	0.2114	0.1750	0.1658	0.1663	0.1486		0.20	19	TML	0.998		
21	TMQ Iodomethane		0.0440	0.0288	0.0416	0.0521	0.0675	0.0939	0.1319	0.1779		0.08	65	TMQ	0.999		
22	TM Acrylonitrile		0.0833	0.1081	0.0939	0.0937	0.0942	0.0877	0.0868	0.0805		0.09	9.4	TM			
23	TM Methylene chloride		0.2449	0.2687	0.2453	0.2632	0.2455	0.2117	0.2154	0.1949		0.24	11	TM			
24	TM Carbon disulfide		0.6324	0.6121	0.5760	0.6141	0.5667	0.5104	0.5094	0.4845		0.56	9.9	TM			
25	TM Methyl t-butyl ether (MtBE)		0.6260	0.5918	0.5729	0.6293	0.5949	0.5454	0.5793	0.5646		0.59	4.9	TM			
26	TM Trans-1,2-DCE		0.1982	0.2381	0.2388	0.2365	0.2351	0.2028	0.2147	0.2005		0.22	8.3	TM			
27	TM Diisopropyl Ether		0.4528	0.4201	0.4371	0.5140	0.4714	0.4196	0.4736	0.4666		0.46	6.9	TM			
28	TM** 2,2-Dichloro-1,1,1-trifluoroethane													TM**			
29	TM** 1,1-DCA		0.4044	0.3483	0.3607	0.4092	0.3695	0.3238	0.3433	0.3177		0.36	9.4	TM**			
30	TM Vinyl Acetate		0.4528	0.4201	0.4371	0.5140	0.4714	0.4196	0.4736	0.4666		0.46	6.9	TM			
31	TM Ethyl tert Butyl Ether		0.3356	0.3811	0.4049	0.4250	0.4418	0.3878	0.4252	0.4568		0.41	9.5	TM			
32	TM MEK (2-Butanone)		0.0338	0.0380	0.0297	0.0357	0.0308	0.0316	0.0302	0.0279		0.03	10	TM			
33	TM Cis-1,2-DCE		0.2728	0.2652	0.2372	0.2340	0.2306	0.2041	0.2270	0.2145		0.24	9.9	TM			
34	TM 2,2-Dichloropropane		0.2550	0.3272	0.2520	0.2995	0.2663	0.2336	0.2567	0.2377		0.27	12	TM			
35	TM 2-Methylpentane													TM			

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Initial Cal. Date: 07/24/19

Matrix: _____

Instrument: Loki

Initials: DP

		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	Q	MRF
36	TM	3-Methylpentane													TM		
37	TM*	Chloroform		0.4102	0.3560	0.4086	0.4286	0.3970	0.3651	0.3755	0.3529		0.39	7.3	TM*		
38	TM	Bromochloromethane		0.1149	0.1402	0.1510	0.1538	0.1451	0.1309	0.1259	0.1045		0.13	13	TM		
39	S	Dibromofluoromethane(S)	0.4886	0.4703	0.4153	0.4400	0.4699	0.4590	0.4183	0.4399	0.3839		0.44	7.4	S		
40	TM	1,1,1-TCA		0.3188	0.3273	0.3228	0.3510	0.3286	0.3038	0.3285	0.3104		0.32	4.4	TM		
41	TM	Cyclohexane		0.0876	0.1431	0.1184	0.1147	0.1115	0.1087	0.1233	0.1234		0.12	14	TM		
42	TM	1,1-Dichloropropene		0.2242	0.2123	0.1895	0.2233	0.2130	0.2078	0.2318	0.2336		0.22	6.7	TM		
43	TM	2,2,4-Trimethylpentane		0.3731	0.3521	0.3211	0.3482	0.3583	0.3404	0.3903	0.4112		0.36	7.9	TM		
44	S	1,2-DCA-D4(S)	0.5208	0.4633	0.4317	0.4417	0.4813	0.4669	0.4327	0.4576	0.3960		0.45	7.8	S		
45	TM	Carbon Tetrachloride		0.3059	0.2690	0.3197	0.3588	0.3220	0.2953	0.3159	0.2981		0.31	8.3	TM		
46	TM	Tert Amyl Methyl Ether		0.4122	0.3928	0.3903	0.4143	0.4262	0.4233	0.4679	0.4628		0.42	6.8	TM		
47	TM	Methylcyclopentane													TM		
48	TM	1,2-DCA		0.2691	0.2850	0.3114	0.3047	0.3047	0.2749	0.2846	0.2707		0.29	5.8	TM		
49	TM	Benzene		0.6819	0.7237	0.7062	0.7524	0.7753	0.6847	0.7391	0.7121		0.72	4.5	TM		
50	TM	TCE		0.2441	0.2302	0.2276	0.2699	0.2607	0.2355	0.2461	0.2295		0.24	6.4	TM		
51	TM	2-Pentanone		0.1061	0.1089	0.1187	0.1197	0.1208	0.1126	0.1176	0.1146		0.11	4.6	TM		
52	TM*	1,2-Dichloropropane		0.2070	0.2131	0.1843	0.1977	0.1960	0.1743	0.1878	0.1789		0.19	7.0	TM*		
53	TM	Bromodichloromethane		0.2668	0.2986	0.3042	0.3305	0.3133	0.2783	0.3045	0.2772		0.30	7.2	TM		
54	TM	Methyl Cyclohexane		0.1685	0.1983	0.1990	0.2101	0.2231	0.2128	0.2409	0.2582		0.21	13	TM		
55	TM	Dibromomethane		0.1124	0.1347	0.1654	0.1708	0.1508	0.1409	0.1507	0.1374		0.15	13	TM		
56	TML	2-Chloroethyl vinyl ether				0.0016	0.0048	0.0065	0.0072	0.0072			0.01	43	TML	0.999	
57	TM	MIBK (methyl isobutyl ketone)		0.1739	0.1410	0.1472	0.1466	0.1599	0.1347	0.1477	0.1470		0.15	8.0	TM		
58	TM	1-Bromo-2-chloroethane		0.2853	0.2533	0.2832	0.2884	0.2809	0.2547	0.2797	0.2602		0.27	5.3	TM		
59	TM	Cis-1,3-Dichloropropene		0.2742	0.3067	0.2822	0.2775	0.2847	0.2625	0.2895	0.2943		0.28	4.7	TM		
60	TM*	Toluene		0.7131	0.7249	0.6912	0.8420	0.8263	0.8108	0.8444	0.8035		0.78	7.9	TM*		
61	TM	Trans-1,3-Dichloropropene		0.2627	0.2094	0.2138	0.2773	0.2584	0.2502	0.2646	0.2613		0.25	9.9	TM		
62	TM	1,1,2-TCA		0.1962	0.1735	0.1701	0.1886	0.1765	0.1586	0.1623	0.1468		0.17	9.3	TM		
63	TM	2-Hexanone		0.0717	0.0806	0.0870	0.0959	0.0887	0.0852	0.0977	0.1023		0.09	11	TM		
64	I	Chlorobenzene-D5 (IS)															
65	S	Toluene-D8(S)	1.575	1.432	1.295	1.387	1.593	1.580	1.582	1.688	1.539		1.5	8.1	S		
66	TM	1,2-EDB		0.1874	0.2239	0.2310	0.2611	0.2320	0.2295	0.2459	0.2275		0.23	9.1	TM		
67	TM	Tetrachloroethene		0.3510	0.3573	0.3134	0.3705	0.3565	0.3135	0.3406	0.3231		0.34	6.4	TM		
68	TM	1-Chlorohexane		0.1915	0.1937	0.1740	0.2146	0.2201	0.2127	0.2537	0.2701		0.22	15	TM		
69	TM	1,1,1,2-Tetrachloroethane		0.3052	0.2905	0.3121	0.3432	0.2893	0.2694	0.2887	0.2606		0.29	8.7	TM		
70	TM	m&p-Xylene		0.5919	0.5203	0.5515	0.6712	0.6794	0.6846	0.7960	0.7895		0.66	15	TM		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/24/19
Instrument: Loki

Initials: DP

		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	Q	MRF
71	TML	o-Xylene		0.1824	0.2783	0.2704	0.3404	0.3205	0.3278	0.3837	0.3888		0.31	22	TML	0.999	
72	TML	Styrene		0.3965	0.4000	0.4500	0.5318	0.5544	0.5727	0.6869	0.7055		0.54	22	TML	0.999	
73	S	4-Bromofluorobenzene(S)	0.5257	0.4587	0.4310	0.4437	0.5416	0.5563	0.5718	0.6085	0.5893		0.53	12	S		
74	TM	1,3-Dichloropropane		0.3399	0.3475	0.3696	0.3886	0.3564	0.3317	0.3719	0.3507		0.36	5.2	TM		
75	TM	Dibromochloromethane		0.2404	0.2838	0.3155	0.3388	0.3106	0.2860	0.3094	0.2886		0.30	9.9	TM		
76	TM**	Chlorobenzene		0.6569	0.6157	0.6016	0.6843	0.6664	0.6250	0.6670	0.6360		0.64	4.5	TM**		
77	TM*	Ethylbenzene		0.7568	0.7300	0.7609	0.8600	0.8684	0.8902	1.014	1.001		0.86	13	TM*		
78	TM**	Bromoform		0.2438	0.2373	0.2391	0.2715	0.2550	0.2297	0.2366	0.2380		0.24	5.5	TM**		
79	I	1,4-Dichlorobenzene-D (IS)															
80	TM	Isopropylbenzene		0.6520	0.7380	0.7564	0.8101	0.8580	0.7583	0.8852	0.8048		0.78	9.4	TM		
81	TM**	1,1,2,2-Tetrachloroethane		0.5590	0.5924	0.5626	0.5947	0.5320	0.4249	0.4723	0.4249		0.52	14	TM**		
82	TM	1,2,3-Trichloropropane		0.1671	0.2104	0.2136	0.2108	0.1925	0.1595	0.1639	0.1472		0.18	15	TM		
83	TML	t-1,4-Dichloro-2-Butene		0.0088	0.0146	0.0649	0.0818	0.0713	0.0675	0.0713	0.0762		0.06	50	TML	0.999	
84	TM	Bromobenzene		0.5967	0.4998	0.5295	0.5782	0.5618	0.4866	0.5070	0.4441		0.53	9.7	TM		
85	TM	n-Propylbenzene		1.471	1.353	1.426	1.663	1.681	1.522	1.704	1.558		1.5	8.3	TM		
86	TM	4-Ethyltoluene		1.311	1.235	1.184	1.381	1.488	1.402	1.595	1.449		1.4	9.8	TM		
87	TM	2-Chlorotoluene		0.5371	0.5487	0.5254	0.6448	0.6364	0.5882	0.6493	0.5769		0.59	8.5	TM		
88	TM	1,3,5-Trimethylbenzene		1.176	0.9448	1.059	1.295	1.362	1.284	1.425	1.257		1.2	13	TM		
89	TM	4-Chlorotoluene		0.2383	0.2079	0.2441	0.2254	0.2525	0.2301	0.2547	0.2293		0.24	6.6	TM		
90	TML	Tert-Butylbenzene		0.9169	0.8831	0.9219	1.251	1.131	0.9786	1.287	1.230		1.1	16	TML	0.998	
91	TM	1,2,4-Trimethylbenzene		1.046	0.9905	0.9534	1.127	1.231	1.195	1.406	1.288		1.2	13	TM		
92	TM	Sec-Butylbenzene		1.137	1.205	1.225	1.517	1.518	1.452	1.629	1.519		1.4	13	TM		
93	TM	p-Isopropyltoluene		1.047	1.091	1.149	1.335	1.439	1.335	1.495	1.428		1.3	13	TM		
94	TML	Benzyl Chloride		0.4975	0.4343	0.3947	0.3563	0.3673	0.2941	0.3308	0.3534		0.38	17	TML	0.998	
95	TM	1,3-DCB		0.8070	0.8988	0.8559	1.024	0.9776	0.8437	0.9398	0.8594		0.90	8.2	TM		
96	TM	1,4-DCB		0.9555	1.018	0.9987	1.070	1.034	0.8871	0.9838	0.8984		0.98	6.5	TM		
97	TM	n-Butylbenzene		0.8080	0.8251	0.8290	0.9550	1.022	0.9359	1.120	1.112		0.95	13	TM		
98	TM	1,2-DCB		0.9653	0.8765	0.8936	1.009	0.9542	0.8104	0.9297	0.8519		0.91	7.2	TM		
99	TM	Hexachloroethane		0.3835	0.3173	0.3484	0.3256	0.3081	0.2787	0.2765	0.2677		0.31	13	TM		
100	TML	1,2-Dibromo-3-chloropropane		0.0721	0.1238	0.1098	0.1043	0.0877	0.0836	0.0939	0.0800		0.09	18	TML	0.996	
101	TML	1,2,4-Trichlorobenzene		0.3486	0.4256	0.4875	0.5345	0.5173	0.4890	0.6008	0.5920		0.50	17	TML	0.999	
102	TML	Hexachlorobutadiene		0.2560	0.1215	0.1175	0.1356	0.1261	0.1100	0.1169	0.1118		0.14	36	TML	1.000	
103	TML	Naphthalene		0.7810	0.8014	0.8179	0.8426	0.8799	0.8998	1.133	1.250		0.93	19	TML	0.997	
104	TM	1,2,3-Trichlorobenzene		0.3854	0.4773	0.4813	0.5184	0.5440	0.5113	0.6352	0.6082		0.52	15	TM		
105																	

Data File : M:\LOKI\DATA\190724\0724L15.D
 Acq On : 24 Jul 19 15:18
 Sample : 0.3ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 4
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	228544	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	199232	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	97600	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	22334	5.5172	ppb	0.00
Spiked Amount	25.000		Recovery	=	22.068%	
44) 1,2-DCA-D4(S)	5.25	65	23807	5.7278	ppb	0.00
Spiked Amount	25.000		Recovery	=	22.912%	
65) Toluene-D8(S)	7.63	98	62762	5.1848	ppb	0.00
Spiked Amount	25.000		Recovery	=	20.740%	
73) 4-Bromofluorobenzene(S)	10.53	95	20946	5.0046	ppb	0.00
Spiked Amount	25.000		Recovery	=	20.020%	
Target Compounds						Qvalue
8) Bromomethane	1.31	94	617	0.3037	ppb	# 60
17) t-Butanol	2.62	59	3053	9.5028	ppb	# 92

Quantitation Report

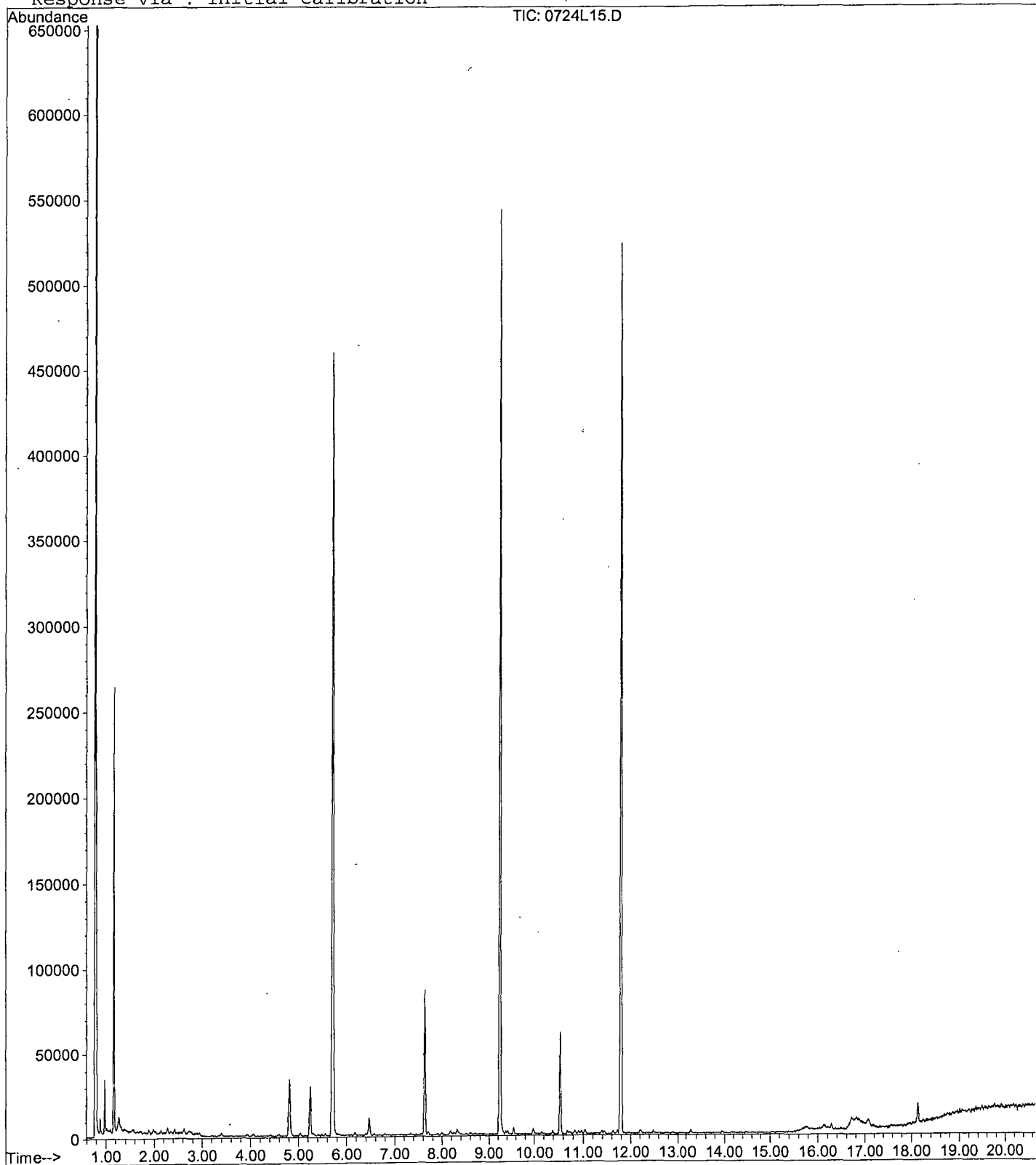
Data File : M:\LOKI\DATA\190724\0724L15.D
Acq On : 24 Jul 19 15:18
Sample : 0.3ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 4
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L16.D
 Acq On : 24 Jul 19 15:47
 Sample : 0.5ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 5
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.71	96	244160	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	220672	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	107432	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
39) Dibromofluoromethane(S)	4.81	111	22968	5.3109	ppb	0.00
Spiked Amount 25.000			Recovery =	21.244%		
44) 1,2-DCA-D4(S)	5.24	65	22625	5.0953	ppb	0.00
Spiked Amount 25.000			Recovery =	20.380%		
65) Toluene-D8(S)	7.63	98	63183	4.7124	ppb	0.00
Spiked Amount 25.000			Recovery =	18.848%		
73) 4-Bromofluorobenzene(S)	10.54	95	20244	4.3669	ppb	0.00
Spiked Amount 25.000			Recovery =	17.468%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chlorotrifluoroethene	0.89	116	3974	5.1238	ppb	99
3) Dichlorodifluoromethane	0.91	87	361	-0.2766	ppb #	60
4) Freon 114	0.99	85	919	0.5282	ppb	99
5) Chloromethane	1.02	50	1563	-0.8096	ppb #	87
6) Vinyl chloride	1.09	62	1217	0.5809	ppb	94
7) 2-Chloro-1,1,1-trifluoroet	1.17	118	137645	5.0440	ppb	99
8) Bromomethane	1.30	94	835	0.4500	ppb #	70
9) Chloroethane	1.39	64	1073	-1.1846	ppb #	77
10) Dichlorofluoromethane	1.54	67	1851	0.5259	ppb	98
11) Trichlorofluoromethane	1.57	103	1121	0.4875	ppb	86
13) Acrolein	1.90	56	3354	26.7188	ppb	89
14) Acetone	2.03	43	1988	-1.1379	ppb #	81
15) Freon-113	2.00	101	1019	0.5118	ppb	81
16) 1,1-DCE	1.98	96	1060	0.5457	ppb #	71
17) t-Butanol	2.62	59	5529	21.3344	ppb	94
18) 2-Propanol	2.19	45	982	5.2535	ppb	89
19) Acetonitrile	2.28	41	7141	26.4708	ppb #	87
20) Methyl Acetate	2.35	43	1104	-0.8873	ppb #	62
21) Iodomethane	2.09	142	215	1.9586	ppb #	42
22) Acrylonitrile	2.69	53	407	0.4578	ppb #	76
23) Methylene chloride	2.43	84	1196	0.5185	ppb #	71
24) Carbon disulfide	2.15	76	3088	0.5614	ppb #	89
25) Methyl t-butyl ether (MtBE)	2.75	73	3057	0.5323	ppb #	80
26) Trans-1,2-DCE	2.72	96	968	0.4493	ppb #	62
27) Diisopropyl Ether	3.40	45	2211	0.4955	ppb #	85
29) 1,1-DCA	3.22	63	1975	0.5623	ppb	88
30) Vinyl Acetate	3.40	45	2211	0.4955	ppb #	85
31) Ethyl tert Butyl Ether	3.93	59	1639	0.4120	ppb #	77
32) MEK (2-Butanone)	4.15	43	165	0.5244	ppb #	44
33) Cis-1,2-DCE	4.08	96	1332	0.5787	ppb #	76
34) 2,2-Dichloropropane	4.04	77	1245	0.4792	ppb #	76
37) Chloroform	4.58	83	2003	0.5303	ppb	90
38) Bromochloromethane	4.41	128	561	0.4310	ppb #	48
40) 1,1,1-TCA	4.79	97	1557	0.4922	ppb	98
41) Cyclohexane	4.86	41	428	0.3767	ppb #	52
42) 1,1-Dichloropropene	5.03	75	1095	0.5169	ppb #	80
43) 2,2,4-Trimethylpentane	5.49	57	1822	0.5156	ppb #	79
45) Carbon Tetrachloride	5.02	117	1494	0.4925	ppb	79
46) Tert Amyl Methyl Ether	5.55	73	2013	0.4864	ppb #	80

(#) = qualifier out of range (m) = manual integration
 0724L16.D L0724W.M Thu Jul 25 10:22:08 2019

Data File : M:\LOKI\DATA\190724\0724L16.D
 Acq On : 24 Jul 19 15:47
 Sample : 0.5ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 5
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) 1,2-DCA	5.35	62	1314	0.4670	ppb	# 72
49) Benzene	5.31	78	3330	0.4723	ppb	# 90
50) TCE	6.17	130	1192	0.5024	ppb	# 80
51) 2-Pentanone	6.47	43	25917	23.1006	ppb	100
52) 1,2-Dichloropropane	6.44	63	1011	0.5381	ppb	# 83
53) Bromodichloromethane	6.80	83	1303	0.4497	ppb	# 81
54) Methyl Cyclohexane	6.40	83	823	0.3940	ppb	80
55) Dibromomethane	6.56	93	549	0.3867	ppb	77
57) MIBK (methyl isobutyl ket	7.55	43	849	0.5805	ppb	# 70
58) 1-Bromo-2-chloroethane	7.14	63	1393	0.5221	ppb	# 65
59) Cis-1,3-Dichloropropene	7.34	75	1339	0.4829	ppb	89
60) Toluene	7.71	91	3482	0.4559	ppb	99
61) Trans-1,3-Dichloropropene	7.99	75	1283	0.5261	ppb	# 78
62) 1,1,2-TCA	8.18	83	958	0.5717	ppb	86
63) 2-Hexanone	8.51	43	350	0.4044	ppb	# 29
66) 1,2-EDB	8.70	107	827	0.4078	ppb	# 79
67) Tetrachloroethene	8.32	166	1549	0.5150	ppb	# 86
68) 1-Chlorohexane	9.29	91	845	0.4426	ppb	# 83
69) 1,1,1,2-Tetrachloroethane	9.37	131	1347	0.5175	ppb	81
70) m&p-Xylene	9.54	91	5225	0.8961	ppb	94
71) o-Xylene	9.98	106	805	1.2756	ppb	83
72) Styrene	9.98	104	1750	1.6452	ppb	83
74) 1,3-Dichloropropane	8.36	76	1500	0.4760	ppb	93
75) Dibromochloromethane	8.60	129	1061	0.4052	ppb	81
76) Chlorobenzene	9.27	112	2899	0.5099	ppb	98
77) Ethylbenzene	9.42	91	3340	0.4399	ppb	84
78) Bromoform	10.17	173	1076	0.4998	ppb	93
80) Isopropylbenzene	10.39	105	1401	0.4165	ppb	# 36
81) 1,1,2,2-Tetrachloroethane	10.72	83	1201	0.5371	ppb	# 68
82) 1,2,3-Trichloropropane	10.75	110	359	0.4562	ppb	79
83) t-1,4-Dichloro-2-Butene	10.77	53	19	0.8744	ppb	# 30
84) Bromobenzene	10.68	156	1282	0.5677	ppb	73
85) n-Propylbenzene	10.84	91	3161	0.4754	ppb	88
86) 4-Ethyltoluene	10.96	105	2816	0.4746	ppb	96
87) 2-Chlorotoluene	10.90	91	1154	0.4564	ppb	95
88) 1,3,5-Trimethylbenzene	11.04	105	2527	0.4799	ppb	# 76
89) 4-Chlorotoluene	11.03	126	512	0.5064	ppb	# 51
90) Tert-Butylbenzene	11.39	119	1970	1.0340	ppb	# 74
91) 1,2,4-Trimethylbenzene	11.44	105	2247	0.4529	ppb	85
92) Sec-Butylbenzene	11.63	105	2443	0.4060	ppb	98
93) p-Isopropyltoluene	11.79	119	2249	0.4057	ppb	# 68
94) Benzyl Chloride	11.97	91	1069	1.1575	ppb	# 79
95) 1,3-DCB	11.72	146	1734	0.4479	ppb	# 78
96) 1,4-DCB	11.81	146	2053	0.4872	ppb	98
97) n-Butylbenzene	12.23	91	1736	0.4249	ppb	95
98) 1,2-DCB	12.20	146	2074	0.5296	ppb	93
99) Hexachloroethane	12.49	201	824	0.6122	ppb	# 73
100) 1,2-Dibromo-3-chloropropan	13.03	75	155	-0.8326	ppb	# 1
101) 1,2,4-Trichlorobenzene	13.96	180	749	1.1349	ppb	# 21
102) Hexachlorobutadiene	14.17	223	550	0.5043	ppb	# 67
103) Naphthalene	14.21	128	1678	2.2989	ppb	# 67
104) 1,2,3-Trichlorobenzene	14.47	180	828	0.3704	ppb	# 61

(#) = qualifier out of range (m) = manual integration
 0724L16.D L0724W.M Thu Jul 25 10:22:09 2019

Quantitation Report

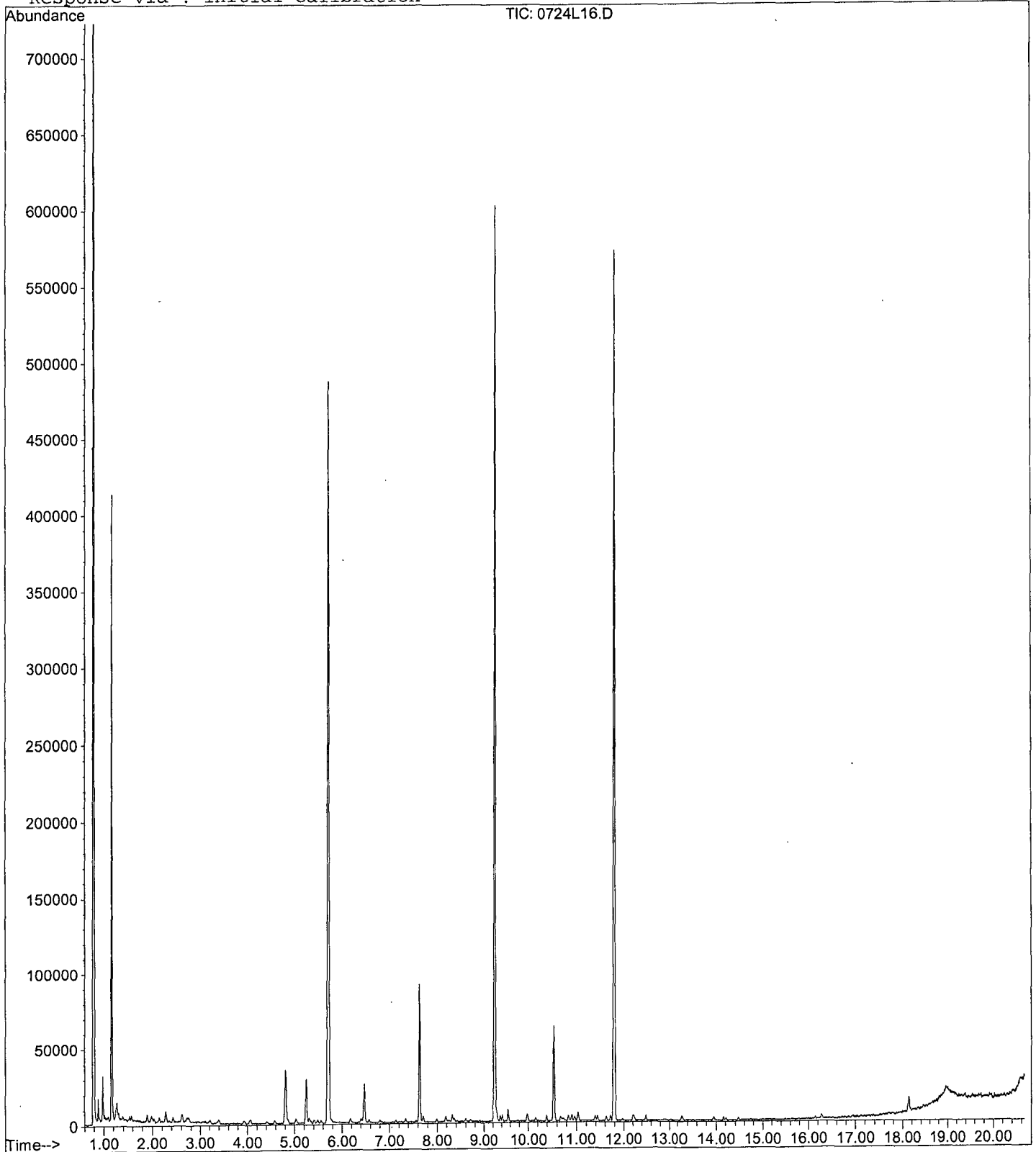
Data File : M:\LOKI\DATA\190724\0724L16.D
Acq On : 24 Jul 19 15:47
Sample : 0.5ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 5
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L17.D
 Acq On : 24 Jul 19 16:16
 Sample : 1.0ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 6
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.71	96	236160	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	213952	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	109896	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	39231	9.3787	ppb	0.00
Spiked Amount			Recovery	=	37.516%	
44) 1,2-DCA-D4(S)	5.25	65	40780	9.4950	ppb	0.00
Spiked Amount			Recovery	=	37.980%	
65) Toluene-D8(S)	7.63	98	110803	8.5237	ppb	0.00
Spiked Amount			Recovery	=	34.096%	
73) 4-Bromofluorobenzene(S)	10.54	95	36883	8.2061	ppb	0.00
Spiked Amount			Recovery	=	32.824%	
Target Compounds						Qvalue
2) Chlorotrifluoroethene	0.89	116	6882	9.1738	ppb	96
3) Dichlorodifluoromethane	0.91	87	611	0.2221	ppb	79
4) Freon 114	0.99	85	1681	0.9990	ppb	89
5) Chloromethane	1.02	50	2450	-0.1835	ppb	# 82
6) Vinyl chloride	1.09	62	2274	1.1222	ppb	100
7) 2-Chloro-1,1,1-trifluoroet	1.17	118	259654	9.8374	ppb	99
8) Bromomethane	1.30	94	1594	1.1267	ppb	# 73
9) Chloroethane	1.38	64	1432	-0.7790	ppb	97
10) Dichlorofluoromethane	1.54	67	3216	0.9447	ppb	100
11) Trichlorofluoromethane	1.57	103	2572	1.1564	ppb	91
13) Acrolein	1.90	56	5555	45.7516	ppb	100
14) Acetone	2.03	43	2078	-0.8589	ppb	# 61
15) Freon-113	2.00	101	1821	0.9457	ppb	# 79
16) 1,1-DCE	1.98	96	2129	1.1332	ppb	# 83
17) t-Butanol	2.62	59	10447	48.8438	ppb	99
18) 2-Propanol	2.21	45	1682	11.3456	ppb	# 42
19) Acetonitrile	2.28	41	13823	52.9758	ppb	# 83
20) Methyl Acetate	2.36	43	2412	0.0722	ppb	91
21) Iodomethane	2.09	142	272	2.0259	ppb	# 79
22) Acrylonitrile	2.69	53	1021	1.1874	ppb	# 63
23) Methylene chloride	2.43	84	2538	1.1375	ppb	92
24) Carbon disulfide	2.14	76	5782	1.0868	ppb	# 91
25) Methyl t-butyl ether (MtBE)	2.75	73	5590	1.0064	ppb	# 90
26) Trans-1,2-DCE	2.72	96	2249	1.0793	ppb	91
27) Diisopropyl Ether	3.39	45	3968	0.9194	ppb	# 71
29) 1,1-DCA	3.22	63	3290	0.9684	ppb	99
30) Vinyl Acetate	3.39	45	3968	0.9194	ppb	# 71
31) Ethyl tert Butyl Ether	3.94	59	3600	0.9357	ppb	# 80
32) MEK (2-Butanone)	4.16	43	359	1.1797	ppb	87
33) Cis-1,2-DCE	4.07	96	2505	1.1252	ppb	78
34) 2,2-Dichloropropane	4.05	77	3091	1.2301	ppb	95
37) Chloroform	4.58	83	3363	0.9206	ppb	98
38) Bromochloromethane	4.42	128	1324	1.0516	ppb	71
40) 1,1,1-TCA	4.79	97	3092	1.0105	ppb	100
41) Cyclohexane	4.87	41	1352	1.2301	ppb	# 33
42) 1,1-Dichloropropene	5.04	75	2005	0.9785	ppb	95
43) 2,2,4-Trimethylpentane	5.49	57	3326	0.9731	ppb	# 84
45) Carbon Tetrachloride	5.03	117	2541	0.8661	ppb	85
46) Tert Amyl Methyl Ether	5.56	73	3711	0.9271	ppb	# 97

(#) = qualifier out of range (m) = manual integration
 0724L17.D L0724W.M Thu Jul 25 10:22:12 2019

Data File : M:\LOKI\DATA\190724\0724L17.D
 Acq On : 24 Jul 19 16:16
 Sample : 1.0ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 6
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) 1,2-DCA	5.35	62	2692	0.9891	ppb #	72
49) Benzene	5.31	78	6836	1.0024	ppb	94
50) TCE	6.18	130	2175	0.9477	ppb #	77
51) 2-Pentanone	6.47	43	51448	47.4107	ppb	100
52) 1,2-Dichloropropane	6.44	63	2013	1.1077	ppb #	82
53) Bromodichloromethane	6.81	83	2821	1.0065	ppb #	72
54) Methyl Cyclohexane	6.41	83	1873	0.9271	ppb #	68
55) Dibromomethane	6.57	93	1272	0.9262	ppb	96
57) MIBK (methyl isobutyl ket	7.56	43	1332	0.9416	ppb #	82
58) 1-Bromo-2-chloroethane	7.13	63	2393	0.9272	ppb	100
59) Cis-1,3-Dichloropropene	7.34	75	2897	1.0801	ppb	95
60) Toluene	7.71	91	6848	0.9270	ppb	99
61) Trans-1,3-Dichloropropene	7.99	75	1978	0.8385	ppb #	76
62) 1,1,2-TCA	8.18	83	1639	1.0113	ppb	96
63) 2-Hexanone	8.52	43	761	0.9090	ppb #	56
66) 1,2-EDB	8.70	107	1916	0.9744	ppb #	66
67) Tetrachloroethene	8.31	166	3058	1.0486	ppb	89
68) 1-Chlorohexane	9.29	91	1658	0.8957	ppb	86
69) 1,1,1,2-Tetrachloroethane	9.37	131	2486	0.9851	ppb	88
70) m&p-Xylene	9.54	91	8905	1.5753	ppb	99
71) o-Xylene	9.97	106	2382	1.7537	ppb	69
72) Styrene	9.99	104	3423	1.9289	ppb	87
74) 1,3-Dichloropropane	8.36	76	2974	0.9733	ppb	89
75) Dibromochloromethane	8.60	129	2429	0.9568	ppb #	70
76) Chlorobenzene	9.26	112	5269	0.9559	ppb	81
77) Ethylbenzene	9.41	91	6247	0.8486	ppb	90
78) Bromoform	10.16	173	2031	0.9731	ppb	95
80) Isopropylbenzene	10.39	105	3244	0.9427	ppb	100
81) 1,1,2,2-Tetrachloroethane	10.72	83	2604	1.1385	ppb	89
82) 1,2,3-Trichloropropane	10.75	110	925	1.1492	ppb	81
83) t-1,4-Dichloro-2-Butene	10.78	53	64	1.0076	ppb #	1
84) Bromobenzene	10.68	156	2197	0.9511	ppb	100
85) n-Propylbenzene	10.84	91	5946	0.8742	ppb	95
86) 4-Ethyltoluene	10.97	105	5431	0.8948	ppb	96
87) 2-Chlorotoluene	10.90	91	2412	0.9326	ppb	93
88) 1,3,5-Trimethylbenzene	11.04	105	4153	0.7710	ppb	92
89) 4-Chlorotoluene	11.03	126	914	0.8837	ppb	80
90) Tert-Butylbenzene	11.38	119	3882	1.3764	ppb	96
91) 1,2,4-Trimethylbenzene	11.44	105	4354	0.8579	ppb	88
92) Sec-Butylbenzene	11.62	105	5297	0.8605	ppb #	84
93) p-Isopropyltoluene	11.79	119	4797	0.8460	ppb	94
94) Benzyl Chloride	11.96	91	1909	1.6861	ppb #	90
95) 1,3-DCB	11.71	146	3951	0.9978	ppb	95
96) 1,4-DCB	11.81	146	4473	1.0376	ppb	85
97) n-Butylbenzene	12.23	91	3627	0.8678	ppb	94
98) 1,2-DCB	12.21	146	3853	0.9617	ppb	96
99) Hexachloroethane	12.49	201	1395	1.0131	ppb	96
100) 1,2-Dibromo-3-chloropropan	13.05	75	544	0.2560	ppb #	73
101) 1,2,4-Trichlorobenzene	13.95	180	1871	1.5564	ppb #	64
102) Hexachlorobutadiene	14.16	223	534	0.4459	ppb	92
103) Naphthalene	14.21	128	3523	2.6262	ppb	100
104) 1,2,3-Trichlorobenzene	14.48	180	2098	0.9176	ppb #	67

(#) = qualifier out of range (m) = manual integration
 0724L17.D L0724W.M Thu Jul 25 10:22:13 2019

Quantitation Report

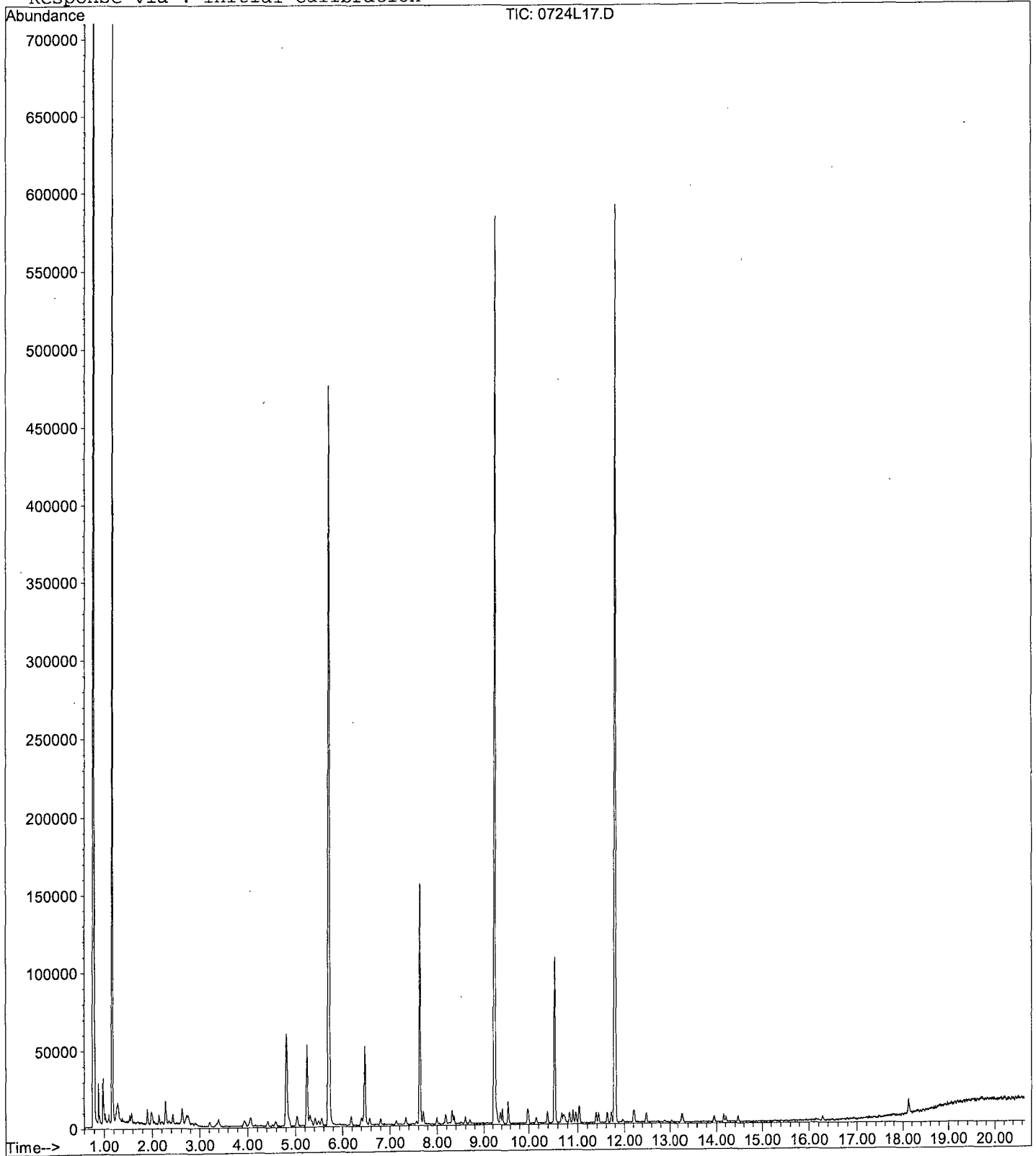
Data File : M:\LOKI\DATA\190724\0724L17.D
Acq On : 24 Jul 19 16:16
Sample : 1.0ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 6
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L18.D
 Acq On : 24 Jul 19 16:45
 Sample : 2.0ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 7
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.71	96	228736	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	203328	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	106872	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	40260	9.9371	ppb	0.00
Spiked Amount	25.000		Recovery	=	39.748%	
44) 1,2-DCA-D4(S)	5.25	65	40410	9.7142	ppb	0.00
Spiked Amount	25.000		Recovery	=	38.856%	
65) Toluene-D8(S)	7.63	98	112797	9.1305	ppb	0.00
Spiked Amount	25.000		Recovery	=	36.520%	
73) 4-Bromofluorobenzene(S)	10.53	95	36090	8.4492	ppb	0.00
Spiked Amount	25.000		Recovery	=	33.796%	
Target Compounds						Qvalue
2) Chlorotrifluoroethene	0.89	116	13680	18.8275	ppb	99
3) Dichlorodifluoromethane	0.91	87	1617	2.2381	ppb	70
4) Freon 114	0.99	85	3384	2.0763	ppb	89
5) Chloromethane	1.02	50	4387	1.2042	ppb	98
6) Vinyl chloride	1.09	62	3986	2.0309	ppb	97
7) 2-Chloro-1,1,1-trifluoroet	1.17	118	508664	19.8970	ppb	99
8) Bromomethane	1.30	94	2550	2.0206	ppb	90
9) Chloroethane	1.38	64	3054	0.9918	ppb	97
10) Dichlorofluoromethane	1.54	67	6687	2.0281	ppb	90
11) Trichlorofluoromethane	1.57	103	4309	2.0002	ppb	96
13) Acrolein	1.90	56	7728	65.7145	ppb	# 68
14) Acetone	2.04	43	2878	0.7477	ppb	# 84
15) Freon-113	1.99	101	4002	2.1458	ppb	83
16) 1,1-DCE	1.98	96	3786	2.0805	ppb	96
17) t-Butanol	2.62	59	15885	80.9627	ppb	95
18) 2-Propanol	2.20	45	2741	20.8973	ppb	# 78
19) Acetonitrile	2.28	41	19464	77.0157	ppb	97
20) Methyl Acetate	2.36	43	3875	1.2064	ppb	92
21) Iodomethane	2.09	142	762	2.5647	ppb	# 68
22) Acrylonitrile	2.69	53	1718	2.0629	ppb	96
23) Methylene chloride	2.43	84	4489	2.0772	ppb	87
24) Carbon disulfide	2.14	76	10541	2.0456	ppb	99
25) Methyl t-butyl ether (MtBE)	2.75	73	10483	1.9485	ppb	# 91
26) Trans-1,2-DCE	2.72	96	4369	2.1648	ppb	85
27) Diisopropyl Ether	3.40	45	7998	1.9133	ppb	94
29) 1,1-DCA	3.21	63	6601	2.0061	ppb	96
30) Vinyl Acetate	3.40	45	7998	1.9133	ppb	94
31) Ethyl tert Butyl Ether	3.94	59	7410	1.9885	ppb	92
32) MEK (2-Butanone)	4.17	43	544	1.8457	ppb	87
33) Cis-1,2-DCE	4.07	96	4341	2.0132	ppb	85
34) 2,2-Dichloropropane	4.05	77	4611	1.8946	ppb	# 88
37) Chloroform	4.59	83	7477	2.1131	ppb	89
38) Bromochloromethane	4.42	128	2764	2.2666	ppb	98
40) 1,1,1-TCA	4.79	97	5907	1.9932	ppb	95
41) Cyclohexane	4.87	41	2167	2.0356	ppb	72
42) 1,1-Dichloropropene	5.04	75	3468	1.7473	ppb	91
43) 2,2,4-Trimethylpentane	5.49	57	5876	1.7749	ppb	# 57
45) Carbon Tetrachloride	5.03	117	5851	2.0589	ppb	87
46) Tert Amyl Methyl Ether	5.56	73	7142	1.8422	ppb	# 89

(#) = qualifier out of range (m) = manual integration
 0724L18.D L0724W.M Thu Jul 25 10:22:16 2019

Data File : M:\LOKI\DATA\190724\0724L18.D
 Acq On : 24 Jul 19 16:45
 Sample : 2.0ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 7
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) 1,2-DCA	5.35	62	5698	2.1614	ppb	92
49) Benzene	5.31	78	12922	1.9563	ppb #	91
50) TCE	6.18	130	4164	1.8733	ppb #	90
51) 2-Pentanone	6.47	43	81444	77.4887	ppb	99
52) 1,2-Dichloropropane	6.44	63	3372	1.9157	ppb #	83
53) Bromodichloromethane	6.80	83	5567	2.0508	ppb	94
54) Methyl Cyclohexane	6.40	83	3641	1.8608	ppb	88
55) Dibromomethane	6.57	93	3026	2.2749	ppb	88
56) 2-Chloroethyl vinyl ether	7.22	63	88	5.5943	ppb #	48
57) MIBK (methyl isobutyl ket	7.56	43	2694	1.9662	ppb #	91
58) 1-Bromo-2-chloroethane	7.13	63	5182	2.0731	ppb	95
59) Cis-1,3-Dichloropropene	7.34	75	5164	1.9878	ppb #	83
60) Toluene	7.71	91	12649	1.7678	ppb	98
61) Trans-1,3-Dichloropropene	7.99	75	3913	1.7126	ppb	89
62) 1,1,2-TCA	8.18	83	3113	1.9831	ppb	92
63) 2-Hexanone	8.51	43	1592	1.9633	ppb #	89
66) 1,2-EDB	8.70	107	3757	2.0104	ppb #	94
67) Tetrachloroethene	8.32	166	5098	1.8395	ppb #	82
68) 1-Chlorohexane	9.29	91	2830	1.6087	ppb	94
69) 1,1,1,2-Tetrachloroethane	9.37	131	5077	2.1169	ppb	98
70) m&p-Xylene	9.55	91	17942	3.3397	ppb	96
71) o-Xylene	9.98	106	4399	2.4245	ppb	96
72) Styrene	9.99	104	7319	2.6318	ppb	93
74) 1,3-Dichloropropane	8.36	76	6012	2.0704	ppb	88
75) Dibromochloromethane	8.60	129	5132	2.1272	ppb	81
76) Chlorobenzene	9.26	112	9786	1.8681	ppb	98
77) Ethylbenzene	9.41	91	12377	1.7691	ppb	90
78) Bromoform	10.16	173	3889	1.9607	ppb	98
80) Isopropylbenzene	10.39	105	6467	1.9324	ppb	97
81) 1,1,2,2-Tetrachloroethane	10.72	83	4810	2.1624	ppb	86
82) 1,2,3-Trichloropropane	10.74	110	1826	2.3327	ppb	85
83) t-1,4-Dichloro-2-Butene	10.78	53	555	2.5221	ppb	98
84) Bromobenzene	10.68	156	4527	2.0153	ppb	96
85) n-Propylbenzene	10.84	91	12195	1.8438	ppb	100
86) 4-Ethyltoluene	10.97	105	10126	1.7156	ppb	95
87) 2-Chlorotoluene	10.90	91	4492	1.7860	ppb	85
88) 1,3,5-Trimethylbenzene	11.04	105	9056	1.7288	ppb	95
89) 4-Chlorotoluene	11.02	126	2087	2.0749	ppb #	58
90) Tert-Butylbenzene	11.39	119	7882	2.1511	ppb	83
91) 1,2,4-Trimethylbenzene	11.44	105	8151	1.6515	ppb	91
92) Sec-Butylbenzene	11.62	105	10471	1.7491	ppb	95
93) p-Isopropyltoluene	11.79	119	9822	1.7813	ppb	94
94) Benzyl Chloride	11.96	91	3375	2.6983	ppb #	96
95) 1,3-DCB	11.72	146	7318	1.9004	ppb	92
96) 1,4-DCB	11.81	146	8539	2.0369	ppb	97
97) n-Butylbenzene	12.23	91	7088	1.7438	ppb	96
98) 1,2-DCB	12.20	146	7640	1.9610	ppb #	93
99) Hexachloroethane	12.49	201	2979	2.2247	ppb #	74
100) 1,2-Dibromo-3-chloropropan	13.04	75	939	1.4466	ppb #	68
101) 1,2,4-Trichlorobenzene	13.95	180	4168	2.4775	ppb	98
102) Hexachlorobutadiene	14.16	223	1005	1.4649	ppb #	74
103) Naphthalene	14.21	128	6993	3.2908	ppb	98
104) 1,2,3-Trichlorobenzene	14.47	180	4115	1.8507	ppb	86

(#) = qualifier out of range (m) = manual integration
 0724L18.D L0724W.M Thu Jul 25 10:22:17 2019

Quantitation Report

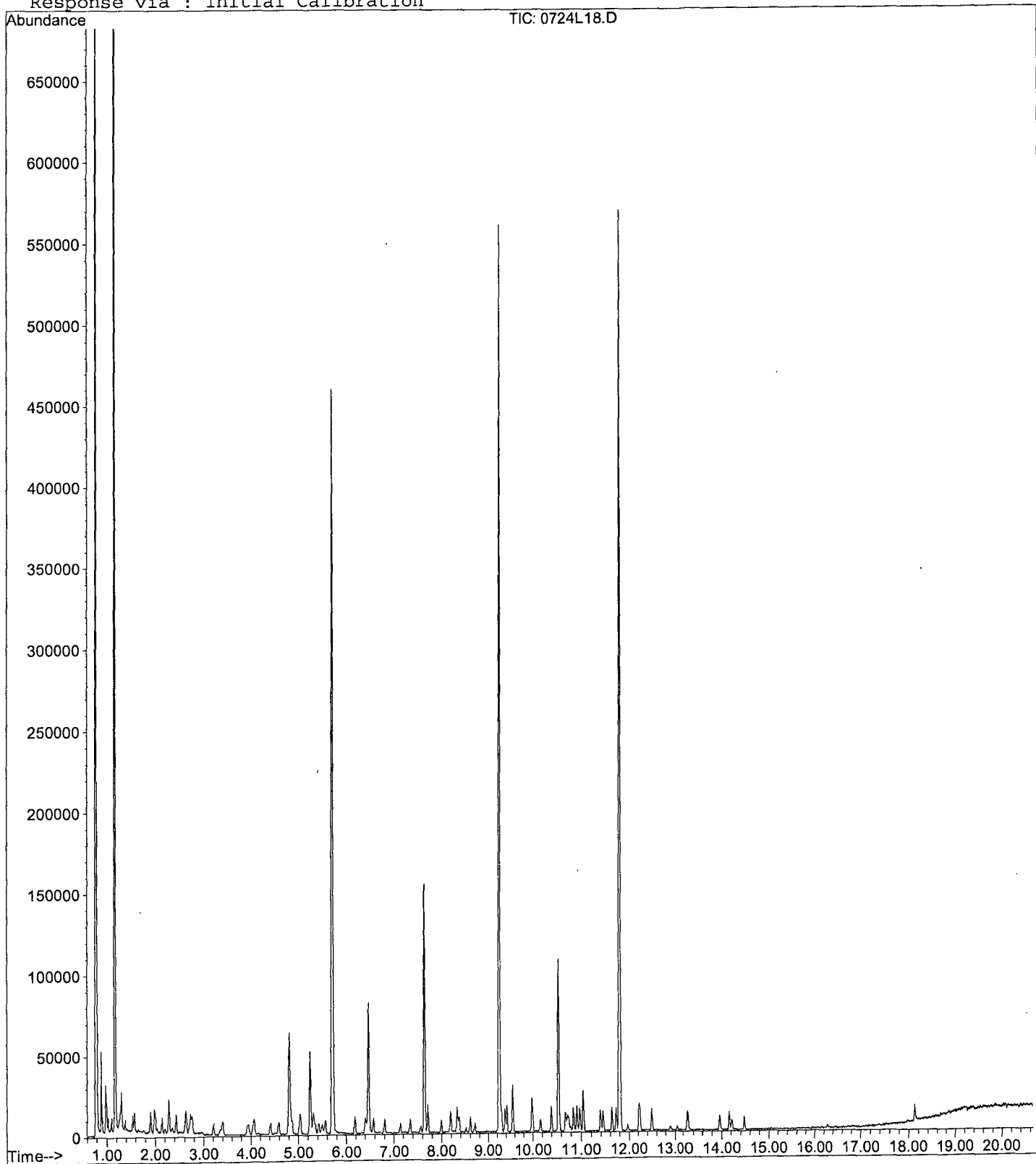
Data File : M:\LOKI\DATA\190724\0724L18.D
Acq On : 24 Jul 19 16:45
Sample : 2.0ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 7
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L19.D
 Acq On : 24 Jul 19 17:14
 Sample : 5.0ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 8
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.71	96	226368	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	203008	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	112968	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	106359	26.5264	ppb	0.00
Spiked Amount	25.000		Recovery	=	106.104%	
44) 1,2-DCA-D4 (S)	5.24	65	108946	26.4636	ppb	0.00
Spiked Amount	25.000		Recovery	=	105.856%	
65) Toluene-D8 (S)	7.63	98	323314	26.2123	ppb	0.00
Spiked Amount	25.000		Recovery	=	104.848%	
73) 4-Bromofluorobenzene(S)	10.54	95	109955	25.7826	ppb	0.00
Spiked Amount	25.000		Recovery	=	103.132%	
Target Compounds						Qvalue
2) Chlorotrifluoroethene	0.89	116	28721	39.9417	ppb	93
3) Dichlorodifluoromethane	0.91	87	2591	4.2068	ppb	92
4) Freon 114	0.99	85	8616	5.3418	ppb	99
5) Chloromethane	1.02	50	9286	4.6468	ppb	92
6) Vinyl chloride	1.10	62	8920	4.5923	ppb	89
7) 2-Chloro-1,1,1-trifluoroet	1.17	118	1031035	40.7520	ppb	99
8) Bromomethane	1.30	94	5404	4.6066	ppb	92
9) Chloroethane	1.38	64	6127	4.3243	ppb	99
10) Dichlorofluoromethane	1.54	67	18181	5.5717	ppb	99
11) Trichlorofluoromethane	1.57	103	10433	4.8936	ppb	100
13) Acrolein	1.90	56	13036	112.0103	ppb	92
14) Acetone	2.04	43	5291	5.3306	ppb	94
15) Freon-113	2.00	101	10529	5.7045	ppb	93
16) 1,1-DCE	1.98	96	9151	5.0814	ppb	97
17) t-Butanol	2.62	59	20382	107.1986	ppb	97
18) 2-Propanol	2.20	45	4859	39.5288	ppb	97
19) Acetonitrile	2.28	41	25225	100.8551	ppb	97
20) Methyl Acetate	2.35	43	9570	5.4775	ppb	96
21) Iodomethane	2.09	142	2358	4.2846	ppb	# 75
22) Acrylonitrile	2.69	53	4240	5.1445	ppb	# 81
23) Methylene chloride	2.43	84	11915	5.5711	ppb	93
24) Carbon disulfide	2.14	76	27801	5.4515	ppb	96
25) Methyl t-butyl ether (MtBE	2.75	73	28490	5.3509	ppb	97
26) Trans-1,2-DCE	2.72	96	10707	5.3608	ppb	97
27) Diisopropyl Ether	3.39	45	23272	5.6253	ppb	97
29) 1,1-DCA	3.21	63	18525	5.6888	ppb	97
30) Vinyl Acetate	3.39	45	23272	5.6253	ppb	97
31) Ethyl tert Butyl Ether	3.93	59	19243	5.2178	ppb	95
32) MEK (2-Butanone)	4.16	43	1616	5.5401	ppb	84
33) Cis-1,2-DCE	4.07	96	10593	4.9640	ppb	86
34) 2,2-Dichloropropane	4.05	77	13560	5.6299	ppb	# 89
37) Chloroform	4.59	83	19404	5.5412	ppb	100
38) Bromochloromethane	4.42	128	6964	5.7704	ppb	93
40) 1,1,1-TCA	4.80	97	15892	5.4184	ppb	99
41) Cyclohexane	4.86	41	5192	4.9282	ppb	97
42) 1,1-Dichloropropene	5.04	75	10111	5.1477	ppb	94
43) 2,2,4-Trimethylpentane	5.48	57	15766	4.8121	ppb	# 68
45) Carbon Tetrachloride	5.02	117	16243	5.7756	ppb	96
46) Tert Amyl Methyl Ether	5.55	73	18756	4.8886	ppb	99

(#) = qualifier out of range (m) = manual integration
 0724L19.D L0724W.M Thu Jul 25 10:22:20 2019

Data File : M:\LOKI\DATA\190724\0724L19.D
 Acq On : 24 Jul 19 17:14
 Sample : 5.0ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 8
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) 1,2-DCA	5.35	62	13797	5.2883	ppb	96
49) Benzene	5.31	78	34063	5.2109	ppb	97
50) TCE	6.17	130	12221	5.5556	ppb	92
51) 2-Pentanone	6.47	43	108387	104.2020	ppb	96
52) 1,2-Dichloropropane	6.44	63	8951	5.1385	ppb	97
53) Bromodichloromethane	6.80	83	14963	5.5697	ppb	93
54) Methyl Cyclohexane	6.40	83	9512	4.9121	ppb	90
55) Dibromomethane	6.57	93	7733	5.8744	ppb	97
56) 2-Chloroethyl vinyl ether	7.22	63	652	13.9004	ppb #	89
57) MIBK (methyl isobutyl ket	7.56	43	6638	4.8954	ppb	99
58) 1-Bromo-2-chloroethane	7.13	63	13056	5.2777	ppb	98
59) Cis-1,3-Dichloropropene	7.34	75	12563	4.8864	ppb	98
60) Toluene	7.71	91	38122	5.3836	ppb	100
61) Trans-1,3-Dichloropropene	7.99	75	12554	5.5521	ppb	98
62) 1,1,2-TCA	8.18	83	8537	5.4954	ppb	89
63) 2-Hexanone	8.51	43	4340	5.4082	ppb #	80
66) 1,2-EDB	8.70	107	10601	5.6817	ppb	98
67) Tetrachloroethene	8.32	166	15044	5.4369	ppb	95
68) 1-Chlorohexane	9.29	91	8712	4.9601	ppb	91
69) 1,1,1,2-Tetrachloroethane	9.37	131	13934	5.8191	ppb	100
70) m&p-Xylene	9.55	91	54502	10.1610	ppb	98
71) o-Xylene	9.97	106	13819	5.3906	ppb	97
72) Styrene	9.99	104	21593	5.1053	ppb	95
74) 1,3-Dichloropropane	8.36	76	15778	5.4422	ppb	98
75) Dibromochloromethane	8.60	129	13757	5.7111	ppb	86
76) Chlorobenzene	9.27	112	27782	5.3119	ppb	99
77) Ethylbenzene	9.41	91	34916	4.9986	ppb	93
78) Bromoform	10.16	173	11022	5.5657	ppb	98
80) Isopropylbenzene	10.39	105	18304	5.1743	ppb	94
81) 1,1,2,2-Tetrachloroethane	10.71	83	13437	5.7149	ppb	93
82) 1,2,3-Trichloropropane	10.74	110	4762	5.7552	ppb	83
83) t-1,4-Dichloro-2-Butene	10.78	53	1849	6.1926	ppb #	58
84) Bromobenzene	10.68	156	13064	5.5019	ppb	97
85) n-Propylbenzene	10.84	91	37570	5.3737	ppb	94
86) 4-Ethyltoluene	10.97	105	31202	5.0011	ppb	100
87) 2-Chlorotoluene	10.90	91	14568	5.4796	ppb	100
88) 1,3,5-Trimethylbenzene	11.04	105	29257	5.2837	ppb	97
89) 4-Chlorotoluene	11.03	126	5092	4.7893	ppb	98
90) Tert-Butylbenzene	11.38	119	28265	5.7081	ppb	90
91) 1,2,4-Trimethylbenzene	11.44	105	25452	4.8787	ppb	96
92) Sec-Butylbenzene	11.62	105	34275	5.4165	ppb	94
93) p-Isopropyltoluene	11.79	119	30163	5.1750	ppb	96
94) Benzyl Chloride	11.96	91	8051	5.5256	ppb #	93
95) 1,3-DCB	11.72	146	23138	5.6844	ppb	97
96) 1,4-DCB	11.81	146	24177	5.4559	ppb	97
97) n-Butylbenzene	12.23	91	21577	5.0219	ppb	97
98) 1,2-DCB	12.21	146	22806	5.5378	ppb	94
99) Hexachloroethane	12.48	201	7357	5.1977	ppb	92
100) 1,2-Dibromo-3-chloropropan	13.04	75	2356	5.1926	ppb	83
101) 1,2,4-Trichlorobenzene	13.95	180	12076	5.3237	ppb	95
102) Hexachlorobutadiene	14.16	223	3063	5.4359	ppb	96
103) Naphthalene	14.21	128	19037	5.3434	ppb	100
104) 1,2,3-Trichlorobenzene	14.47	180	11713	4.9836	ppb	92

(#) = qualifier out of range (m) = manual integration
 0724L19.D L0724W.M Thu Jul 25 10:22:21 2019

Quantitation Report

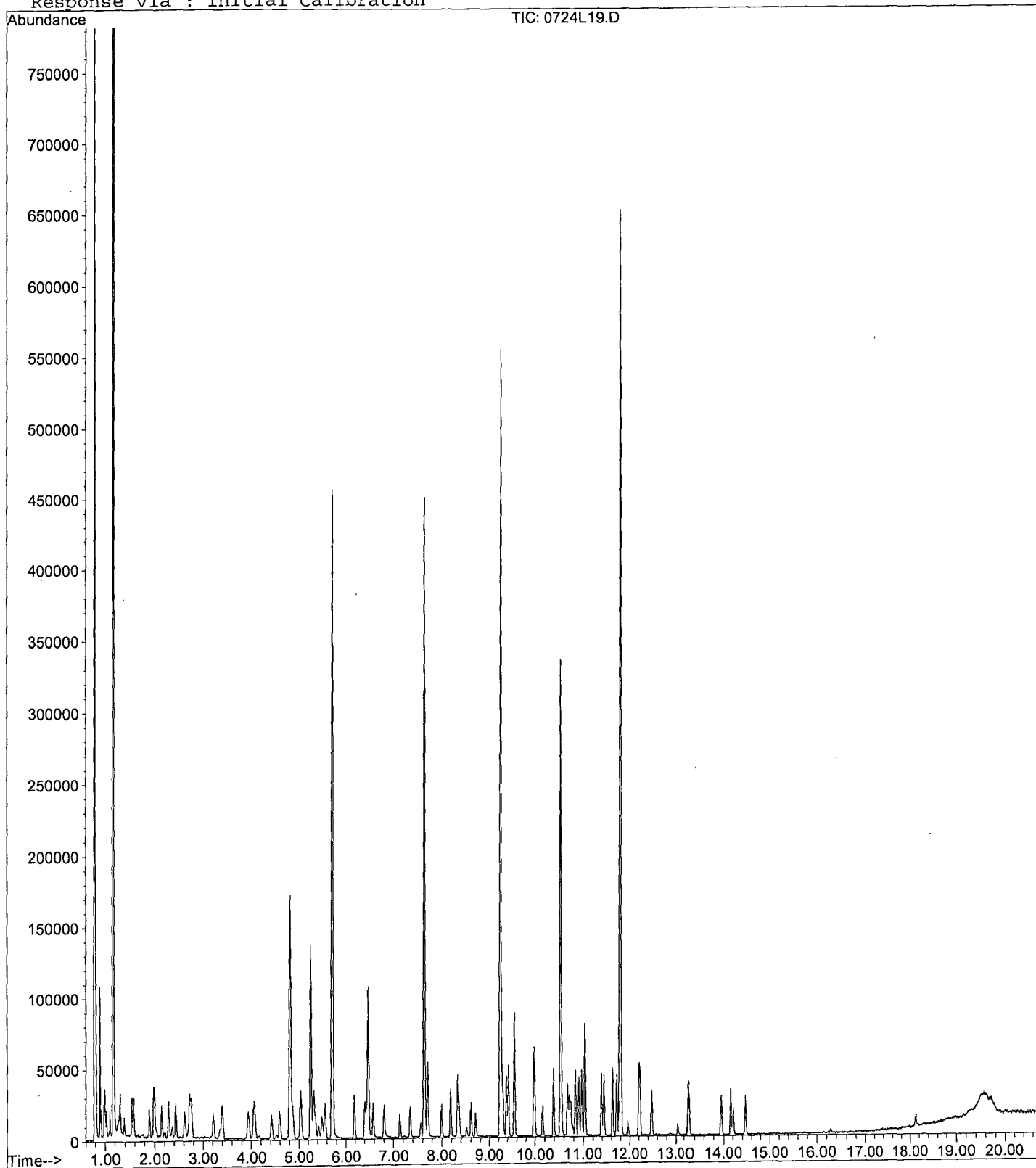
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Acq On : 24 Jul 19 17:14
Sample : 5.0ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 8
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L20.D
 Acq On : 24 Jul 19 17:42
 Sample : 10ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 9
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.71	96	232960	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	215616	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	119352	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	106937	25.9158	ppb	0.00
Spiked Amount	25.000		Recovery	=	103.664%	
44) 1,2-DCA-D4(S)	5.25	65	108770	25.6732	ppb	0.00
Spiked Amount	25.000		Recovery	=	102.692%	
65) Toluene-D8(S)	7.63	98	340696	26.0064	ppb	0.00
Spiked Amount	25.000		Recovery	=	104.024%	
73) 4-Bromofluorobenzene(S)	10.53	95	119955	26.4827	ppb	0.00
Spiked Amount	25.000		Recovery	=	105.932%	
Target Compounds						Qvalue
2) Chlorotrifluoroethene	0.89	116	80495	108.7751	ppb	100
3) Dichlorodifluoromethane	0.91	87	6494	11.5970	ppb	100
4) Freon 114	0.99	85	17181	10.3506	ppb	100
5) Chloromethane	1.02	50	19255	11.2083	ppb	100
6) Vinyl chloride	1.09	62	21167	10.5892	ppb	100
7) 2-Chloro-1,1,1-trifluoroet	1.17	118	2749996	105.6188	ppb	100
8) Bromomethane	1.30	94	12079	10.2923	ppb	100
9) Chloroethane	1.38	64	13236	11.5531	ppb	100
10) Dichlorofluoromethane	1.54	67	35635	10.6116	ppb	100
11) Trichlorofluoromethane	1.57	103	24142	11.0035	ppb	100
13) Acrolein	1.90	56	15822	132.1017	ppb	100
14) Acetone	2.04	43	8968	11.7529	ppb	100
15) Freon-113	2.00	101	19464	10.2469	ppb	100
16) 1,1-DCE	1.98	96	18217	9.8293	ppb	100
17) t-Butanol	2.62	59	23683	122.0057	ppb	100
18) 2-Propanol	2.20	45	11287	92.5542	ppb	100
19) Acetonitrile	2.28	41	32682	126.9723	ppb	100
20) Methyl Acetate	2.35	43	16310	10.1532	ppb	100
21) Iodomethane	2.09	142	6290	8.1379	ppb	100
22) Acrylonitrile	2.69	53	8776	10.3468	ppb	100
23) Methylene chloride	2.43	84	22874	10.3926	ppb	100
24) Carbon disulfide	2.14	76	52811	10.0628	ppb	100
25) Methyl t-butyl ether (MtBE)	2.75	73	55437	10.1174	ppb	100
26) Trans-1,2-DCE	2.72	96	21910	10.6594	ppb	100
27) Diisopropyl Ether	3.40	45	43924	10.3169	ppb	100
29) 1,1-DCA	3.21	63	34435	10.2754	ppb	100
30) Vinyl Acetate	3.40	45	43924	10.3169	ppb	100
31) Ethyl tert Butyl Ether	3.94	59	41172	10.8481	ppb	100
32) MEK (2-Butanone)	4.15	43	2866	9.5473	ppb	100
33) Cis-1,2-DCE	4.07	96	21488	9.7846	ppb	100
34) 2,2-Dichloropropane	4.05	77	24815	10.0113	ppb	100
37) Chloroform	4.59	83	36997	10.2663	ppb	100
38) Bromochloromethane	4.41	128	13523	10.8882	ppb	100
40) 1,1,1-TCA	4.80	97	30617	10.1436	ppb	100
41) Cyclohexane	4.86	41	10394	9.5868	ppb	100
42) 1,1-Dichloropropene	5.04	75	19846	9.8180	ppb	100
43) 2,2,4-Trimethylpentane	5.49	57	33385	9.9014	ppb	100
45) Carbon Tetrachloride	5.03	117	30001	10.3657	ppb	100
46) Tert Amyl Methyl Ether	5.55	73	39711	10.0574	ppb	100

(#) = qualifier out of range (m) = manual integration
 0724L20.D L0724W.M Thu Jul 25 10:22:24 2019

Data File : M:\LOKI\DATA\190724\0724L20.D
 Acq On : 24 Jul 19 17:42
 Sample : 10ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 9
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) 1,2-DCA	5.35	62	28393	10.5750	ppb	100
49) Benzene	5.31	78	72246	10.7394	ppb	100
50) TCE	6.18	130	24290	10.7297	ppb	100
51) 2-Pentanone	6.47	43	140735	131.4724	ppb	100
52) 1,2-Dichloropropane	6.44	63	18262	10.1870	ppb	100
53) Bromodichloromethane	6.80	83	29199	10.5612	ppb	100
54) Methyl Cyclohexane	6.40	83	20792	10.4334	ppb	100
55) Dibromomethane	6.57	93	14050	10.3711	ppb	100
56) 2-Chloroethyl vinyl ether	7.22	63	1821	30.3309	ppb	100
57) MIBK (methyl isobutyl ket	7.56	43	14898	10.6762	ppb	100
58) 1-Bromo-2-chloroethane	7.13	63	26174	10.2811	ppb	100
59) Cis-1,3-Dichloropropene	7.34	75	26527	10.0258	ppb	100
60) Toluene	7.71	91	77000	10.5662	ppb	100
61) Trans-1,3-Dichloropropene	7.99	75	24077	10.3469	ppb	100
62) 1,1,2-TCA	8.18	83	16445	10.2864	ppb	100
63) 2-Hexanone	8.51	43	8263	10.0054	ppb	100
66) 1,2-EDB	8.70	107	20012	10.0984	ppb	100
67) Tetrachloroethene	8.32	166	30750	10.4632	ppb	100
68) 1-Chlorohexane	9.29	91	18987	10.1780	ppb	100
69) 1,1,1,2-Tetrachloroethane	9.37	131	24952	9.8111	ppb	100
70) m&p-Xylene	9.55	91	117199	20.5721	ppb	100
71) o-Xylene	9.98	106	27640	9.2307	ppb	100
72) Styrene	9.99	104	47812	9.1611	ppb	100
74) 1,3-Dichloropropane	8.36	76	30734	9.9810	ppb	100
75) Dibromochloromethane	8.60	129	26787	10.4701	ppb	100
76) Chlorobenzene	9.26	112	57471	10.3458	ppb	100
77) Ethylbenzene	9.41	91	74894	10.0949	ppb	100
78) Bromoform	10.16	173	21995	10.4572	ppb	100
80) Isopropylbenzene	10.39	105	40960	10.9595	ppb	100
81) 1,1,2,2-Tetrachloroethane	10.72	83	25398	10.2242	ppb	100
82) 1,2,3-Trichloropropane	10.74	110	9189	10.5115	ppb	100
83) t-1,4-Dichloro-2-Butene	10.78	53	3406	10.1902	ppb	100
84) Bromobenzene	10.68	156	26822	10.6919	ppb	100
85) n-Propylbenzene	10.84	91	80276	10.8678	ppb	100
86) 4-Ethyltoluene	10.97	105	71030	10.7759	ppb	100
87) 2-Chlorotoluene	10.90	91	30384	10.8174	ppb	100
88) 1,3,5-Trimethylbenzene	11.04	105	65011	11.1127	ppb	100
89) 4-Chlorotoluene	11.03	126	12056	10.7327	ppb	100
90) Tert-Butylbenzene	11.38	119	53998	9.7847	ppb	100
91) 1,2,4-Trimethylbenzene	11.44	105	58761	10.6609	ppb	100
92) Sec-Butylbenzene	11.62	105	72489	10.8428	ppb	100
93) p-Isopropyltoluene	11.79	119	68711	11.1581	ppb	100
94) Benzyl Chloride	11.96	91	17534	10.9143	ppb	100
95) 1,3-DCB	11.71	146	46673	10.8529	ppb	100
96) 1,4-DCB	11.81	146	49370	10.5452	ppb	100
97) n-Butylbenzene	12.23	91	48772	10.7443	ppb	100
98) 1,2-DCB	12.20	146	45555	10.4701	ppb	100
99) Hexachloroethane	12.48	201	14709	9.8360	ppb	100
100) 1,2-Dibromo-3-chloropropan	13.04	75	4187	9.6078	ppb	100
101) 1,2,4-Trichlorobenzene	13.95	180	24696	9.5165	ppb	100
102) Hexachlorobutadiene	14.16	223	6022	10.6697	ppb	100
103) Naphthalene	14.21	128	42006	8.9959	ppb	100
104) 1,2,3-Trichlorobenzene	14.47	180	25970	10.4586	ppb	100

(#) = qualifier out of range (m) = manual integration
 0724L20.D L0724W.M Thu Jul 25 10:22:25 2019

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Quantitation Report

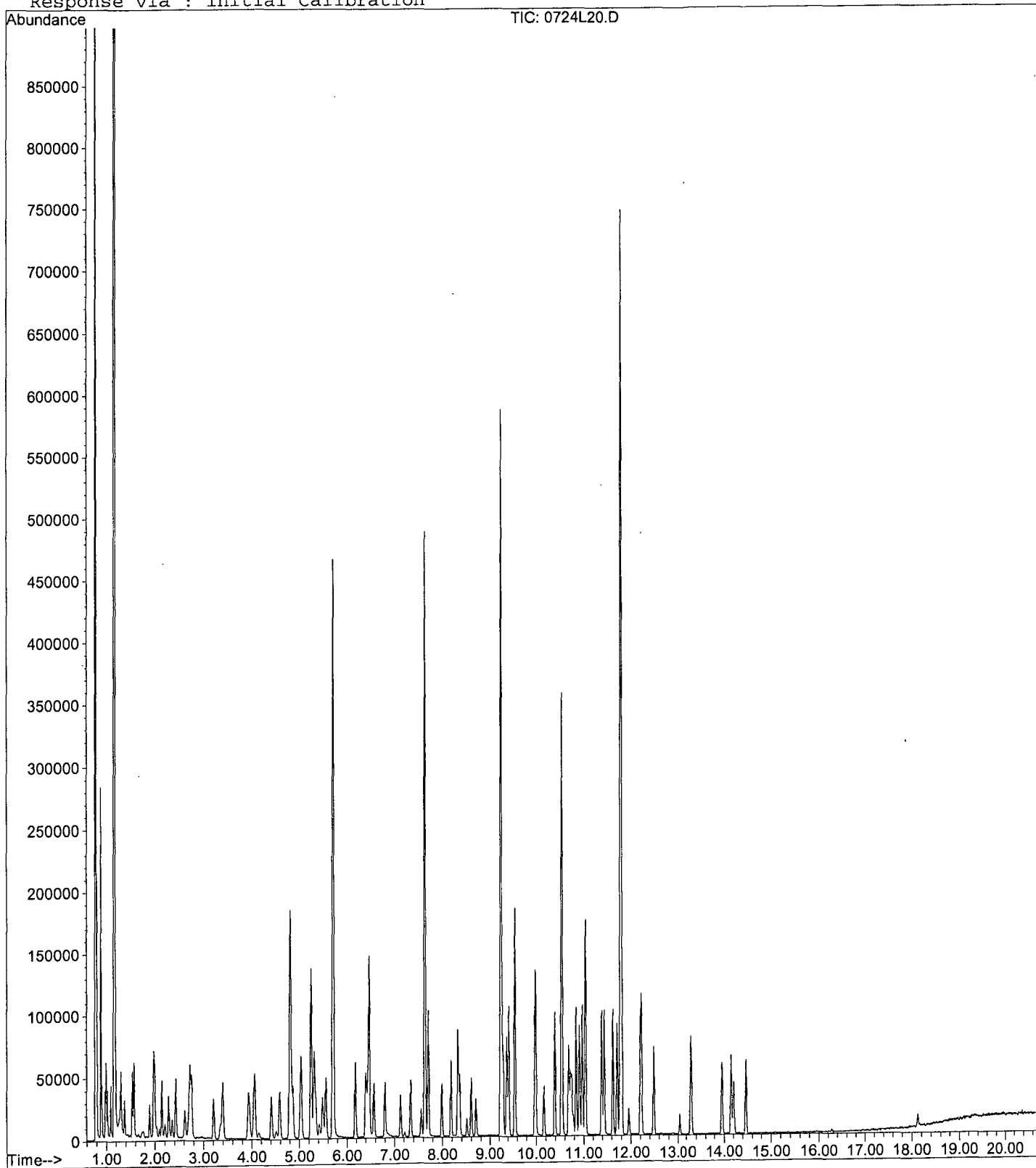
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Acq On : 24 Jul 19 17:42
Sample : 10ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 9
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L21.D
 Acq On : 24 Jul 19 18:11
 Sample : 20ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 10
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	252480	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	227712	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	144064	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	211246	47.2367	ppb	0.00
Spiked Amount	25.000		Recovery	=	188.948%	
44) 1,2-DCA-D4(S)	5.25	65	218495	47.5847	ppb	0.00
Spiked Amount	25.000		Recovery	=	190.340%	
65) Toluene-D8(S)	7.63	98	720478	52.0749	ppb	0.00
Spiked Amount	25.000		Recovery	=	208.300%	
73) 4-Bromofluorobenzene(S)	10.53	95	260415	54.4383	ppb	0.00
Spiked Amount	25.000		Recovery	=	217.752%	
Target Compounds						
						Qvalue
2) Chlorotrifluoroethene	0.88	116	101348	126.3660	ppb	98
3) Dichlorodifluoromethane	0.91	87	11743	19.9788	ppb	92
4) Freon 114	0.99	85	33827	18.8033	ppb	90
5) Chloromethane	1.02	50	36615	21.0379	ppb	96
6) Vinyl chloride	1.09	62	41562	19.1847	ppb	98
7) 2-Chloro-1,1,1-trifluoroet	1.17	118	3509766	124.3775	ppb	99
8) Bromomethane	1.30	94	20792	16.4909	ppb	95
9) Chloroethane	1.37	64	24874	21.6860	ppb	100
10) Dichlorofluoromethane	1.53	67	69815	19.1825	ppb	97
11) Trichlorofluoromethane	1.57	103	45546	19.1541	ppb	96
13) Acrolein	1.90	56	20686	159.3595	ppb	99
14) Acetone	2.04	43	16008	22.3306	ppb	# 88
15) Freon-113	1.99	101	36908	17.9281	ppb	96
16) 1,1-DCE	1.97	96	35455	17.6514	ppb	100
17) t-Butanol	2.63	59	29550	141.5979	ppb	94
18) 2-Propanol	2.22	45	15940	121.4066	ppb	96
19) Acetonitrile	2.28	41	38186	136.8860	ppb	99
20) Methyl Acetate	2.36	43	33483	20.7072	ppb	86
21) Iodomethane	2.09	142	18966	18.2381	ppb	# 93
22) Acrylonitrile	2.69	53	17709	19.2645	ppb	98
23) Methylene chloride	2.43	84	42763	17.9269	ppb	92
24) Carbon disulfide	2.14	76	103100	18.1262	ppb	97
25) Methyl t-butyl ether (MtBE	2.75	73	110158	18.5498	ppb	99
26) Trans-1,2-DCE	2.72	96	40968	18.3904	ppb	94
27) Diisopropyl Ether	3.40	45	84755	18.3682	ppb	99
29) 1,1-DCA	3.21	63	65406	18.0082	ppb	98
30) Vinyl Acetate	3.40	45	84755	18.3682	ppb	99
31) Ethyl tert Butyl Ether	3.94	59	78325	19.0417	ppb	100
32) MEK (2-Butanone)	4.15	43	6387	19.6317	ppb	96
33) Cis-1,2-DCE	4.07	96	41225	17.3205	ppb	92
34) 2,2-Dichloropropane	4.04	77	47187	17.5651	ppb	# 88
37) Chloroform	4.59	83	73739	18.8798	ppb	95
38) Bromochloromethane	4.42	128	26439	19.6418	ppb	93
40) 1,1,1-TCA	4.80	97	61357	18.7564	ppb	97
41) Cyclohexane	4.86	41	21954	18.6835	ppb	93
42) 1,1-Dichloropropene	5.04	75	41965	19.1554	ppb	95
43) 2,2,4-Trimethylpentane	5.49	57	68762	18.8169	ppb	97
45) Carbon Tetrachloride	5.02	117	59645	19.0149	ppb	99
46) Tert Amyl Methyl Ether	5.55	73	85495	19.9789	ppb	92

(#) = qualifier out of range (m) = manual integration
 0724L21.D L0724W.M Thu Jul 25 10:22:28 2019

Data File : M:\LOKI\DATA\190724\0724L21.D
 Acq On : 24 Jul 19 18:11
 Sample : 20ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 10
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) 1,2-DCA	5.35	62	55524	19.0811	ppb	97
49) Benzene	5.31	78	138307	18.9699	ppb	99
50) TCE	6.18	130	47565	19.3866	ppb	93
51) 2-Pentanone	6.47	43	170561	147.0167	ppb	99
52) 1,2-Dichloropropane	6.44	63	35197	18.1159	ppb	100
53) Bromodichloromethane	6.80	83	56219	18.7622	ppb	99
54) Methyl Cyclohexane	6.40	83	42978	19.8990	ppb	98
55) Dibromomethane	6.57	93	28451	19.3776	ppb	92
56) 2-Chloroethyl vinyl ether	7.22	63	4391	62.1989	ppb	# 93
57) MIBK (methyl isobutyl ket	7.56	43	27201	17.9857	ppb	# 93
58) 1-Bromo-2-chloroethane	7.13	63	51443	18.6444	ppb	99
59) Cis-1,3-Dichloropropene	7.34	75	53018	18.4888	ppb	99
60) Toluene	7.71	91	163774	20.7361	ppb	99
61) Trans-1,3-Dichloropropene	7.99	75	50529	20.0356	ppb	95
62) 1,1,2-TCA	8.18	83	32033	18.4876	ppb	90
63) 2-Hexanone	8.51	43	17206	19.2233	ppb	99
66) 1,2-EDB	8.70	107	41803	19.9740	ppb	87
67) Tetrachloroethene	8.32	166	57105	18.3988	ppb	92
68) 1-Chlorohexane	9.29	91	38754	19.6705	ppb	96
69) 1,1,1,2-Tetrachloroethane	9.37	131	49081	18.2734	ppb	92
70) m&p-Xylene	9.55	91	249428	41.4568	ppb	98
71) o-Xylene	9.97	106	59715	17.7929	ppb	97
72) Styrene	9.99	104	104321	17.4702	ppb	97
74) 1,3-Dichloropropane	8.36	76	60431	18.5827	ppb	96
75) Dibromochloromethane	8.60	129	52092	19.2794	ppb	96
76) Chlorobenzene	9.26	112	113848	19.4060	ppb	97
77) Ethylbenzene	9.41	91	162170	20.6976	ppb	98
78) Bromoform	10.16	173	41837	18.8342	ppb	96
80) Isopropylbenzene	10.39	105	87392	19.3720	ppb	99
81) 1,1,2,2-Tetrachloroethane	10.71	83	48966	16.3305	ppb	99
82) 1,2,3-Trichloropropane	10.74	110	18382	17.4206	ppb	99
83) t-1,4-Dichloro-2-Butene	10.78	53	7774	18.5416	ppb	# 75
84) Bromobenzene	10.68	156	56083	18.5212	ppb	95
85) n-Propylbenzene	10.84	91	175361	19.6681	ppb	97
86) 4-Ethyltoluene	10.97	105	161581	20.3083	ppb	99
87) 2-Chlorotoluene	10.90	91	67792	19.9953	ppb	97
88) 1,3,5-Trimethylbenzene	11.04	105	148013	20.9608	ppb	100
89) 4-Chlorotoluene	11.03	126	26520	19.5593	ppb	90
90) Tert-Butylbenzene	11.38	119	112784	16.4462	ppb	94
91) 1,2,4-Trimethylbenzene	11.44	105	137746	20.7042	ppb	96
92) Sec-Butylbenzene	11.62	105	167378	20.7416	ppb	99
93) p-Isopropyltoluene	11.79	119	153881	20.7024	ppb	97
94) Benzyl Chloride	11.96	91	33895	17.2094	ppb	95
95) 1,3-DCB	11.71	146	97238	18.7323	ppb	96
96) 1,4-DCB	11.81	146	102238	18.0917	ppb	98
97) n-Butylbenzene	12.23	91	107859	19.6851	ppb	98
98) 1,2-DCB	12.20	146	93403	17.7848	ppb	91
99) Hexachloroethane	12.49	201	32122	17.7956	ppb	91
100) 1,2-Dibromo-3-chloropropan	13.04	75	9630	19.4664	ppb	95
101) 1,2,4-Trichlorobenzene	13.95	180	56358	17.2416	ppb	96
102) Hexachlorobutadiene	14.16	223	12678	19.0885	ppb	89
103) Naphthalene	14.21	128	103699	16.3207	ppb	99
104) 1,2,3-Trichlorobenzene	14.47	180	58923	19.6590	ppb	94

(#) = qualifier out of range (m) = manual integration
 0724L21.D L0724W.M Thu Jul 25 10:22:29 2019

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Quantitation Report

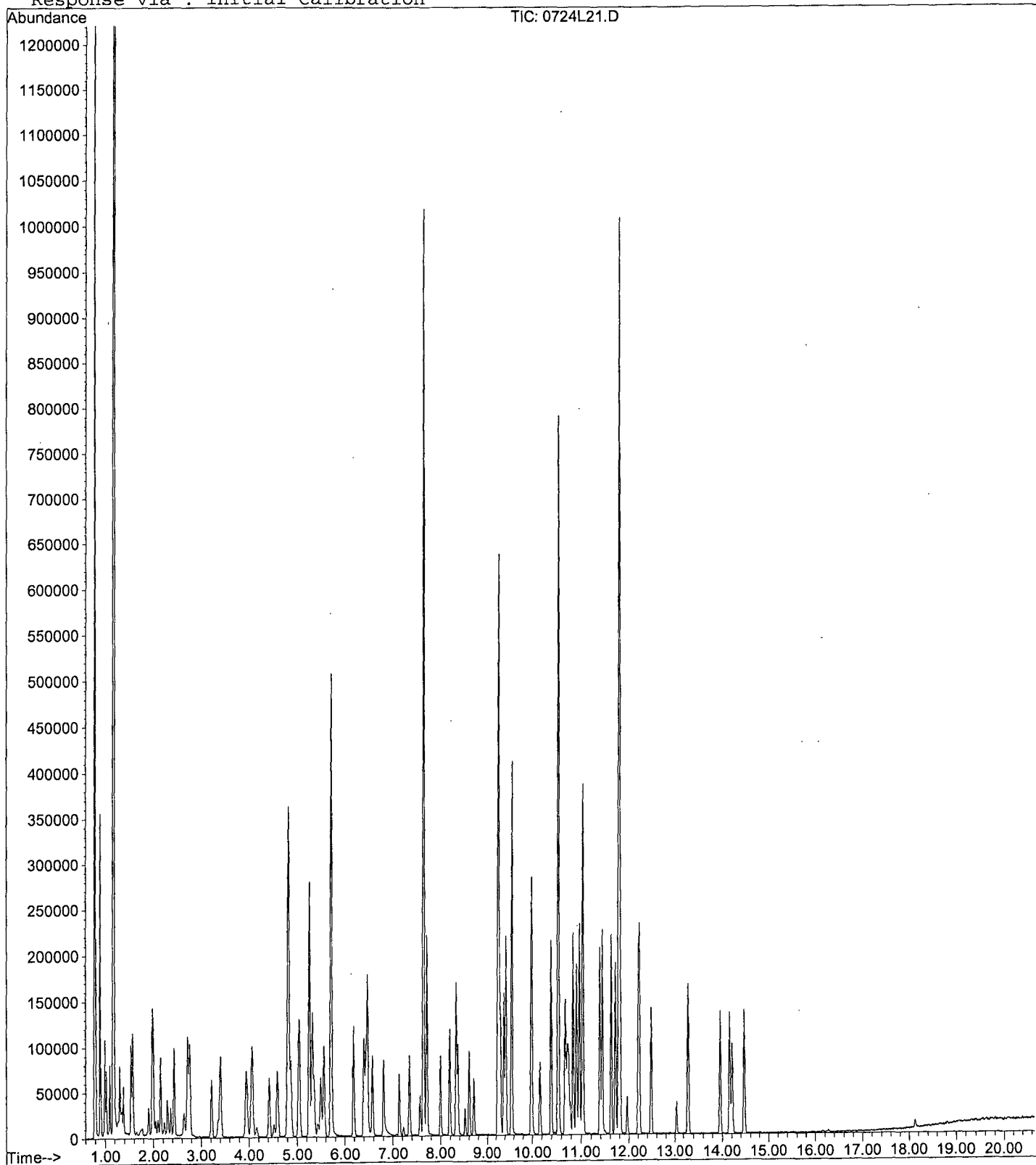
Data File : M:\LOKI\DATA\190724\0724L21.D
Acq On : 24 Jul 19 18:11
Sample : 20ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 10
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L22.D
 Acq On : 24 Jul 19 18:40
 Sample : 40ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 11
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.71	96	248128	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	215680	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	139584	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	218290	49.6680	ppb	0.00
Spiked Amount	25.000		Recovery	=	198.672%	
44) 1,2-DCA-D4(S)	5.24	65	227070	50.3196	ppb	0.00
Spiked Amount	25.000		Recovery	=	201.280%	
65) Toluene-D8(S)	7.63	98	728244	55.5726	ppb	0.00
Spiked Amount	25.000		Recovery	=	222.292%	
73) 4-Bromofluorobenzene(S)	10.54	95	262492	57.9337	ppb	0.00
Spiked Amount	25.000		Recovery	=	231.736%	
Target Compounds						Qvalue
2) Chlorotrifluoroethene	0.88	116	117929	149.6191	ppb	97
3) Dichlorodifluoromethane	0.91	87	23176	41.0712	ppb	93
4) Freon 114	0.99	85	67307	38.0698	ppb	96
5) Chloromethane	1.02	50	70225	42.7874	ppb	99
6) Vinyl chloride	1.09	62	77595	36.4454	ppb	100
7) 2-Chloro-1,1,1-trifluoroet	1.16	118	3982909	143.6201	ppb	99
8) Bromomethane	1.30	94	39041	31.7310	ppb	100
9) Chloroethane	1.37	64	47097	43.8680	ppb	96
10) Dichlorofluoromethane	1.53	67	137648	38.4838	ppb	98
11) Trichlorofluoromethane	1.56	103	87361	37.3835	ppb	95
13) Acrolein	1.90	56	22871	179.2825	ppb	95
14) Acetone	2.04	43	26972	41.5684	ppb	# 89
15) Freon-113	1.99	101	77647	38.3787	ppb	96
16) 1,1-DCE	1.97	96	76146	38.5744	ppb	99
17) t-Butanol	2.64	59	36238	178.5540	ppb	93
18) 2-Propanol	2.22	45	18520	144.0140	ppb	90
19) Acetonitrile	2.28	41	46844	170.8677	ppb	99
20) Methyl Acetate	2.36	43	66010	43.1988	ppb	87
21) Iodomethane	2.09	142	52352	41.4151	ppb	# 95
22) Acrylonitrile	2.69	53	34466	38.1509	ppb	93
23) Methylene chloride	2.43	84	85532	36.4853	ppb	98
24) Carbon disulfide	2.14	76	202229	36.1778	ppb	97
25) Methyl t-butyl ether (MtBE)	2.75	73	229978	39.4058	ppb	98
26) Trans-1,2-DCE	2.71	96	85222	38.9268	ppb	94
27) Diisopropyl Ether	3.40	45	188014	41.4613	ppb	95
29) 1,1-DCA	3.21	63	136310	38.1885	ppb	95
30) Vinyl Acetate	3.40	45	188014	41.4613	ppb	95
31) Ethyl tert Butyl Ether	3.94	59	168813	41.7601	ppb	97
32) MEK (2-Butanone)	4.15	43	11985	37.4843	ppb	99
33) Cis-1,2-DCE	4.06	96	90133	38.5332	ppb	86
34) 2,2-Dichloropropane	4.05	77	101925	38.6066	ppb	# 93
37) Chloroform	4.59	83	149064	38.8351	ppb	95
38) Bromochloromethane	4.41	128	49971	37.7751	ppb	97
40) 1,1,1-TCA	4.79	97	130432	40.5714	ppb	98
41) Cyclohexane	4.86	41	48960	42.3973	ppb	96
42) 1,1-Dichloropropene	5.04	75	92011	42.7361	ppb	97
43) 2,2,4-Trimethylpentane	5.49	57	154948	43.1455	ppb	98
45) Carbon Tetrachloride	5.02	117	125426	40.6872	ppb	100
46) Tert Amyl Methyl Ether	5.56	73	185765	44.1719	ppb	94

(#) = qualifier out of range (m) = manual integration
 0724L22.D L0724W.M Thu Jul 25 10:22:32 2019

Data File : M:\LOKI\DATA\190724\0724L22.D
 Acq On : 24 Jul 19 18:40
 Sample : 40ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 11
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) 1,2-DCA	5.35	62	112971	39.5040	ppb	98
49) Benzene	5.31	78	293431	40.9524	ppb	95
50) TCE	6.18	130	97684	40.5124	ppb	90
51) 2-Pentanone	6.47	43	204185	179.0861	ppb	100
52) 1,2-Dichloropropane	6.44	63	74547	39.0423	ppb	99
53) Bromodichloromethane	6.80	83	120885	41.0511	ppb	97
54) Methyl Cyclohexane	6.39	83	95619	45.0485	ppb	93
55) Dibromomethane	6.57	93	59839	41.4705	ppb	97
56) 2-Chloroethyl vinyl ether	7.22	63	8548	118.9756	ppb #	89
57) MIBK (methyl isobutyl ket	7.56	43	58645	39.4571	ppb	96
58) 1-Bromo-2-chloroethane	7.13	63	111036	40.9485	ppb	99
59) Cis-1,3-Dichloropropene	7.34	75	114940	40.7858	ppb	98
60) Toluene	7.71	91	335232	43.1896	ppb	99
61) Trans-1,3-Dichloropropene	7.99	75	105062	42.3896	ppb	99
62) 1,1,2-TCA	8.18	83	64426	37.8351	ppb	92
63) 2-Hexanone	8.51	43	38798	44.1072	ppb	88
66) 1,2-EDB	8.70	107	84849	42.8036	ppb	90
67) Tetrachloroethene	8.32	166	117546	39.9853	ppb	94
68) 1-Chlorohexane	9.29	91	87535	46.9091	ppb	90
69) 1,1,1,2-Tetrachloroethane	9.37	131	99624	39.1603	ppb	99
70) m&p-Xylene	9.55	91	549349	96.3995	ppb	97
71) o-Xylene	9.97	106	132406	40.2550	ppb	98
72) Styrene	9.99	104	237053	40.0009	ppb	100
74) 1,3-Dichloropropane	8.36	76	128337	41.6656	ppb	97
75) Dibromochloromethane	8.60	129	106786	41.7267	ppb	86
76) Chlorobenzene	9.27	112	230168	41.4221	ppb	98
77) Ethylbenzene	9.41	91	350061	47.1704	ppb	99
78) Bromoform	10.16	173	81663	38.8140	ppb	97
80) Isopropylbenzene	10.39	105	197696	45.2294	ppb	99
81) 1,1,2,2-Tetrachloroethane	10.72	83	105472	36.3045	ppb	99
82) 1,2,3-Trichloropropane	10.74	110	36605	35.8039	ppb	92
83) t-1,4-Dichloro-2-Butene	10.78	53	15922	38.2849	ppb	86
84) Bromobenzene	10.68	156	113238	38.5966	ppb	98
85) n-Propylbenzene	10.84	91	380559	44.0526	ppb	97
86) 4-Ethyltoluene	10.97	105	356242	46.2114	ppb	100
87) 2-Chlorotoluene	10.90	91	145014	44.1449	ppb	100
88) 1,3,5-Trimethylbenzene	11.04	105	318200	46.5081	ppb	96
89) 4-Chlorotoluene	11.03	126	56880	43.2972	ppb	93
90) Tert-Butylbenzene	11.38	119	287510	42.1868	ppb	96
91) 1,2,4-Trimethylbenzene	11.44	105	313989	48.7095	ppb	98
92) Sec-Butylbenzene	11.63	105	363874	46.5387	ppb	99
93) p-Isopropyltoluene	11.79	119	333818	46.3517	ppb	97
94) Benzyl Chloride	11.96	91	73880	38.1541	ppb	98
95) 1,3-DCB	11.71	146	209895	41.7328	ppb	95
96) 1,4-DCB	11.81	146	219710	40.1269	ppb	98
97) n-Butylbenzene	12.23	91	250191	47.1273	ppb	97
98) 1,2-DCB	12.20	146	207639	40.8053	ppb	94
99) Hexachloroethane	12.48	201	61756	35.3109	ppb	91
100) 1,2-Dibromo-3-chloropropan	13.04	75	20965	45.3361	ppb	96
101) 1,2,4-Trichlorobenzene	13.95	180	134182	41.1397	ppb	97
102) Hexachlorobutadiene	14.16	223	26112	41.3017	ppb	85
103) Naphthalene	14.21	128	253105	38.0937	ppb	99
104) 1,2,3-Trichlorobenzene	14.47	180	141857	48.8481	ppb	98

(#) = qualifier out of range (m) = manual integration
 0724L22.D L0724W.M Thu Jul 25 10:22:33 2019

Quantitation Report

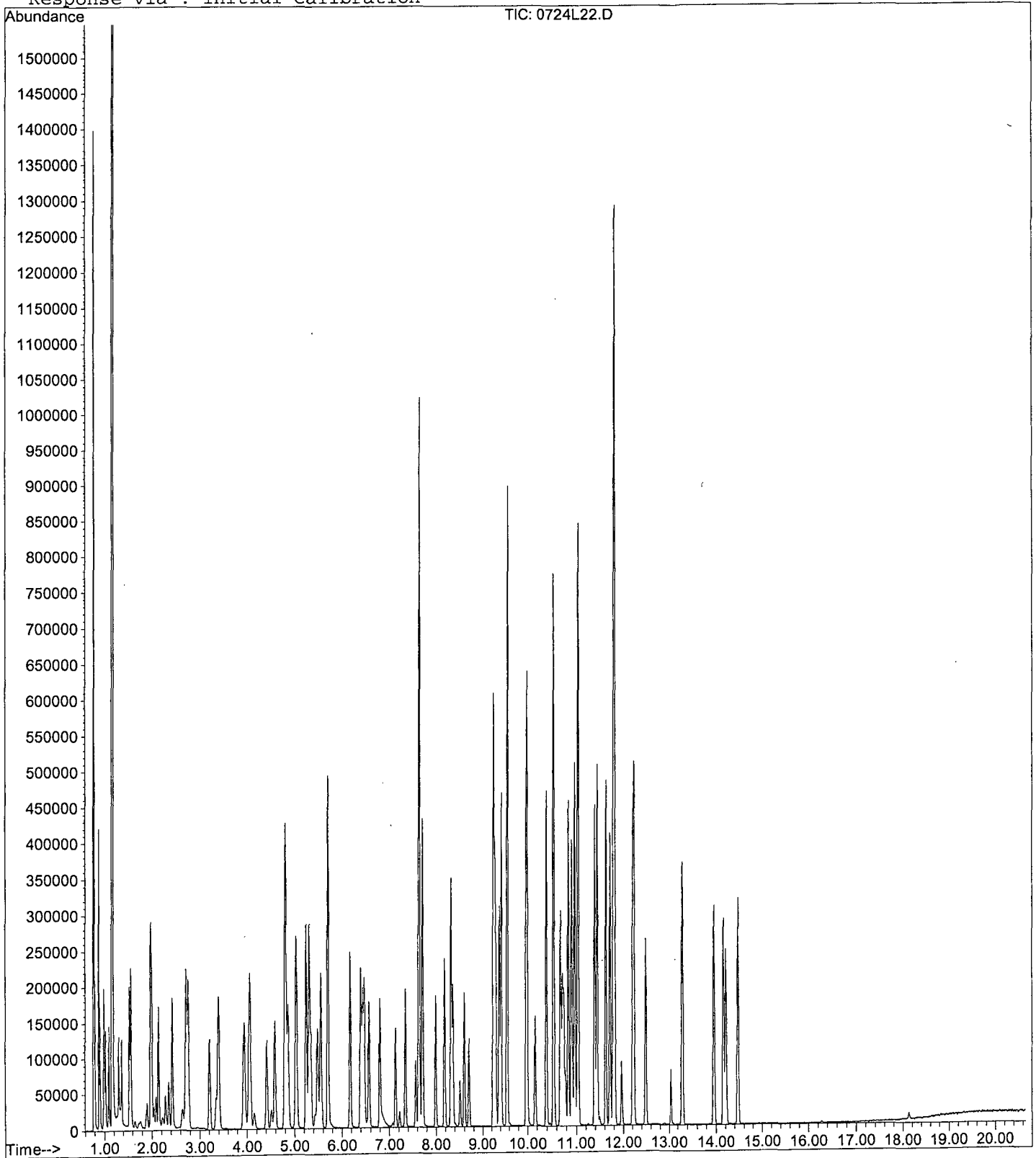
Data File : M:\LOKI\DATA\190724\0724L22.D
Acq On : 24 Jul 19 18:40
Sample : 40ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 11
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L23.D
 Acq On : 24 Jul 19 19:09
 Sample : 100ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 12
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	269568	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	231552	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	170944	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	413989	86.7039	ppb	0.00
Spiked Amount			Recovery	=	346.816%	
44) 1,2-DCA-D4(S)	5.24	65	426960	87.0907	ppb	0.00
Spiked Amount			Recovery	=	348.364%	
65) Toluene-D8(S)	7.63	98	1425773	101.3434	ppb	0.00
Spiked Amount			Recovery	=	405.372%	
73) 4-Bromofluorobenzene(S)	10.53	95	545842	112.2130	ppb	0.00
Spiked Amount			Recovery	=	448.852%	
Target Compounds						
2) Chlorotrifluoroethene	0.88	116	124461	145.3473	ppb	97
3) Dichlorodifluoromethane	0.91	87	60173	99.4626	ppb	97
4) Freon 114	0.99	85	174989	91.1043	ppb	91
5) Chloromethane	1.02	50	171768	98.6086	ppb	99
6) Vinyl chloride	1.09	62	197255	85.2795	ppb	99
7) 2-Chloro-1,1,1-trifluoroet	1.17	118	4219360	140.0454	ppb	100
8) Bromomethane	1.30	94	96521	72.5216	ppb	100
9) Chloroethane	1.37	64	111266	98.0405	ppb	98
10) Dichlorofluoromethane	1.53	67	346902	89.2734	ppb	99
11) Trichlorofluoromethane	1.55	103	227770	89.7151	ppb	96
13) Acrolein	1.91	56	24288	175.2475	ppb	# 94
14) Acetone	2.05	43	65609	98.7665	ppb	95
15) Freon-113	1.99	101	205793	93.6276	ppb	94
16) 1,1-DCE	1.97	96	190653	88.9004	ppb	100
17) t-Butanol	2.59	59	373	-5.7538	ppb	# 73
18) 2-Propanol	2.13	45	1792	10.4130	ppb	# 45
19) Acetonitrile	2.29	41	56083	188.2975	ppb	100
20) Methyl Acetate	2.36	43	160257	98.5719	ppb	89
21) Iodomethane	2.09	142	191786	99.9012	ppb	# 90
22) Acrylonitrile	2.70	53	86848	88.4874	ppb	97
23) Methylene chloride	2.43	84	210169	82.5211	ppb	94
24) Carbon disulfide	2.13	76	522423	86.0257	ppb	98
25) Methyl t-butyl ether (MtBE)	2.76	73	608808	96.0200	ppb	98
26) Trans-1,2-DCE	2.71	96	216154	90.8799	ppb	95
27) Diisopropyl Ether	3.40	45	503139	102.1289	ppb	96
29) 1,1-DCA	3.21	63	342593	88.3467	ppb	96
30) Vinyl Acetate	3.40	45	503139	102.1289	ppb	96
31) Ethyl tert Butyl Ether	3.95	59	492559	112.1558	ppb	95
32) MEK (2-Butanone)	4.16	43	30121	86.7139	ppb	97
33) Cis-1,2-DCE	4.07	96	231300	91.0195	ppb	85
34) 2,2-Dichloropropane	4.05	77	256295	89.3569	ppb	# 90
37) Chloroform	4.59	83	380530	91.2532	ppb	90
38) Bromochloromethane	4.42	128	112648	78.3823	ppb	93
40) 1,1,1-TCA	4.80	97	334730	95.8380	ppb	98
41) Cyclohexane	4.86	41	133027	106.0337	ppb	95
42) 1,1-Dichloropropene	5.04	75	251836	107.6665	ppb	96
43) 2,2,4-Trimethylpentane	5.49	57	443333	113.6285	ppb	92
45) Carbon Tetrachloride	5.02	117	321453	95.9832	ppb	95
46) Tert Amyl Methyl Ether	5.56	73	499000	109.2170	ppb	# 89

(#) = qualifier out of range (m) = manual integration
 0724L23.D L0724W.M Thu Jul 25 10:22:36 2019

Data File : M:\LOKI\DATA\190724\0724L23.D
 Acq On : 24 Jul 19 19:09
 Sample : 100ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 12
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) 1,2-DCA	5.35	62	291893	93.9518	ppb	97
49) Benzene	5.31	78	767828	98.6381	ppb	97
50) TCE	6.18	130	247437	94.4575	ppb	91
51) 2-Pentanone	6.47	43	247069	199.4637	ppb	100
52) 1,2-Dichloropropane	6.44	63	192916	92.9996	ppb	99
53) Bromodichloromethane	6.80	83	298901	93.4301	ppb	99
54) Methyl Cyclohexane	6.40	83	278438	120.7459	ppb	90
55) Dibromomethane	6.57	93	148198	94.5376	ppb	96
56) 2-Chloroethyl vinyl ether	7.22	63	33651	419.8029	ppb	# 87
57) MIBK (methyl isobutyl ket	7.56	43	158544	98.1864	ppb	95
58) 1-Bromo-2-chloroethane	7.13	63	280604	95.2523	ppb	97
59) Cis-1,3-Dichloropropene	7.34	75	317300	103.6370	ppb	99
60) Toluene	7.71	91	866420	102.7470	ppb	99
61) Trans-1,3-Dichloropropene	7.99	75	281761	104.6410	ppb	96
62) 1,1,2-TCA	8.18	83	158295	85.5673	ppb	91
63) 2-Hexanone	8.51	43	110341	115.4635	ppb	96
66) 1,2-EDB	8.70	107	210675	98.9938	ppb	91
67) Tetrachloroethene	8.32	166	299298	94.8326	ppb	96
68) 1-Chlorohexane	9.29	91	250169	124.8735	ppb	91
69) 1,1,1,2-Tetrachloroethane	9.37	131	241398	88.3847	ppb	100
70) m&p-Xylene	9.55	91	1462432	239.0361	ppb	98
71) o-Xylene	9.97	106	360099	100.3769	ppb	99
72) Styrene	9.99	104	653398	100.5566	ppb	99
74) 1,3-Dichloropropane	8.36	76	324800	98.2207	ppb	99
75) Dibromochloromethane	8.60	129	267289	97.2840	ppb	88
76) Chlorobenzene	9.26	112	589039	98.7400	ppb	98
77) Ethylbenzene	9.41	91	927210	116.3765	ppb	99
78) Bromoform	10.16	173	220438	97.5912	ppb	96
80) Isopropylbenzene	10.39	105	550336	102.8094	ppb	99
81) 1,1,2,2-Tetrachloroethane	10.72	83	290526	81.6564	ppb	97
82) 1,2,3-Trichloropropane	10.74	110	100627	80.3686	ppb	87
83) t-1,4-Dichloro-2-Butene	10.78	53	52078	100.8867	ppb	81
84) Bromobenzene	10.68	156	303682	84.5197	ppb	96
85) n-Propylbenzene	10.84	91	1065164	100.6812	ppb	99
86) 4-Ethyltoluene	10.97	105	990962	104.9646	ppb	100
87) 2-Chlorotoluene	10.90	91	394441	98.0470	ppb	99
88) 1,3,5-Trimethylbenzene	11.04	105	859777	102.6114	ppb	100
89) 4-Chlorotoluene	11.03	126	156800	97.4603	ppb	94
90) Tert-Butylbenzene	11.39	119	840762	99.8127	ppb	94
91) 1,2,4-Trimethylbenzene	11.44	105	880822	111.5756	ppb	98
92) Sec-Butylbenzene	11.62	105	1038817	108.4885	ppb	100
93) p-Isopropyltoluene	11.79	119	976489	110.7147	ppb	97
94) Benzyl Chloride	11.97	91	241655	101.1546	ppb	99
95) 1,3-DCB	11.71	146	587638	95.4040	ppb	96
96) 1,4-DCB	11.81	146	614325	91.6148	ppb	96
97) n-Butylbenzene	12.23	91	760258	116.9348	ppb	93
98) 1,2-DCB	12.21	146	582484	93.4702	ppb	95
99) Hexachloroethane	12.49	201	183032	85.4551	ppb	91
100) 1,2-Dibromo-3-chloropropan	13.04	75	54696	98.0270	ppb	83
101) 1,2,4-Trichlorobenzene	13.95	180	404804	100.1097	ppb	95
102) Hexachlorobutadiene	14.16	223	76416	99.5891	ppb	83
103) Naphthalene	14.21	128	854576	101.5306	ppb	97
104) 1,2,3-Trichlorobenzene	14.47	180	415894	116.9396	ppb	98

(#) = qualifier out of range (m) = manual integration
 0724L23.D L0724W.M Thu Jul 25 10:22:37 2019

Quantitation Report

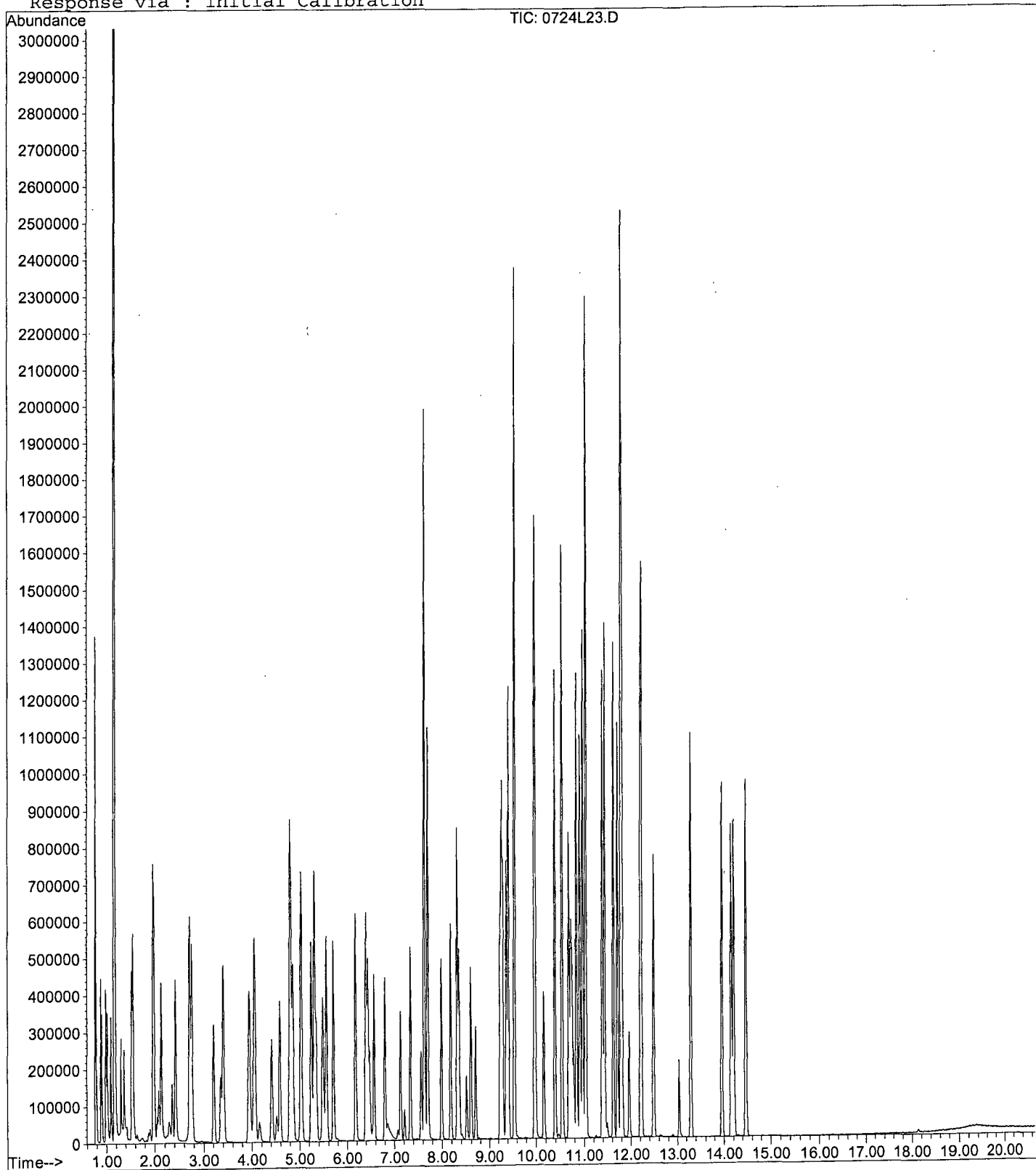
Data File : M:\LOKI\DATA\190724\0724L23.D
Acq On : 24 Jul 19 19:09
Sample : 100ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 12
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

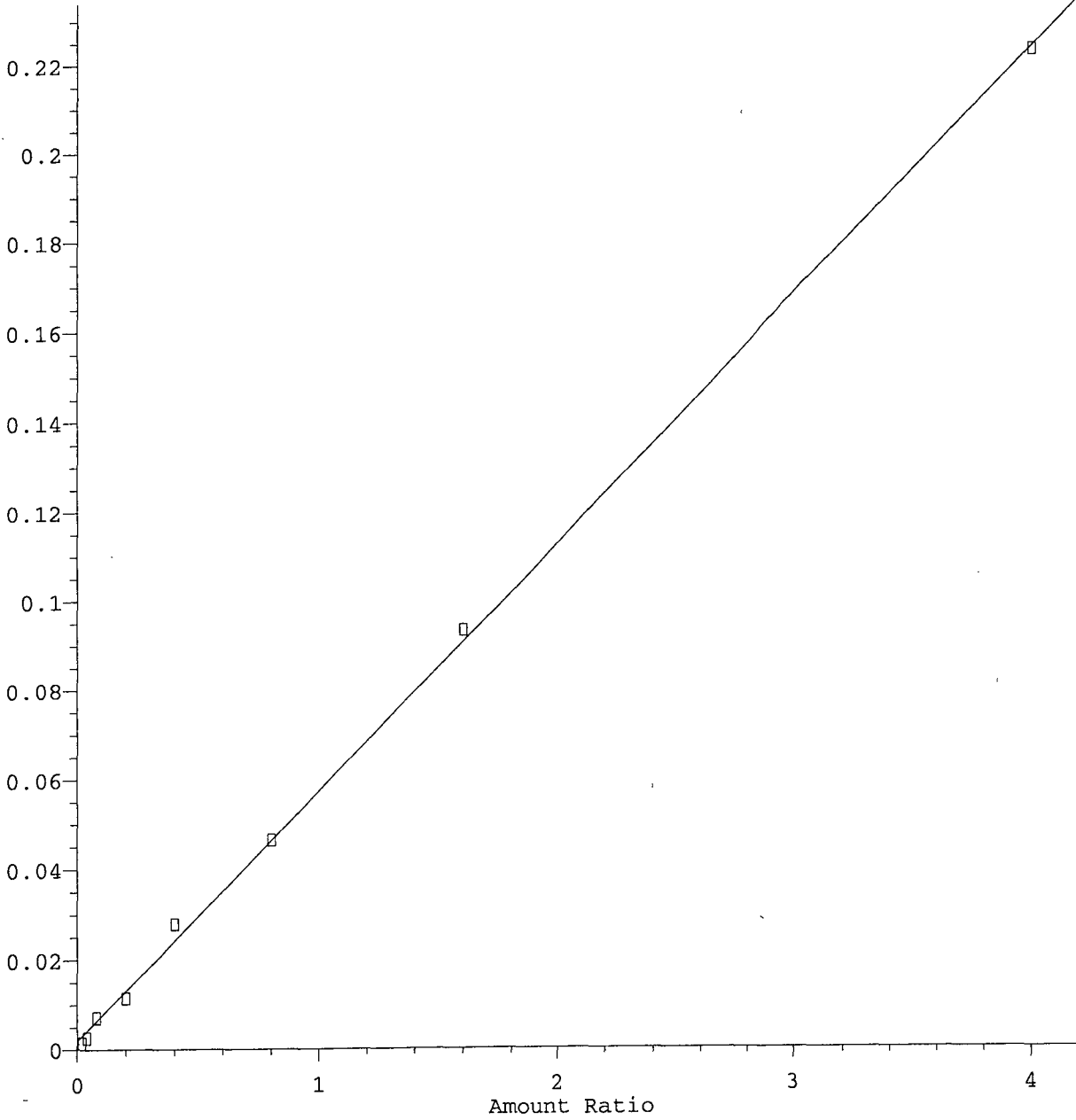
Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration



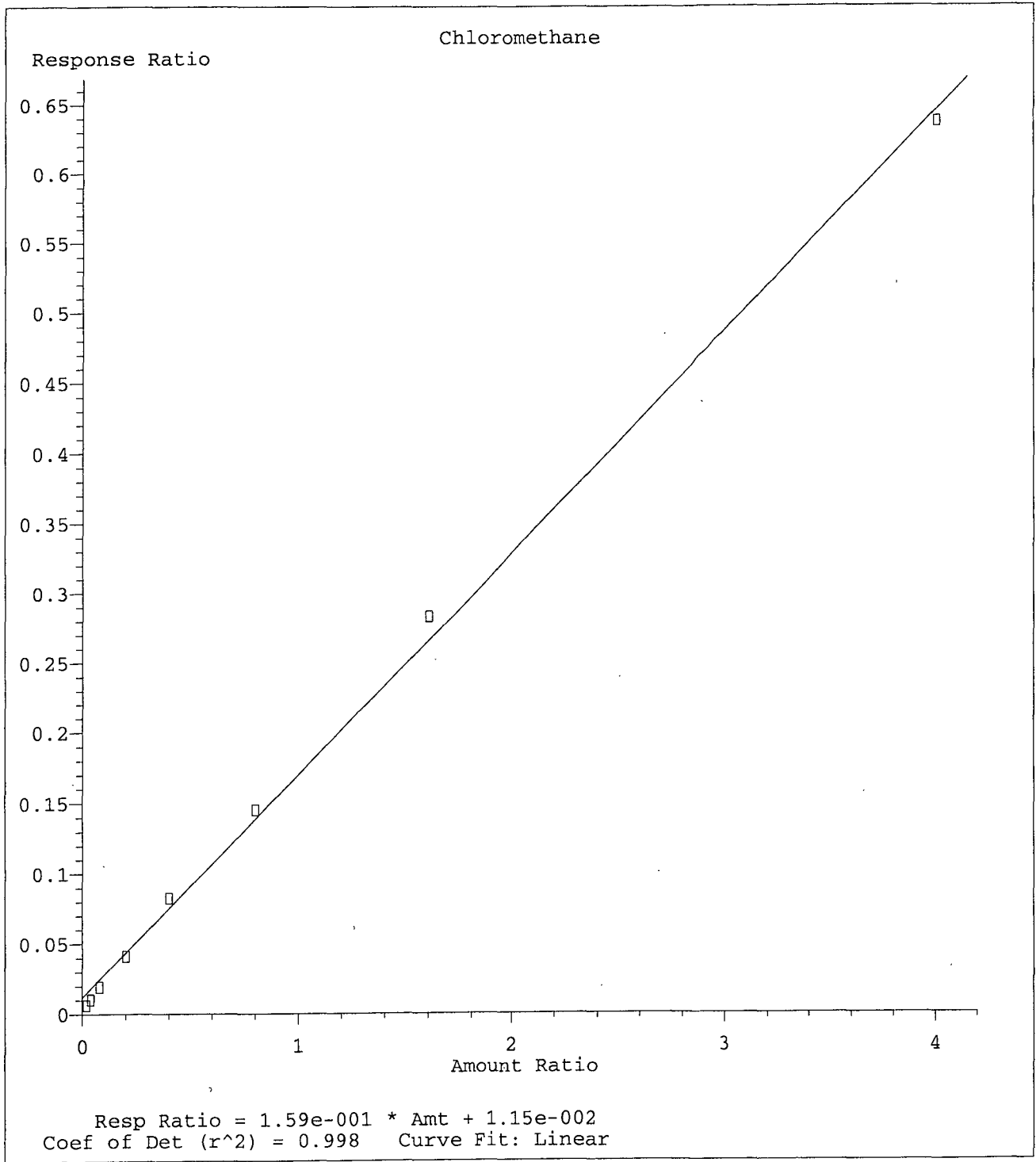
Dichlorodifluoromethane

Response Ratio

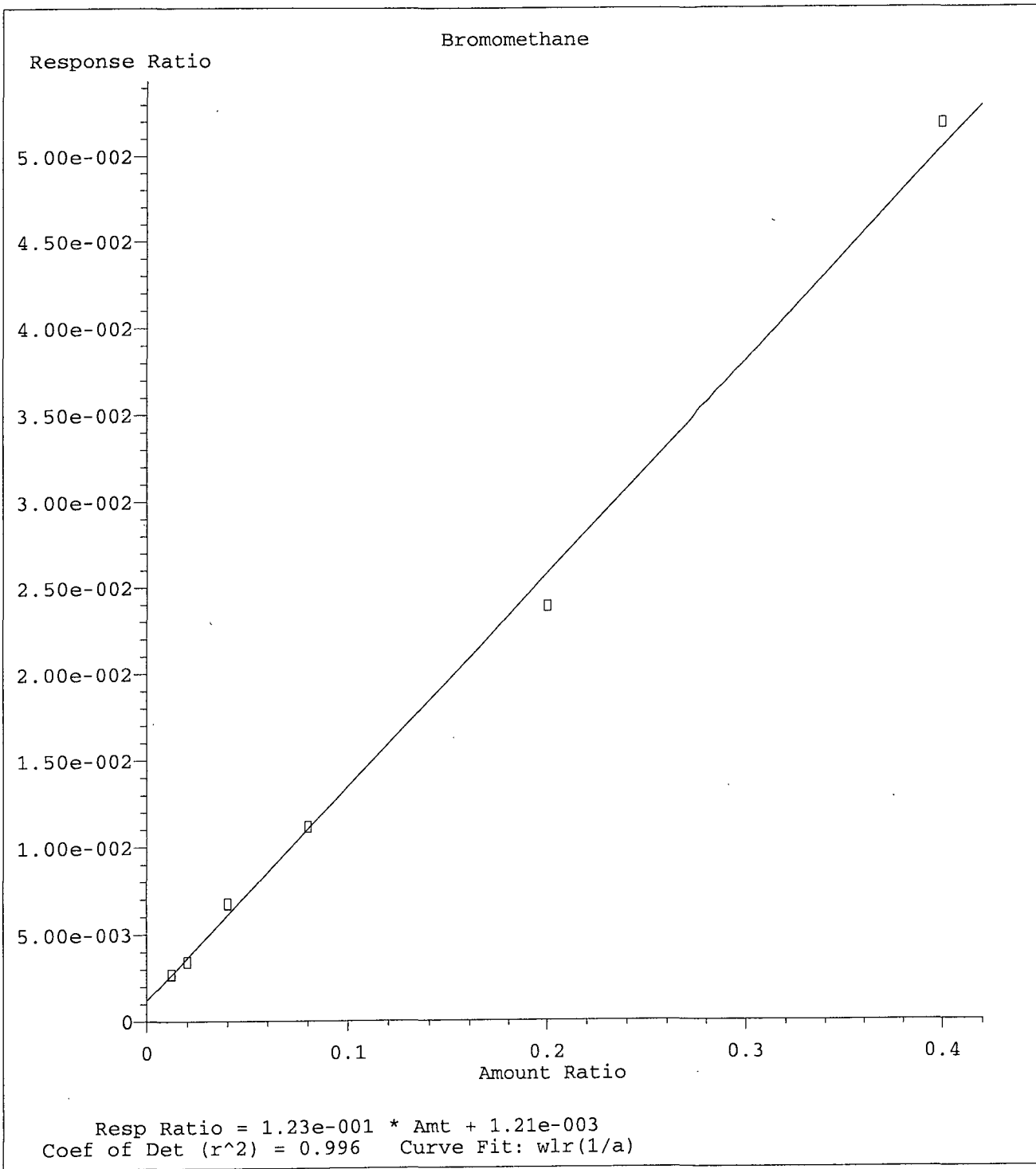


Resp Ratio = $5.56e-002 * Amt + 2.09e-003$
Coef of Det (r^2) = 0.999 Curve Fit: Linear

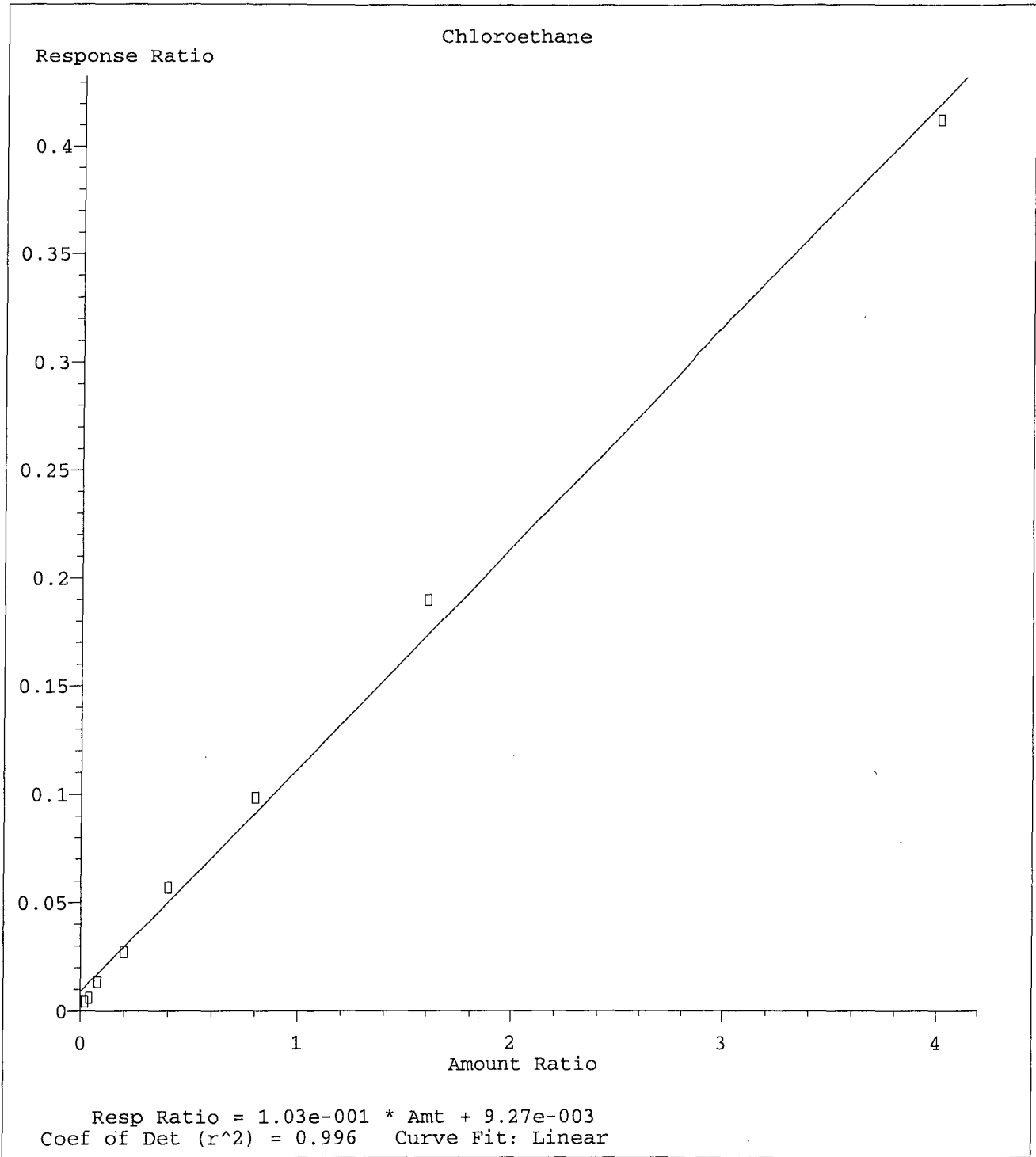
Method Name: M:\LOKI\DATA\190724\L0724W.M
Calibration Table Last Updated: Thu Jul 25 10:13:04 2019



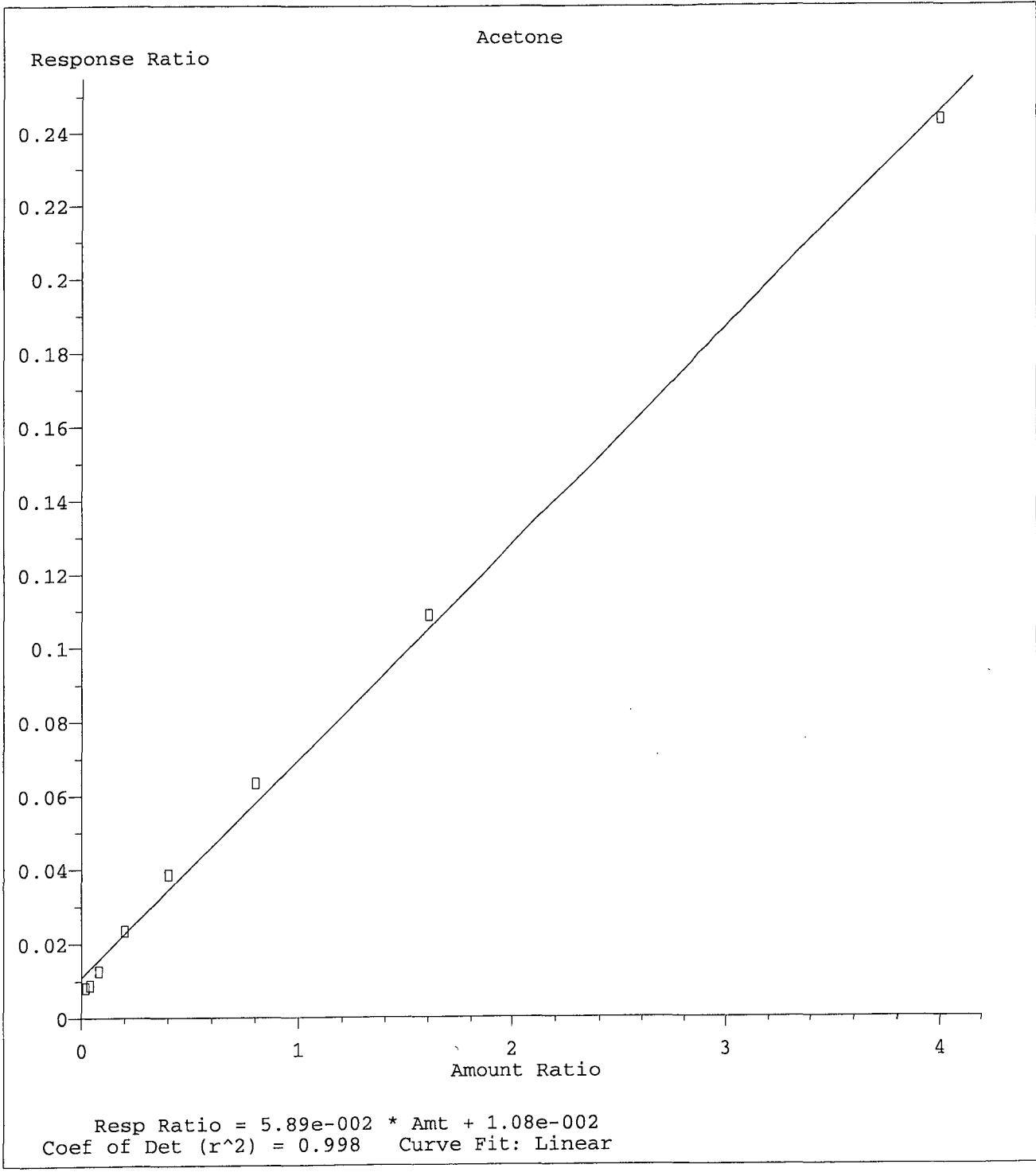
Method Name: M:\LOKI\DATA\190724\L0724W.M
Calibration Table Last Updated: Thu Jul 25 10:13:04 2019



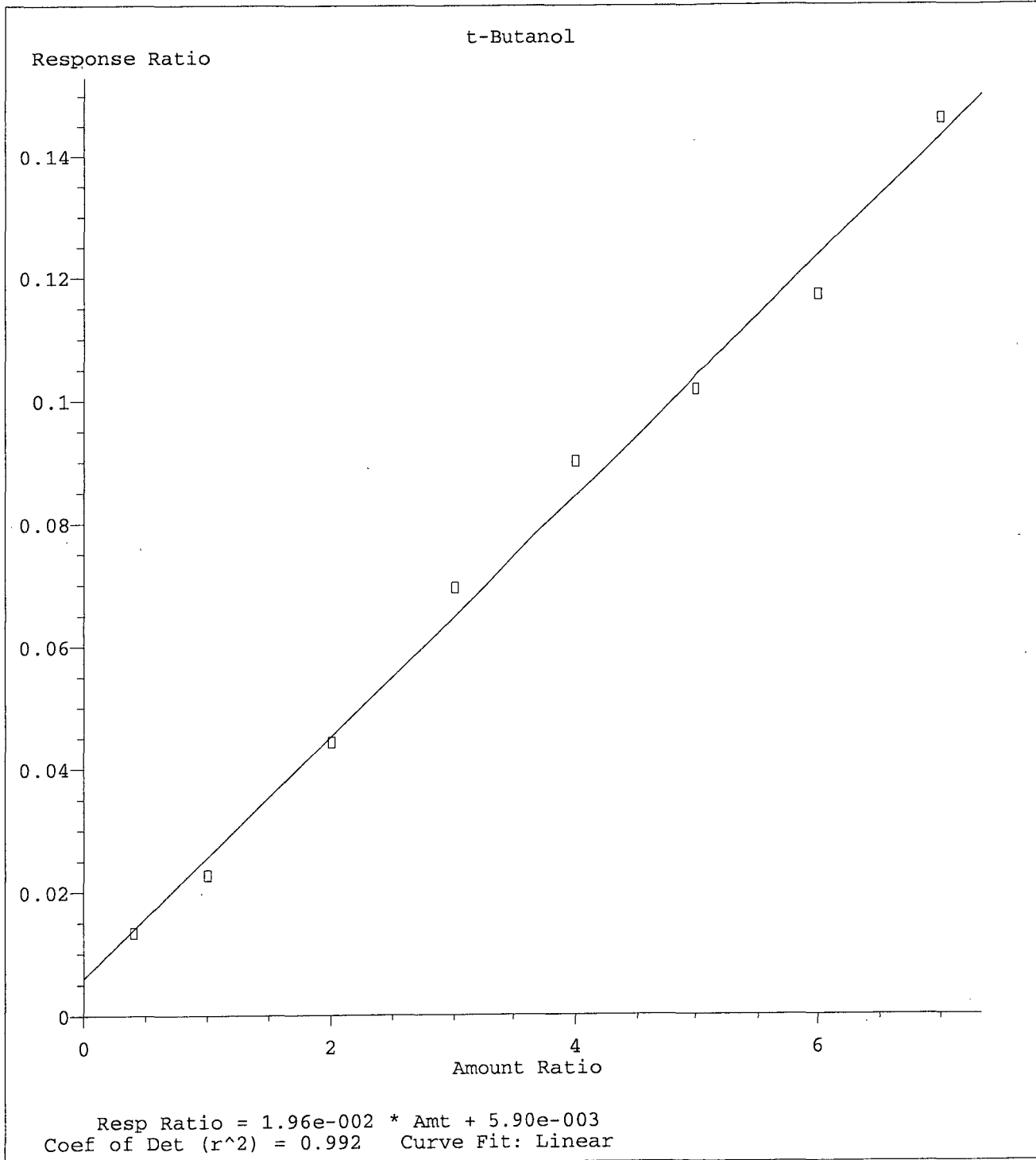
Method Name: M:\LOKI\DATA\190724\L0724W.M
 Calibration Table Last Updated: Thu Jul 25 10:13:04 2019



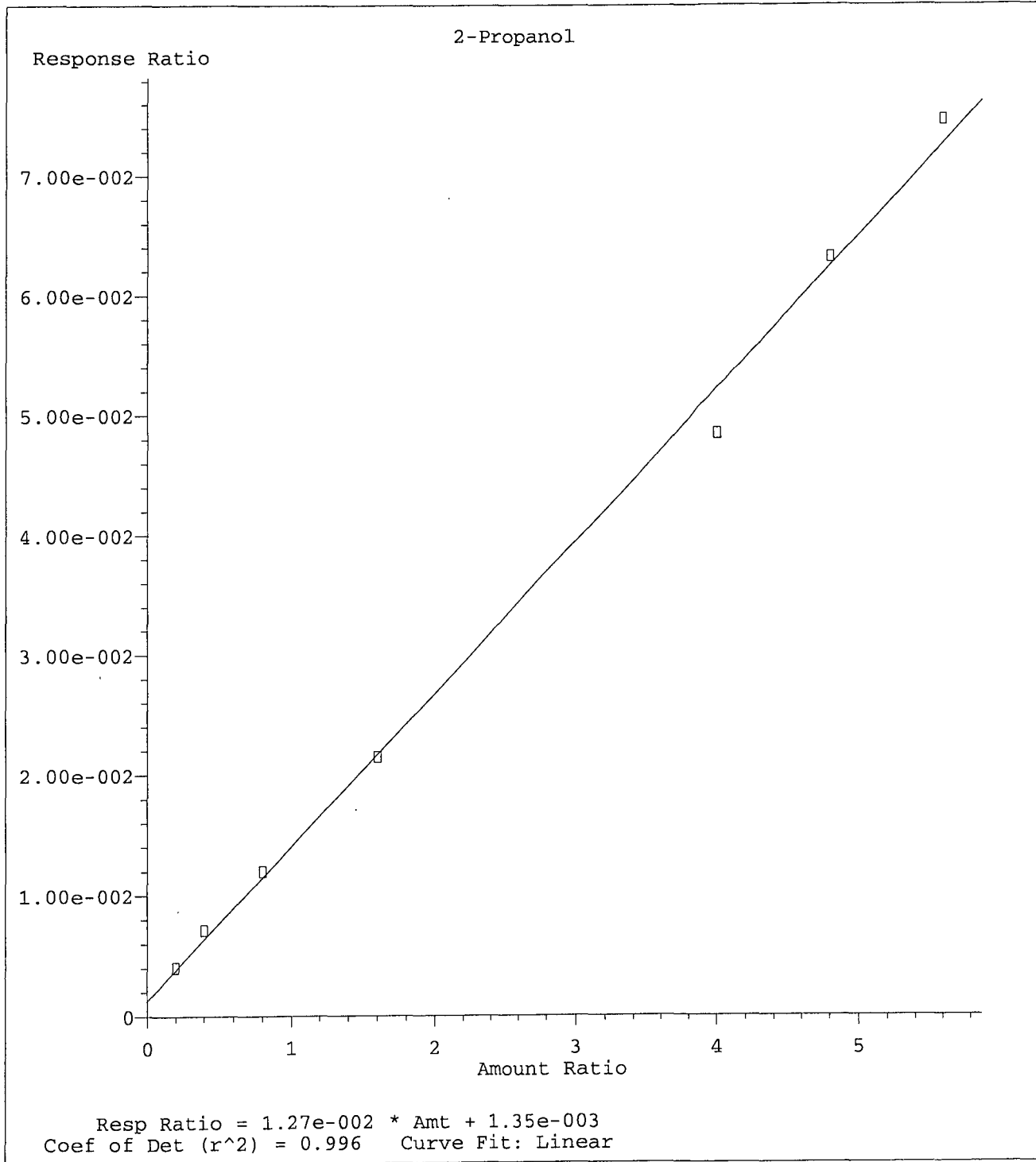
Method Name: M:\LOKI\DATA\190724\L0724W.M
Calibration Table Last Updated: Thu Jul 25 10:13:04 2019



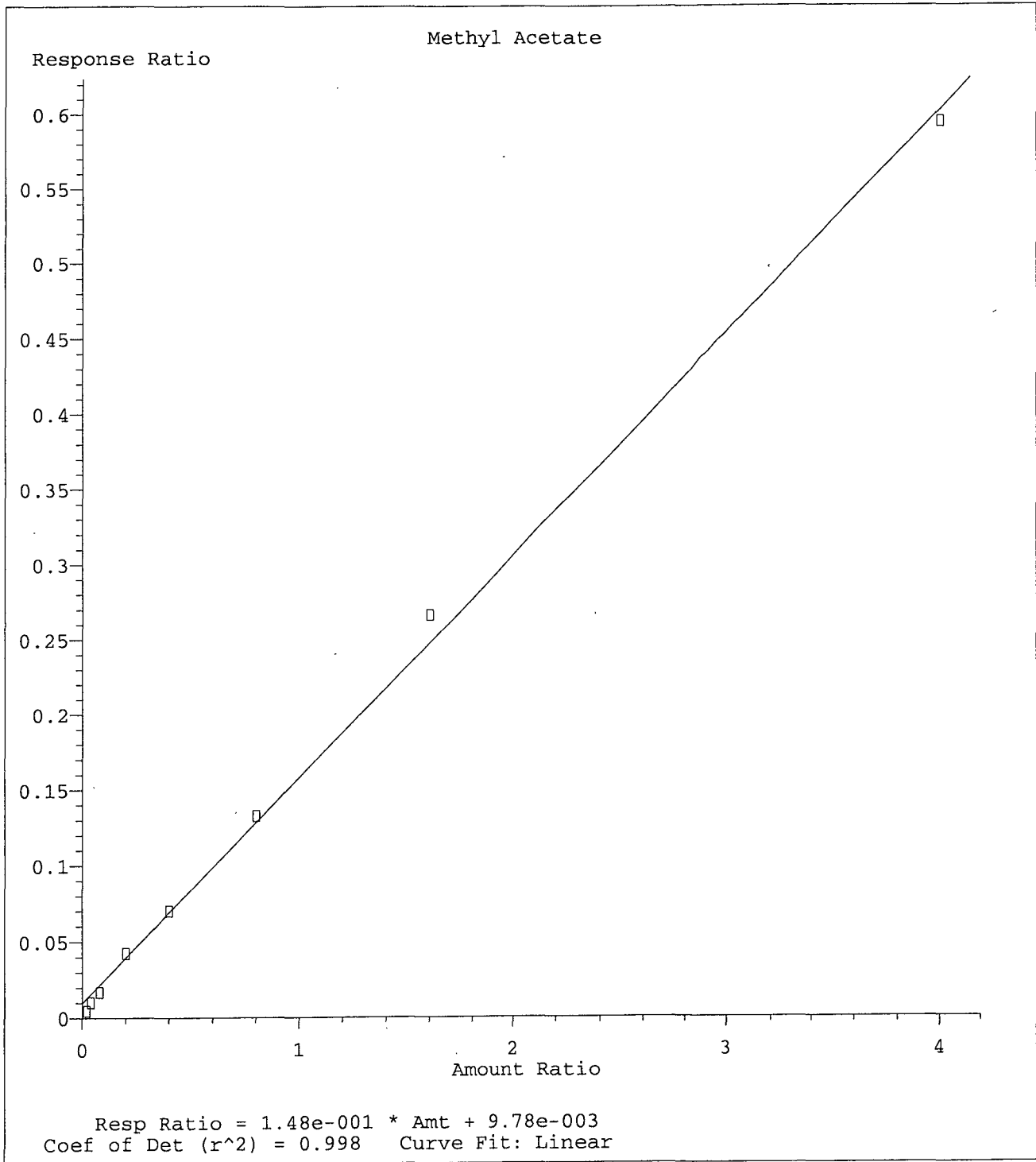
Method Name: M:\LOKI\DATA\190724\L0724W.M
Calibration Table Last Updated: Thu Jul 25 10:13:04 2019



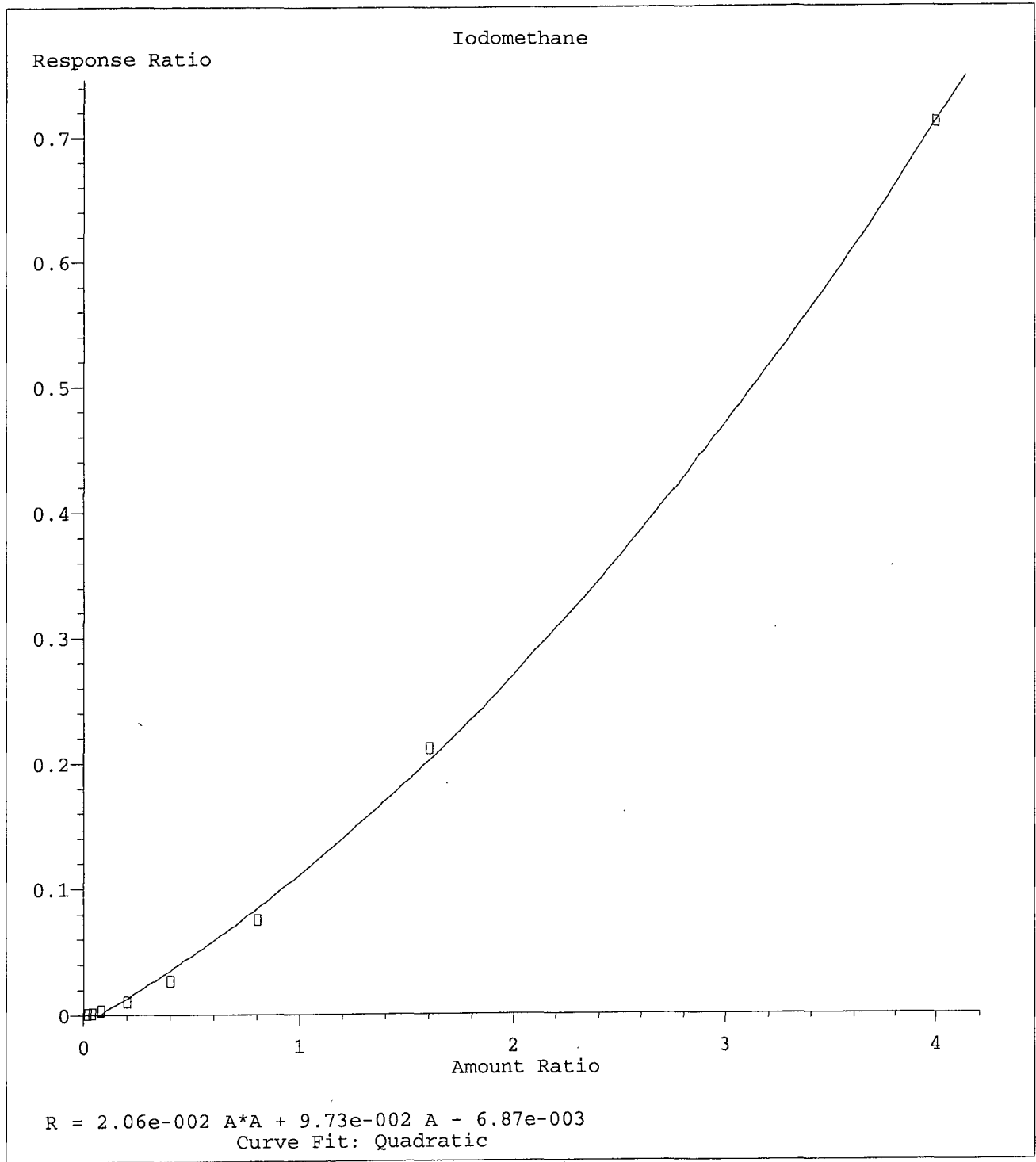
Method Name: M:\LOKI\DATA\190724\L0724W.M
Calibration Table Last Updated: Thu Jul 25 10:13:04 2019



Method Name: M:\LOKI\DATA\190724\L0724W.M
Calibration Table Last Updated: Thu Jul 25 10:13:04 2019

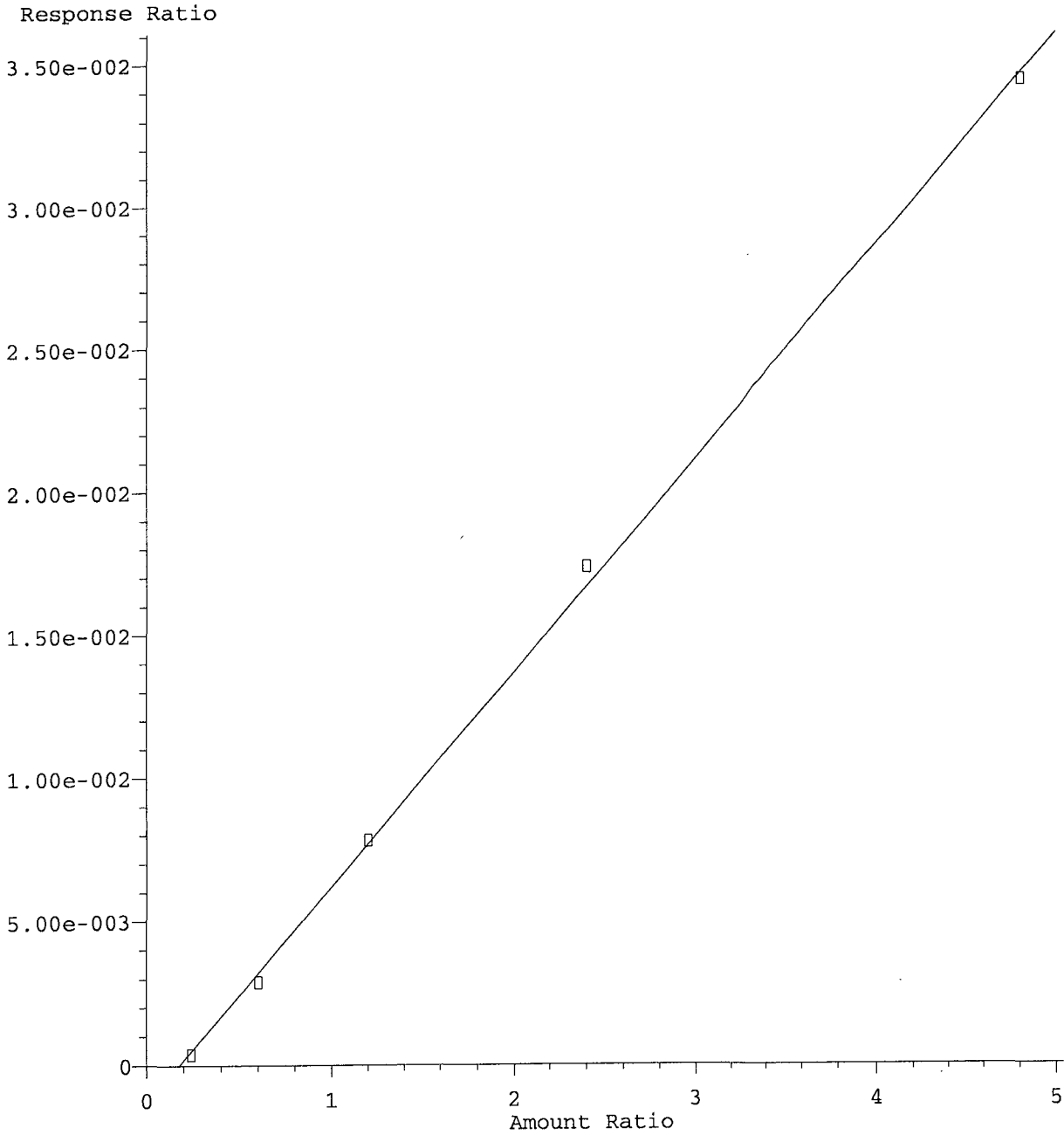


Method Name: M:\LOKI\DATA\190724\L0724W.M
Calibration Table Last Updated: Thu Jul 25 10:13:04 2019



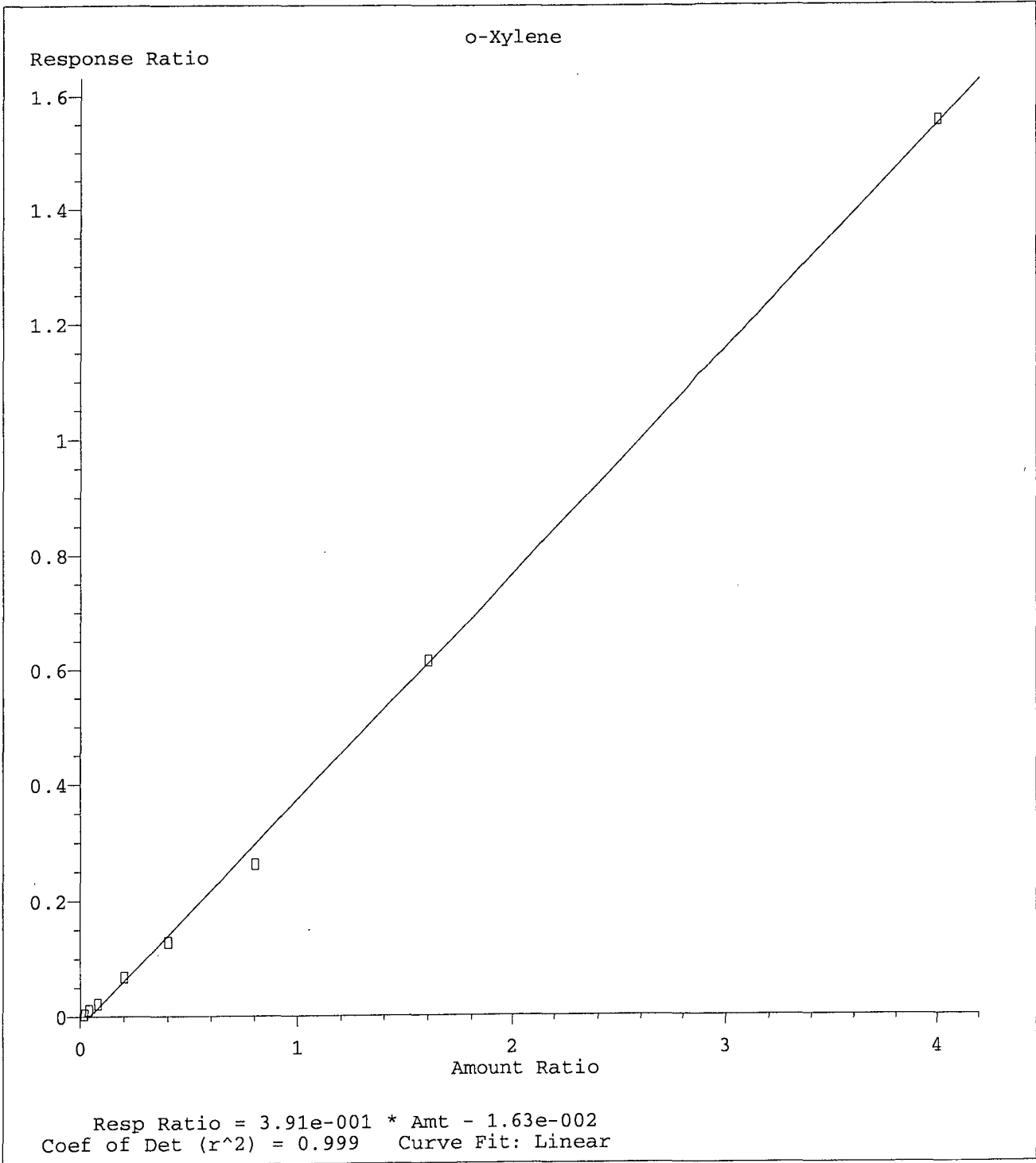
Method Name: M:\LOKI\DATA\190724\L0724W.M
Calibration Table Last Updated: Thu Jul 25 10:13:04 2019

2-Chloroethyl vinyl ether



Resp Ratio = $7.51e-003 * Amt - 1.30e-003$
Coef of Det (r^2) = 0.999 Curve Fit: Linear

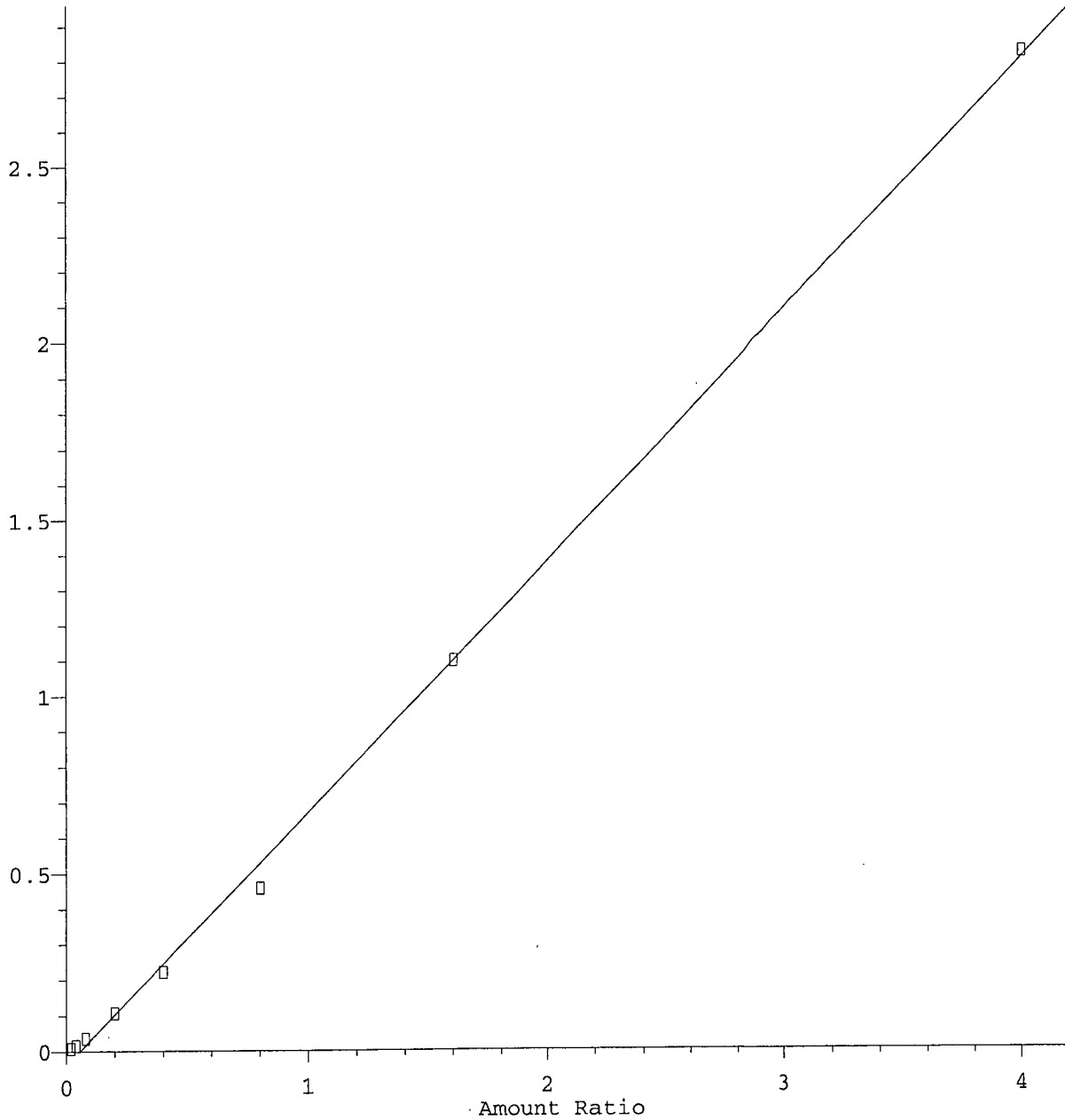
Method Name: M:\LOKI\DATA\190724\L0724W.M
Calibration Table Last Updated: Thu Jul 25 10:13:04 2019



Method Name: M:\LOKI\DATA\190724\L0724W.M
Calibration Table Last Updated: Thu Jul 25 10:13:04 2019

Styrene

Response Ratio

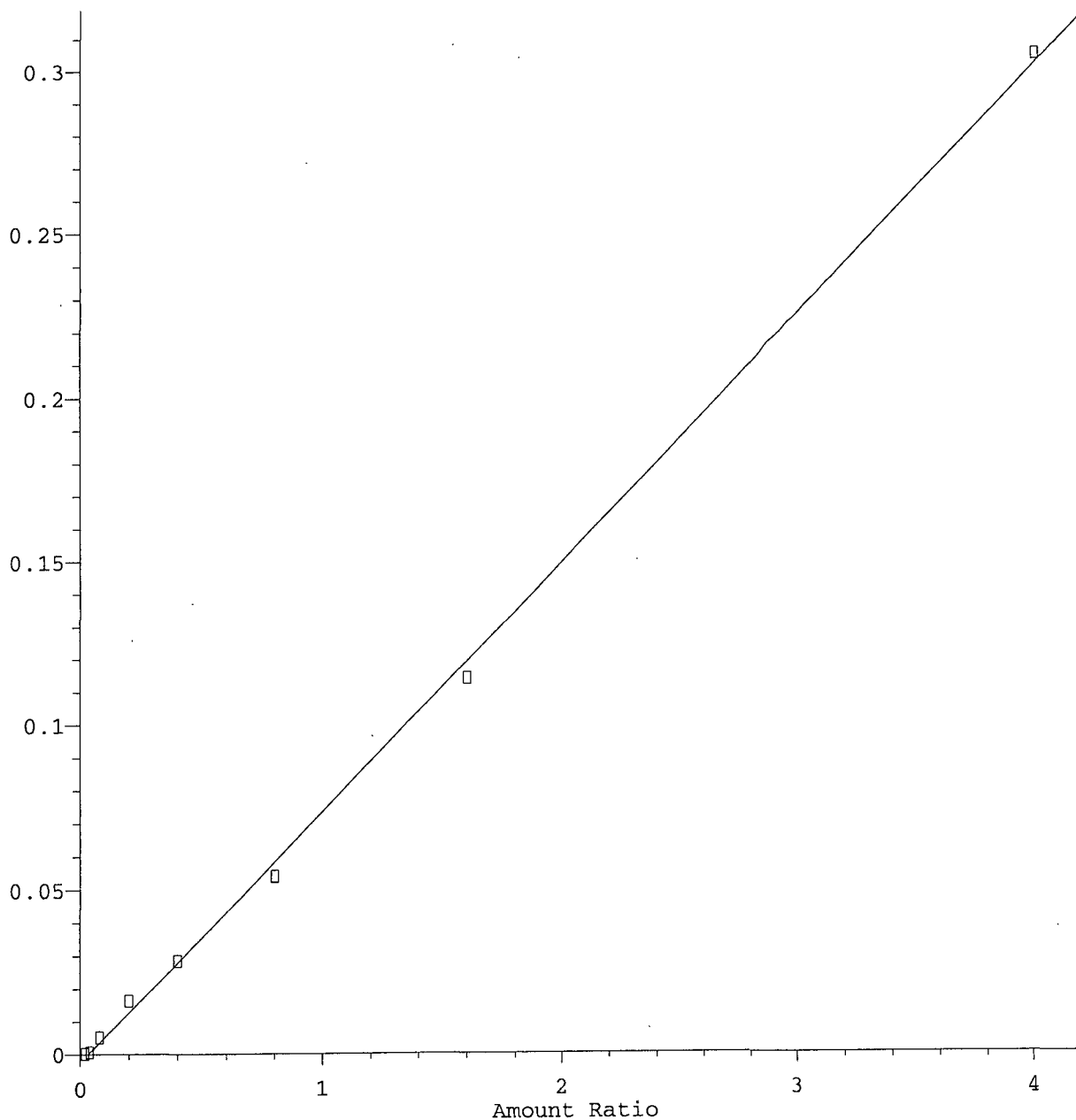


Resp Ratio = $7.11e-001 * Amt - 3.89e-002$
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: M:\LOKI\DATA\190724\L0724W.M
Calibration Table Last Updated: Thu Jul 25 10:13:04 2019

t-1,4-Dichloro-2-Butene

Response Ratio

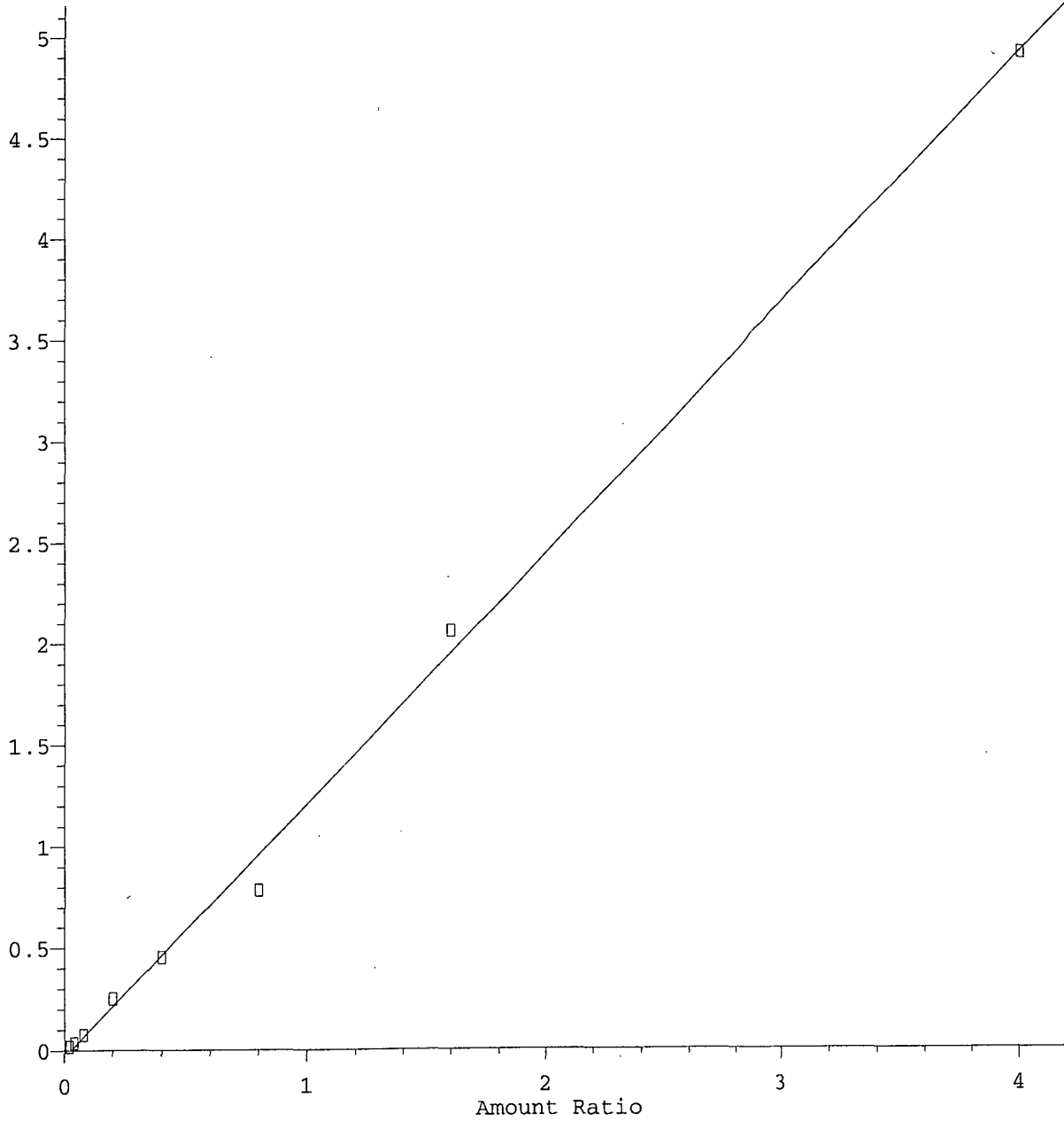


Resp Ratio = $7.61e-002 * Amt - 2.49e-003$
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: M:\LOKI\DATA\190724\L0724W.M
Calibration Table Last Updated: Thu Jul 25 10:13:04 2019

Tert-Butylbenzene

Response Ratio

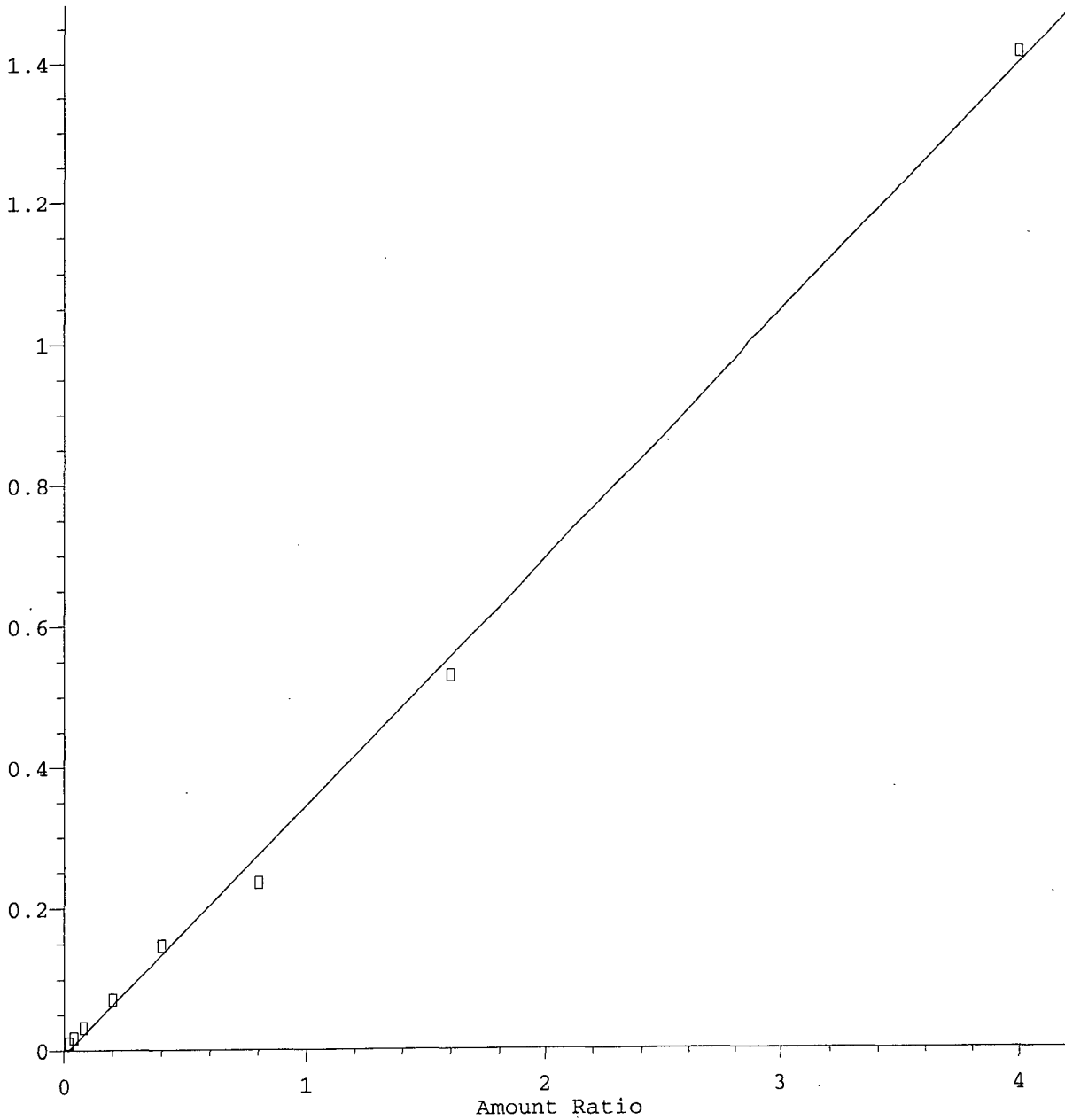


Resp Ratio = 1.24e+000 * Amt - 3.30e-002
Coef of Det (r^2) = 0.998 Curve Fit: Linear

Method Name: M:\LOKI\DATA\190724\L0724W.M
Calibration Table Last Updated: Thu Jul 25 10:13:04 2019

Benzyl Chloride

Response Ratio

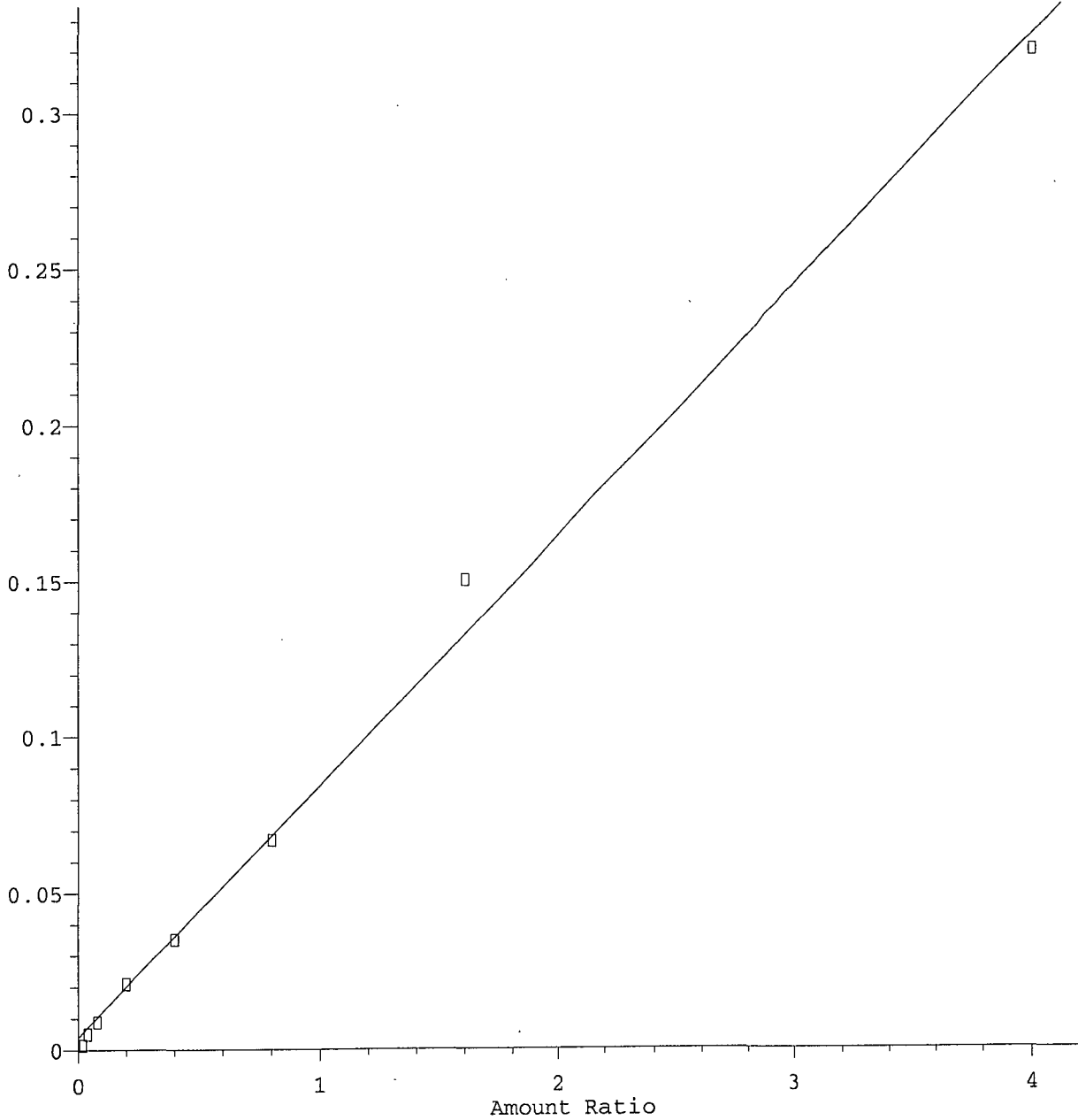


Resp Ratio = $3.51e-001 * Amt - 6.30e-003$
Coef of Det (r^2) = 0.998 Curve Fit: Linear

Method Name: M:\LOKI\DATA\190724\L0724W.M
Calibration Table Last Updated: Thu Jul 25 10:13:04 2019

1,2-Dibromo-3-chloropropane

Response Ratio

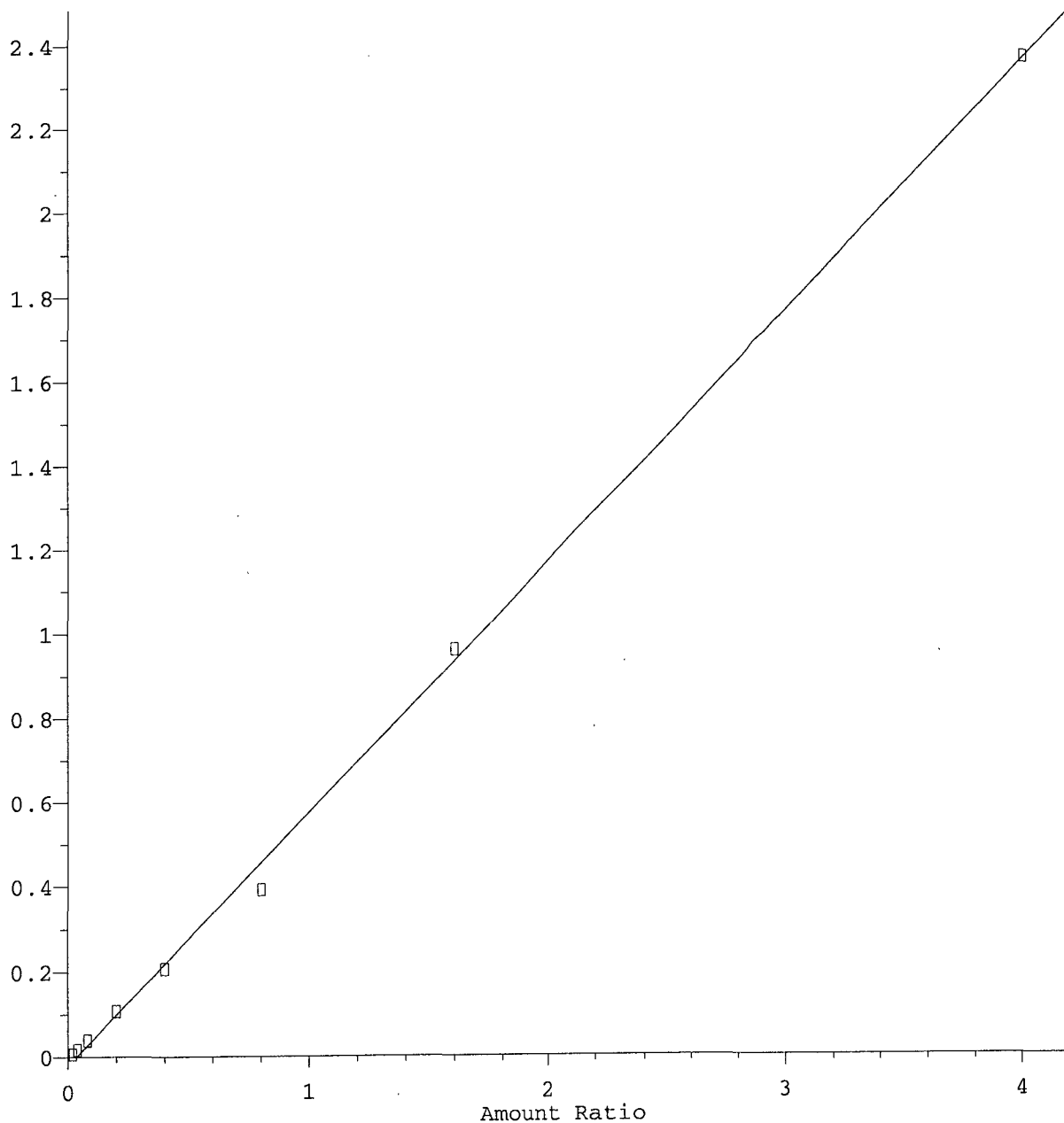


Resp Ratio = $8.05e-002 * Amt + 4.13e-003$
Coef of Det (r^2) = 0.996 Curve Fit: Linear

Method Name: M:\LOKI\DATA\190724\L0724W.M
Calibration Table Last Updated: Thu Jul 25 10:13:04 2019

1,2,4-Trichlorobenzene

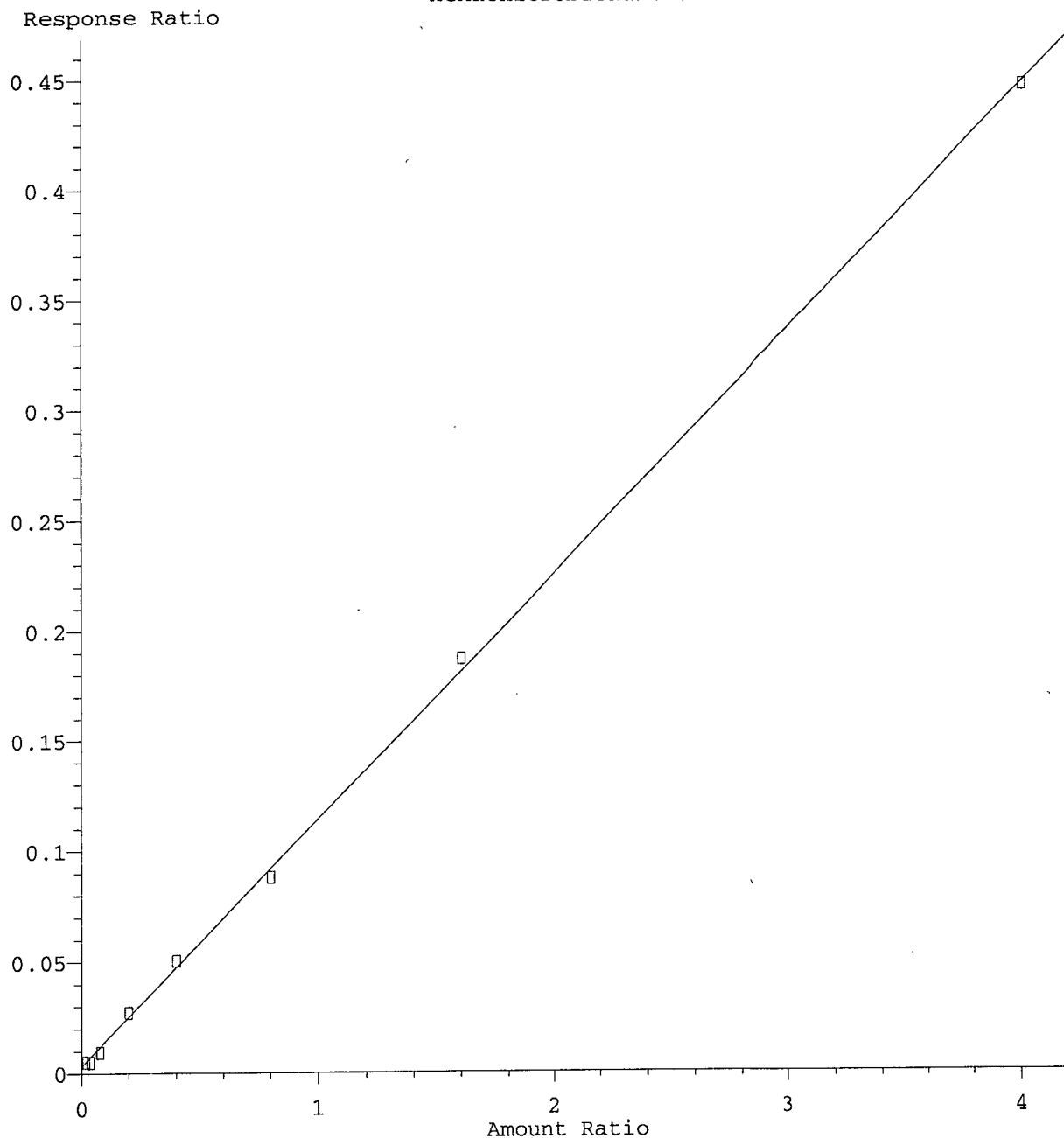
Response Ratio



Resp Ratio = 5.96e-001 * Amt - 2.01e-002
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: M:\LOKI\DATA\190724\L0724W.M
Calibration Table Last Updated: Thu Jul 25 10:13:04 2019

Hexachlorobutadiene

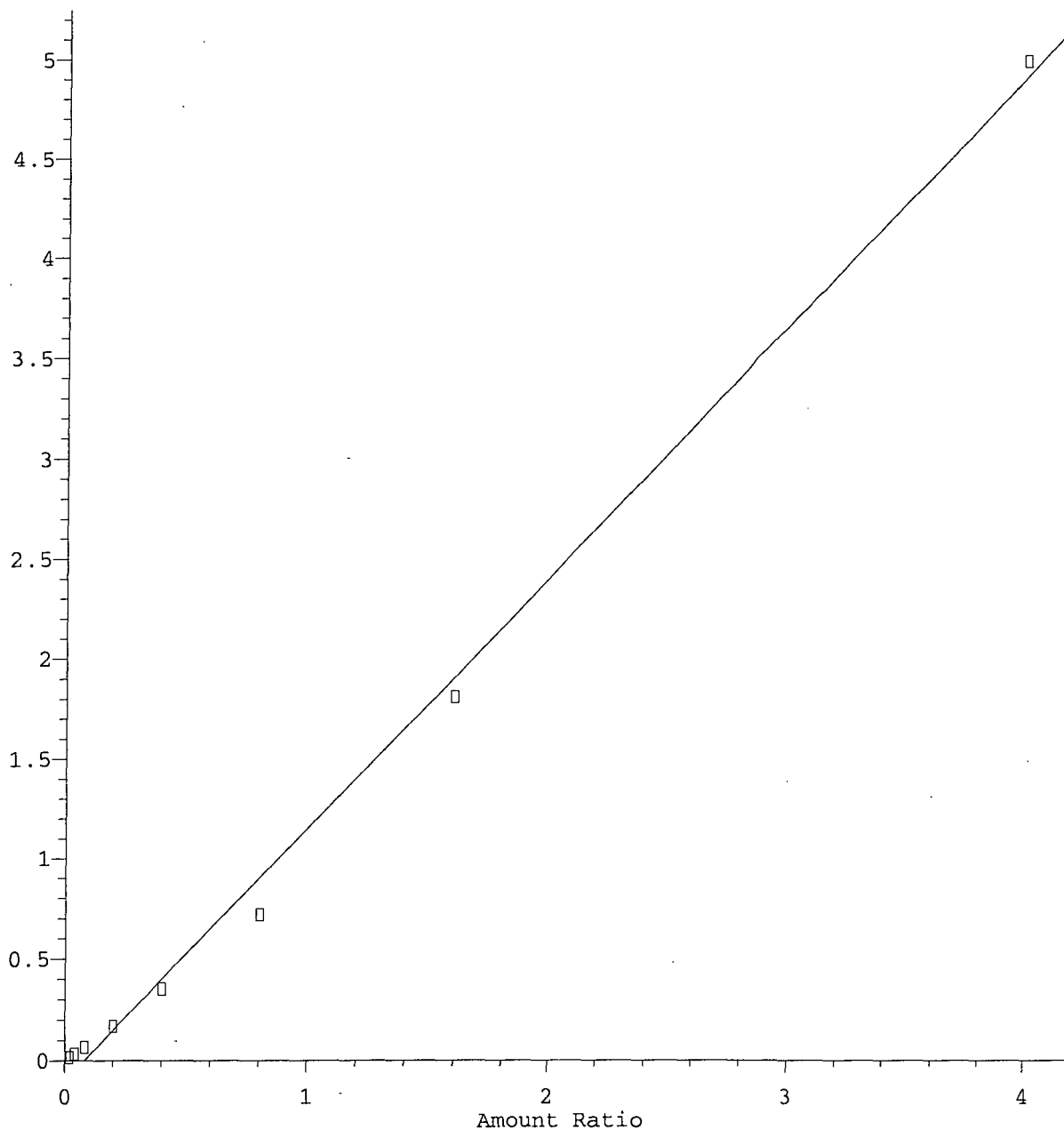


Resp Ratio = 1.11e-001 * Amt + 2.87e-003
Coef of Det (r^2) = 1.000 Curve Fit: Linear

Method Name: M:\LOKI\DATA\190724\L0724W.M
Calibration Table Last Updated: Thu Jul 25 10:13:04 2019

Naphthalene

Response Ratio



Resp Ratio = 1.26e+000 * Amt - 9.98e-002
Coef of Det (r^2) = 0.997 Curve Fit: Linear

Method Name: M:\LOKI\DATA\190724\L0724W.M
Calibration Table Last Updated: Thu Jul 25 10:13:04 2019

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/24/19
Instrument: Loki
Initial Cal. Date: 07/24/19
Data File: 0724L26-27.D

		Compound	MEAN	CCRF	%D	%Drift	
1	TM	Chlorotrifluoroethene	0.0794	0.0924	16	TM	
2	TML	Dichlorodifluoromethane	0.0658	0.0623	5.2	TML	2.7
3	TM	Freon 114	0.1781	0.1750	1.7	TM	
4	TM**L	Chloromethane	0.2185	0.1939	11	TM**L	4.1
5	TM*	Vinyl chloride	0.2145	0.2245	4.7	TM*	
6	TM	2-Chloro-1,1,1-trifluoroethane	2.794	3.108	11	TM	
7	TML	Bromomethane	0.1588	0.1458	8.2	TML	16
8	TML	Chloroethane	0.1451	0.1275	12	TML	1.4
9	TM	Dichlorofluoromethane	0.3604	0.3680	2.1	TM	
10	TM	Trichlorofluoromethane	0.2355	0.2380	1.1	TM	
11	TM	Diethyl ether	0.0000	0.0002	0.00	TM	
12	TM	Acrolein	0.0129	0.0138	7.1	TM	
13	TML	Acetone	0.1507	0.0953	37	TML	16
14	TM	Freon-113	0.2038	0.1909	6.4	TM	
15	TM*	1,1-DCE	0.1989	0.1887	5.1	TM*	
16	TML	t-Butanol	0.0231	0.0210	9.0	TML	0.94
17	TML	2-Propanol	0.0150	0.0142	5.1	TML	9.1
18	TM	Acetonitrile	0.0276	0.0280	1.4	TM	
19	TML	Methyl Acetate	0.1950	0.1750	10	TML	1.5
20	TMQ	Iodomethane	0.0797	0.0515	35	TMQ	33
21	TM	Acrylonitrile	0.0910	0.0961	5.6	TM	
22	TM	Methylene chloride	0.2362	0.2367	0.23	TM	
23	TM	Carbon disulfide	0.5632	0.5660	0.50	TM	
24	TM	Methyl t-butyl ether (MtBE)	0.5880	0.5977	1.6	TM	
25	TM	Trans-1,2-DCE	0.2206	0.2086	5.4	TM	
26	TM	Diisopropyl Ether	0.4569	0.4519	1.1	TM	
27	TM**	1,1-DCA	0.3596	0.3611	0.39	TM**	
28	TM	Vinyl Acetate	0.4569	0.4519	1.1	TM	
29	TM	Ethyl tert Butyl Ether	0.4073	0.4206	3.3	TM	
30	TM	MEK (2-Butanone)	0.0322	0.0328	1.9	TM	
31	TM	Cis-1,2-DCE	0.2357	0.2241	4.9	TM	
32	TM	2,2-Dichloropropane	0.2660	0.2335	12	TM	
33	TM	3-Methylpentane	0.0000	0.1291	0.00	TM	
34	TM*	Chloroform	0.3867	0.3872	0.12	TM*	
35	TM	Bromochloromethane	0.1333	0.1403	5.3	TM	
36	TM	1,1,1-TCA	0.3239	0.3307	2.1	TM	
37	TM	Cyclohexane	0.1164	0.1168	0.37	TM	
38	TM	1,1-Dichloropropene	0.2169	0.2156	0.60	TM	
39	TM	2,2,4-Trimethylpentane	0.3618	0.3338	7.7	TM	
40	TM	Carbon Tetrachloride	0.3106	0.3066	1.3	TM	

* NT

Average

6.1

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 07/24/19
Instrument: Loki
Cal. Date: 07/24/19
Data File: 0724L26-27.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	Tert Amyl Methyl Ether	0.4237	0.4195	1.0	TM
42	TM	Methylcyclopentane	0.0000	0.0379	0.00	TM
43	TM	1,2-DCA	0.2881	0.2978	3.4	TM
44	TM	Benzene	0.7219	0.7647	5.9	TM
45	TM	TCE	0.2429	0.2614	7.6	TM
46	TM	2-Pentanone	0.1149	0.1226	6.7	TM
47	TM*	1,2-Dichloropropane	0.1924	0.1786	7.1	TM*
48	TM	Bromodichloromethane	0.2967	0.3050	2.8	TM
49	TM	Methyl Cyclohexane	0.2139	0.2078	2.8	TM
50	TM	Dibromomethane	0.1454	0.1567	7.8	TM
51	TML	2-Chloroethyl vinyl ether	0.0055	0.0039	29	TML 34*
52	TM	MIBK (methyl isobutyl ketone)	0.1498	0.1638	9.4	TM
53	TM	1-Bromo-2-chloroethane	0.2732	0.2915	6.7	TM
54	TM	Cis-1,3-Dichloropropene	0.2839	0.2694	5.1	TM
55	TM*	Toluene	0.7820	0.8278	5.8	TM*
56	TM	Trans-1,3-Dichloropropene	0.2497	0.2609	4.5	TM
57	TM	1,1,2-TCA	0.1716	0.1787	4.2	TM
58	TM	2-Hexanone	0.0886	0.0984	11	TM
59	TM	1,2-EDB	0.2298	0.2346	2.1	TM
60	TM	Tetrachloroethene	0.3408	0.3302	3.1	TM
61	TM	1-Chlorohexane	0.2163	0.2179	0.76	TM
62	TM	1,1,1,2-Tetrachloroethane	0.2949	0.2892	1.9	TM
63	TM	m&p-Xylene	0.6605	0.6594	0.18	TM
64	TML	o-Xylene	0.3115	0.3323	6.7	TML 4.7
65	TML	Styrene	0.5372	0.5614	4.5	TML 7.4
66	TM	1,3-Dichloropropane	0.3570	0.3554	0.46	TM
67	TM	Dibromochloromethane	0.2966	0.2891	2.6	TM
68	TM**	Chlorobenzene	0.6441	0.6618	2.8	TM**
69	TM*	Ethylbenzene	0.8602	0.8740	1.6	TM*
70	TM**	Bromoform	0.2439	0.2472	1.4	TM**
71	TM	Isopropylbenzene	0.7829	0.8003	2.2	TM
72	TM**	1,1,2,2-Tetrachloroethane	0.5203	0.4981	4.3	TM**
73	TM	1,2,3-Trichloropropane	0.1831	0.1824	0.39	TM
74	TML	t-1,4-Dichloro-2-Butene	0.0571	0.0782	37	TML 11
75	TM	Bromobenzene	0.5255	0.5343	1.7	TM
76	TM	n-Propylbenzene	1.547	1.582	2.2	TM
77	TM	4-Ethyltoluene	1.381	1.378	0.20	TM
78	TM	2-Chlorotoluene	0.5883	0.6501	10	TM
79	TM	1,3,5-Trimethylbenzene	1.225	1.291	5.4	TM
80	TM	4-Chlorotoluene	0.2353	0.2642	12	TM
	TML	Tert-Butylbenzene	1.075	1.237	15	TML 6.4
		Average			5.8	

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 07/24/19

Matrix: 0

Instrument: Loki

Cal. Date: 07/24/19

81		Compound	MEAN	CCRF	%D	%Drift
82	TM	1,2,4-Trimethylbenzene	1.155	1.186	2.8	TM
83	TM	Sec-Butylbenzene	1.400	1.500	7.1	TM
84	TM	p-Isopropyltoluene	1.290	1.372	6.4	TM
85	TML	Benzyl Chloride	0.3786	0.3090	18	TML 7.5
86	TM	1,3-DCB	0.9008	0.9446	4.9	TM
87	TM	1,4-DCB	0.9807	1.002	2.2	TM
88	TM	n-Butylbenzene	0.9508	0.9513	0.04	TM
89	TM	1,2-DCB	0.9114	0.8974	1.5	TM
90	TM	Hexachloroethane	0.3132	0.3032	3.2	TM
91	TML	1,2-Dibromo-3-chloropropane	0.0944	0.0892	5.5	TML 2.0
92	TML	1,2,4-Trichlorobenzene	0.4994	0.5171	3.5	TML 4.9
93	TML	Hexachlorobutadiene	0.1369	0.1100	20	TML 7.7
94	TML	Naphthalene	0.9257	0.9062	2.1	TML 7.9
95	TM	1,2,3-Trichlorobenzene	0.5201	0.5195	0.12	TM
96						
97						
98						
99						
100						
101						
102						
103						
104						
105						
106						
107						
108						
109						
110						
111						
112						
113						
114						
115						
116						
117						
118						
119						
120						

Average

5.5

Data File : M:\LOKI\DATA\190724\0724L26.D
 Acq On : 24 Jul 19 20:36
 Sample : SS 10ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 15
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:24 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	236544	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	223360	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	127400	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Dibromofluoromethane(S) Spiked Amount 25.000	4.81	111	104177	24.8644	ppb	0.00
			Recovery =	99.456%		
44) 1,2-DCA-D4(S) Spiked Amount 25.000	5.24	65	107852	25.0709	ppb	0.00
			Recovery =	100.284%		
65) Toluene-D8(S) Spiked Amount 25.000	7.63	98	337135	24.8423	ppb	0.00
			Recovery =	99.368%		
73) 4-Bromofluorobenzene(S) Spiked Amount 25.000	10.54	95	124246	26.4790	ppb	0.00
			Recovery =	105.916%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chlorotrifluoroethene	0.89	116	87456	116.3911	ppb	98
3) Dichlorodifluoromethane	0.91	87	5897	10.2718	ppb	95
4) Freon 114	0.99	85	16562	9.8265	ppb	99
5) Chloromethane	1.02	50	18351	10.4086	ppb	93
6) Vinyl chloride	1.09	62	21243	10.4662	ppb	92
7) 2-Chloro-1,1,1-trifluoroet	1.17	118	2940538	111.2258	ppb	100
8) Bromomethane	1.30	94	13799	11.6104	ppb	94
9) Chloroethane	1.38	64	12064	10.1400	ppb	95
10) Dichlorofluoromethane	1.54	67	34823	10.2126	ppb	99
11) Trichlorofluoromethane	1.57	103	22523	10.1100	ppb	95
13) Acrolein	1.90	56	16276	133.8333	ppb	89
14) Acetone	2.04	43	9014	11.5878	ppb	# 81
15) Freon-113	2.00	101	18062	9.3647	ppb	93
16) 1,1-DCE	1.98	96	17857	9.4891	ppb	97
17) t-Butanol	2.63	59	24821	126.1727	ppb	98
18) 2-Propanol	2.21	45	13456	109.1297	ppb	91
19) Acetonitrile	2.28	41	33116	126.7091	ppb	98
20) Methyl Acetate	2.36	43	16560	10.1526	ppb	# 73
21) Iodomethane	2.09	142	4870	6.6748	ppb	# 92
22) Acrylonitrile	2.69	53	9094	10.5592	ppb	92
23) Methylene chloride	2.43	84	22399	10.0226	ppb	95
24) Carbon disulfide	2.14	76	53553	10.0495	ppb	100
25) Methyl t-butyl ether (MtBE)	2.75	73	56549	10.1640	ppb	97
26) Trans-1,2-DCE	2.72	96	19738	9.4572	ppb	89
27) Diisopropyl Ether	3.40	45	42756	9.8904	ppb	94
29) 1,1-DCA	3.21	63	34162	10.0395	ppb	97
30) Vinyl Acetate	3.40	45	42756	9.8904	ppb	94
31) Ethyl tert Butyl Ether	3.94	59	39794	10.3261	ppb	99
32) MEK (2-Butanone)	4.16	43	3106	10.1901	ppb	94
33) Cis-1,2-DCE	4.07	96	21203	9.5085	ppb	91
34) 2,2-Dichloropropane	4.05	77	22095	8.7789	ppb	# 91
37) Chloroform	4.59	83	36637	10.0123	ppb	94
38) Bromochloromethane	4.42	128	13274	10.5257	ppb	90
40) 1,1,1-TCA	4.80	97	31291	10.2098	ppb	97
41) Cyclohexane	4.87	41	11049	10.0365	ppb	84
42) 1,1-Dichloropropene	5.04	75	20401	9.9396	ppb	97
43) 2,2,4-Trimethylpentane	5.49	57	31588	9.2265	ppb	98
45) Carbon Tetrachloride	5.03	117	29011	9.8718	ppb	99
46) Tert Amyl Methyl Ether	5.55	73	39689	9.8996	ppb	93

(#) = qualifier out of range (m) = manual integration
 0724L26.D L0724W.M Thu Jul 25 10:24:23 2019

Data File : M:\LOKI\DATA\190724\0724L26.D
 Acq On : 24 Jul 19 20:36
 Sample : SS 10ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 15
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:24 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator).
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) 1,2-DCA	5.35	62	28181	10.3370	ppb	92
49) Benzene	5.30	78	72356	10.5928	ppb	100
50) TCE	6.18	130	24736	10.7611	ppb #	88
51) 2-Pentanone	6.47	43	144983	133.3887	ppb	99
52) 1,2-Dichloropropane	6.43	63	16903	9.2861	ppb	98
53) Bromodichloromethane	6.80	83	28858	10.2797	ppb #	99
54) Methyl Cyclohexane	6.40	83	19659	9.7154	ppb	93
55) Dibromomethane	6.57	93	14822	10.7752	ppb	97
57) MIBK (methyl isobutyl ket	7.56	43	15498	10.9379	ppb	94
58) 1-Bromo-2-chloroethane	7.13	63	27585	10.6711	ppb	90
59) Cis-1,3-Dichloropropene	7.34	75	25491	9.4883	ppb	100
60) Toluene	7.71	91	78321	10.5846	ppb	98
61) Trans-1,3-Dichloropropene	7.99	75	24686	10.4479	ppb	100
62) 1,1,2-TCA	8.18	83	16909	10.4163	ppb	98
63) 2-Hexanone	8.51	43	9314	11.1071	ppb	95
66) 1,2-EDB	8.70	107	20959	10.2096	ppb	95
67) Tetrachloroethene	8.32	166	29501	9.6902	ppb	97
68) 1-Chlorohexane	9.29	91	19471	10.0755	ppb	94
69) 1,1,1,2-Tetrachloroethane	9.37	131	25839	9.8076	ppb	95
70) m&p-Xylene	9.55	91	117821	19.9643	ppb	96
71) o-Xylene	9.97	106	29687	9.5322	ppb	92
72) Styrene	9.99	104	50161	9.2605	ppb	96
74) 1,3-Dichloropropane	8.36	76	31752	9.9541	ppb	100
75) Dibromochloromethane	8.60	129	25826	9.7445	ppb	77
76) Chlorobenzene	9.27	112	59132	10.2758	ppb	95
77) Ethylbenzene	9.41	91	78085	10.1601	ppb	98
78) Bromoform	10.16	173	22085	10.1360	ppb	98
80) Isopropylbenzene	10.39	105	40784	10.2230	ppb	99
81) 1,1,2,2-Tetrachloroethane	10.72	83	25383	9.5727	ppb	94
82) 1,2,3-Trichloropropane	10.74	110	9295	9.9611	ppb #	76
83) t-1,4-Dichloro-2-Butene	10.77	53	3984	11.0883	ppb	95
84) Bromobenzene	10.68	156	27229	10.1685	ppb	95
85) n-Propylbenzene	10.84	91	80603	10.2227	ppb	95
86) 4-Ethyltoluene	10.97	105	70221	9.9802	ppb	99
87) 2-Chlorotoluene	10.90	91	33128	11.0492	ppb	98
88) 1,3,5-Trimethylbenzene	11.04	105	65794	10.5361	ppb	96
89) 4-Chlorotoluene	11.03	126	13463	11.2281	ppb	86
90) Tert-Butylbenzene	11.39	119	63036	10.6387	ppb	94
91) 1,2,4-Trimethylbenzene	11.44	105	60454	10.2752	ppb	98
92) Sec-Butylbenzene	11.63	105	76420	10.7087	ppb	98
93) p-Isopropyltoluene	11.79	119	69928	10.6383	ppb	97
94) Benzyl Chloride	11.96	91	15745	9.2528	ppb	96
95) 1,3-DCB	11.72	146	48137	10.4863	ppb	94
96) 1,4-DCB	11.81	146	51067	10.2186	ppb	98
97) n-Butylbenzene	12.23	91	48476	10.0045	ppb	99
98) 1,2-DCB	12.20	146	45730	9.8463	ppb	96
99) Hexachloroethane	12.49	201	15450	9.6789	ppb	97
100) 1,2-Dibromo-3-chloropropan	13.04	75	4547	9.7970	ppb	90
101) 1,2,4-Trichlorobenzene	13.95	180	26351	9.5131	ppb	92
102) Hexachlorobutadiene	14.16	223	5608	9.2264	ppb #	81
103) Naphthalene	14.21	128	46179	9.2054	ppb	96
104) 1,2,3-Trichlorobenzene	14.48	180	26473	9.9877	ppb	98

(#) = qualifier out of range (m) = manual integration
 0724L26.D L0724W.M Thu Jul 25 10:24:24 2019

Quantitation Report

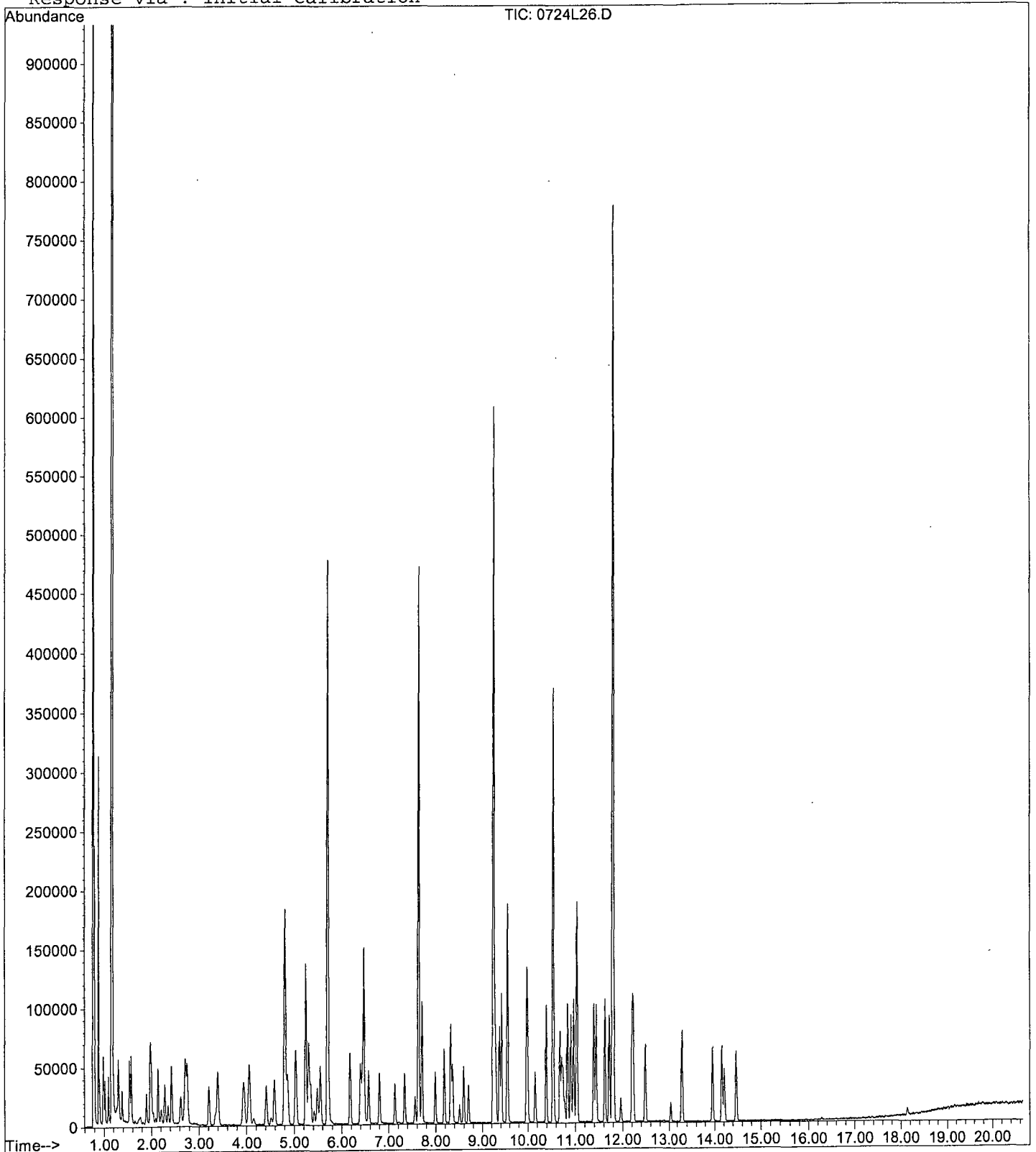
Data File : M:\LOKI\DATA\190724\0724L26.D
Acq On : 24 Jul 19 20:36
Sample : SS 10ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 15
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:24 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L27.D
 Acq On : 24 Jul 19 21:04
 Sample : SS 30ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 16
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:24 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	250176	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	234688	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	117704	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	108036	24.3804	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.520%	
44) 1,2-DCA-D4(S)	5.25	65	108295	23.8021	ppb	0.00
Spiked Amount	25.000		Recovery	=	95.208%	
65) Toluene-D8(S)	7.63	98	321376	22.5380	ppb	0.00
Spiked Amount	25.000		Recovery	=	90.152%	
73) 4-Bromofluorobenzene(S)	10.54	95	104779	21.2524	ppb	0.00
Spiked Amount	25.000		Recovery	=	85.008%	
Target Compounds						
56) 2-Chloroethyl vinyl ether	7.22	63	1162	19.7731	ppb	Qvalue # 89

Quantitation Report

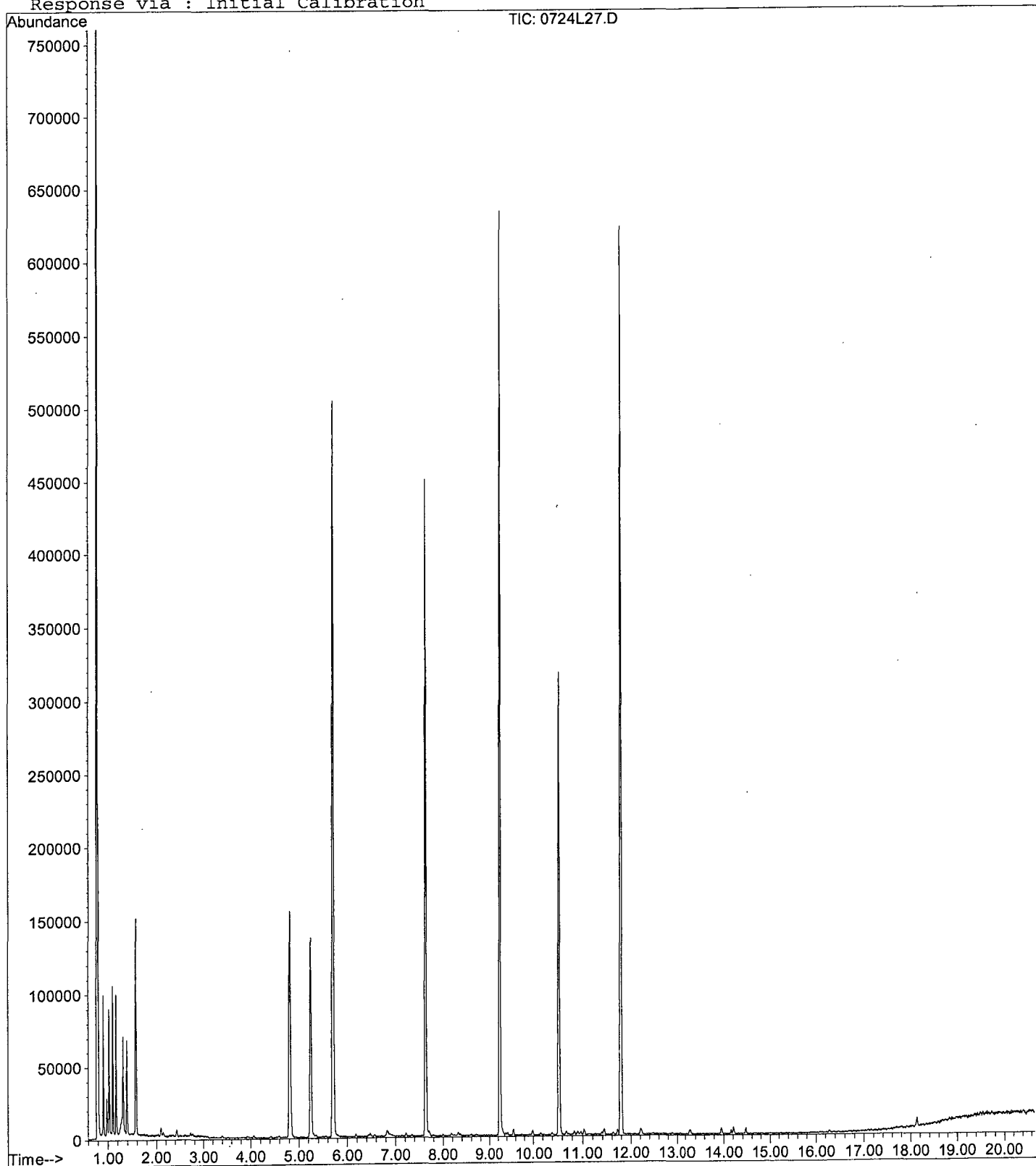
Data File : M:\LOKI\DATA\190724\0724L27.D
Acq On : 24 Jul 19 21:04
Sample : SS 30ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 16
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:24 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/27/19
Instrument: Loki
Initial Cal. Date: 07/24/19
Data File: 0727L20.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	TML	Dichlorodifluoromethane	0.0658	0.0727	11	TML	21 * NT
3	TM	Freon 114	0.1781	0.1699	4.6	TM	
4	TM**L	Chloromethane	0.2185	0.1928	12	TM**L	3.3
5	TM*	Vinyl chloride	0.2145	0.2208	3.0	TM*	
6	TM	2-Chloro-1,1,1-trifluoroethane	2.794	0.0001	100	TM	* NT
7	TML	Bromomethane	0.1588	0.1697	6.8	TML	36 * NT
8	TML	Chloroethane	0.1451	0.1209	17	TML	5.0
9	TM	Dichlorofluoromethane	0.3604	0.3151	13	TM	
10	TM	Trichlorofluoromethane	0.2355	0.2527	7.3	TM	
11	TM	Acrolein	0.0129	0.0113	12	TM	
12	TML	Acetone	0.1507	0.0885	41	TML	4.3
13	TM	Freon-113	0.2038	0.1943	4.7	TM	
14	TM*	1,1-DCE	0.1989	0.2081	4.6	TM*	
15	TML	t-Butanol	0.0231	0.0195	15	TML	6.5
16	TML	2-Propanol	0.0150	0.0003	98	TML	100 * NT
17	TM	Acetonitrile	0.0276	0.0226	18	TM	
18	TML	Methyl Acetate	0.1950	0.1346	31	TML	26 * NT
19	TMQ	Iodomethane	0.0797	0.0548	31	TMQ	30 * NT
20	TM	Acrylonitrile	0.0910	0.0788	13	TM	
21	TM	Methylene chloride	0.2362	0.2305	2.4	TM	
22	TM	Carbon disulfide	0.5632	0.5039	11	TM	
23	TM	Methyl t-butyl ether (MtBE)	0.5880	0.5166	12	TM	
24	TM	Trans-1,2-DCE	0.2206	0.2466	12	TM	
25	TM	Diisopropyl Ether	0.4569	0.3835	16	TM	
26	TM**	1,1-DCA	0.3596	0.3626	0.83	TM**	
27	TM	Vinyl Acetate	0.4569	0.3835	16	TM	
28	TM	Ethyl tert Butyl Ether	0.4073	0.3514	14	TM	
29	TM	MEK (2-Butanone)	0.0322	0.0333	3.3	TM	
30	TM	Cis-1,2-DCE	0.2357	0.2402	1.9	TM	
31	TM	2,2-Dichloropropane	0.2660	0.2620	1.5	TM	
32	TM	3-Methylpentane	0.0000	0.1066	0.00	TM	
33	TM*	Chloroform	0.3867	0.4198	8.6	TM*	
34	TM	Bromochloromethane	0.1333	0.1663	25	TM	* NT
35	S	Dibromofluoromethane(S)	0.4428	0.4588	3.6	S	
36	TM	1,1,1-TCA	0.3239	0.3758	16	TM	
37	TM	Cyclohexane	0.1164	0.0986	15	TM	
38	TM	1,1-Dichloropropene	0.2169	0.2296	5.8	TM	
39	TM	2,2,4-Trimethylpentane	0.3618	0.3161	13	TM	
40	S	1,2-DCA-D4(S)	0.4547	0.4594	1.0	S	

Average

15.9

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 07/27/19
Instrument: Loki
Cal. Date: 07/24/19
Data File: 0727L20.D

		Compound	MEAN	CCRF	%D	%Drift	
41	TM	Carbon Tetrachloride	0.3106	0.3691	19	TM	
42	TM	Tert Amyl Methyl Ether	0.4237	0.3877	8.5	TM	
43	TM	Methylcyclopentane	0.0000	0.0330	0.00	TM	
44	TM	1,2-DCA	0.2881	0.3309	15	TM	
45	TM	Benzene	0.7219	0.8240	14	TM	
46	TM	TCE	0.2429	0.3132	29	TM	* NT
47	TM	2-Pentanone	0.1149	0.1151	0.18	TM	
48	TM*	1,2-Dichloropropane	0.1924	0.2015	4.8	TM*	
49	TM	Bromodichloromethane	0.2967	0.3395	14	TM	
50	TM	Methyl Cyclohexane	0.2139	0.1983	7.3	TM	
51	TM	Dibromomethane	0.1454	0.1825	26	TM	* NT
52	TML	2-Chloroethyl vinyl ether	0.0055	0.0007	88	TML	77 * NT
53	TM	MIBK (methyl isobutyl ketone)	0.1498	0.1646	9.9	TM	
54	TM	1-Bromo-2-chloroethane	0.2732	0.2572	5.9	TM	
55	TM	Cis-1,3-Dichloropropene	0.2839	0.2834	0.18	TM	
56	TM*	Toluene	0.7820	0.9242	18	TM*	
57	TM	Trans-1,3-Dichloropropene	0.2497	0.2472	1.0	TM	
58	TM	1,1,2-TCA	0.1716	0.1741	1.4	TM	
59	TM	2-Hexanone	0.0886	0.0976	10	TM	
60	I	Chlorobenzene-D5 (IS)	ISTD			I	
61	S	Toluene-D8(S)	1.519	1.476	2.8	S	
62	TM	1,2-EDB	0.2298	0.2673	16	TM	
63	TM	Tetrachloroethene	0.3408	0.3767	11	TM	
64	TM	1-Chlorohexane	0.2163	0.1787	17	TM	
65	TM	1,1,1,2-Tetrachloroethane	0.2949	0.3185	8.0	TM	
66	TM	m&p-Xylene	0.6605	0.7367	12	TM	
67	TML	o-Xylene	0.3115	0.3556	14	TML	1.3
68	TML	Styrene	0.5372	0.5770	7.4	TML	5.2
69	S	4-Bromofluorobenzene(S)	0.5252	0.5518	5.1	S	
70	TM	1,3-Dichloropropane	0.3570	0.3512	1.6	TM	
71	TM	Dibromochloromethane	0.2966	0.3435	16	TM	
72	TM**	Chlorobenzene	0.6441	0.7422	15	TM**	
73	TM*	Ethylbenzene	0.8602	0.9086	5.6	TM*	
74	TM**	Bromoform	0.2439	0.2682	10.0	TM**	
75	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
76	TM	Isopropylbenzene	0.7829	0.8431	7.7	TM	
77	TM**	1,1,2,2-Tetrachloroethane	0.5203	0.4934	5.2	TM**	
78	TM	1,2,3-Trichloropropane	0.1831	0.2017	10	TM	
79	TML	t-1,4-Dichloro-2-Butene	0.0571	0.0533	6.6	TML	22 * NT
80	TM	Bromobenzene	0.5255	0.5962	13	TM	

Average

12.0

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 07/27/19
Instrument: Loki
Cal. Date: 07/24/19
Data File: 0727L20.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	n-Propylbenzene	1.547	1.667	7.8	TM
82	TM	4-Ethyltoluene	1.381	1.321	4.3	TM
83	TM	2-Chlorotoluene	0.5883	0.6337	7.7	TM
84	TM	1,3,5-Trimethylbenzene	1.225	1.395	14	TM
85	TM	4-Chlorotoluene	0.2353	0.2672	14	TM
86	TML	Tert-Butylbenzene	1.075	1.151	7.1	TML 0.57
87	TM	1,2,4-Trimethylbenzene	1.155	1.234	6.9	TM
88	TM	Sec-Butylbenzene	1.400	1.560	11	TM
89	TM	p-Isopropyltoluene	1.290	1.432	11	TM
90	TML	Benzyl Chloride	0.3786	0.3079	19	TML 7.8
91	TM	1,3-DCB	0.9008	1.041	16	TM
92	TM	1,4-DCB	0.9807	1.124	15	TM
93	TM	n-Butylbenzene	0.9508	1.011	6.3	TM
94	TM	1,2-DCB	0.9114	1.004	10	TM
95	TM	Hexachloroethane	0.3132	0.3265	4.2	TM
96	TML	1,2-Dibromo-3-chloropropane	0.0944	0.0924	2.1	TML 1.9
97	TML	1,2,4-Trichlorobenzene	0.4994	0.5162	3.4	TML 5.0
98	TML	Hexachlorobutadiene	0.1369	0.1195	13	TML 0.75
99	TML	Naphthalene	0.9257	0.8653	6.5	TML 11
100	TM	1,2,3-Trichlorobenzene	0.5201	0.5110	1.8	TM
101						
102						
103						
104						
105						
106						
107						
108						
109						
110						
111						
112						
113						
114						
115						
116						
117						
118						
119						
120						

Average

9.1

Data File : M:\LOKI\DATA\190724\0727L20.D
 Acq On : 27 Jul 19 18:55
 Sample : 190727B CCV 10ug/L
 Misc : IS&S 7/15/19,6/5/19

Vial: 20
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:18 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	191296	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	181568	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	108024	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	87758	25.9000	ppb	0.00
Spiked Amount	25.000		Recovery	=	103.600%	
44) 1,2-DCA-D4(S)	5.24	65	87877	25.2594	ppb	0.00
Spiked Amount	25.000		Recovery	=	101.036%	
65) Toluene-D8(S)	7.63	98	268050	24.2980	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.192%	
73) 4-Bromofluorobenzene(S)	10.54	95	100191	26.2672	ppb	0.00
Spiked Amount	25.000		Recovery	=	105.068%	
Target Compounds						Qvalue
3) Dichlorodifluoromethane	0.91	87	5564	12.1411	ppb	98
4) Freon 114	0.99	85	13003	9.5397	ppb	87
5) Chloromethane	1.02	50	14750	10.3339	ppb	97
6) Vinyl chloride	1.09	62	16899	10.2953	ppb	98
8) Bromomethane	1.30	94	12986	13.5509	ppb	100
9) Chloroethane	1.38	64	9249	9.4956	ppb	88
10) Dichlorofluoromethane	1.54	67	24114	8.7447	ppb	99
11) Trichlorofluoromethane	1.57	103	19336	10.7324	ppb	86
13) Acrolein	1.90	56	10824	110.0552	ppb	# 79
14) Acetone	2.03	43	6769	10.4317	ppb	99
15) Freon-113	2.00	101	14866	9.5308	ppb	94
16) 1,1-DCE	1.98	96	15926	10.4648	ppb	92
17) t-Butanol	2.62	59	18679	116.8882	ppb	99
18) 2-Propanol	2.22	45	226	-0.3281	ppb	# 55
19) Acetonitrile	2.28	41	21634	102.3559	ppb	98
20) Methyl Acetate	2.36	43	10303	7.4301	ppb	# 83
21) Iodomethane	2.10	142	4196	6.9847	ppb	# 92
22) Acrylonitrile	2.69	53	6030	8.6577	ppb	88
23) Methylene chloride	2.43	84	17641	9.7607	ppb	88
24) Carbon disulfide	2.15	76	38558	8.9471	ppb	98
25) Methyl t-butyl ether (MtBE)	2.75	73	39526	8.7847	ppb	98
26) Trans-1,2-DCE	2.72	96	18870	11.1799	ppb	84
27) Diisopropyl Ether	3.39	45	29343	8.3932	ppb	95
29) 1,1-DCA	3.21	63	27746	10.0827	ppb	94
30) Vinyl Acetate	3.39	45	29343	8.3932	ppb	95
31) Ethyl tert Butyl Ether	3.94	59	26892	8.6288	ppb	96
32) MEK (2-Butanone)	4.15	43	2546	10.3286	ppb	99
33) Cis-1,2-DCE	4.07	96	18378	10.1911	ppb	96
34) 2,2-Dichloropropane	4.05	77	20049	9.8502	ppb	# 86
37) Chloroform	4.59	83	32126	10.8562	ppb	89
38) Bromochloromethane	4.42	128	12725	12.4771	ppb	91
40) 1,1,1-TCA	4.80	97	28755	11.6016	ppb	100
41) Cyclohexane	4.86	41	7543	8.4725	ppb	95
42) 1,1-Dichloropropene	5.04	75	17567	10.5833	ppb	92
43) 2,2,4-Trimethylpentane	5.49	57	24186	8.7354	ppb	97
45) Carbon Tetrachloride	5.02	117	28244	11.8841	ppb	96
46) Tert Amyl Methyl Ether	5.55	73	29663	9.1489	ppb	95
48) 1,2-DCA	5.35	62	25320	11.4844	ppb	96
49) Benzene	5.31	78	63050	11.4137	ppb	95

(#) = qualifier out of range (m) = manual integration
 0727L20.D L0724W.M Mon Jul 29 13:55:08 2019

Data File : M:\LOKI\DATA\190724\0727L20.D
 Acq On : 27 Jul 19 18:55
 Sample : 190727B CCV 10ug/L
 Misc : IS&S 7/15/19,6/5/19

Vial: 20
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:18 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) TCE	6.18	130	23966	12.8923	ppb	94
51) 2-Pentanone	6.46	43	110069	125.2198	ppb	94
52) 1,2-Dichloropropane	6.44	63	15421	10.4758	ppb	100
53) Bromodichloromethane	6.80	83	25975	11.4414	ppb #	96
54) Methyl Cyclohexane	6.40	83	15171	9.2709	ppb	96
55) Dibromomethane	6.57	93	13966	12.5544	ppb	96
56) 2-Chloroethyl vinyl ether	7.22	63	150	6.9237	ppb #	5
57) MIBK (methyl isobutyl ket	7.56	43	12595	10.9916	ppb	99
58) 1-Bromo-2-chloroethane	7.13	63	19680	9.4139	ppb	99
59) Cis-1,3-Dichloropropene	7.34	75	21688	9.9822	ppb	96
60) Toluene	7.71	91	70716	11.8174	ppb	99
61) Trans-1,3-Dichloropropene	7.99	75	18914	9.8984	ppb	96
62) 1,1,2-TCA	8.18	83	13318	10.1448	ppb	82
63) 2-Hexanone	8.51	43	7466	11.0093	ppb #	93
66) 1,2-EDB	8.70	107	19411	11.6319	ppb	86
67) Tetrachloroethene	8.32	166	27360	11.0555	ppb	94
68) 1-Chlorohexane	9.29	91	12977	8.2608	ppb	98
69) 1,1,1,2-Tetrachloroethane	9.37	131	23134	10.8020	ppb	100
70) m&p-Xylene	9.55	91	107002	22.3043	ppb	99
71) o-Xylene	9.98	106	25829	10.1290	ppb	95
72) Styrene	9.99	104	41907	9.4796	ppb	97
74) 1,3-Dichloropropane	8.36	76	25508	9.8372	ppb	93
75) Dibromochloromethane	8.60	129	24950	11.5808	ppb	93
76) Chlorobenzene	9.27	112	53903	11.5231	ppb	98
77) Ethylbenzene	9.41	91	65991	10.5628	ppb	96
78) Bromoform	10.16	173	19477	10.9965	ppb	99
80) Isopropylbenzene	10.39	105	36432	10.7701	ppb	97
81) 1,1,2,2-Tetrachloroethane	10.72	83	21320	9.4826	ppb	95
82) 1,2,3-Trichloropropane	10.74	110	8716	11.0160	ppb	92
83) t-1,4-Dichloro-2-Butene	10.78	53	2303	7.8192	ppb #	67
84) Bromobenzene	10.68	156	25761	11.3458	ppb	96
85) n-Propylbenzene	10.84	91	72050	10.7770	ppb	99
86) 4-Ethyltoluene	10.97	105	57083	9.5681	ppb	99
87) 2-Chlorotoluene	10.91	91	27384	10.7717	ppb	95
88) 1,3,5-Trimethylbenzene	11.04	105	60265	11.3817	ppb	98
89) 4-Chlorotoluene	11.03	126	11545	11.3556	ppb	91
90) Tert-Butylbenzene	11.38	119	49723	9.9434	ppb	97
91) 1,2,4-Trimethylbenzene	11.44	105	53328	10.6898	ppb	96
92) Sec-Butylbenzene	11.63	105	67402	11.1391	ppb	99
93) p-Isopropyltoluene	11.79	119	61880	11.1025	ppb	98
94) Benzyl Chloride	11.97	91	13303	9.2215	ppb	98
95) 1,3-DCB	11.72	146	45002	11.5617	ppb	97
96) 1,4-DCB	11.81	146	48584	11.4655	ppb	97
97) n-Butylbenzene	12.23	91	43666	10.6282	ppb	95
98) 1,2-DCB	12.21	146	43399	11.0205	ppb	95
99) Hexachloroethane	12.49	201	14108	10.4234	ppb #	79
100) 1,2-Dibromo-3-chloropropan	13.04	75	3992	10.1893	ppb	90
101) 1,2,4-Trichlorobenzene	13.95	180	22306	9.4986	ppb	96
102) Hexachlorobutadiene	14.16	223	5164	10.0751	ppb	91
103) Naphthalene	14.21	128	37391	8.8801	ppb	99
104) 1,2,3-Trichlorobenzene	14.48	180	22081	9.8250	ppb	96

(#) = qualifier out of range (m) = manual integration
 0727L20.D L0724W.M Mon Jul 29 13:55:09 2019

Quantitation Report

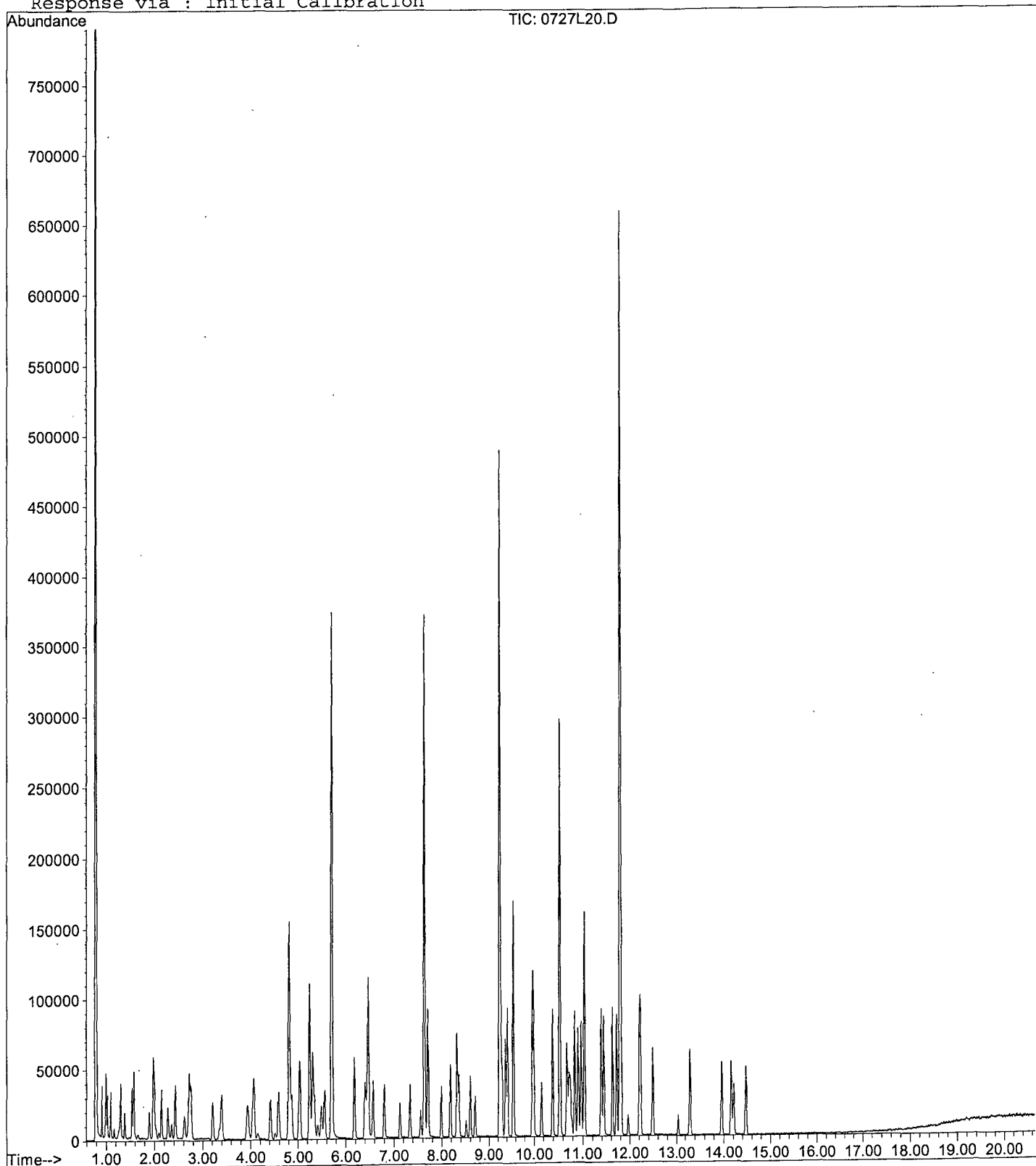
Data File : M:\LOKI\DATA\190724\0727L20.D
Acq On : 27 Jul 19 18:55
Sample : 190727B CCV 10ug/L
Misc : IS&S 7/15/19,6/5/19

Vial: 20
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:18 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 07/28/19

Matrix: _____

Instrument: Loki

Initial Cal. Date: 07/24/19

Data File: 0727L40.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	Fluorobenzene (IS)	ISTD			I
2	TML	Dichlorodifluoromethane	0.0658	0.0441	33	TML 30
3	TM	Freon 114	0.1781	0.1245	30	TM
4	TM**L	Chloromethane	0.2185	0.1387	37	TM**L 31
5	TM*	Vinyl chloride	0.2145	0.1660	23	TM*
6	TML	Bromomethane	0.1588	0.1342	16	TML 6.7
7	TML	Chloroethane	0.1451	0.0953	34	TML 30
8	TM	Dichlorofluoromethane	0.3604	0.2958	18	TM
9	TM	Trichlorofluoromethane	0.2355	0.1945	17	TM
10	TM	Acrolein	0.0129	0.0104	19	TM
11	TML	Acetone	0.1507	0.0751	50	TML 18
12	TM	Freon-113	0.2038	0.1660	19	TM
13	TM*	1,1-DCE	0.1989	0.1631	18	TM*
14	TML	t-Butanol	0.0231	0.0175	24	TML 17
15	TML	2-Propanol	0.0150	0.0002	99	TML 101
16	TM	Acetonitrile	0.0276	0.0201	27	TM
17	TML	Methyl Acetate	0.1950	0.1372	30	TML 24
18	TMQ	Iodomethane	0.0797	0.0505	37	TMQ 34
19	TM	Acrylonitrile	0.0910	0.0689	24	TM
20	TM	Methylene chloride	0.2362	0.2005	15	TM
21	TM	Carbon disulfide	0.5632	0.4130	27	TM
22	TM	Methyl t-butyl ether (MtBE)	0.5880	0.5013	15	TM
23	TM	Trans-1,2-DCE	0.2206	0.1888	14	TM
24	TM	Diisopropyl Ether	0.4569	0.3819	16	TM
25	TM**	2,2-Dichloro-1,1,1-trifluoroethane	0.0000	0.0002	0.00	TM**
26	TM**	1,1-DCA	0.3596	0.3027	16	TM**
27	TM	Vinyl Acetate	0.4569	0.3819	16	TM
28	TM	Ethyl tert Butyl Ether	0.4073	0.3707	9.0	TM
29	TM	MEK (2-Butanone)	0.0322	0.0301	6.5	TM
30	TM	Cis-1,2-DCE	0.2357	0.2086	11	TM
31	TM	2,2-Dichloropropane	0.2660	0.1720	35	TM
32	TM	2-Methylpentane	0.0000	0.0005	0.00	TM
33	TM	3-Methylpentane	0.0000	0.0965	0.00	TM
34	TM*	Chloroform	0.3867	0.3662	5.3	TM*
35	TM	Bromochloromethane	0.1333	0.1282	3.8	TM
36	S	Dibromofluoromethane(S)	0.4428	0.4123	6.9	S
37	TM	1,1,1-TCA	0.3239	0.3223	0.51	TM
38	TM	Cyclohexane	0.1164	0.0940	19	TM
39	TM	1,1-Dichloropropene	0.2169	0.1963	9.5	TM
40	TM	2,2,4-Trimethylpentane	0.3618	0.2601	28	TM

* NT

Average

20.7

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 07/28/19

Matrix: 0

Instrument: Loki

Cal. Date: 07/24/19

Data File: 0727L40.D

		Compound	MEAN	CCRF	%D	%Drift
41	S	1,2-DCA-D4(S)	0.4547	0.4035	11	S
42	TM	Carbon Tetrachloride	0.3106	0.3053	1.7	TM
43	TM	Tert Amyl Methyl Ether	0.4237	0.3591	15	TM
44	TM	Methylcyclopentane	0.0000	0.0363	0.00	TM
45	TM	1,2-DCA	0.2881	0.2835	1.6	TM
46	TM	Benzene	0.7219	0.6977	3.4	TM
47	TM	TCE	0.2429	0.2901	19	TM
48	TM	2-Pentanone	0.1149	0.1023	11	TM
49	TM*	1,2-Dichloropropane	0.1924	0.1738	9.7	TM*
50	TM	Bromodichloromethane	0.2967	0.2935	1.1	TM
51	TM	Methyl Cyclohexane	0.2139	0.1849	14	TM
52	TM	Dibromomethane	0.1454	0.1414	2.7	TM
53	TML	2-Chloroethyl vinyl ether	0.0055	0.0005	90	TML 78 * NT
54	TM	MIBK (methyl isobutyl ketone)	0.1498	0.1254	16	TM
55	TM	1-Bromo-2-chloroethane	0.2732	0.2552	6.6	TM
56	TM	Cis-1,3-Dichloropropene	0.2839	0.2368	17	TM
57	TM*	Toluene	0.7820	0.7733	1.1	TM*
58	TM	Trans-1,3-Dichloropropene	0.2497	0.2240	10	TM
59	TM	1,1,2-TCA	0.1716	0.1623	5.4	TM
60	TM	2-Hexanone	0.0886	0.0762	14	TM
61	I	Chlorobenzene-D5 (IS)	ISTD			I
62	S	Toluene-D8(S)	1.519	1.396	8.1	S
63	TM	1,2-EDB	0.2298	0.2245	2.3	TM
64	TM	Tetrachloroethene	0.3408	0.3179	6.7	TM
65	TM	1-Chlorohexane	0.2163	0.1918	11	TM
66	TM	1,1,1,2-Tetrachloroethane	0.2949	0.2890	2.0	TM
67	TM	m&p-Xylene	0.6605	0.6217	5.9	TM
68	TML	o-Xylene	0.3115	0.3068	1.5	TML 11
69	TML	Styrene	0.5372	0.5049	6.0	TML 15
70	S	4-Bromofluorobenzene(S)	0.5252	0.4975	5.3	S
71	TM	1,3-Dichloropropane	0.3570	0.3312	7.2	TM
72	TM	Dibromochloromethane	0.2966	0.2901	2.2	TM
73	TM**	Chlorobenzene	0.6441	0.6463	0.35	TM**
74	TM*	Ethylbenzene	0.8602	0.8007	6.9	TM*
75	TM**	Bromoform	0.2439	0.2356	3.4	TM**
76	I	1,4-Dichlorobenzene-D (IS)	ISTD			I
77	TM	Isopropylbenzene	0.7829	0.6978	11	TM
78	TM**	1,1,2,2-Tetrachloroethane	0.5203	0.3604	31	TM**
79	TM	1,2,3-Trichloropropane	0.1831	0.1742	4.8	TM
80	TML	t-1,4-Dichloro-2-Butene	0.0571	0.0439	23	TML 34

Average

10.2

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 07/28/19
Instrument: Loki
Cal. Date: 07/24/19
Data File: 0727L40.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Bromobenzene	0.5255	0.4981	5.2	TM
82	TM	n-Propylbenzene	1.547	1.345	13	TM
83	TM	4-Ethyltoluene	1.381	1.239	10	TM
84	TM	2-Chlorotoluene	0.5883	0.5198	12	TM
85	TM	1,3,5-Trimethylbenzene	1.225	1.129	7.9	TM
86	TM	4-Chlorotoluene	0.2353	0.1987	16	TM
87	TML	Tert-Butylbenzene	1.075	0.9455	12	TML 17
88	TM	1,2,4-Trimethylbenzene	1.155	1.055	8.6	TM
89	TM	Sec-Butylbenzene	1.400	1.278	8.7	TM
90	TM	p-Isopropyltoluene	1.290	1.183	8.3	TM
91	TML	Benzyl Chloride	0.3786	0.1622	57	TML 49
92	TM	1,3-DCB	0.9008	0.9179	1.9	TM
93	TM	1,4-DCB	0.9807	0.9492	3.2	TM
94	TM	n-Butylbenzene	0.9508	0.7670	19	TM
95	TM	1,2-DCB	0.9114	0.8350	8.4	TM
96	TM	Hexachloroethane	0.3132	0.2838	9.4	TM
97	TML	1,2-Dibromo-3-chloropropane	0.0944	0.0854	9.5	TML 6.7
98	TML	1,2,4-Trichlorobenzene	0.4994	0.4686	6.2	TML 13
99	TML	Hexachlorobutadiene	0.1369	0.0882	36	TML 27
100	TML	Naphthalene	0.9257	0.7338	21	TML 22
101	TM	1,2,3-Trichlorobenzene	0.5201	0.4542	13	TM
102						
103						
104						
105						
106						
107						
108						
109						
110						
111						
112						
113						
114						
115						
116						
117						
118						
119						
120						

Average

13.6

Data File : M:\LOKI\DATA\190724\0727L40.D
 Acq On : 28 Jul 19 4:31
 Sample : Ending CCV 10ug/L 07/27/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 40
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:57 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.71	96	207424	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	191168	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	117504	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	85523	23.2778	ppb	0.00
Spiked Amount	25.000		Recovery	=	93.112%	
44) 1,2-DCA-D4(S)	5.25	65	83687	22.1846	ppb	0.00
Spiked Amount	25.000		Recovery	=	88.740%	
65) Toluene-D8(S)	7.63	98	266832	22.9729	ppb	0.00
Spiked Amount	25.000		Recovery	=	91.892%	
73) 4-Bromofluorobenzene(S)	10.53	95	95102	23.6810	ppb	0.00
Spiked Amount	25.000		Recovery	=	94.724%	
Target Compounds						
3) Dichlorodifluoromethane	0.91	87	3663	7.0016	ppb	95
4) Freon 114	0.99	85	10327	6.9873	ppb	91
5) Chloromethane	1.02	50	11504	6.9225	ppb	96
6) Vinyl chloride	1.09	62	13770	7.7368	ppb	98
8) Bromomethane	1.30	94	11136	10.6656	ppb	97
9) Chloroethane	1.38	64	7909	7.0124	ppb	98
10) Dichlorofluoromethane	1.54	67	24540	8.2073	ppb	95
11) Trichlorofluoromethane	1.57	103	16140	8.2619	ppb	89
13) Acrolein	1.90	56	10803	101.3010	ppb	95
14) Acetone	2.04	43	6234	8.1679	ppb	# 85
15) Freon-113	2.00	101	13775	8.1447	ppb	86
16) 1,1-DCE	1.98	96	13536	8.2028	ppb	99
17) t-Butanol	2.62	59	18129	103.8370	ppb	96
18) 2-Propanol	2.22	45	185	-0.8970	ppb	# 1
19) Acetonitrile	2.28	41	20884	91.1248	ppb	98
20) Methyl Acetate	2.36	43	11381	7.6003	ppb	# 85
21) Iodomethane	2.09	142	4193	6.5886	ppb	88
22) Acrylonitrile	2.69	53	5719	7.5727	ppb	90
23) Methylene chloride	2.43	84	16634	8.4879	ppb	97
24) Carbon disulfide	2.15	76	34265	7.3327	ppb	97
25) Methyl t-butyl ether (MtBE)	2.75	73	41591	8.5249	ppb	99
26) Trans-1,2-DCE	2.72	96	15662	8.5578	ppb	95
27) Diisopropyl Ether	3.40	45	31683	8.3579	ppb	95
29) 1,1-DCA	3.21	63	25119	8.4183	ppb	91
30) Vinyl Acetate	3.40	45	31683	8.3579	ppb	95
31) Ethyl tert Butyl Ether	3.94	59	30754	9.1007	ppb	99
32) MEK (2-Butanone)	4.15	43	2498	9.3459	ppb	89
33) Cis-1,2-DCE	4.07	96	17307	8.8509	ppb	85
34) 2,2-Dichloropropane	4.05	77	14267	6.4644	ppb	# 88
37) Chloroform	4.59	83	30381	9.4683	ppb	99
38) Bromochloromethane	4.42	128	10633	9.6152	ppb	77
40) 1,1,1-TCA	4.80	97	26737	9.9487	ppb	89
41) Cyclohexane	4.86	41	7801	8.0810	ppb	92
42) 1,1-Dichloropropene	5.04	75	16286	9.0487	ppb	93
43) 2,2,4-Trimethylpentane	5.49	57	21582	7.1888	ppb	# 78
45) Carbon Tetrachloride	5.03	117	25332	9.8301	ppb	95
46) Tert Amyl Methyl Ether	5.56	73	29795	8.4751	ppb	95
48) 1,2-DCA	5.35	62	23520	9.8385	ppb	98
49) Benzene	5.31	78	57888	9.6645	ppb	98

(#) = qualifier out of range (m) = manual integration
 0727L40.D L0724W.M Mon Jul 29 13:59:12 2019

Data File : M:\LOKI\DATA\190724\0727L40.D
 Acq On : 28 Jul 19 4:31
 Sample : Ending CCV 10ug/L 07/27/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 40
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:57 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) TCE	6.17	130	24066	11.9395	ppb	91
51) 2-Pentanone	6.47	43	106102	111.3213	ppb	99
52) 1,2-Dichloropropane	6.44	63	14419	9.0335	ppb	99
53) Bromodichloromethane	6.80	83	24355	9.8937	ppb	97
54) Methyl Cyclohexane	6.40	83	15340	8.6453	ppb	96
55) Dibromomethane	6.57	93	11732	9.7262	ppb	89
56) 2-Chloroethyl vinyl ether	7.23	63	135	6.4800	ppb	# 48
57) MIBK (methyl isobutyl ket	7.56	43	10406	8.3752	ppb	99
58) 1-Bromo-2-chloroethane	7.13	63	21173	9.3406	ppb	95
59) Cis-1,3-Dichloropropene	7.34	75	19650	8.3410	ppb	98
60) Toluene	7.71	91	64161	9.8883	ppb	98
61) Trans-1,3-Dichloropropene	7.99	75	18587	8.9710	ppb	97
62) 1,1,2-TCA	8.18	83	13462	9.4571	ppb	97
63) 2-Hexanone	8.51	43	6324	8.6002	ppb	# 96
66) 1,2-EDB	8.70	107	17169	9.7718	ppb	97
67) Tetrachloroethene	8.32	166	24306	9.3283	ppb	96
68) 1-Chlorohexane	9.29	91	14663	8.8653	ppb	89
69) 1,1,1,2-Tetrachloroethane	9.37	131	22096	9.7992	ppb	100
70) m&p-Xylene	9.55	91	95074	18.8227	ppb	98
71) o-Xylene	9.97	106	23458	8.8805	ppb	100
72) Styrene	9.99	104	38610	8.4659	ppb	100
74) 1,3-Dichloropropane	8.36	76	25326	9.2766	ppb	97
75) Dibromochloromethane	8.60	129	22185	9.7803	ppb	81
76) Chlorobenzene	9.26	112	49423	10.0349	ppb	97
77) Ethylbenzene	9.41	91	61227	9.3081	ppb	99
78) Bromoform	10.16	173	18017	9.6614	ppb	98
80) Isopropylbenzene	10.39	105	32800	8.9142	ppb	98
81) 1,1,2,2-Tetrachloroethane	10.71	83	16940	6.9266	ppb	96
82) 1,2,3-Trichloropropane	10.74	110	8190	9.5161	ppb	89
83) t-1,4-Dichloro-2-Butene	10.78	53	2062	6.5805	ppb	# 74
84) Bromobenzene	10.68	156	23410	9.4785	ppb	99
85) n-Propylbenzene	10.84	91	63204	8.6912	ppb	97
86) 4-Ethyltoluene	10.97	105	58246	8.9754	ppb	98
87) 2-Chlorotoluene	10.90	91	24432	8.8351	ppb	94
88) 1,3,5-Trimethylbenzene	11.04	105	53047	9.2103	ppb	99
89) 4-Chlorotoluene	11.03	126	9341	8.4465	ppb	97
90) Tert-Butylbenzene	11.39	119	44441	8.2886	ppb	94
91) 1,2,4-Trimethylbenzene	11.44	105	49596	9.1396	ppb	96
92) Sec-Butylbenzene	11.62	105	60087	9.1291	ppb	100
93) p-Isopropyltoluene	11.79	119	55596	9.1703	ppb	99
94) Benzyl Chloride	11.96	91	7625	5.0714	ppb	96
95) 1,3-DCB	11.71	146	43141	10.1894	ppb	97
96) 1,4-DCB	11.81	146	44614	9.6792	ppb	99
97) n-Butylbenzene	12.23	91	36048	8.0661	ppb	95
98) 1,2-DCB	12.21	146	39246	9.1619	ppb	95
99) Hexachloroethane	12.49	201	13339	9.0602	ppb	# 82
100) 1,2-Dibromo-3-chloropropan	13.05	75	4016	9.3273	ppb	91
101) 1,2,4-Trichlorobenzene	13.95	180	22023	8.6993	ppb	98
102) Hexachlorobutadiene	14.16	223	4146	7.2678	ppb	# 72
103) Naphthalene	14.21	128	34490	7.8324	ppb	98
104) 1,2,3-Trichlorobenzene	14.47	180	21348	8.7325	ppb	86

(#) = qualifier out of range (m) = manual integration
 0727L40.D L0724W.M Mon Jul 29 13:59:13 2019

Quantitation Report

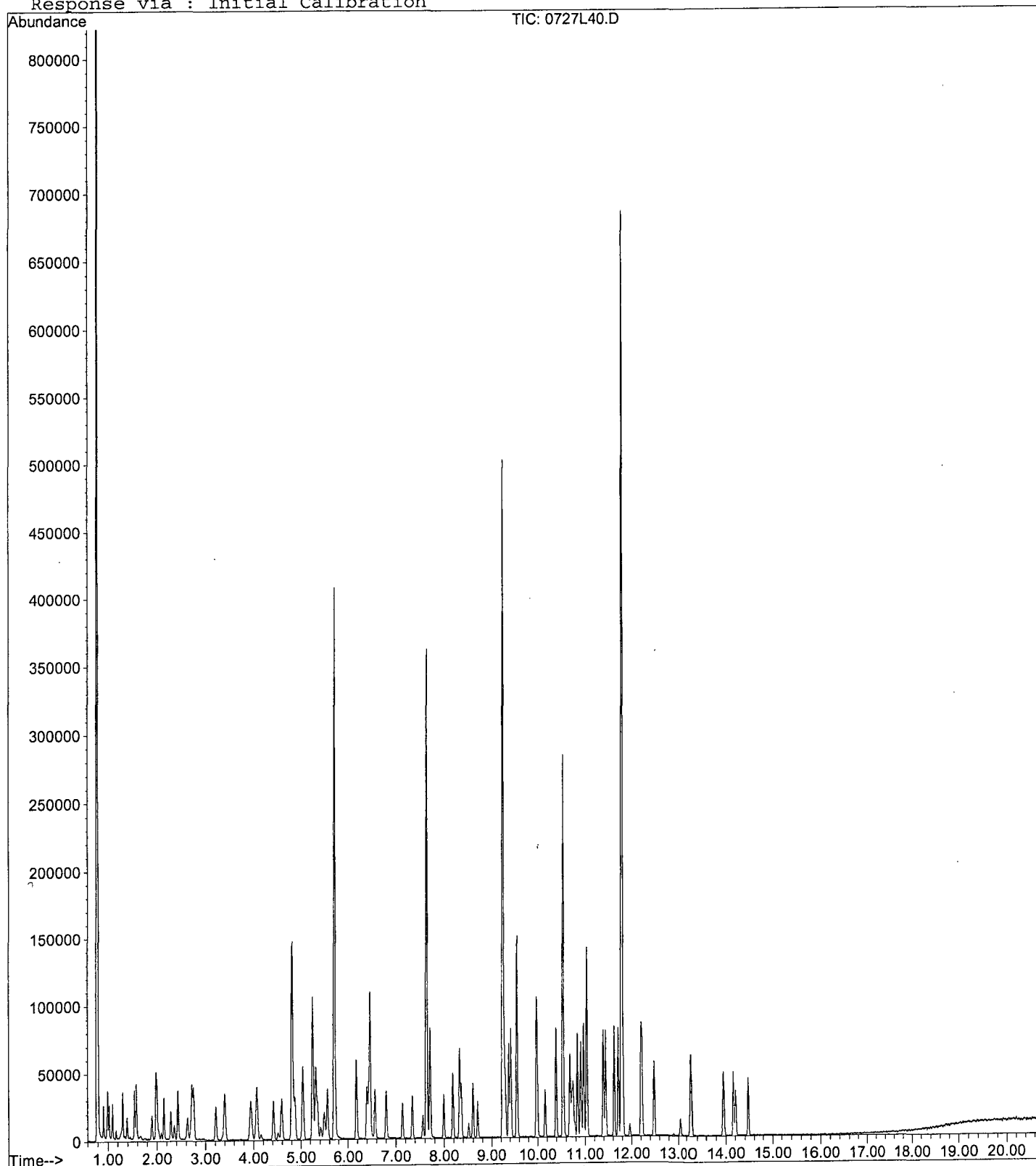
Data File : M:\LOKI\DATA\190724\0727L40.D
Acq On : 28 Jul 19 4:31
Sample : Ending CCV 10ug/L 07/27/19
Misc : IS&S 7/15/19,6/5/19

Vial: 40
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:57 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0727L27.D Vial: 27
 Acq On : 27 Jul 19 22:17 Operator:
 Sample : AZ95186W01 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Jul 29 17:20 2019 Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	179008	25.00000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	162560	25.00000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	85152	25.00000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	84534	26.66105	ppb	0.00
Spiked Amount				25.000		
					Recovery = 106.644%	
44) 1,2-DCA-D4(S)	5.25	65	84669	26.00788	ppb	0.00
Spiked Amount				25.000		
					Recovery = 104.032%	
65) Toluene-D8(S)	7.63	98	238718	24.16936	ppb	0.00
Spiked Amount				25.000		
					Recovery = 96.676%	
73) 4-Bromofluorobenzene(S)	10.53	95	78358	22.94533	ppb	0.00
Spiked Amount				25.000		
					Recovery = 91.780%	

Target Compounds Qvalue

Quantitation Report

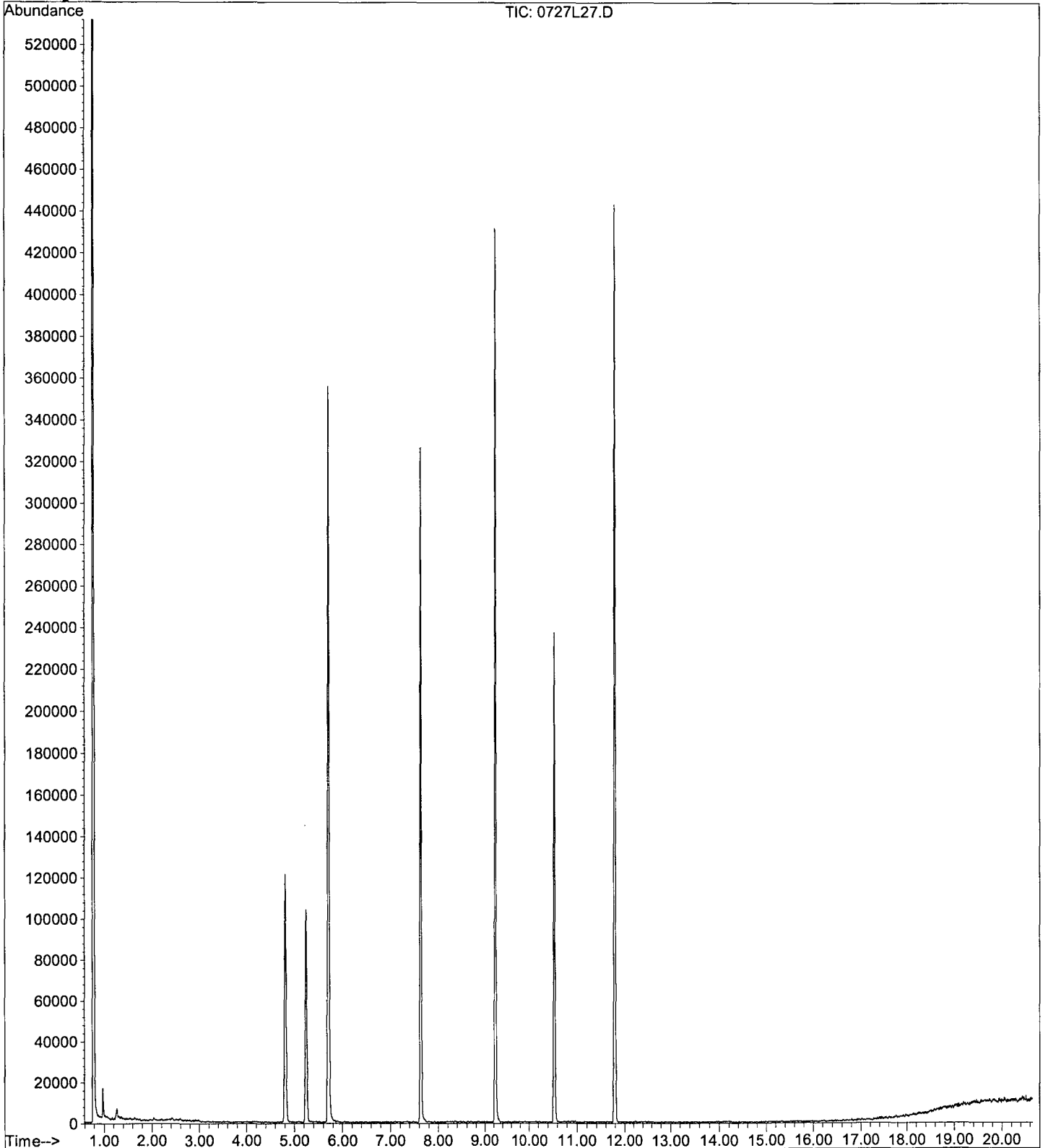
Data File : M:\LOKI\DATA\190724\0727L27.D
Acq On : 27 Jul 19 22:17
Sample : AZ95186W01
Misc : IS&S 7/15/19,6/5/19

Vial: 27
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 17:20 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0727L28.D
 Acq On : 27 Jul 19 22:45
 Sample : AZ95187W01
 Misc : IS&S 7/15/19,6/5/19

Vial: 28
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 17:20 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	169984	25.00000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	156480	25.00000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	82080	25.00000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	80962	26.89004	ppb	0.00
Spiked Amount	25.000		Recovery	=	107.560%	
44) 1,2-DCA-D4(S)	5.25	65	81566	26.38482	ppb	0.00
Spiked Amount	25.000		Recovery	=	105.540%	
65) Toluene-D8(S)	7.63	98	241842	25.43704	ppb	0.00
Spiked Amount	25.000		Recovery	=	101.748%	
73) 4-Bromofluorobenzene(S)	10.53	95	76120	23.15606	ppb	0.00
Spiked Amount	25.000		Recovery	=	92.624%	

Target Compounds

Qvalue

Quantitation Report

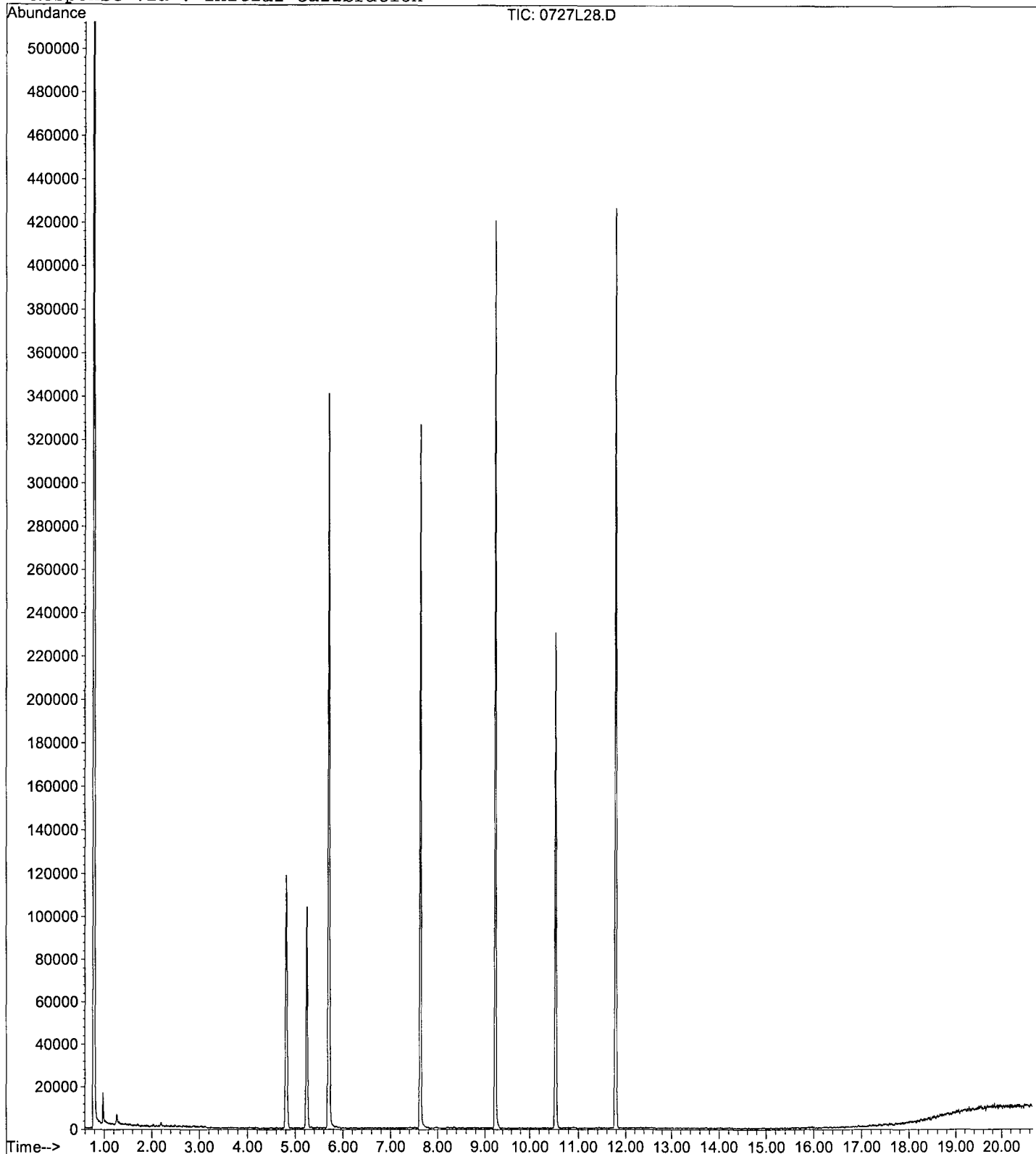
Data File : M:\LOKI\DATA\190724\0727L28.D
Acq On : 27 Jul 19 22:45
Sample : AZ95187W01
Misc : IS&S 7/15/19,6/5/19

Vial: 28
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 17:20 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0727L29.D Vial: 29
 Acq On : 27 Jul 19 23:14 Operator:
 Sample : AZ95188W01 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Jul 29 17:20 2019 Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	168704	25.00000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	154944	25.00000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	78944	25.00000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	83066	27.79817	ppb	0.00
Spiked Amount	25.000		Recovery	=	111.192%	
44) 1,2-DCA-D4(S)	5.25	65	84443	27.52272	ppb	0.00
Spiked Amount	25.000		Recovery	=	110.092%	
65) Toluene-D8(S)	7.63	98	239919	25.48494	ppb	0.00
Spiked Amount	25.000		Recovery	=	101.940%	
73) 4-Bromofluorobenzene(S)	10.54	95	79796	24.51496	ppb	0.00
Spiked Amount	25.000		Recovery	=	98.060%	

Target Compounds Qvalue

Quantitation Report

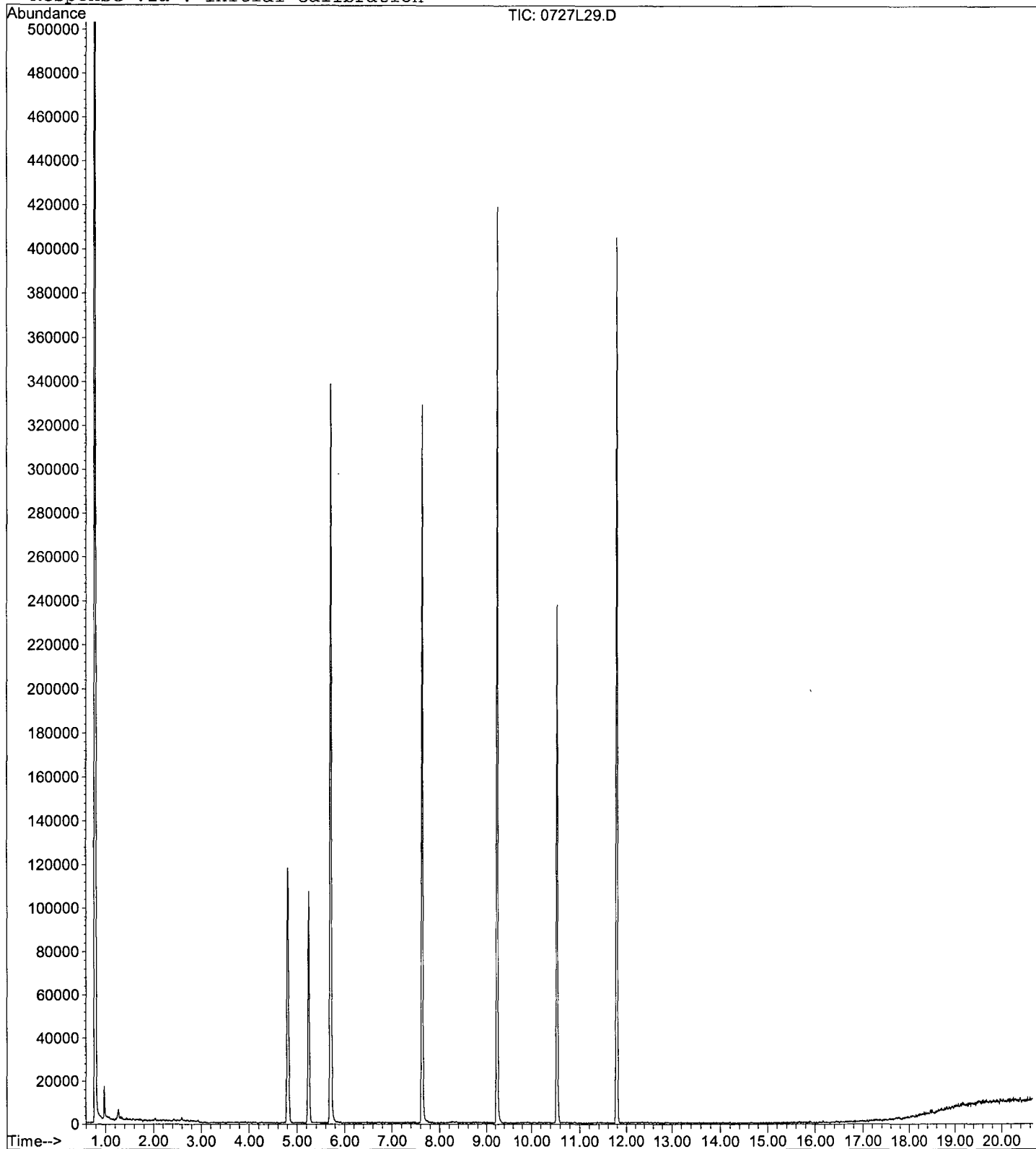
Data File : M:\LOKI\DATA\190724\0727L29.D
Acq On : 27 Jul 19 23:14
Sample : AZ95188W01
Misc : IS&S 7/15/19,6/5/19

Vial: 29
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 17:20 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0727L30.D Vial: 30
 Acq On : 27 Jul 19 23:43 Operator:
 Sample : AZ95189W01 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Jul 29 17:20 2019 Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	184064	25.00000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	169728	25.00000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	80552	25.00000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	86706	26.59491	ppb	0.00
Spiked Amount	25.000		Recovery	=	106.380%	
44) 1,2-DCA-D4(S)	5.25	65	83209	24.85733	ppb	0.00
Spiked Amount	25.000		Recovery	=	99.428%	
65) Toluene-D8(S)	7.63	98	238832	23.15969	ppb	0.00
Spiked Amount	25.000		Recovery	=	92.640%	
73) 4-Bromofluorobenzene(S)	10.53	95	81354	22.81656	ppb	0.00
Spiked Amount	25.000		Recovery	=	91.268%	

Target Compounds Qvalue

Quantitation Report

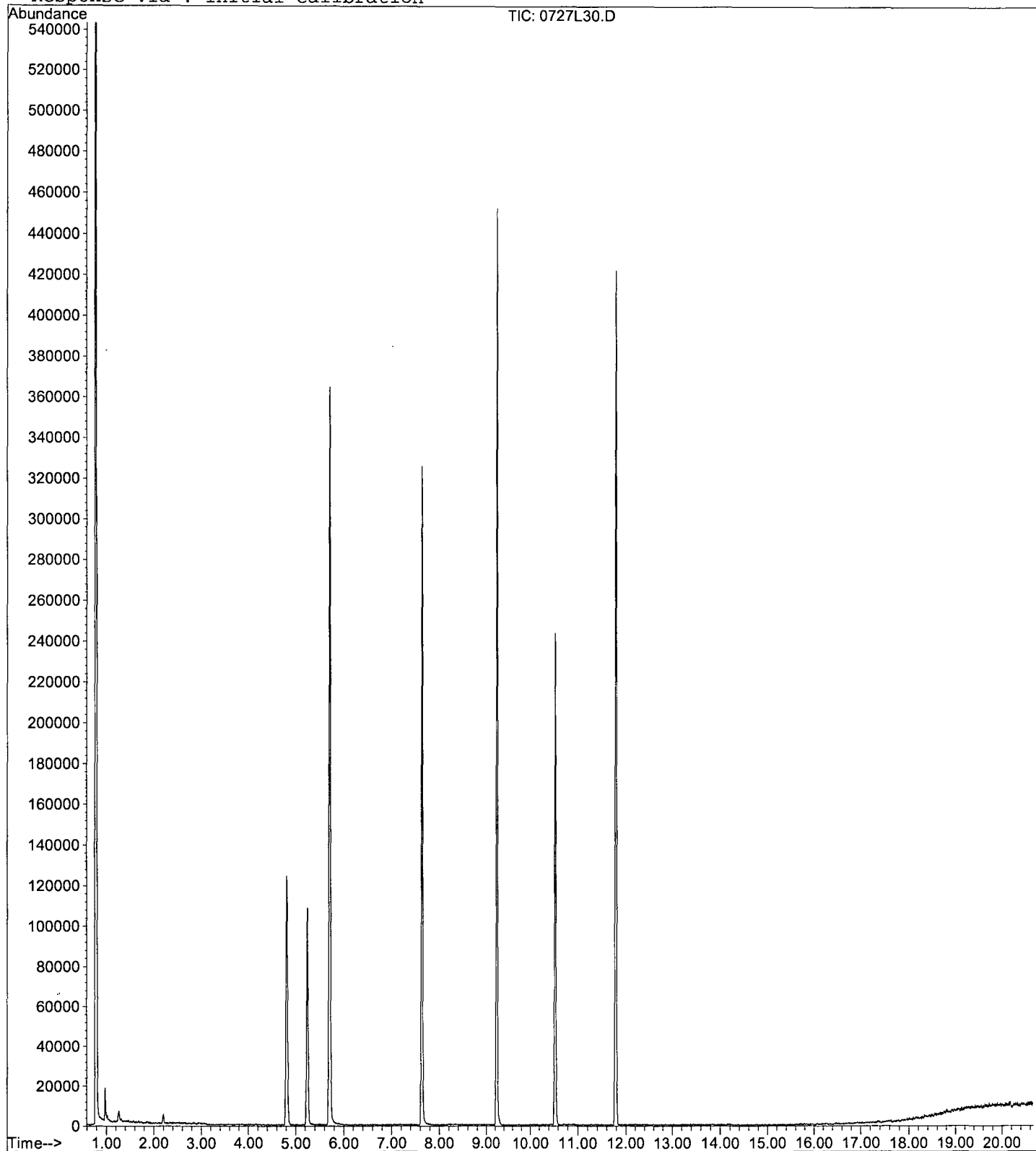
Data File : M:\LOKI\DATA\190724\0727L30.D
Acq On : 27 Jul 19 23:43
Sample : AZ95189W01
Misc : IS&S 7/15/19,6/5/19

Vial: 30
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 17:20 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0727L31.D Vial: 31
 Acq On : 28 Jul 19 00:12 Operator:
 Sample : AZ95190W01 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Jul 29 17:21 2019 Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	158144	25.00000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	155904	25.00000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	81280	25.00000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	80464	28.72547	ppb	0.00
Spiked Amount	25.000		Recovery	=	114.900%	
44) 1,2-DCA-D4(S)	5.24	65	78532	27.30530	ppb	0.00
Spiked Amount	25.000		Recovery	=	109.220%	
65) Toluene-D8(S)	7.63	98	235250	24.83511	ppb	0.00
Spiked Amount	25.000		Recovery	=	99.340%	
73) 4-Bromofluorobenzene(S)	10.54	95	76842	23.46206	ppb	0.00
Spiked Amount	25.000		Recovery	=	93.848%	

Target Compounds Qvalue

Quantitation Report

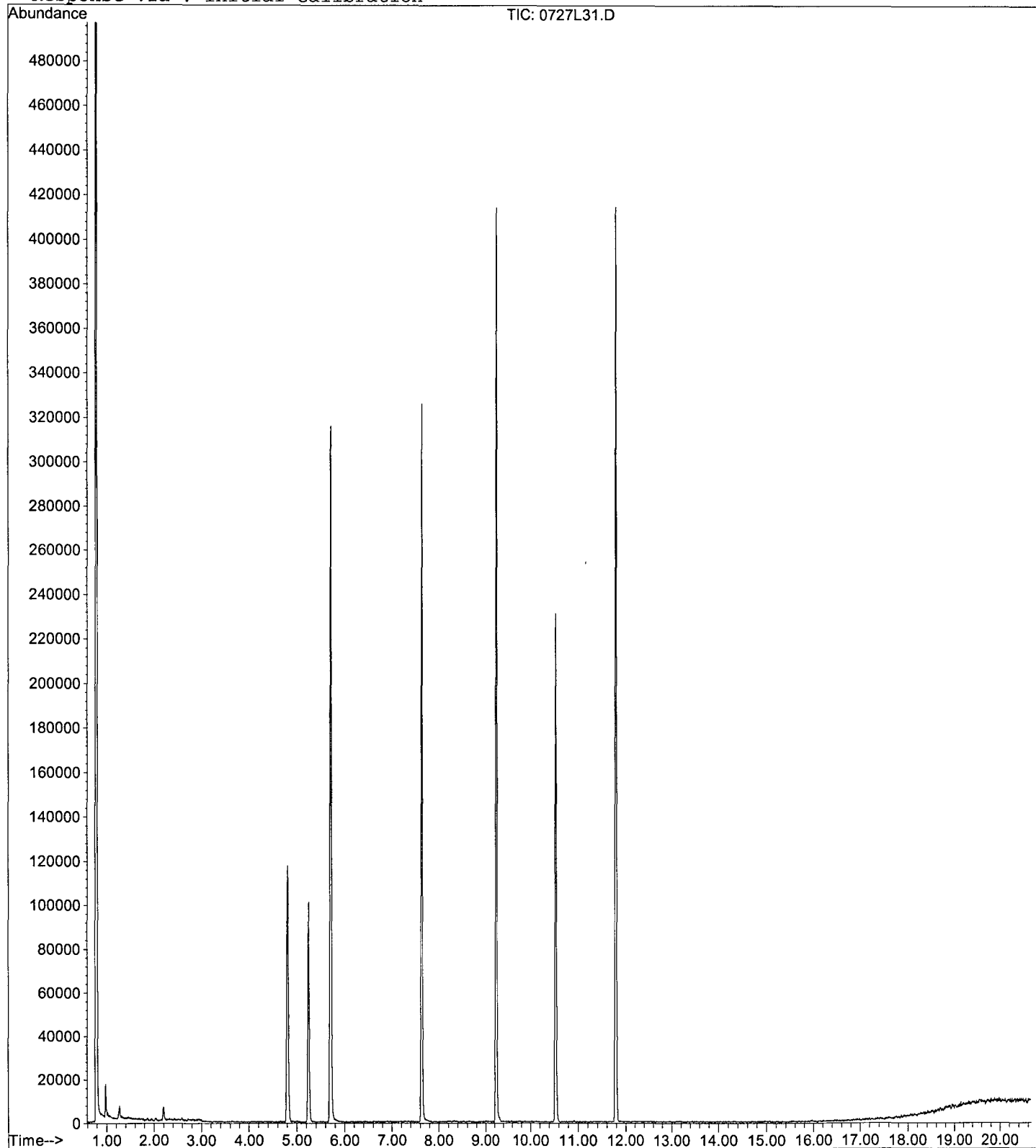
Data File : M:\LOKI\DATA\190724\0727L31.D
Acq On : 28 Jul 19 00:12
Sample : AZ95190W01
Misc : IS&S 7/15/19,6/5/19

Vial: 31
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 17:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



**ORGANICS
Raw Data**

Data File : M:\LOKI\DATA\190724\0727L26.D Vial: 26
 Acq On : 27 Jul 19 21:48 Operator:
 Sample : 190727B BLK Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Jul 29 13:56 2019 Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	177664	25.00000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	161600	25.00000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	83280	25.00000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	83824	26.63712	ppb	0.00
Spiked Amount	25.000		Recovery	=	106.548%	
44) 1,2-DCA-D4(S)	5.25	65	81517	25.22910	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.916%	
65) Toluene-D8(S)	7.63	98	245461	24.99970	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.000%	
73) 4-Bromofluorobenzene(S)	10.54	95	82902	24.42015	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.680%	

Target Compounds Qvalue

Quantitation Report

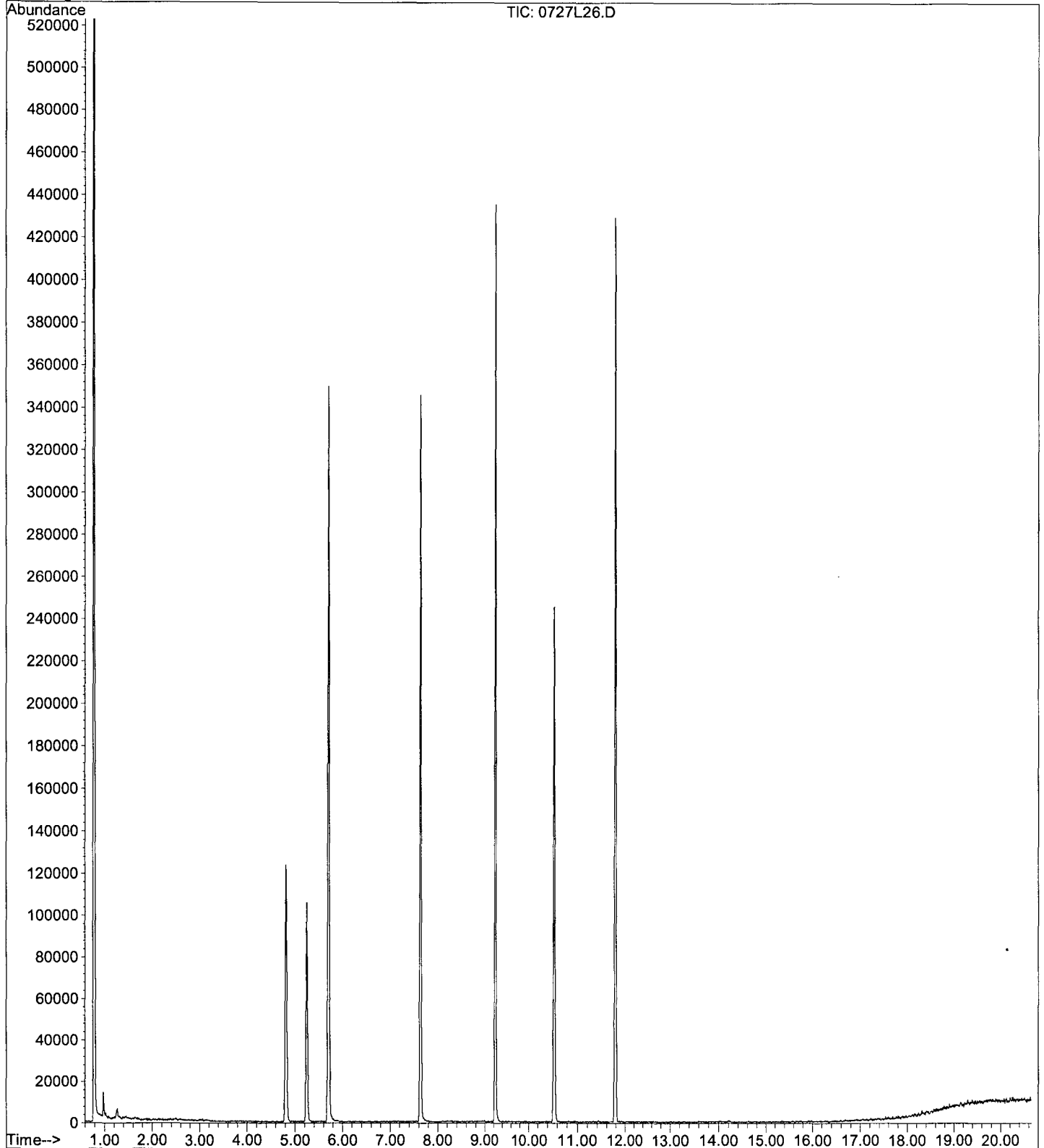
Data File : M:\LOKI\DATA\190724\0727L26.D
Acq On : 27 Jul 19 21:48
Sample : 190727B BLK
Misc : IS&S 7/15/19,6/5/19

Vial: 26
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:56 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0727L21.D
 Acq On : 27 Jul 19 19:24
 Sample : 190727B LCS 10ug/L
 Misc : IS&S 7/15/19,6/5/19

Vial: 21
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:55 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	203648	25.00000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	188800	25.00000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	109992	25.00000	ppb	0.00

System Monitoring Compounds

39) Dibromofluoromethane(S)	4.81	111	88657	24.57826	ppb	0.00
Spiked Amount	25.000		Recovery	=	98.312%	
44) 1,2-DCA-D4(S)	5.25	65	86623	23.38870	ppb	0.00
Spiked Amount	25.000		Recovery	=	93.556%	
65) Toluene-D8(S)	7.63	98	267001	23.27580	ppb	0.00
Spiked Amount	25.000		Recovery	=	93.104%	
73) 4-Bromofluorobenzene(S)	10.53	95	99263	25.02708	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.108%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	0.91	87	3485	6.75572	ppb	97
4) Freon 114	0.99	85	9514	6.55661	ppb	94
5) Chloromethane	1.02	50	10858	6.58466	ppb	92
6) Vinyl chloride	1.09	62	11430	6.54111	ppb	90
8) Bromomethane	1.30	94	10844	10.57655	ppb	98
9) Chloroethane	1.38	64	6935	6.02210	ppb #	82
10) Dichlorofluoromethane	1.54	67	23474	7.99632	ppb	99
11) Trichlorofluoromethane	1.57	103	14110	7.35672	ppb	92
13) Acrolein	1.90	56	11849	113.16968	ppb	97
14) Acetone	2.03	43	5655	7.19713	ppb	93
15) Freon-113	2.00	101	12688	7.64108	ppb	90
16) 1,1-DCE	1.98	96	13146	8.11413	ppb	93
17) t-Butanol	2.62	59	18511	108.29152	ppb	95
18) 2-Propanol	2.21	45	139	-1.30833	ppb #	45
19) Acetonitrile	2.28	41	21447	95.31652	ppb	90
20) Methyl Acetate	2.35	43	10644	7.16168	ppb #	82
21) Iodomethane	2.09	142	4309	6.80641	ppb #	88
22) Acrylonitrile	2.69	53	6419	8.65720	ppb	92
23) Methylene chloride	2.43	84	15253	7.92757	ppb	90
24) Carbon disulfide	2.15	76	31601	6.88803	ppb	98
25) Methyl t-butyl ether (MtBE)	2.75	73	39314	8.20761	ppb	99
26) Trans-1,2-DCE	2.72	96	14042	7.81487	ppb	99
27) Diisopropyl Ether	3.39	45	29859	8.02276	ppb	94
29) 1,1-DCA	3.21	63	24456	8.34806	ppb	98
30) Vinyl Acetate	3.39	45	29859	8.02276	ppb	94
31) Ethyl tert Butyl Ether	3.94	59	28252	8.51532	ppb	98
32) MEK (2-Butanone)	4.15	43	2153	8.20449	ppb	92
33) Cis-1,2-DCE	4.08	96	16865	8.78483	ppb	95
34) 2,2-Dichloropropane	4.05	77	16429	7.58206	ppb #	92
37) Chloroform	4.59	83	28466	9.03595	ppb	96
38) Bromochloromethane	4.42	128	11327	10.43272	ppb	100
40) 1,1,1-TCA	4.80	97	25414	9.63173	ppb	97
41) Cyclohexane	4.86	41	7481	7.89318	ppb	94
42) 1,1-Dichloropropene	5.04	75	15011	8.49494	ppb	91
43) 2,2,4-Trimethylpentane	5.49	57	21054	7.14299	ppb	96
45) Carbon Tetrachloride	5.03	117	22977	9.08153	ppb	98
46) Tert Amyl Methyl Ether	5.55	73	30002	8.69217	ppb	98
48) 1,2-DCA	5.35	62	22380	9.53520	ppb	98
49) Benzene	5.31	78	53398	9.08017	ppb	98

(#) = qualifier out of range (m) = manual integration
 0727L21.D L0724W.M Tue Aug 13 16:26:54 2019

Data File : M:\LOKI\DATA\190724\0727L21.D
 Acq On : 27 Jul 19 19:24
 Sample : 190727B LCS 10ug/L
 Misc : IS&S 7/15/19,6/5/19

Vial: 21
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:55 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) TCE	6.18	130	20792	10.50645	ppb	93
51) 2-Pentanone	6.46	43	107151	114.50645	ppb	96
52) 1,2-Dichloropropane	6.44	63	13555	8.64969	ppb #	94
53) Bromodichloromethane	6.80	83	23712	9.81106	ppb	98
54) Methyl Cyclohexane	6.40	83	14709	8.44336	ppb	93
55) Dibromomethane	6.57	93	11295	9.53754	ppb	94
56) 2-Chloroethyl vinyl ether	7.22	63	84	5.68668	ppb #	48
57) MIBK (methyl isobutyl ket	7.56	43	9632	7.89598	ppb	98
58) 1-Bromo-2-chloroethane	7.13	63	19988	8.98130	ppb	100
59) Cis-1,3-Dichloropropene	7.34	75	18860	8.15408	ppb	99
60) Toluene	7.71	91	60370	9.47655	ppb	100
61) Trans-1,3-Dichloropropene	7.99	75	17405	8.55624	ppb	97
62) 1,1,2-TCA	8.18	83	13281	9.50297	ppb	98
63) 2-Hexanone	8.51	43	6571	9.10180	ppb	98
66) 1,2-EDB	8.70	107	15987	9.21316	ppb #	95
67) Tetrachloroethene	8.32	166	22823	8.86897	ppb	97
68) 1-Chlorohexane	9.29	91	13472	8.24737	ppb	89
69) 1,1,1,2-Tetrachloroethane	9.37	131	20587	9.24449	ppb	93
70) m&p-Xylene	9.55	91	89915	18.02463	ppb	94
71) o-Xylene	9.97	106	22767	8.74506	ppb	91
72) Styrene	9.99	104	37904	8.42352	ppb	99
74) 1,3-Dichloropropane	8.36	76	24261	8.99792	ppb	97
75) Dibromochloromethane	8.60	129	21263	9.49143	ppb	79
76) Chlorobenzene	9.26	112	48263	9.92224	ppb	97
77) Ethylbenzene	9.41	91	59259	9.12195	ppb	99
78) Bromoform	10.16	173	17978	9.76140	ppb	84
80) Isopropylbenzene	10.39	105	31312	9.09093	ppb	99
81) 1,1,2,2-Tetrachloroethane	10.72	83	19334	8.44539	ppb	92
82) 1,2,3-Trichloropropane	10.74	110	8184	10.15852	ppb	89
83) t-1,4-Dichloro-2-Butene	10.78	53	2446	8.12095	ppb #	69
84) Bromobenzene	10.68	156	22680	9.81013	ppb	87
85) n-Propylbenzene	10.84	91	62036	9.11314	ppb	99
86) 4-Ethyltoluene	10.97	105	54635	8.99393	ppb	99
87) 2-Chlorotoluene	10.90	91	24376	9.41689	ppb	98
88) 1,3,5-Trimethylbenzene	11.04	105	50013	9.27653	ppb	95
89) 4-Chlorotoluene	11.03	126	10439	10.08401	ppb	81
90) Tert-Butylbenzene	11.38	119	41379	8.24808	ppb	96
91) 1,2,4-Trimethylbenzene	11.44	105	47632	9.37719	ppb	99
92) Sec-Butylbenzene	11.62	105	57232	9.28916	ppb	100
93) p-Isopropyltoluene	11.79	119	53581	9.44152	ppb	98
94) Benzyl Chloride	11.96	91	10675	7.36249	ppb	95
95) 1,3-DCB	11.71	146	40388	10.19065	ppb	99
96) 1,4-DCB	11.81	146	42304	9.80487	ppb	97
97) n-Butylbenzene	12.23	91	36655	8.76211	ppb	95
98) 1,2-DCB	12.20	146	37402	9.32775	ppb	99
99) Hexachloroethane	12.48	201	12565	9.11730	ppb #	78
100) 1,2-Dibromo-3-chloropropan	13.04	75	3812	9.47617	ppb	87
101) 1,2,4-Trichlorobenzene	13.95	180	21042	8.86204	ppb	91
102) Hexachlorobutadiene	14.16	223	4231	7.98141	ppb	87
103) Naphthalene	14.21	128	38289	8.91934	ppb	97
104) 1,2,3-Trichlorobenzene	14.47	180	21421	9.36077	ppb	96

(#) = qualifier out of range (m) = manual integration
 0727L21.D L0724W.M Tue Aug 13 16:26:54 2019

Quantitation Report

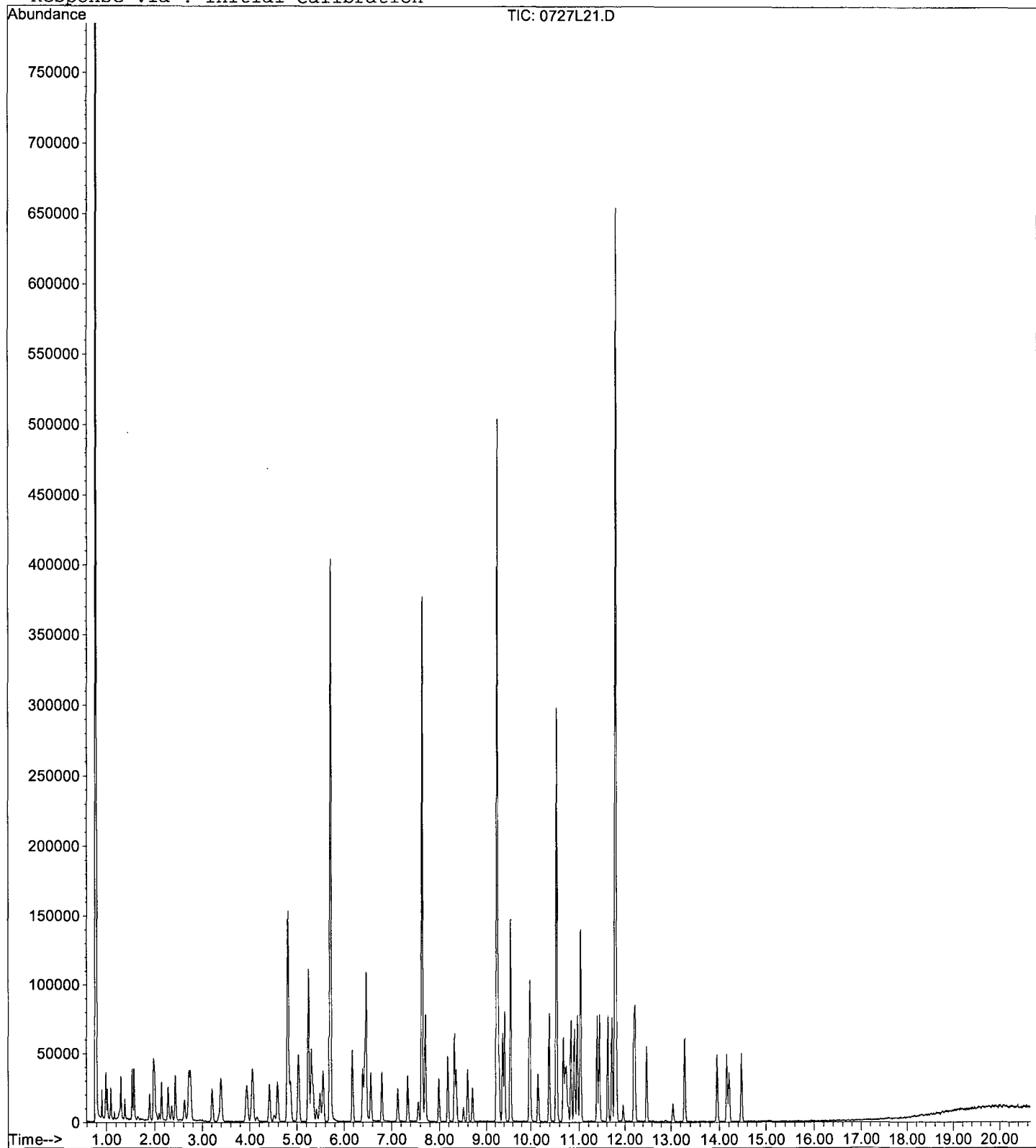
Data File : M:\LOKI\DATA\190724\0727L21.D
Acq On : 27 Jul 19 19:24
Sample : 190727B LCS 10ug/L
Misc : IS&S 7/15/19,6/5/19

Vial: 21
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:55 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0727L22.D
 Acq On : 27 Jul 19 19:53
 Sample : 190727B LCSD 10ug/L
 Misc : IS&S 7/15/19,6/5/19

Vial: 22
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:55 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	194944	25.00000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	180992	25.00000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	111920	25.00000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	86636	25.09036	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.360%	
44) 1,2-DCA-D4(S)	5.25	65	82347	23.22688	ppb	0.00
Spiked Amount	25.000		Recovery	=	92.908%	
65) Toluene-D8(S)	7.63	98	267725	24.34576	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.384%	
73) 4-Bromofluorobenzene(S)	10.53	95	102410	26.93443	ppb	0.00
Spiked Amount	25.000		Recovery	=	107.736%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	0.91	87	5260	11.19490	ppb	97
4) Freon 114	0.99	85	12237	8.80971	ppb	98
5) Chloromethane	1.02	50	13570	9.15245	ppb	97
6) Vinyl chloride	1.09	62	15104	9.02957	ppb	96
8) Bromomethane	1.30	94	11612	11.86034	ppb	90
9) Chloroethane	1.38	64	7544	7.15062	ppb	91
10) Dichlorofluoromethane	1.54	67	23547	8.37933	ppb	97
11) Trichlorofluoromethane	1.57	103	16935	9.22386	ppb	85
13) Acrolein	1.90	56	11801	117.74364	ppb	99
14) Acetone	2.03	43	5295	6.93941	ppb	# 89
15) Freon-113	2.00	101	14153	8.90390	ppb	92
16) 1,1-DCE	1.98	96	14928	9.62543	ppb	97
17) t-Butanol	2.62	59	17762	108.56710	ppb	94
18) 2-Propanol	2.21	45	231	-0.32111	ppb	# 45
19) Acetonitrile	2.28	41	22141	102.79432	ppb	98
20) Methyl Acetate	2.36	43	10054	7.04488	ppb	90
21) Iodomethane	2.09	142	5279	8.15582	ppb	# 84
22) Acrylonitrile	2.69	53	5927	8.35055	ppb	# 77
23) Methylene chloride	2.43	84	17420	9.45808	ppb	85
24) Carbon disulfide	2.15	76	37976	8.64716	ppb	97
25) Methyl t-butyl ether (MtBE)	2.75	73	37804	8.24475	ppb	97
26) Trans-1,2-DCE	2.72	96	16860	9.80213	ppb	97
27) Diisopropyl Ether	3.40	45	28406	7.97313	ppb	93
29) 1,1-DCA	3.21	63	27347	9.75169	ppb	95
30) Vinyl Acetate	3.40	45	28406	7.97313	ppb	93
31) Ethyl tert Butyl Ether	3.94	59	27610	8.69337	ppb	98
32) MEK (2-Butanone)	4.15	43	2114	8.41555	ppb	# 83
33) Cis-1,2-DCE	4.07	96	18165	9.88445	ppb	88
34) 2,2-Dichloropropane	4.05	77	19873	9.58098	ppb	96
37) Chloroform	4.59	83	32594	10.80825	ppb	95
38) Bromochloromethane	4.42	128	11941	11.48931	ppb	96
40) 1,1,1-TCA	4.80	97	27038	10.70474	ppb	98
41) Cyclohexane	4.87	41	7745	8.53658	ppb	95
42) 1,1-Dichloropropene	5.05	75	16871	9.97383	ppb	96
43) 2,2,4-Trimethylpentane	5.49	57	21551	7.63806	ppb	96
45) Carbon Tetrachloride	5.03	117	25898	10.69306	ppb	97
46) Tert Amyl Methyl Ether	5.55	73	28526	8.63354	ppb	98
48) 1,2-DCA	5.35	62	23141	10.29964	ppb	96
49) Benzene	5.31	78	61478	10.92091	ppb	96

(#) = qualifier out of range (m) = manual integration
 0727L22.D L0724W.M Tue Aug 13 16:26:56 2019

Data File : M:\LOKI\DATA\190724\0727L22.D
 Acq On : 27 Jul 19 19:53
 Sample : 190727B LCSD 10ug/L
 Misc : IS&S 7/15/19,6/5/19

Vial: 22
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:55 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) TCE	6.18	130	22265	11.75311	ppb	90
51) 2-Pentanone	6.46	43	107008	119.45938	ppb	98
52) 1,2-Dichloropropane	6.44	63	15004	10.00181	ppb	98
53) Bromodichloromethane	6.80	83	25268	10.92166	ppb	100
54) Methyl Cyclohexane	6.40	83	14735	8.83594	ppb	99
55) Dibromomethane	6.57	93	12314	10.86225	ppb	98
56) 2-Chloroethyl vinyl ether	7.22	63	350	10.28950	ppb	# 48
57) MIBK (methyl isobutyl ket	7.56	43	8662	7.41785	ppb	91
58) 1-Bromo-2-chloroethane	7.13	63	19624	9.21144	ppb	89
59) Cis-1,3-Dichloropropene	7.34	75	21877	9.88078	ppb	99
60) Toluene	7.71	91	66193	10.85454	ppb	97
61) Trans-1,3-Dichloropropene	7.99	75	19762	10.14869	ppb	98
62) 1,1,2-TCA	8.18	83	13446	10.05060	ppb	88
63) 2-Hexanone	8.51	43	5881	8.50976	ppb	91
66) 1,2-EDB	8.70	107	17327	10.41616	ppb	92
67) Tetrachloroethene	8.32	166	26407	10.70439	ppb	93
68) 1-Chlorohexane	9.29	91	13373	8.53994	ppb	99
69) 1,1,1,2-Tetrachloroethane	9.37	131	22668	10.61808	ppb	92
70) m&p-Xylene	9.55	91	100837	21.08613	ppb	99
71) o-Xylene	9.97	106	25326	9.98045	ppb	85
72) Styrene	9.99	104	44183	9.94743	ppb	92
74) 1,3-Dichloropropane	8.35	76	26797	10.36722	ppb	98
75) Dibromochloromethane	8.60	129	23465	10.92623	ppb	97
76) Chlorobenzene	9.26	112	51691	11.08544	ppb	97
77) Ethylbenzene	9.41	91	64891	10.41983	ppb	98
78) Bromoform	10.16	173	19257	10.90691	ppb	93
80) Isopropylbenzene	10.39	105	34448	9.82913	ppb	95
81) 1,1,2,2-Tetrachloroethane	10.71	83	20562	8.82708	ppb	99
82) 1,2,3-Trichloropropane	10.74	110	8372	10.21286	ppb	87
83) t-1,4-Dichloro-2-Butene	10.77	53	2608	8.47057	ppb	84
84) Bromobenzene	10.68	156	24679	10.49090	ppb	99
85) n-Propylbenzene	10.84	91	70618	10.19514	ppb	98
86) 4-Ethyltoluene	10.97	105	55974	9.05562	ppb	100
87) 2-Chlorotoluene	10.90	91	26376	10.01399	ppb	100
88) 1,3,5-Trimethylbenzene	11.04	105	59588	10.86213	ppb	100
89) 4-Chlorotoluene	11.03	126	10720	10.17706	ppb	95
90) Tert-Butylbenzene	11.39	119	54550	10.48978	ppb	99
91) 1,2,4-Trimethylbenzene	11.44	105	53408	10.33317	ppb	99
92) Sec-Butylbenzene	11.62	105	64288	10.25465	ppb	99
93) p-Isopropyltoluene	11.79	119	60038	10.39706	ppb	99
94) Benzyl Chloride	11.96	91	12503	8.40693	ppb	96
95) 1,3-DCB	11.71	146	43785	10.85746	ppb	97
96) 1,4-DCB	11.81	146	46227	10.52954	ppb	98
97) n-Butylbenzene	12.23	91	41646	9.78368	ppb	91
98) 1,2-DCB	12.20	146	41813	10.24818	ppb	94
99) Hexachloroethane	12.49	201	13124	9.35887	ppb	90
100) 1,2-Dibromo-3-chloropropan	13.04	75	4189	10.33634	ppb	90
101) 1,2,4-Trichlorobenzene	13.95	180	23801	9.75727	ppb	97
102) Hexachlorobutadiene	14.16	223	4601	8.57410	ppb	# 71
103) Naphthalene	14.21	128	40734	9.23492	ppb	100
104) 1,2,3-Trichlorobenzene	14.47	180	24028	10.31912	ppb	98

(#) = qualifier out of range (m) = manual integration
 0727L22.D L0724W.M Tue Aug 13 16:26:57 2019

Quantitation Report

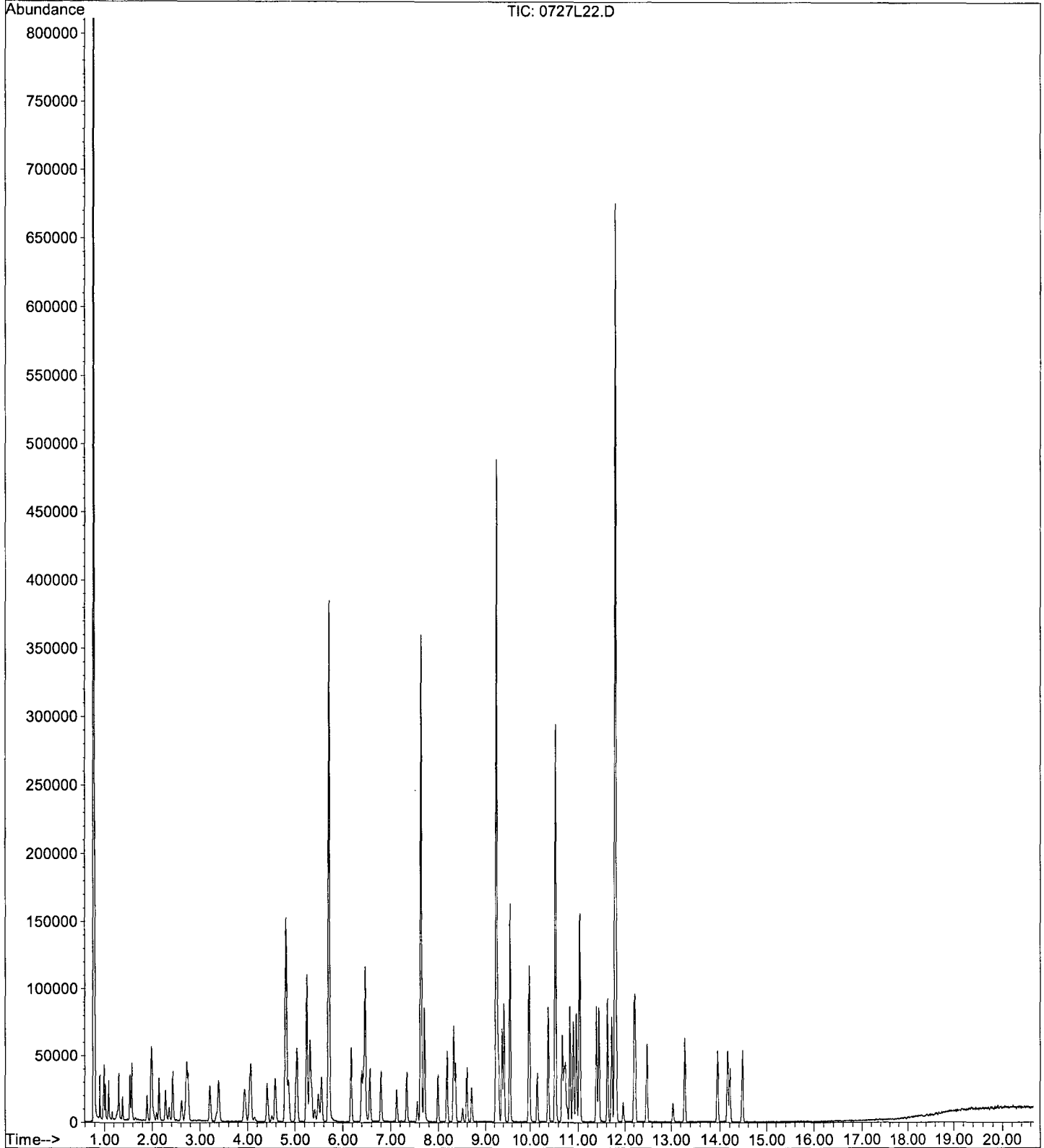
Data File : M:\LOKI\DATA\190724\0727L22.D
Acq On : 27 Jul 19 19:53
Sample : 190727B LCSD 10ug/L
Misc : IS&S 7/15/19,6/5/19

Vial: 22
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:55 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0727L34.D
 Acq On : 28 Jul 19 1:38
 Sample : AZ95189W02 MS 10ug/L
 Misc : IS&S 7/15/19,6/5/19

Vial: 34
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:56 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	195264	25.00000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	192512	25.00000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	116680	25.00000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	82599	23.88201	ppb	0.00
Spiked Amount	25.000		Recovery	=	95.528%	
44) 1,2-DCA-D4(S)	5.25	65	82945	23.35721	ppb	0.00
Spiked Amount	25.000		Recovery	=	93.428%	
65) Toluene-D8(S)	7.63	98	265411	22.69106	ppb	0.00
Spiked Amount	25.000		Recovery	=	90.764%	
73) 4-Bromofluorobenzene(S)	10.53	95	102014	25.22474	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.900%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	0.91	87	3838	7.89937	ppb	82
4) Freon 114	0.99	85	9301	6.68504	ppb	95
5) Chloromethane	1.02	50	11080	7.12466	ppb	98
6) Vinyl chloride	1.09	62	12929	7.71663	ppb	92
8) Bromomethane	1.30	94	10262	10.43546	ppb	94
9) Chloroethane	1.38	64	7382	6.93362	ppb	94
10) Dichlorofluoromethane	1.54	67	23574	8.37519	ppb	95
11) Trichlorofluoromethane	1.57	103	15522	8.44040	ppb	93
13) Acrolein	1.90	56	7650	76.20225	ppb	89
14) Acetone	2.04	43	5639	7.66868	ppb	# 89
15) Freon-113	2.00	101	13307	8.35795	ppb	98
16) 1,1-DCE	1.98	96	13168	8.47668	ppb	91
17) t-Butanol	2.62	59	18824	115.30621	ppb	97
18) 2-Propanol	2.20	45	4514	42.77562	ppb	98
19) Acetonitrile	2.28	41	22883	106.06511	ppb	99
20) Methyl Acetate	2.36	43	10221	7.17481	ppb	88
21) Iodomethane	2.09	142	3455	6.00365	ppb	# 89
22) Acrylonitrile	2.69	53	5166	7.26645	ppb	95
23) Methylene chloride	2.43	84	16183	8.77206	ppb	99
24) Carbon disulfide	2.15	76	31176	7.08716	ppb	97
25) Methyl t-butyl ether (MtBE)	2.75	73	39105	8.51451	ppb	96
26) Trans-1,2-DCE	2.72	96	14796	8.58806	ppb	88
27) Diisopropyl Ether	3.40	45	29265	8.20078	ppb	93
29) 1,1-DCA	3.21	63	24060	8.56552	ppb	93
30) Vinyl Acetate	3.40	45	29265	8.20078	ppb	93
31) Ethyl tert Butyl Ether	3.94	59	29067	9.13713	ppb	100
32) MEK (2-Butanone)	4.16	43	2405	9.55830	ppb	99
33) Cis-1,2-DCE	4.07	96	16513	8.97079	ppb	86
34) 2,2-Dichloropropane	4.06	77	16144	7.77044	ppb	97
37) Chloroform	4.59	83	28647	9.48385	ppb	96
38) Bromochloromethane	4.42	128	10109	9.71067	ppb	96
40) 1,1,1-TCA	4.80	97	24411	9.64883	ppb	94
41) Cyclohexane	4.86	41	7210	7.93388	ppb	94
42) 1,1-Dichloropropene	5.04	75	15033	8.87267	ppb	92
43) 2,2,4-Trimethylpentane	5.49	57	21038	7.44403	ppb	# 84
45) Carbon Tetrachloride	5.03	117	24608	10.14378	ppb	95
46) Tert Amyl Methyl Ether	5.56	73	29331	8.86263	ppb	# 97
48) 1,2-DCA	5.35	62	21359	9.49093	ppb	93
49) Benzene	5.31	78	54639	9.69013	ppb	99

(#) = qualifier out of range (m) = manual integration
 0727L34.D L0724W.M Tue Aug 13 16:27:09 2019

Data File : M:\LOKI\DATA\190724\0727L34.D
 Acq On : 28 Jul 19 1:38
 Sample : AZ95189W02 MS 10ug/L
 Misc : IS&S 7/15/19,6/5/19

Vial: 34
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:56 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) TCE	6.18	130	19211	10.12437	ppb	90
51) 2-Pentanone	6.47	43	107996	120.36476	ppb	98
52) 1,2-Dichloropropane	6.44	63	13684	9.10693	ppb	98
53) Bromodichloromethane	6.80	83	23934	10.32811	ppb	94
54) Methyl Cyclohexane	6.40	83	14615	8.74961	ppb	98
55) Dibromomethane	6.57	93	10807	9.51729	ppb	98
57) MIBK (methyl isobutyl ket	7.56	43	10713	9.15922	ppb	93
58) 1-Bromo-2-chloroethane	7.13	63	21200	9.93490	ppb	90
59) Cis-1,3-Dichloropropene	7.34	75	19541	8.81126	ppb	96
60) Toluene	7.71	91	61104	10.00361	ppb	97
61) Trans-1,3-Dichloropropene	7.99	75	17851	9.15228	ppb	98
62) 1,1,2-TCA	8.18	83	12632	9.42668	ppb	98
63) 2-Hexanone	8.51	43	6827	9.86243	ppb	93
66) 1,2-EDB	8.70	107	17095	9.66173	ppb	82
67) Tetrachloroethene	8.32	166	22395	8.53484	ppb	92
68) 1-Chlorohexane	9.29	91	13001	7.80556	ppb	97
69) 1,1,1,2-Tetrachloroethane	9.37	131	19701	8.67606	ppb	93
70) m&p-Xylene	9.55	91	87932	17.28723	ppb	98
71) o-Xylene	9.97	106	22126	8.38386	ppb	91
72) Styrene	9.99	104	36533	8.03711	ppb	97
74) 1,3-Dichloropropane	8.36	76	25592	9.30855	ppb	94
75) Dibromochloromethane	8.60	129	21586	9.44982	ppb	94
76) Chlorobenzene	9.26	112	45731	9.22041	ppb	97
77) Ethylbenzene	9.42	91	59077	8.91859	ppb	100
78) Bromoform	10.16	173	17969	9.56838	ppb	97
80) Isopropylbenzene	10.39	105	33512	9.17197	ppb	100
81) 1,1,2,2-Tetrachloroethane	10.72	83	22058	9.08299	ppb	96
82) 1,2,3-Trichloropropane	10.74	110	7533	8.81449	ppb	# 64
83) t-1,4-Dichloro-2-Butene	10.78	53	2373	7.49674	ppb	# 67
84) Bromobenzene	10.68	156	22456	9.15649	ppb	100
85) n-Propylbenzene	10.84	91	61991	8.58455	ppb	99
86) 4-Ethyltoluene	10.97	105	55773	8.65500	ppb	97
87) 2-Chlorotoluene	10.91	91	24074	8.76714	ppb	93
88) 1,3,5-Trimethylbenzene	11.04	105	53726	9.39403	ppb	98
89) 4-Chlorotoluene	11.03	126	10496	9.55791	ppb	84
90) Tert-Butylbenzene	11.39	119	49902	9.28591	ppb	96
91) 1,2,4-Trimethylbenzene	11.44	105	46741	8.67434	ppb	99
92) Sec-Butylbenzene	11.62	105	58058	8.88309	ppb	94
93) p-Isopropyltoluene	11.79	119	54868	9.11412	ppb	99
94) Benzyl Chloride	11.96	91	10482	6.84836	ppb	97
95) 1,3-DCB	11.71	146	40133	9.54588	ppb	94
96) 1,4-DCB	11.81	146	42689	9.32698	ppb	92
97) n-Butylbenzene	12.23	91	37514	8.45344	ppb	97
98) 1,2-DCB	12.21	146	38245	8.99128	ppb	98
99) Hexachloroethane	12.48	201	13973	9.55780	ppb	84
100) 1,2-Dibromo-3-chloropropan	13.04	75	3869	9.01123	ppb	# 75
101) 1,2,4-Trichlorobenzene	13.95	180	20480	8.20047	ppb	99
102) Hexachlorobutadiene	14.16	223	4628	8.24994	ppb	# 83
103) Naphthalene	14.21	128	52945	11.02313	ppb	99
104) 1,2,3-Trichlorobenzene	14.47	180	22253	9.16695	ppb	89

(#) = qualifier out of range (m) = manual integration
 0727L34.D L0724W.M Tue Aug 13 16:27:10 2019

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Quantitation Report

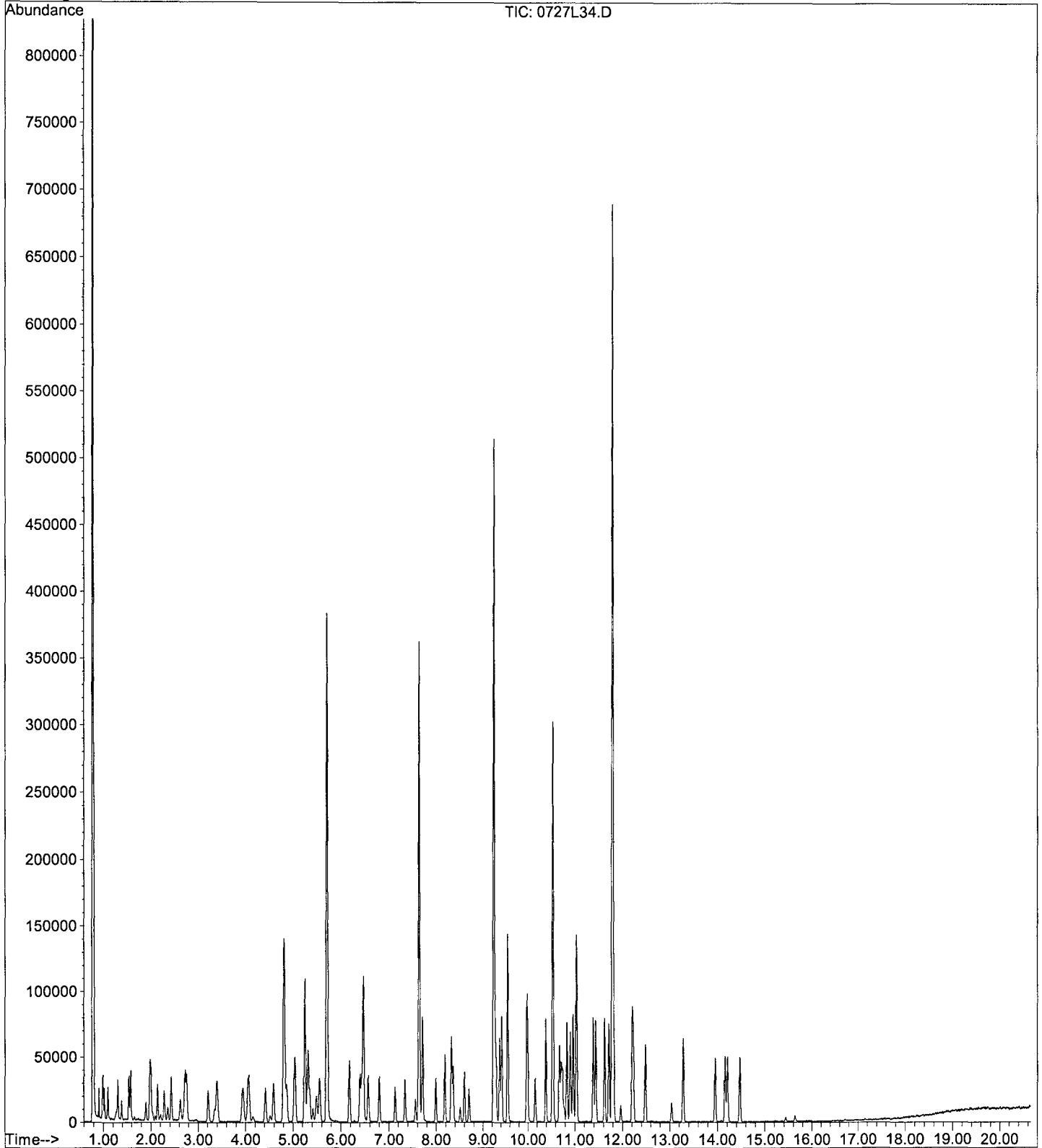
Data File : M:\LOKI\DATA\190724\0727L34.D
Acq On : 28 Jul 19 1:38
Sample : AZ95189W02 MS 10ug/L
Misc : IS&S 7/15/19,6/5/19

Vial: 34
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:56 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0727L35.D
 Acq On : 28 Jul 19 2:07
 Sample : AZ95189W03 MSD 10ug/L
 Misc : IS&S 7/15/19,6/5/19

Vial: 35
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:56 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	201664	25.00000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	193216	25.00000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	110944	25.00000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	83779	23.45444	ppb	0.00
Spiked Amount	25.000		Recovery	=	93.816%	
44) 1,2-DCA-D4(S)	5.25	65	84944	23.16100	ppb	0.00
Spiked Amount	25.000		Recovery	=	92.644%	
65) Toluene-D8(S)	7.63	98	264688	22.54680	ppb	0.00
Spiked Amount	25.000		Recovery	=	90.188%	
73) 4-Bromofluorobenzene(S)	10.54	95	97914	24.12273	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.492%	
Target Compounds						
3) Dichlorodifluoromethane	0.91	87	3966	7.90429	ppb	91
4) Freon 114	0.99	85	9814	6.82990	ppb	95
5) Chloromethane	1.02	50	12456	7.91623	ppb	94
6) Vinyl chloride	1.09	62	13056	7.54513	ppb	91
8) Bromomethane	1.30	94	10805	10.64371	ppb	98
9) Chloroethane	1.38	64	8125	7.53733	ppb	100
10) Dichlorofluoromethane	1.54	67	23508	8.08669	ppb	99
11) Trichlorofluoromethane	1.57	103	15827	8.33312	ppb	91
13) Acrolein	1.90	56	7354	70.92899	ppb	# 66
14) Acetone	2.04	43	5877	7.78067	ppb	97
15) Freon-113	2.00	101	13630	8.28914	ppb	98
16) 1,1-DCE	1.98	96	12627	7.87046	ppb	98
17) t-Butanol	2.62	59	18687	110.54278	ppb	95
18) 2-Propanol	2.20	45	4040	36.71545	ppb	94
19) Acetonitrile	2.28	41	21736	97.55129	ppb	97
20) Methyl Acetate	2.36	43	9043	5.91000	ppb	# 85
21) Iodomethane	2.09	142	4369	6.92274	ppb	# 89
22) Acrylonitrile	2.69	53	5832	7.94290	ppb	94
23) Methylene chloride	2.43	84	16000	8.39762	ppb	100
24) Carbon disulfide	2.14	76	31584	6.95205	ppb	95
25) Methyl t-butyl ether (MtBE)	2.75	73	38218	8.05729	ppb	99
26) Trans-1,2-DCE	2.72	96	15449	8.68250	ppb	91
27) Diisopropyl Ether	3.40	45	28075	7.61764	ppb	97
29) 1,1-DCA	3.21	63	23080	7.95587	ppb	97
30) Vinyl Acetate	3.40	45	28075	7.61764	ppb	97
31) Ethyl tert Butyl Ether	3.94	59	26353	8.02109	ppb	95
32) MEK (2-Butanone)	4.16	43	2230	8.58152	ppb	99
33) Cis-1,2-DCE	4.07	96	15847	8.33577	ppb	96
34) 2,2-Dichloropropane	4.05	77	15627	7.28289	ppb	# 88
37) Chloroform	4.59	83	28148	9.02291	ppb	98
38) Bromochloromethane	4.42	128	11239	10.45351	ppb	95
40) 1,1,1-TCA	4.80	97	24989	9.56383	ppb	98
41) Cyclohexane	4.86	41	7270	7.74602	ppb	93
42) 1,1-Dichloropropene	5.04	75	14462	8.26477	ppb	94
43) 2,2,4-Trimethylpentane	5.49	57	21155	7.24787	ppb	99
45) Carbon Tetrachloride	5.03	117	23432	9.35248	ppb	99
46) Tert Amyl Methyl Ether	5.56	73	26929	7.87862	ppb	99
48) 1,2-DCA	5.35	62	19764	8.50347	ppb	94
49) Benzene	5.31	78	52558	9.02525	ppb	95

(#) = qualifier out of range (m) = manual integration
 0727L35.D L0724W.M Tue Aug 13 16:27:11 2019

Data File : M:\LOKI\DATA\190724\0727L35.D
 Acq On : 28 Jul 19 2:07
 Sample : AZ95189W03 MSD 10ug/L
 Misc : IS&S 7/15/19,6/5/19

Vial: 35
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:56 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) TCE	6.18	130	18977	9.68365	ppb	96
51) 2-Pentanone	6.47	43	101184	109.19364	ppb	96
52) 1,2-Dichloropropane	6.44	63	13479	8.68581	ppb	99
53) Bromodichloromethane	6.80	83	21571	9.01300	ppb	95
54) Methyl Cyclohexane	6.40	83	14486	8.39716	ppb	90
55) Dibromomethane	6.57	93	11687	9.96564	ppb	91
57) MIBK (methyl isobutyl ket	7.56	43	10110	8.36937	ppb #	88
58) 1-Bromo-2-chloroethane	7.13	63	19560	8.87545	ppb	98
59) Cis-1,3-Dichloropropene	7.34	75	18309	7.99373	ppb	97
60) Toluene	7.71	91	60316	9.56122	ppb	100
61) Trans-1,3-Dichloropropene	7.99	75	17631	8.75261	ppb	90
62) 1,1,2-TCA	8.18	83	12779	9.23374	ppb	94
63) 2-Hexanone	8.51	43	7184	10.04879	ppb	90
66) 1,2-EDB	8.70	107	17097	9.62765	ppb	95
67) Tetrachloroethene	8.32	166	22760	8.64234	ppb	92
68) 1-Chlorohexane	9.29	91	13435	8.03674	ppb	97
69) 1,1,1,2-Tetrachloroethane	9.37	131	20125	8.83049	ppb	98
70) m&p-Xylene	9.55	91	94126	18.43753	ppb	96
71) o-Xylene	9.98	106	21909	8.28538	ppb	92
72) Styrene	9.99	104	37457	8.18091	ppb	99
74) 1,3-Dichloropropane	8.36	76	24258	8.79119	ppb	99
75) Dibromochloromethane	8.60	129	21314	9.29675	ppb	83
76) Chlorobenzene	9.26	112	47194	9.48072	ppb	98
77) Ethylbenzene	9.41	91	59254	8.91272	ppb	98
78) Bromoform	10.16	173	18804	9.97653	ppb	94
80) Isopropylbenzene	10.39	105	32400	9.32610	ppb	94
81) 1,1,2,2-Tetrachloroethane	10.72	83	21650	9.37591	ppb	98
82) 1,2,3-Trichloropropane	10.74	110	8249	10.15134	ppb	83
83) t-1,4-Dichloro-2-Butene	10.78	53	2346	7.76219	ppb #	50
84) Bromobenzene	10.68	156	22353	9.58572	ppb	89
85) n-Propylbenzene	10.84	91	63325	9.22268	ppb	97
86) 4-Ethyltoluene	10.97	105	56591	9.23599	ppb	100
87) 2-Chlorotoluene	10.91	91	24160	9.25335	ppb	97
88) 1,3,5-Trimethylbenzene	11.04	105	51372	9.44684	ppb	97
89) 4-Chlorotoluene	11.03	126	9541	9.13746	ppb	85
90) Tert-Butylbenzene	11.38	119	51201	9.96770	ppb	91
91) 1,2,4-Trimethylbenzene	11.44	105	47339	9.23954	ppb	97
92) Sec-Butylbenzene	11.62	105	59744	9.61367	ppb	100
93) p-Isopropyltoluene	11.79	119	52154	9.11120	ppb	98
94) Benzyl Chloride	11.96	91	9676	6.66169	ppb	97
95) 1,3-DCB	11.71	146	38800	9.70596	ppb	91
96) 1,4-DCB	11.81	146	41508	9.53783	ppb	96
97) n-Butylbenzene	12.23	91	38277	9.07132	ppb	98
98) 1,2-DCB	12.21	146	37904	9.37183	ppb	99
99) Hexachloroethane	12.48	201	13909	10.00592	ppb	82
100) 1,2-Dibromo-3-chloropropan	13.04	75	3338	8.05783	ppb	94
101) 1,2,4-Trichlorobenzene	13.95	180	22105	9.19487	ppb	94
102) Hexachlorobutadiene	14.16	223	5163	9.79101	ppb	98
103) Naphthalene	14.21	128	39506	9.07828	ppb	97
104) 1,2,3-Trichlorobenzene	14.47	180	21656	9.38225	ppb	96

(#) = qualifier out of range (m) = manual integration
 0727L35.D L0724W.M Tue Aug 13 16:27:12 2019

Quantitation Report

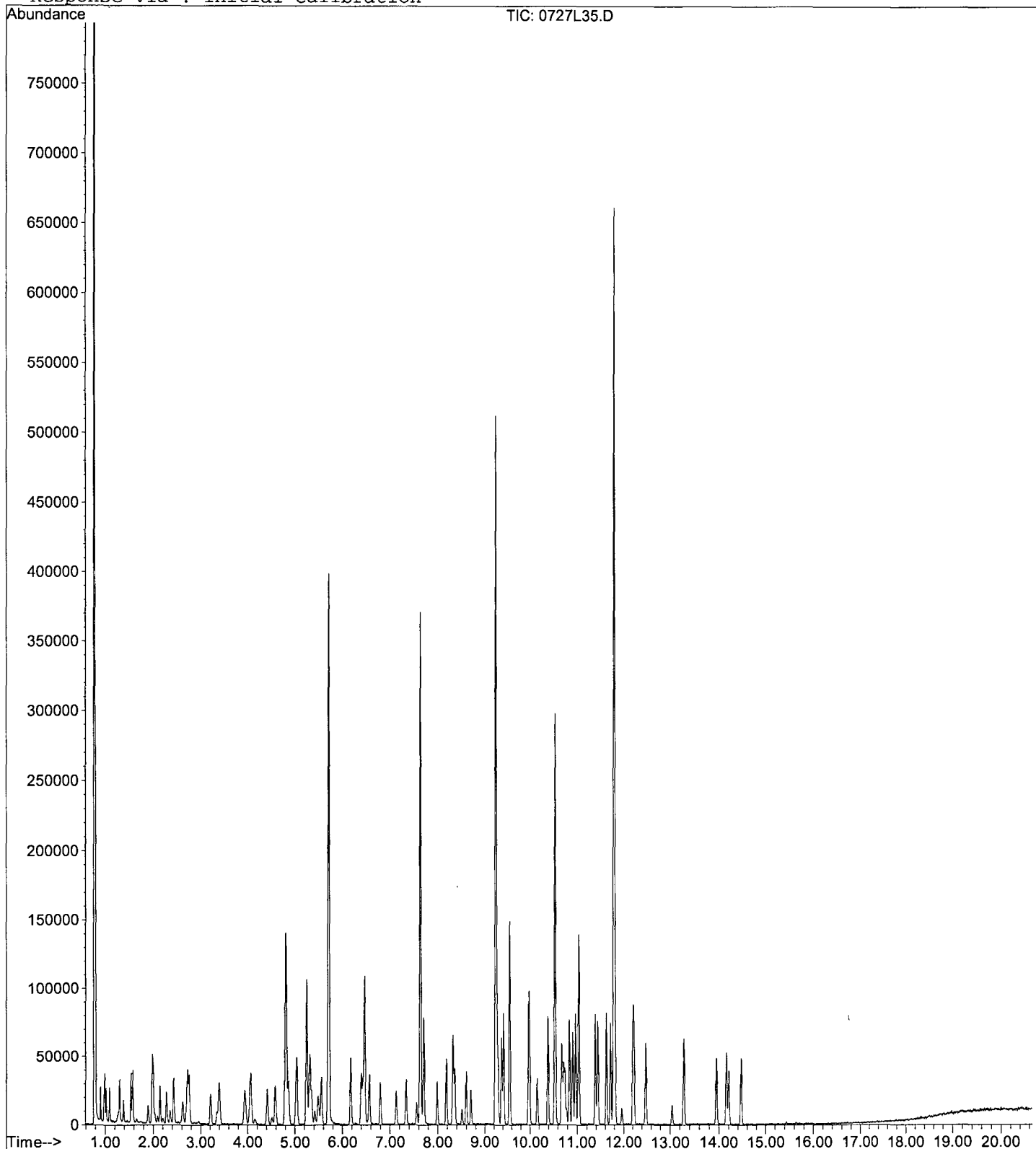
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Acq On : 28 Jul 19 2:07
Sample : AZ95189W03 MSD 10ug/L
Misc : IS&S 7/15/19,6/5/19

Vial: 35
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:56 2019

Quant Results File: L0724W.RES

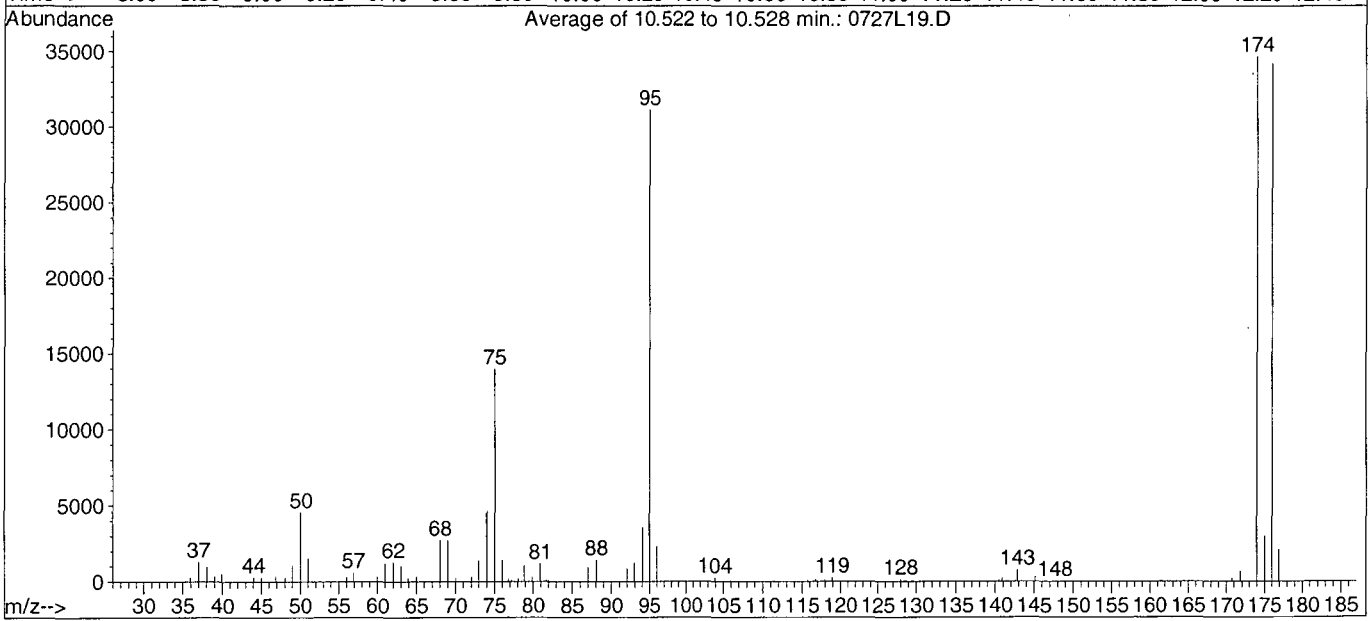
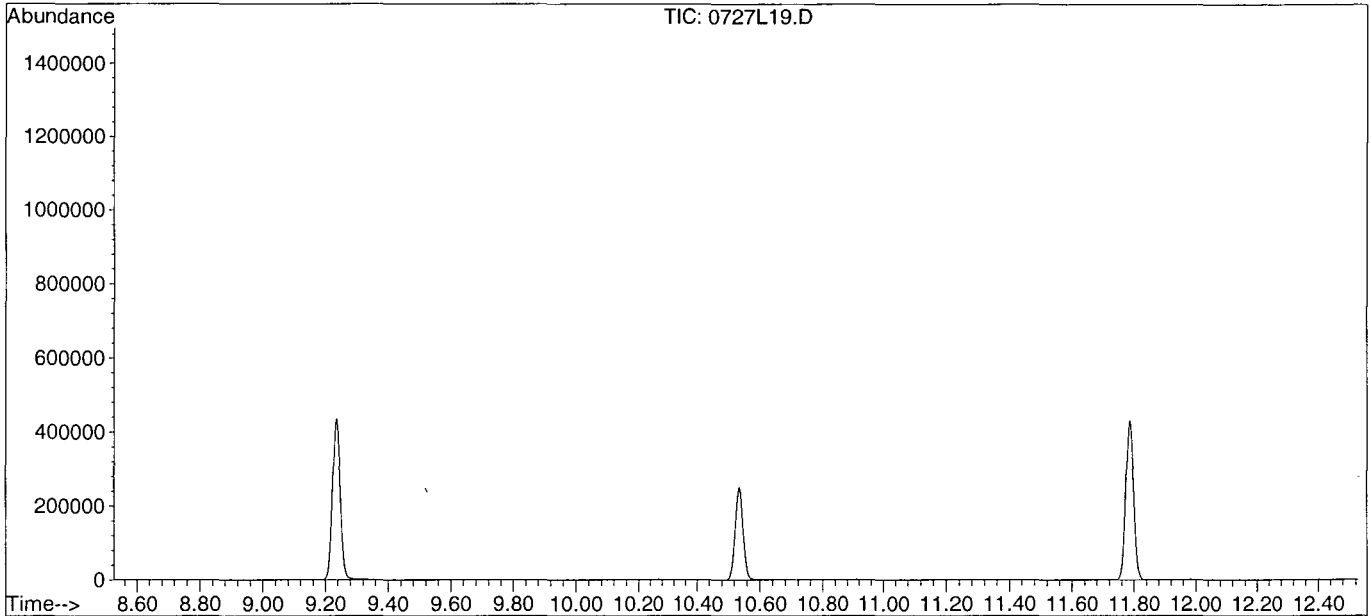
Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0727L19.D
 Acq On : 27 Jul 19 18:26
 Sample : 25ug/L BFB STD 7/5/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 19
 Operator:
 Inst : Loki
 Multiplr: 1.00

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B



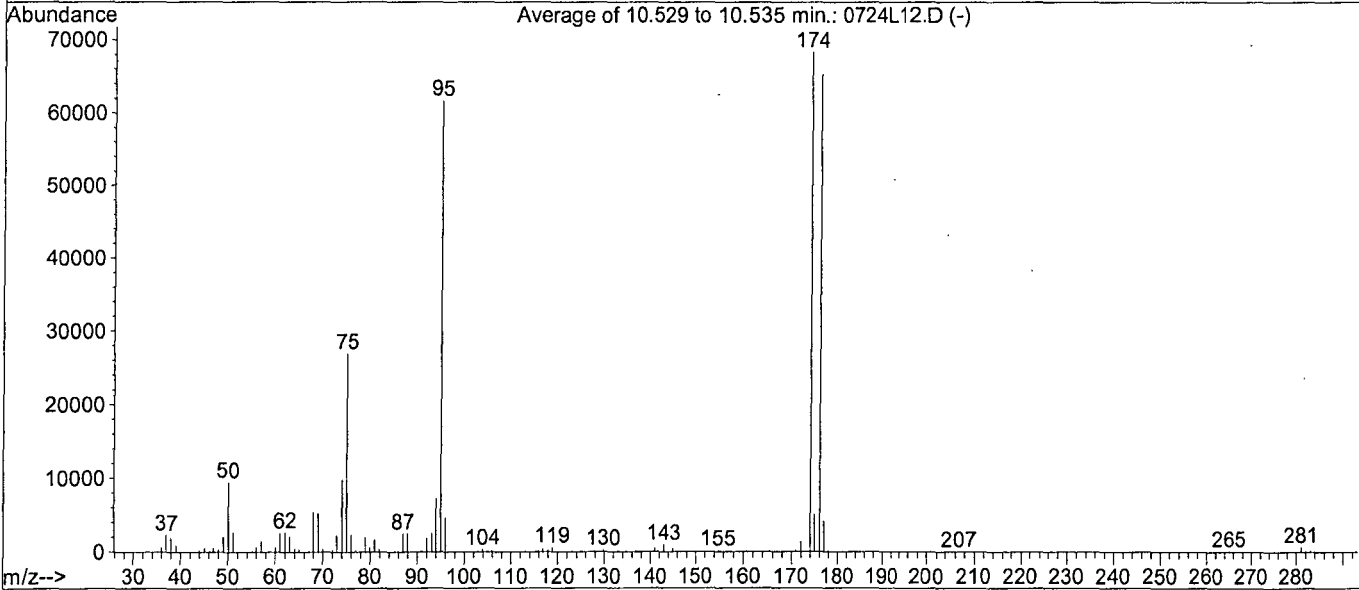
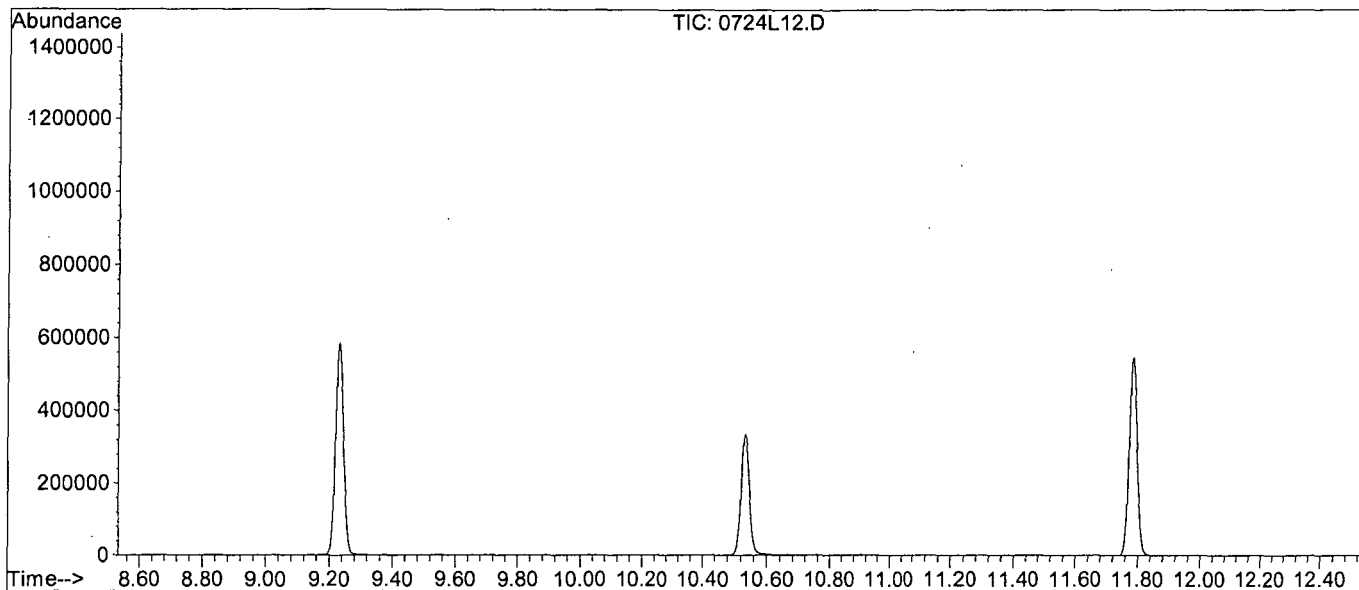
Spectrum Information: Average of 10.522 to 10.528 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	14.6	4533	PASS
75	95	30	60	44.8	13959	PASS
95	95	100	100	100.0	31136	PASS
96	95	5	9	7.4	2307	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	200	111.3	34659	PASS
175	174	5	9	8.6	2980	PASS
176	174	95	101	98.7	34208	PASS
177	176	5	9	6.1	2080	PASS

Data File : M:\LOKI\DATA\190724\0724L12.D
 Acq On : 24 Jul 19 13:52
 Sample : 25ug/L BFB STD 7/5/19
 Misc : 2ul

Vial: 1
 Operator:
 Inst : Loki
 Multiplr: 1.00

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B



AutoFind: Scans 3091, 3092, 3093; Background Corrected with Scan 3076

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.3	9438	PASS
75	95	30	60	43.6	26904	PASS
95	95	100	100	100.0	61680	PASS
96	95	5	9	7.5	4623	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	200	110.7	68296	PASS
175	174	5	9	7.4	5033	PASS
176	174	95	101	95.5	65256	PASS
177	176	5	9	6.4	4185	PASS

Loki 8260 Standard Prep

Loki 8260 Water Calibration Curve										
						Prepared By (Initials): <u>CMM</u>				
0.3ug/L										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	0.3ug/L	5	Prepared 07/24/19	09/22/19	N/A	3uL	50mL	P&T Water	0.3
VOA STD. 10	O2SI		5	Prepared 07/24/19	09/22/19	N/A	3uL			0.3
VOA STD. 12	O2SI		5	Prepared 07/24/19	09/22/19	N/A	3uL			0.3
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	2uL			10
0.5ug/L										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	0.5ug/L	5	Prepared 07/24/19	09/22/19	N/A	5uL	50mL	P&T Water	0.5
VOA STD. 10	O2SI		5	Prepared 07/24/19	09/22/19	N/A	5uL			0.5
VOA STD. 12	O2SI		5	Prepared 07/24/19	09/22/19	N/A	5uL			0.5
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	5uL			25
1.0ug/L										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	1.0ug/L	5	Prepared 07/24/19	09/22/19	N/A	10uL	50mL	P&T Water	1
VOA STD. 10	O2SI		5	Prepared 07/24/19	09/22/19	N/A	10uL			1
VOA STD. 12	O2SI		5	Prepared 07/24/19	09/22/19	N/A	10uL			1
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	10uL			50
2.0ug/L										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	2.0ug/L	5	Prepared 07/24/19	09/22/19	N/A	20uL	50mL	P&T Water	2
VOA STD. 10	O2SI		5	Prepared 07/24/19	09/22/19	N/A	20uL			2
VOA STD. 12	O2SI		5	Prepared 07/24/19	09/22/19	N/A	20uL			2
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	15uL			75
5ug/L										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	5ug/L	50	Prepared 07/24/19	09/22/19	N/A	5uL	50mL	P&T Water	5
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	5uL			5
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	5uL			5
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	5uL			5
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	20uL			100
VOA STD. 10	O2SI		50	Prepared 07/24/19	09/22/19	N/A	5uL			5
10ug/L										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	10ug/L	50	Prepared 07/24/19	09/22/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	10uL			10
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	25uL			125
VOA STD. 10	O2SI		50	Prepared 07/24/19	09/22/19	N/A	10uL			10

* 7/17/19

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* 7/17/19

* 7/17/19

* 7/17/19

* 7/17/19

* Entry Error W 8/16/19

20ug/L										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	20ug/L	50	Prepared 07/24/19	09/22/19	N/A	20uL	50mL	P&T Water	20
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	20uL			20
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	20uL			20
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	20uL			20
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	30uL			150

40ug/L										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	40ug/L	50	Prepared 07/24/19	09/22/19	N/A	40uL	50mL	P&T Water	40
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	40uL			40
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	40uL			40
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	40uL			40
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	35uL			175

100ug/L										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	100ug/L	50	Prepared 07/24/19	09/22/19	N/A	100uL	50mL	P&T Water	100
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	100uL			100
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	100uL			100
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	100uL			100
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	40uL			200

Loki 8260 Water Second Source (SS)										
Prepared: 07/24/19										
Expires: 08/23/19										
						Prepared By (Initials): <u>CMM</u>				
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 4	Phenova	8260 Water SS	50	Prepared 07/24/19	09/22/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 5	O2SI	8260 Water SS	50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. 6	Various	8260 Water SS	50	Prepared 07/24/19	07/17/19	N/A	10uL			10
VOA STD. TBA	Various	8260 Water SS	250	Prepared 07/24/19	07/17/19	N/A	25uL			250

8260 Water Continuing Calibrations (CCV)/ Lab Control Spikes (LCS)										
Prepared: 07/24/19										
Expires: 07/25/19										
						Prepared By (Initials): <u>CMM</u>				
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	CCV/ LCS	50	Prepared 07/24/19	09/22/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova	CCV/ LCS	50	Prepared 07/24/19	07/31/19	N/A	10uL			10
VOA STD. 1	O2SI	CCV/ LCS	50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. 2	O2SI	CCV/ LCS	50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. TBA	Various	CCV/ LCS	250	Prepared 07/24/19	07/31/19	N/A	25uL			125

LCS (X4 Ketones)										
Prepared: 07/24/19										
Expires: 07/25/19										
						Prepared By (Initials): <u>CMM</u>				
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	LCS X4 Ketones	50	Prepared 07/24/19	09/22/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova	LCS X4 Ketones	50	Prepared 07/24/19	07/31/19	N/A	10uL			10
VOA STD. 1	O2SI	LCS X4 Ketones	50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. 2	O2SI	LCS X4 Ketones	50	Prepared 07/24/19	09/22/19	N/A	40uL			40
VOA STD. TBA	Various	LCS X4 Ketones	250	Prepared 07/24/19	07/31/19	N/A	25uL			125

* 7/17/19 entry error w/ 8/16/19

Loki 8260 Water Surrogate							Prepared By (Initials): <u>DG</u>			
Prepared: 08/08/19										
Expires: 04/04/20										
Methanol Lot No: 58243										

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
8260 Surrogate Solution	O2SI	120002-01	2,000	348756-39341	04/04/20	02/10/22	375uL	15mL	Methanol	50

Loki 8260 Water Internal Standard							Prepared By (Initials): <u>DG</u>			
Prepared: 08/09/19										
Expires: 08/06/20										
Methanol Lot No: 58243										

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Internal Standard Solution	Phenova	ALO-101215	2,500	CL12444-40615	08/06/20	04/30/23	300uL	15mL	Methanol	50

Primary and Secondary Working Standards

Primary Standards										
VOA STD 7										
Prepared: 07/17/19 C										
Expires: 09/15/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): <u>CMM</u>										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Gasses STD	Phenova	ALO-101206	2,000	CL12965-408901	07/09/20	11/30/23	100uL	4mL	Methanol	50
Hexachloroethane	Absolute	70199	1,000	091818-40719	07/09/20	09/18/23	200uL			50
Benzyl Chloride	Absolute	70037	1,000	021119-40680	07/09/20	02/11/20	200uL			50
VOA STD 8										
Prepared: 07/17/19 D										
Expires: 07/31/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): <u>CMM</u>										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Additions STD	Phenova	ALO-130175	2,000	CL12744-40591	07/09/20	08/31/20	100uL	4mL	Methanol	50
502.2 Cal. Std.	Phenova	ALO-101200	2,000	CL12489-40595	07/09/20	05/31/23	100uL			50
Vinyl Acetate	Phenova	ALO-101228	2,000	CL13816-41081	07/09/20	07/31/19	100uL			50
VOA STD TBA										
Prepared: 07/17/19 E										
Expires: 07/31/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): <u>CMM</u>										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Custom VOC Mix	Phenova	ALO-130176	2,000	CL12929-41066	07/17/20	11/30/20	500uL	4mL	Methanol	250
Acrolein	Phenova	ALO-130549	10,000	CL13820-41082	07/09/20	07/31/19	100uL			250
VOA STD 1										
Prepared: 07/17/19 F										
Expires: 09/15/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): <u>CMM</u>										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
2-CEVE	Absolute	071018-40341	2,000	071018-40713	07/05/20	07/10/21	50	2mL	Methanol	50
VOA STD 2										
Prepared: 07/17/19 G										
Expires: 09/15/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): <u>CMM</u>										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Ketones Std.	Phenova	ALO-109211	2,000	CL12729-40181	07/09/20	08/31/28	100	4mL	Methanol	50
VOA STD 9										
Prepared: 07/17/19 H										
Expires: 09/15/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): <u>CMM</u>										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA STD. 7		VOA STD. 9	50	Prepared 07/17/19	05/21/20	N/A	200uL	2mL	Methanol	5
VOA STD. 8			50	Prepared 07/17/19	05/21/20	N/A	200uL			5
VOA STD. 10										
Prepared: 07/17/19 I										
Expires: 09/15/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): <u>CMM</u>										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA STD. 1		VOA STD. 10	50	Prepared 07/17/19	05/21/20	N/A	200uL	2mL	Methanol	5
VOA STD. 12										
Prepared: 07/17/19 J										
Expires: 09/15/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): <u>CMM</u>										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA STD. 2		VOA STD. 12	50	Prepared 07/17/19	05/21/20	N/A	200uL	2mL	Methanol	5

Second Source (SS) Standards										
VOA STD. 3										
Prepared: 07/17/19 K										
Expires: 09/15/19										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Ketones Standard	Phenova	ALO-101211	2,000	CL12730-40609	07/09/20	08/31/28	50uL	2mL	Methanol	50
VOA STD. 5										
Prepared: 07/17/19 L										
Expires: 09/15/19										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
8260 Gases (SS)	Phenova	ALO-101206	2,000	CL12966-40911	07/09/20	11/30/23	50uL	2mL	Methanol	50
2-CEVE (SS)	Absolute	82408	2,000	071018-40965	0709/2020	07/10/21	50uL			50
VOA STD. 6										
Prepared: 07/17/19 M										
Expires: 07/17/19										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
502.2 Calibration STD. (54-compounds)	Phenova	ALO-101200	2,000	CL12490-40917	07/09/20	05/31/23	50uL	2mL	Methanol	50
Vinyl Acetate	Phenova	ALO-101228	2,000	CL13739-40986	06/25/20	07/17/19	50uL			50
Hexachloroethane	Accustan	AS-E0011	1,000	218051281-40737	07/09/20	05/14/28	100uL			50
Benzyl Chloride	Accustan	M-8010-01	200	219041664-40952	07/09/20	05/22/21	500uL			50
VOA STD. TBA										
Prepared: 07/17/19 N										
Expires: 07/17/19										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Custom VOA Mix (4-3)	Phenova	ALO-130176	2,000	CL12542-39863	07/17/20	05/31/20	250uL	2mL	Methanol	250
Acrolein	Phenova	ALO-101224	10,000	CL13741-40987	06/25/20	07/17/19	50uL			250
VOA STD. 0										
Prepared: 07/17/19 O										
Expires: 07/09/19										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Addition STD.	Phenova	ALO-130175	2,000	CL12744-40994	07/09/19	08/31/20	50uL	2mL	Methanol	50
BFB Tune										
Prepared: 07/05/19										
Expires: 01/19/21										
Methanol Lot No. 58019-00958										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
4-Bromofluorobenzene	O2SI	020135-03	2,500	342387-39073	04/19/20	01/19/21	20uL	2mL	Methanol	25

Injection Log

Directory: M:\LOKI\DATA\190724\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	0724L12.D	1	25ug/L BFB STD 7/5/19	2ul	24 Jul 19 13:52
4	0724L15.D	1	0.3ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 15:18
5	0724L16.D	1	0.5ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 15:47
6	0724L17.D	1	1.0ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 16:16
7	0724L18.D	1	2.0ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 16:45
8	0724L19.D	1	5.0ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 17:14
9	0724L20.D	1	10ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 17:42
10	0724L21.D	1	20ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 18:11
11	0724L22.D	1	40ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 18:40
12	0724L23.D	1	100ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 19:09
15	0724L26.D	1	SS 10ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 20:36
16	0724L27.D	1	SS 30ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 21:04
19	0727L19.D	1	25ug/L BFB STD 7/5/19	IS&S 7/15/19,6/5/19	27 Jul 19 18:26
20	0727L20.D	1	190727B CCV 10ug/L	IS&S 7/15/19,6/5/19	27 Jul 19 18:55
21	0727L21.D	1	190727B LCS 10ug/L	IS&S 7/15/19,6/5/19	27 Jul 19 19:24
22	0727L22.D	1	190727B LCSD 10ug/L	IS&S 7/15/19,6/5/19	27 Jul 19 19:53
26	0727L26.D	1	190727B BLK	IS&S 7/15/19,6/5/19	27 Jul 19 21:48
27	0727L27.D	1	AZ95186W01	IS&S 7/15/19,6/5/19	27 Jul 19 22:17
28	0727L28.D	1	AZ95187W01	IS&S 7/15/19,6/5/19	27 Jul 19 22:45
29	0727L29.D	1	AZ95188W01	IS&S 7/15/19,6/5/19	27 Jul 19 23:14
30	0727L30.D	1	AZ95189W01	IS&S 7/15/19,6/5/19	27 Jul 19 23:43
31	0727L31.D	1	AZ95190W01	IS&S 7/15/19,6/5/19	28 Jul 19 00:12
34	0727L34.D	1	AZ95189W02 MS 10ug/L	IS&S 7/15/19,6/5/19	28 Jul 19 1:38
35	0727L35.D	1	AZ95189W03 MSD 10ug/L	IS&S 7/15/19,6/5/19	28 Jul 19 2:07
40	0727L40.D	1	Ending CCV 10ug/L 07/27/19	IS&S 7/15/19,6/5/19	28 Jul 19 4:31

ORGANICS
Calibration Data

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. _____
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 7/24/2019
Instrument: Loki

Initials: _____

0716L27.D 0716L28.D 0716L29.D 0716L30.D 0716L31.D 0716L32.D 0716L33.D

	Compound	1	2	3	4	5	6	7			Avg	%RSD	Type	r ²	Q	MRF
1	I Fluorobenzene (IS)															
2	TMHBL Gasoline C6-C10	12.2	4.688	2.469	1.121	0.7447	0.6371	0.6283			3.2	132	TMHBL	0.991		
3	I Chlorobenzene-D5 (IS)															
4	I 1,4-Dichlorobenzene-D (IS)															
5																
6																
7																
8																
9																
10																
11																
12																
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31																
32																
33																
34																
35																

Data File : M:\LOKI\DATA\190715\0716L27.D
Acq On : 16 Jul 19 23:53
Sample : 20ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 26
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:32 2019

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 09 11:47:35 2019
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	480409	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	608530	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	581955	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	4690828m	69.01124	ppb	100

(#) = qualifier out of range (m) = manual integration
0716L27.D LGAS716.M Tue Aug 13 11:19:06 2019

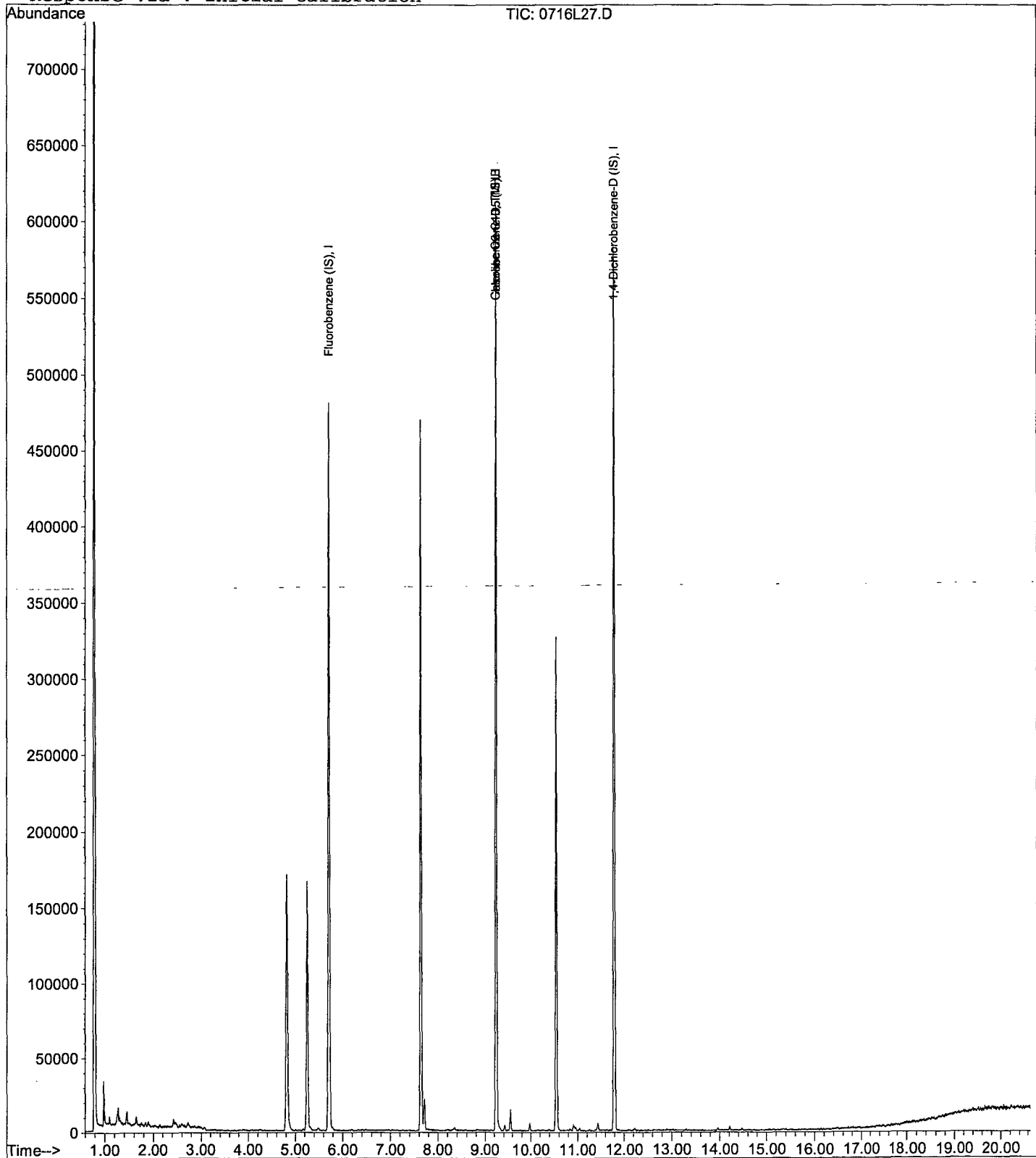
Data File : M:\LOKI\DATA\190715\0716L27.D
Acq On : 16 Jul 19 23:53
Sample : 20ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 26
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:32 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190715\0716L28.D
Acq On : 17 Jul 19 00:22
Sample : 50ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 27
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:31 2019

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 09 11:47:35 2019
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	594203	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	758986	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	708955	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	5571696m	40.60449	ppb	100

(#) = qualifier out of range (m) = manual integration
0716L28.D LGAS716.M Tue Aug 13 11:19:13 2019

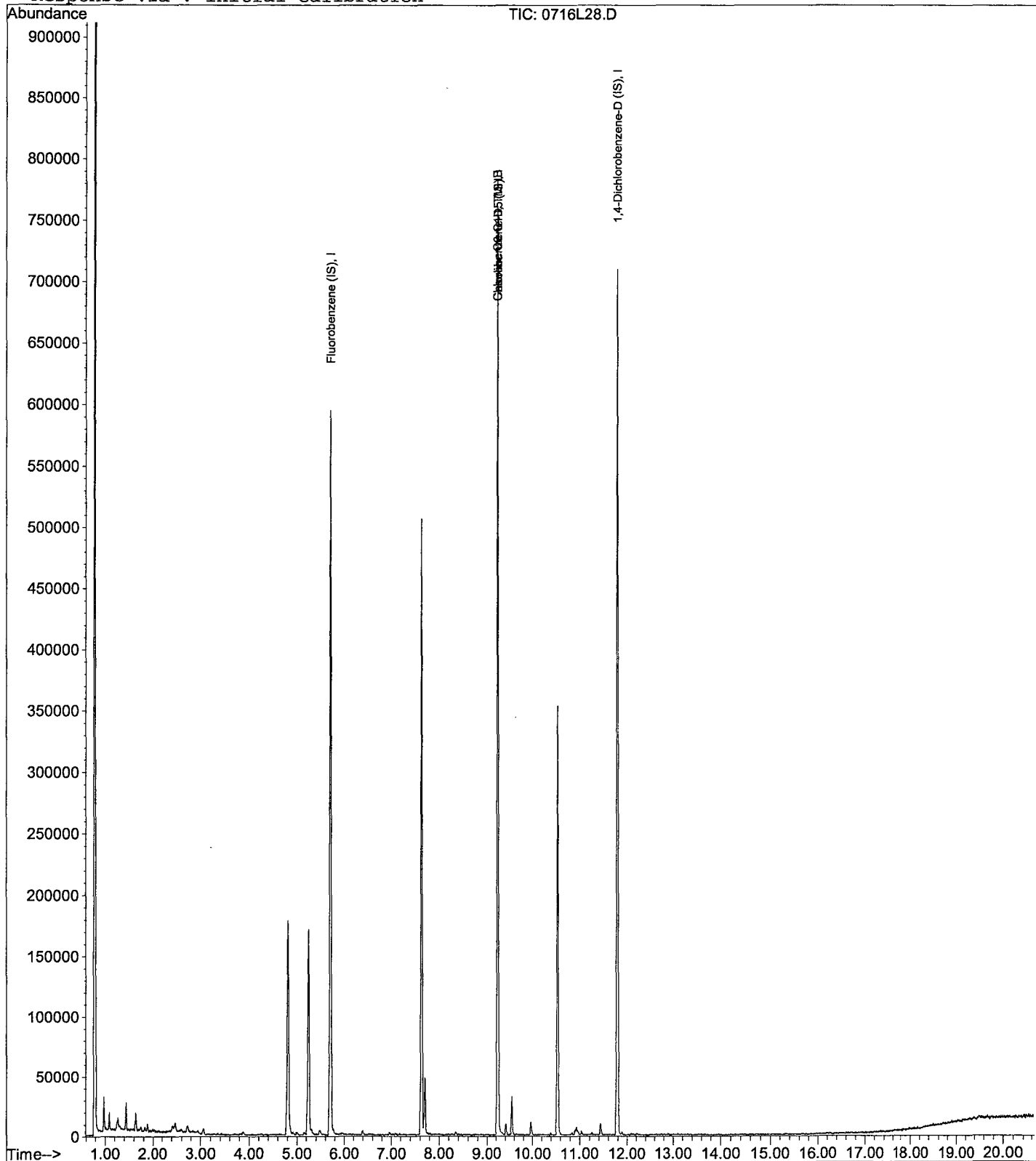
Data File : M:\LOKI\DATA\190715\0716L28.D
Acq On : 17 Jul 19 00:22
Sample : 50ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 27
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:31 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190715\0716L29.D
Acq On : 17 Jul 19 00:51
Sample : 100ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 28
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:30 2019

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 09 11:47:35 2019
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	594985	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	722754	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	744000	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	5876483m	71.10377	ppb	100

(#) = qualifier out of range (m) = manual integration
0716L29.D LGAS716.M Tue Aug 13 11:19:20 2019

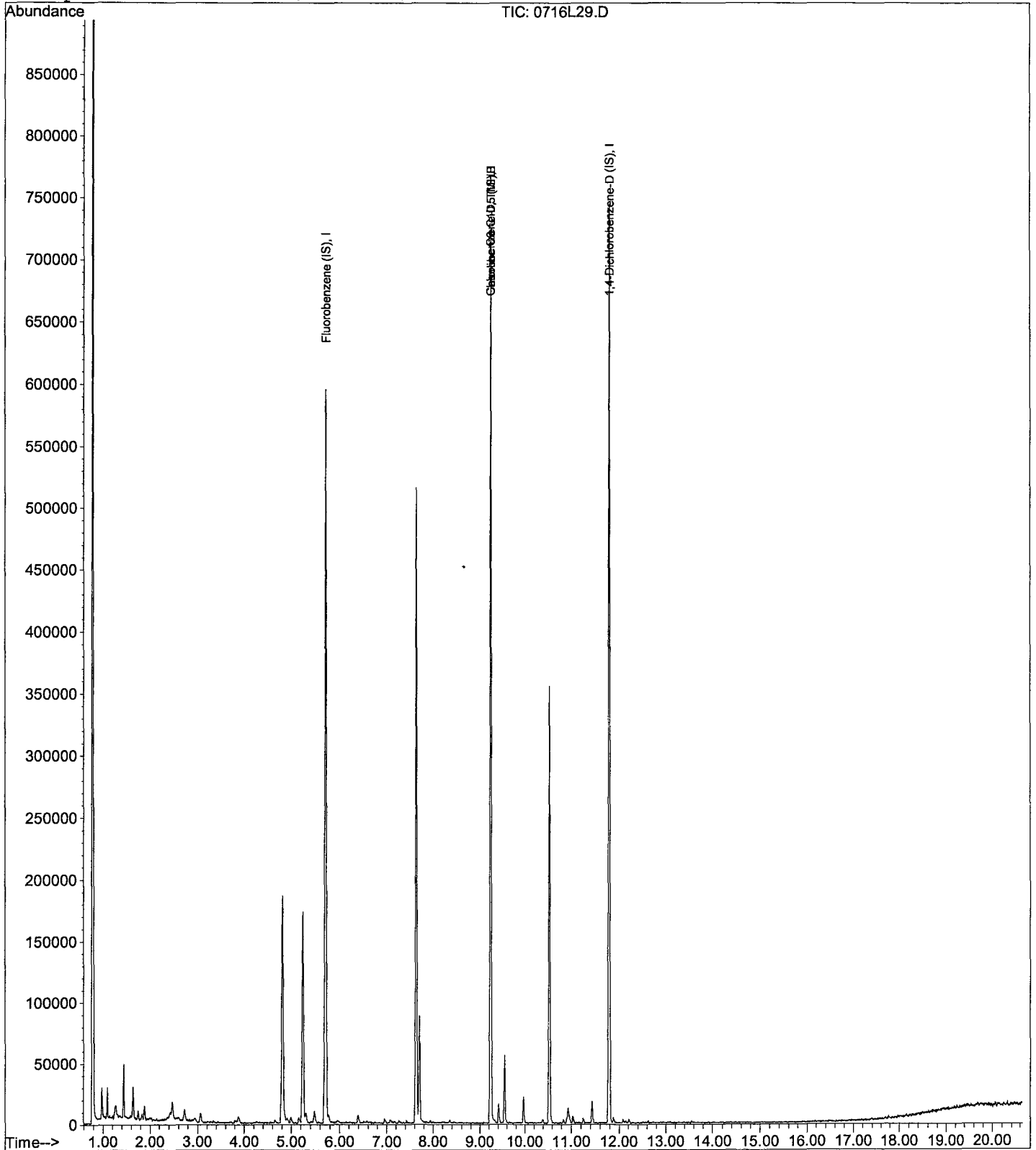
Data File : M:\LOKI\DATA\190715\0716L29.D
Acq On : 17 Jul 19 00:51
Sample : 100ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 28
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:30 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190715\0716L30.D
Acq On : 17 Jul 19 1:20
Sample : 300ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 29
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:27 2019

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 09 11:47:35 2019
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	547842	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	710016	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	682146	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	7372679m	316.31954	ppb	100

(#) = qualifier out of range (m) = manual integration
0716L30.D LGAS716.M Tue Aug 13 11:19:28 2019

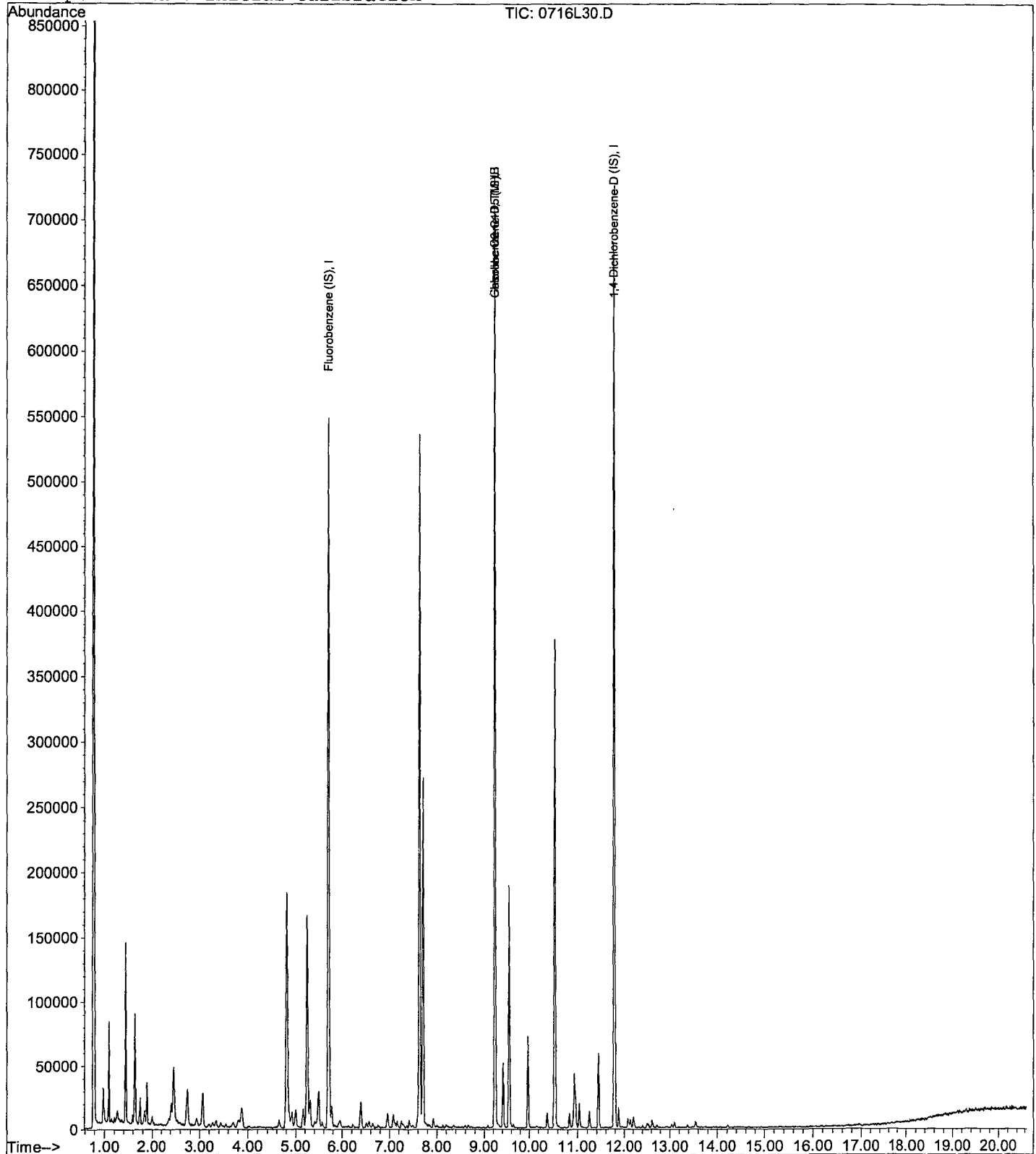
Data File : M:\LOKI\DATA\190715\0716L30.D
Acq On : 17 Jul 19 1:20
Sample : 300ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 29
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:27 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190715\0716L31.D
Acq On : 17 Jul 19 1:48
Sample : 600ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 30
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:28 2019

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 09 11:47:35 2019
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	575651	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	703823	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	740929	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	10288066m	624.88140	ppb	100

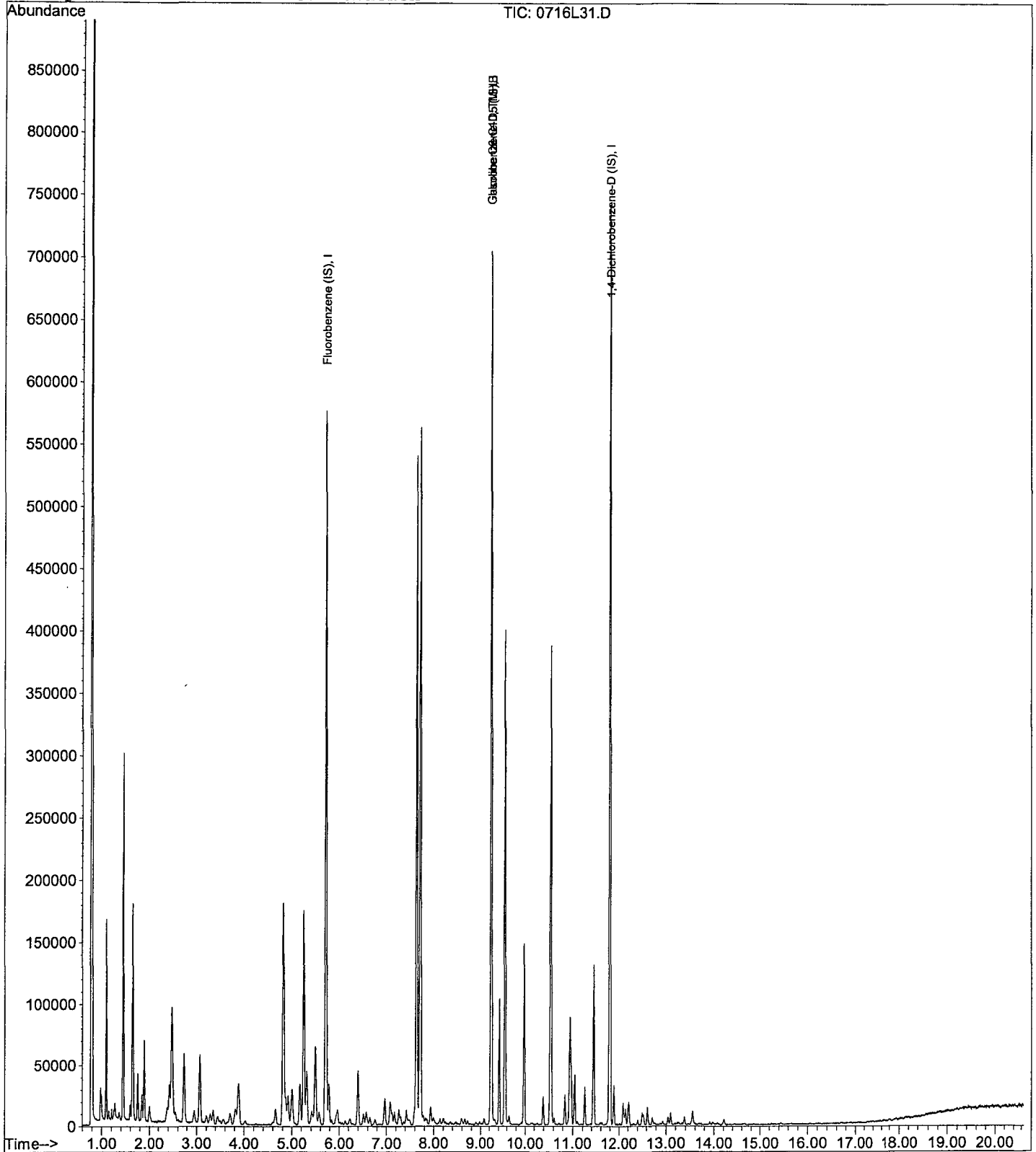
Data File : M:\LOKI\DATA\190715\0716L31.D
Acq On : 17 Jul 19 1:48
Sample : 600ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 30
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:28 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190715\0716L32.D
Acq On : 17 Jul 19 2:17
Sample : 800ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 31
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:29 2019 Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 09 11:47:35 2019
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	595326	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	733057	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	771232	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	7.71	TIC	12137970m	791.22280	ppb	100

(#) = qualifier out of range (m) = manual integration
0716L32.D LGAS716.M Tue Aug 13 11:19:43 2019

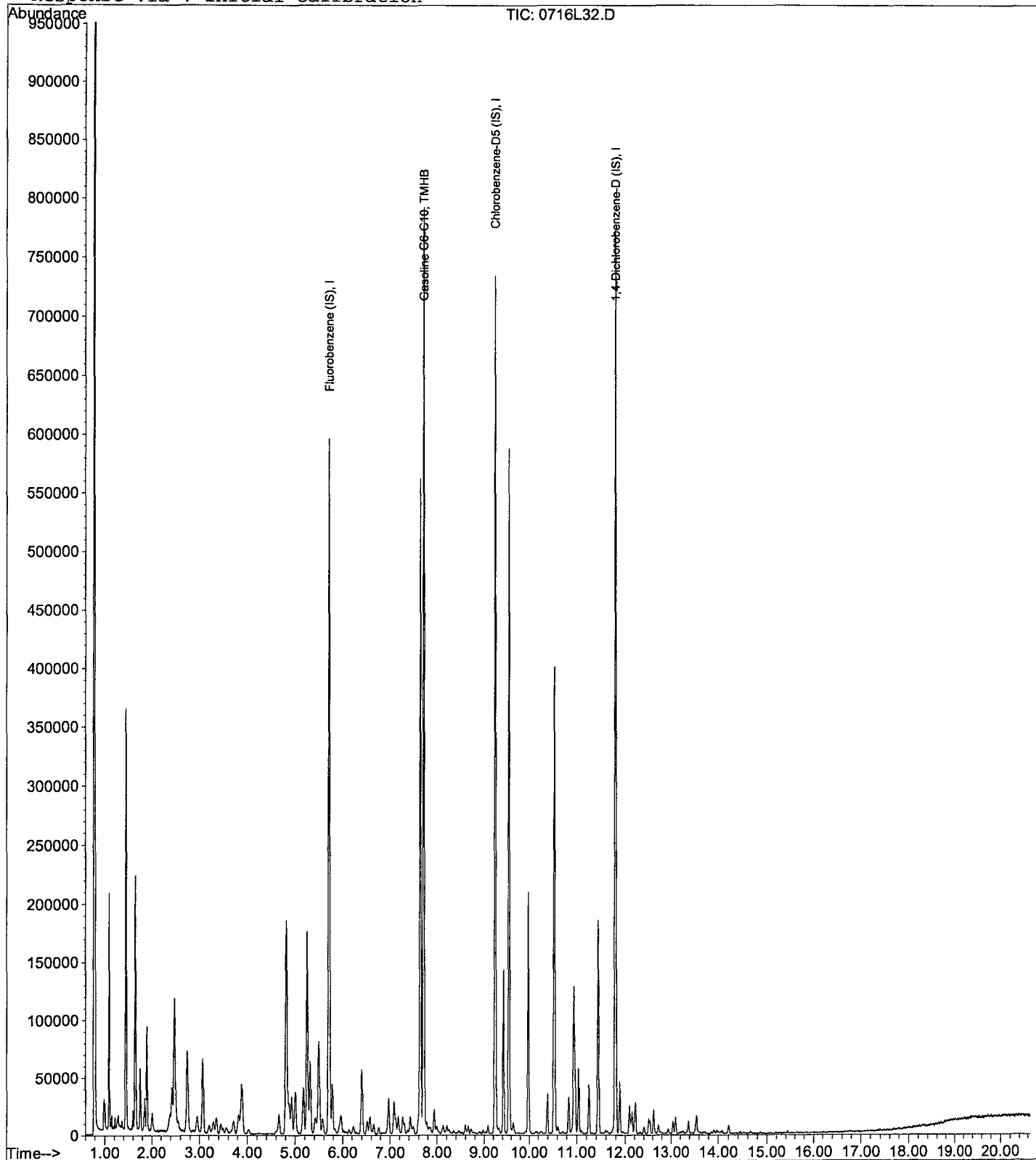
Data File : M:\LOKI\DATA\190715\0716L32.D
Acq On : 17 Jul 19 2:17
Sample : 800ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 31
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:29 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190715\0716L33.D
Acq On : 17 Jul 19 2:46
Sample : 1000ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 32
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:30 2019

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 09 11:47:35 2019
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	554084	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	667853	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	706893	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	7.71	TIC	13925982m	1112.42326	ppb	100

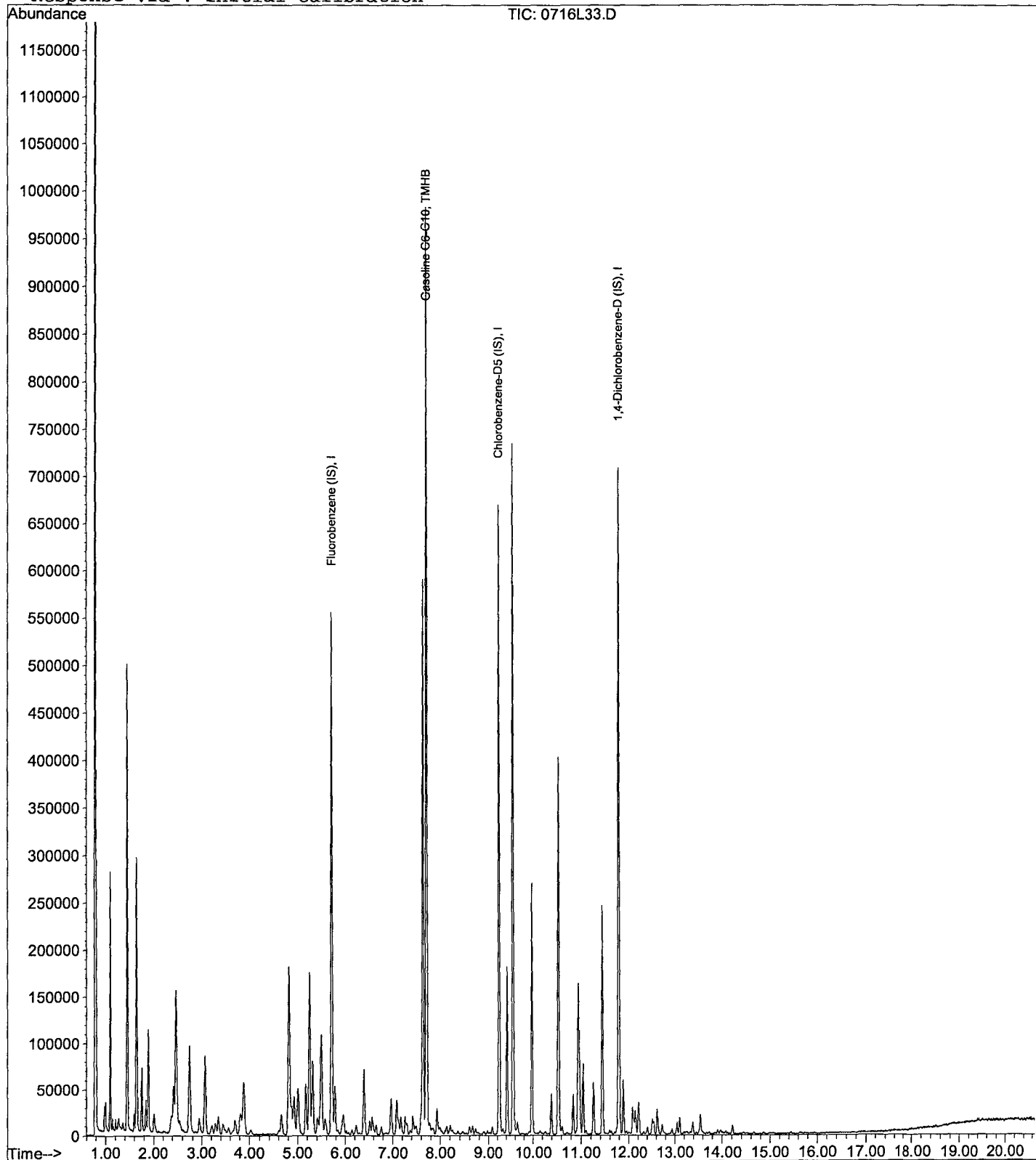
Data File : M:\LOKI\DATA\190715\0716L33.D
Acq On : 17 Jul 19 2:46
Sample : 1000ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 32
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:30 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190715\0716L34.D
Acq On : 17 Jul 19 3:14
Sample : (SS)300ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 33
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:37 2019

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	595148	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	768514	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	719908	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	7981319m	300.16668	ppb	100

(#) = qualifier out of range (m) = manual integration
0716L34.D LGAS716.M Tue Aug 13 11:20:50 2019

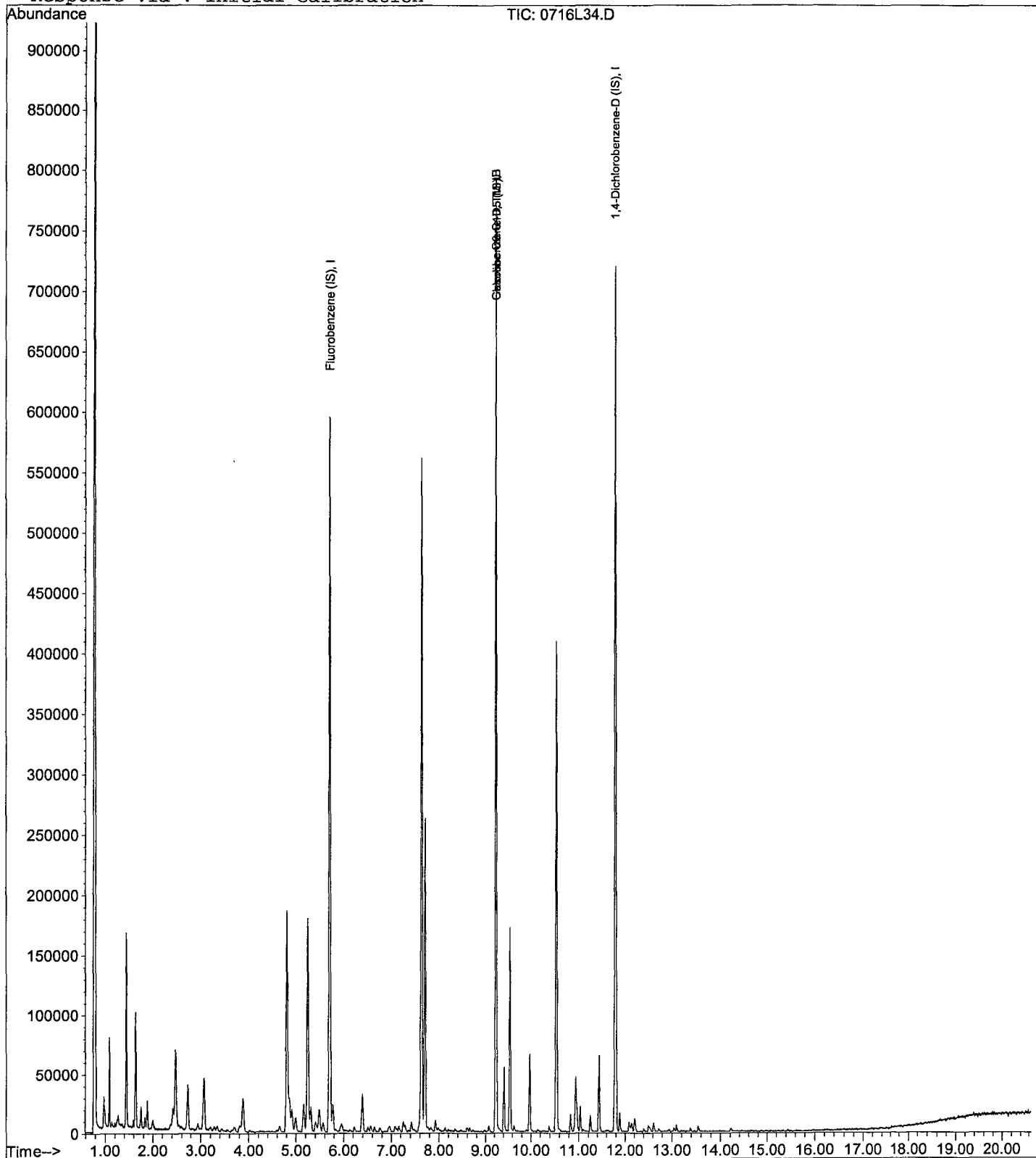
Data File : M:\LOKI\DATA\190715\0716L34.D
Acq On : 17 Jul 19 3:14
Sample : (SS)300ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 33
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:37 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 7/17/2019
Instrument: Loki
Initial Cal. Date: 7/17/2019
Data File: 0716L34.D

	Compound	MEAN	CCRF	%D	%Drift
1	TMHB Gasoline C6-C10	3.213	1.118	65	TMHBL 0.06
2					
3					
4					
5					
6					
7					
8					
9					
10					
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33					
34					
35					
36					
37					
38					
39					
40	Average			65.0	

Data File : M:\LOKI\DATA\190715\0716L34.D
Acq On : 17 Jul 19 3:14
Sample : (SS)300ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 33
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:37 2019

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	595148	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	768514	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	719908	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	7981319m	300.16668	ppb	100

(#) = qualifier out of range (m) = manual integration
0716L34.D LGAS716.M Tue Aug 13 11:22:13 2019

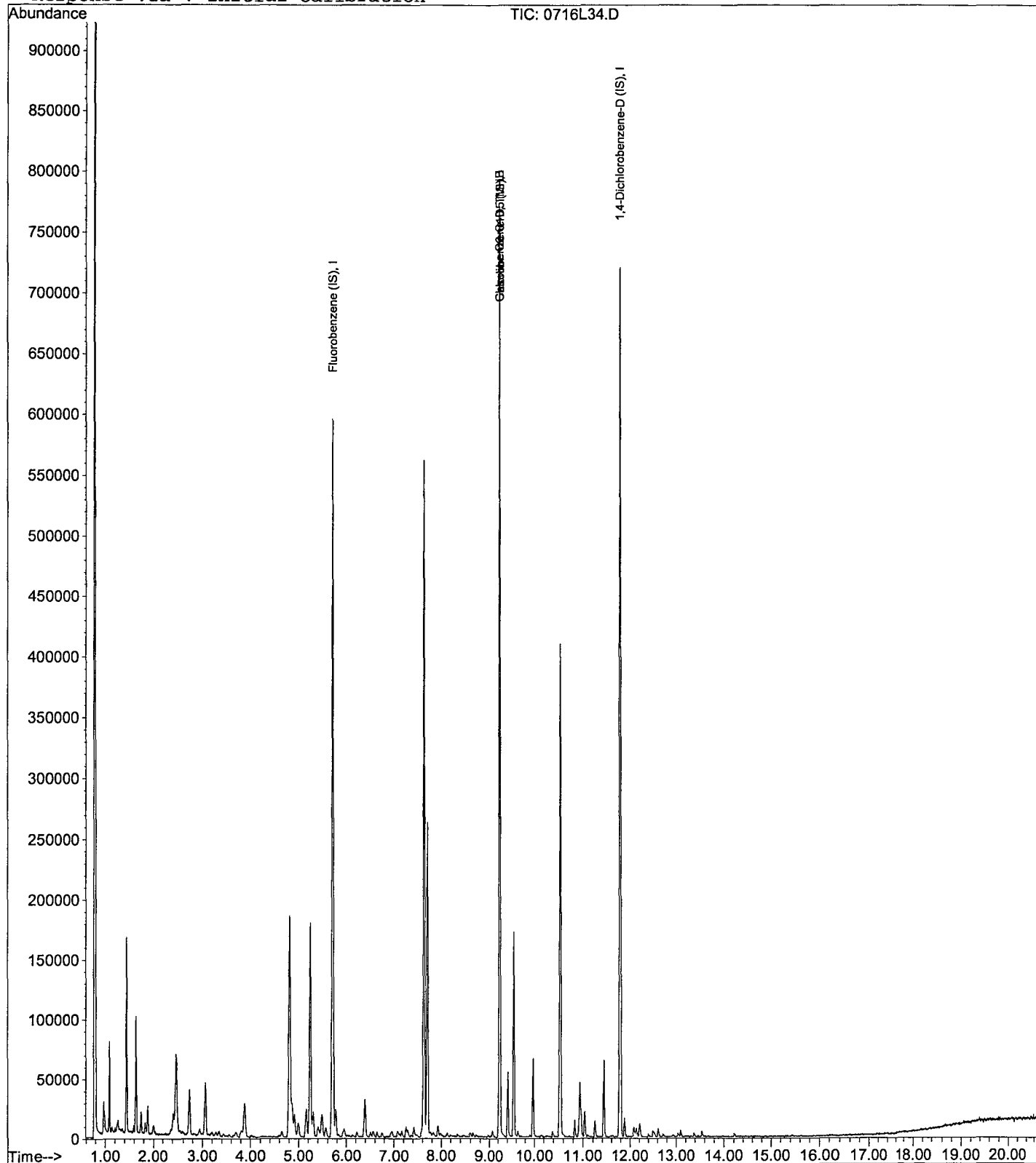
Data File : M:\LOKI\DATA\190715\0716L34.D
Acq On : 17 Jul 19 3:14
Sample : (SS)300ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 33
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:37 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 7/27/2019
Instrument: Loki
Initial Cal. Date: 7/17/2019
Data File: 0727L23.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Fluorobenzene (IS)	ISTD			I
2	TMHB Gasoline C6-C10	3.213	1.097	66	TMHBL 5.2
3	I Chlorobenzene-D5 (IS)	ISTD			I
4	I 1,4-Dichlorobenzene-D (IS)	ISTD			I
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
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35					
36					
37					
38					
39					
40	Average			66.0	

Data File : M:\LOKI\DATA\190724\0727L23.D Vial: 23
 Acq On : 27 Jul 19 20:22 Operator:
 Sample : 190727B CCV 300ug/L Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Jul 29 13:33 2019 Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Wed Jul 17 12:32:37 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	386981	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	486778	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	476480	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	5094886m	284.46832	ppb	100

Quantitation Report

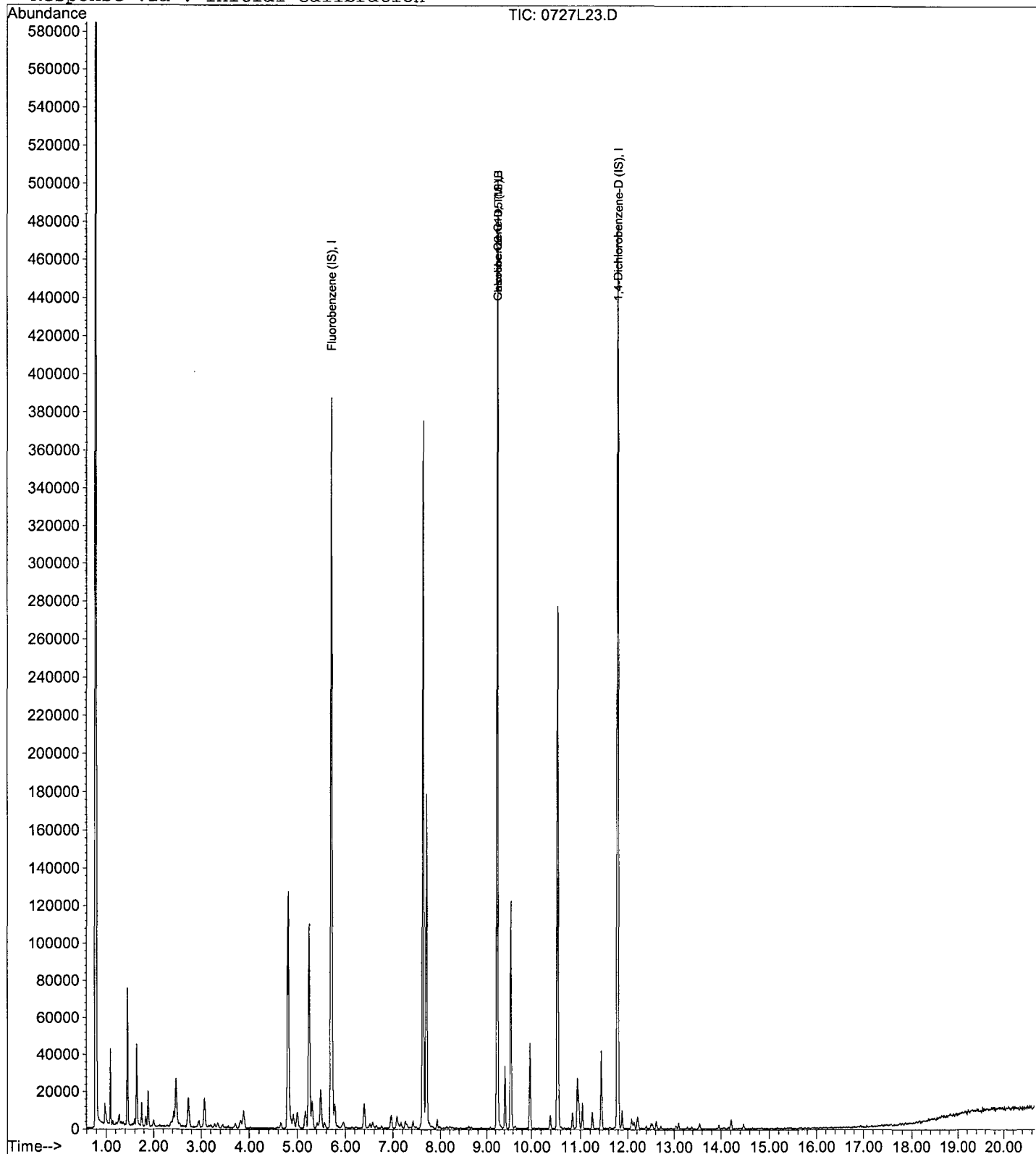
Data File : M:\LOKI\DATA\190724\0727L23.D
Acq On : 27 Jul 19 20:22
Sample : 190727B CCV 300ug/L
Misc : IS&S 7/15/19,6/5/19

Vial: 23
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:33 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 7/28/2019
Instrument: Loki
Initial Cal. Date: 7/17/2019
Data File: 0727L41.D

	Compound	MEAN	CCRF	%D	%Drift
1	Fluorobenzene (IS)	ISTD			
2	TMHB Gasoline C6-C10	3.213	1.045	67	TMHBL 19
3	Chlorobenzene-D5 (IS)	ISTD			
4	1,4-Dichlorobenzene-D (IS)	ISTD			
5					
6					
7					
8					
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38					
39					
40	Average			67.0	

Data File : M:\LOKI\DATA\190724\0727L41.D Vial: 41
 Acq On : 28 Jul 19 5:00 Operator:
 Sample : Ending CCV 300ug/L 07/27/19 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Jul 29 13:34 2019 Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Wed Jul 17 12:32:37 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	368465	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	455774	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	472551	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	4620898m	244.42205	ppb	100

Quantitation Report

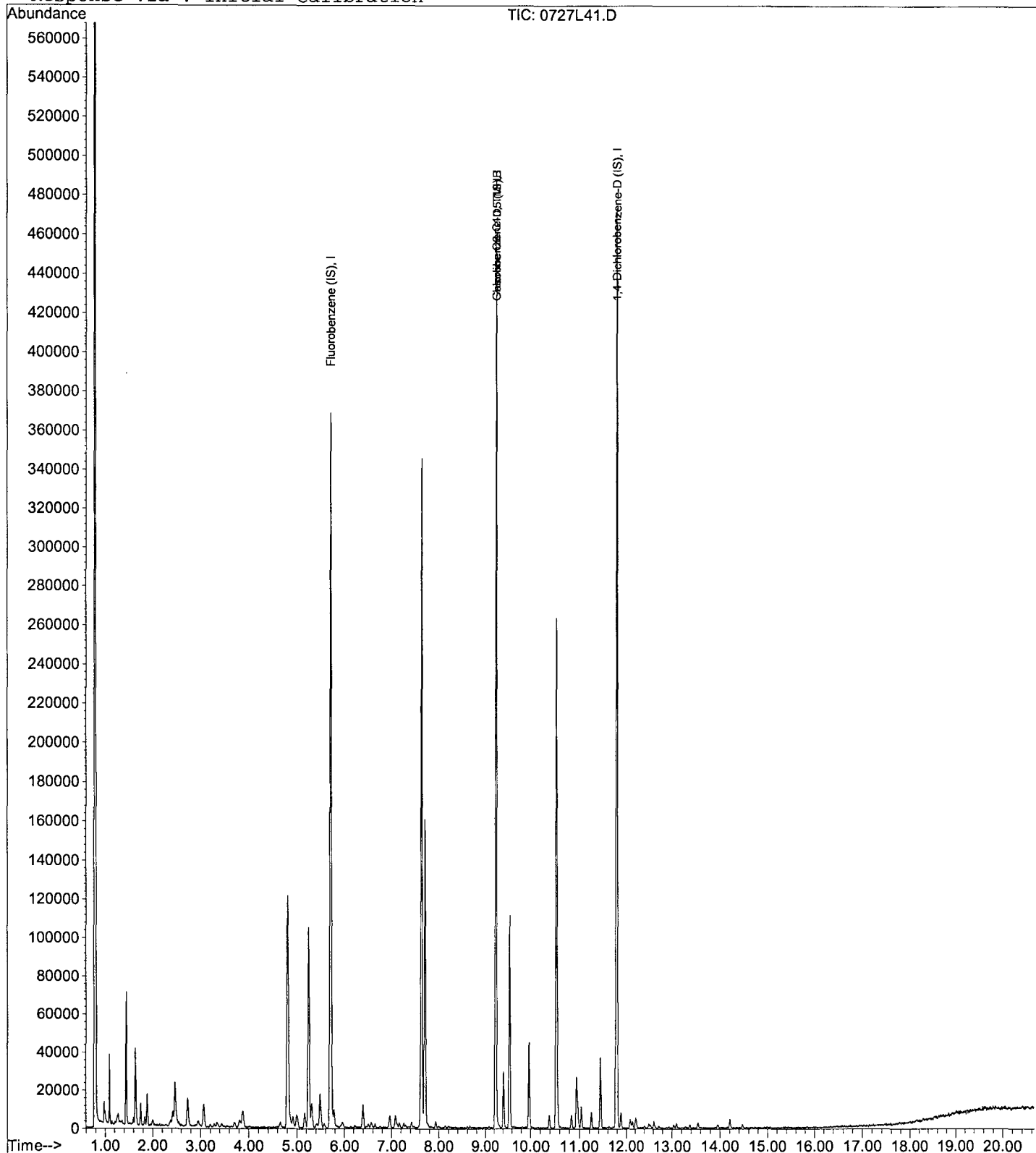
Data File : M:\LOKI\DATA\190724\0727L41.D
Acq On : 28 Jul 19 5:00
Sample : Ending CCV 300ug/L 07/27/19
Misc : IS&S 7/15/19,6/5/19

Vial: 41
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:34 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 7/24/2019
Instrument: Loki

Initials: _____

0724L15.D 0724L16.D 0724L17.D 0724L18.D 0724L19.D 0724L20.D 0724L21.D 0724L22.D 0724L23.D

	Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	r^2	Q	MF
1	I Fluorobenzene (IS)																
2	S Dibromofluoromethane(S)	0.4886	0.4703	0.4153	0.4400	0.4699	0.4590	0.4183	0.4399	0.3839		0.44	7.4	S			
3	S 1,2-DCA-D4(S)	0.5208	0.4633	0.4317	0.4417	0.4813	0.4669	0.4327	0.4576	0.3960		0.45	7.8	S			
4	I Chlorobenzene-D5 (IS)																
5	S Toluene-D8(S)	1.575	1.432	1.295	1.387	1.593	1.580	1.582	1.688	1.539		1.5	8.1	S			
6	S 4-Bromofluorobenzene(S)	0.5257	0.4587	0.4310	0.4437	0.5416	0.5563	0.5718	0.6085	0.5893		0.53	12	S			
7	I 1,4-Dichlorobenzene-D (IS)																
8																	
9																	
10																	
11																	
12																	
13																	
14																	
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35																	

Acq On : 24 Jul 19 15:18 Operator:
 Sample : 0.3ug/L VOC STD 07/24/19 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Jul 29 13:26 2019 Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	228544	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	199232	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	97600	25.00000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.81	111	22334	5.51715	ppb	0.00
Spiked Amount 25.000			Recovery	=	22.068%	
3) 1,2-DCA-D4(S)	5.25	65	23807	5.72780	ppb	0.00
Spiked Amount 25.000			Recovery	=	22.912%	
5) Toluene-D8(S)	7.63	98	62762	5.18479	ppb	0.00
Spiked Amount 25.000			Recovery	=	20.740%	
6) 4-Bromofluorobenzene(S)	10.53	95	20946	5.00457	ppb	0.00
Spiked Amount 25.000			Recovery	=	20.020%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0724L15.D LSUR0724.M Tue Aug 13 10:19:54 2019

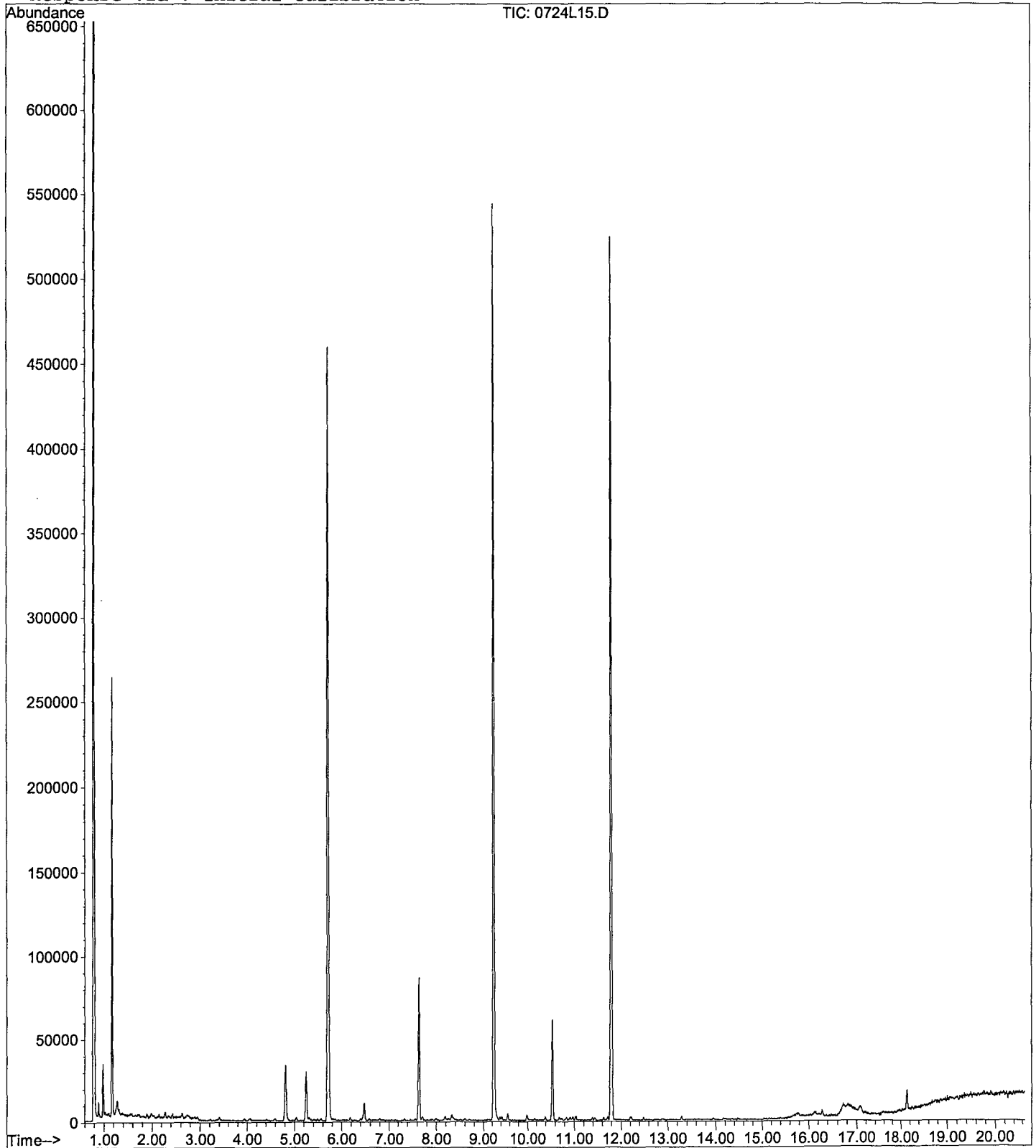
Acq On : 24 Jul 19 15:18
Sample : 0.3ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

vid: 4
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:26 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Acq On : 24 Jul 19 15:47
Sample : 0.5ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:26 2019

Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	244160	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	220672	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	107432	25.00000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.81	111	22968	5.31089	ppb	0.00
Spiked Amount 25.000			Recovery =	21.244%		
3) 1,2-DCA-D4(S)	5.24	65	22625	5.09527	ppb	0.00
Spiked Amount 25.000			Recovery =	20.380%		
5) Toluene-D8(S)	7.63	98	63183	4.71245	ppb	0.00
Spiked Amount 25.000			Recovery =	18.848%		
6) 4-Bromofluorobenzene(S)	10.54	95	20244	4.36691	ppb	0.00
Spiked Amount 25.000			Recovery =	17.468%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
0724L16.D LSUR0724.M Tue Aug 13 10:19:55 2019

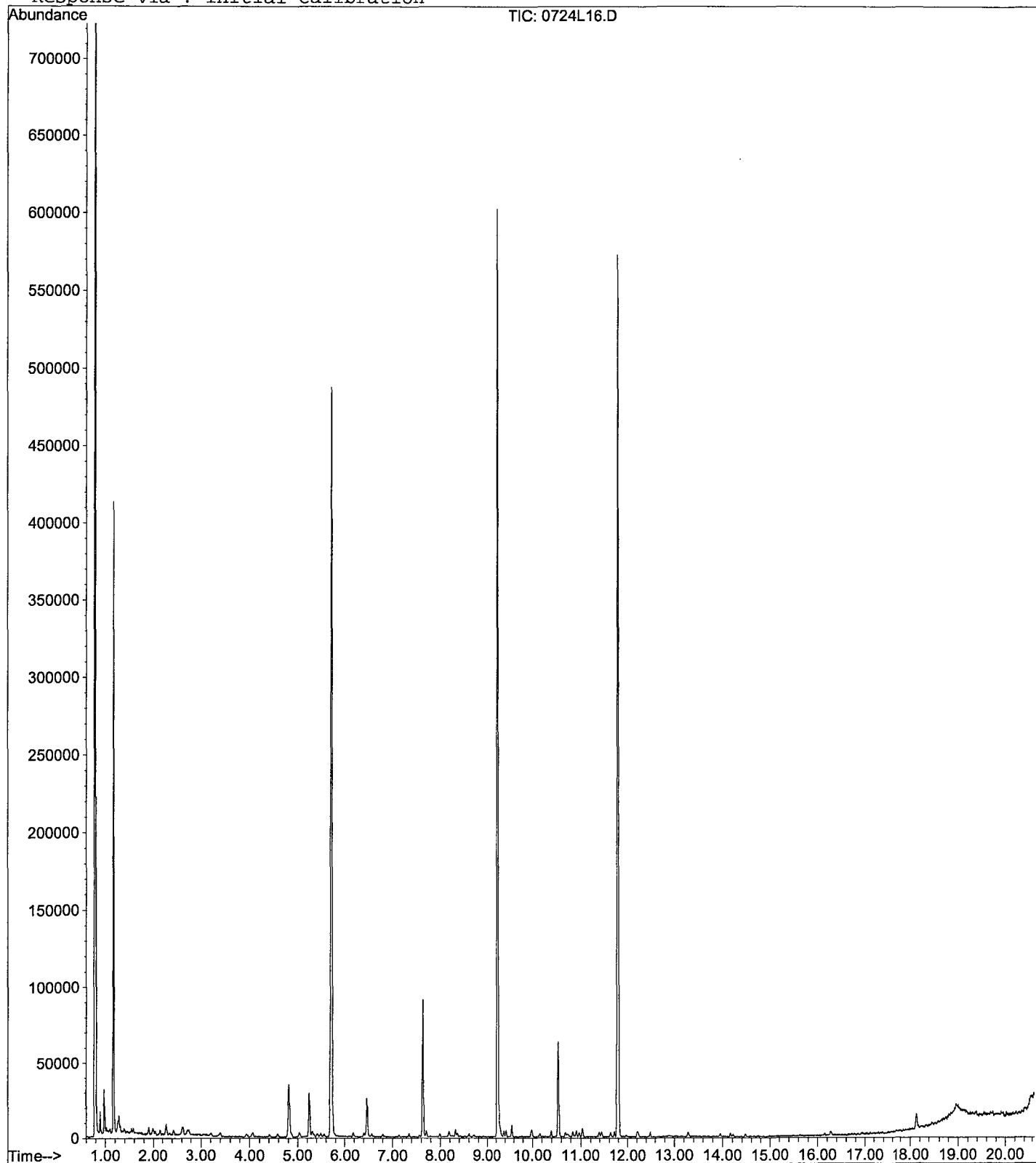
Data File : M:\LOKI\DATA\190724\0724L16.D
Acq On : 24 Jul 19 15:47
Sample : 0.5ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:26 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L17.D
 Acq On : 24 Jul 19 16:16
 Sample : 1.0ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:26 2019

Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	236160	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	213952	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	109896	25.00000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.81	111	39231	9.37867	ppb	0.00
Spiked Amount 25.000			Recovery =	37.516%		
3) 1,2-DCA-D4(S)	5.25	65	40780	9.49498	ppb	0.00
Spiked Amount 25.000			Recovery =	37.980%		
5) Toluene-D8(S)	7.63	98	110803	8.52371	ppb	0.00
Spiked Amount 25.000			Recovery =	34.096%		
6) 4-Bromofluorobenzene(S)	10.54	95	36883	8.20606	ppb	0.00
Spiked Amount 25.000			Recovery =	32.824%		

Target Compounds Qvalue

 (#) = qualifier out of range (m) = manual integration
 0724L17.D LSUR0724.M Tue Aug 13 10:19:56 2019

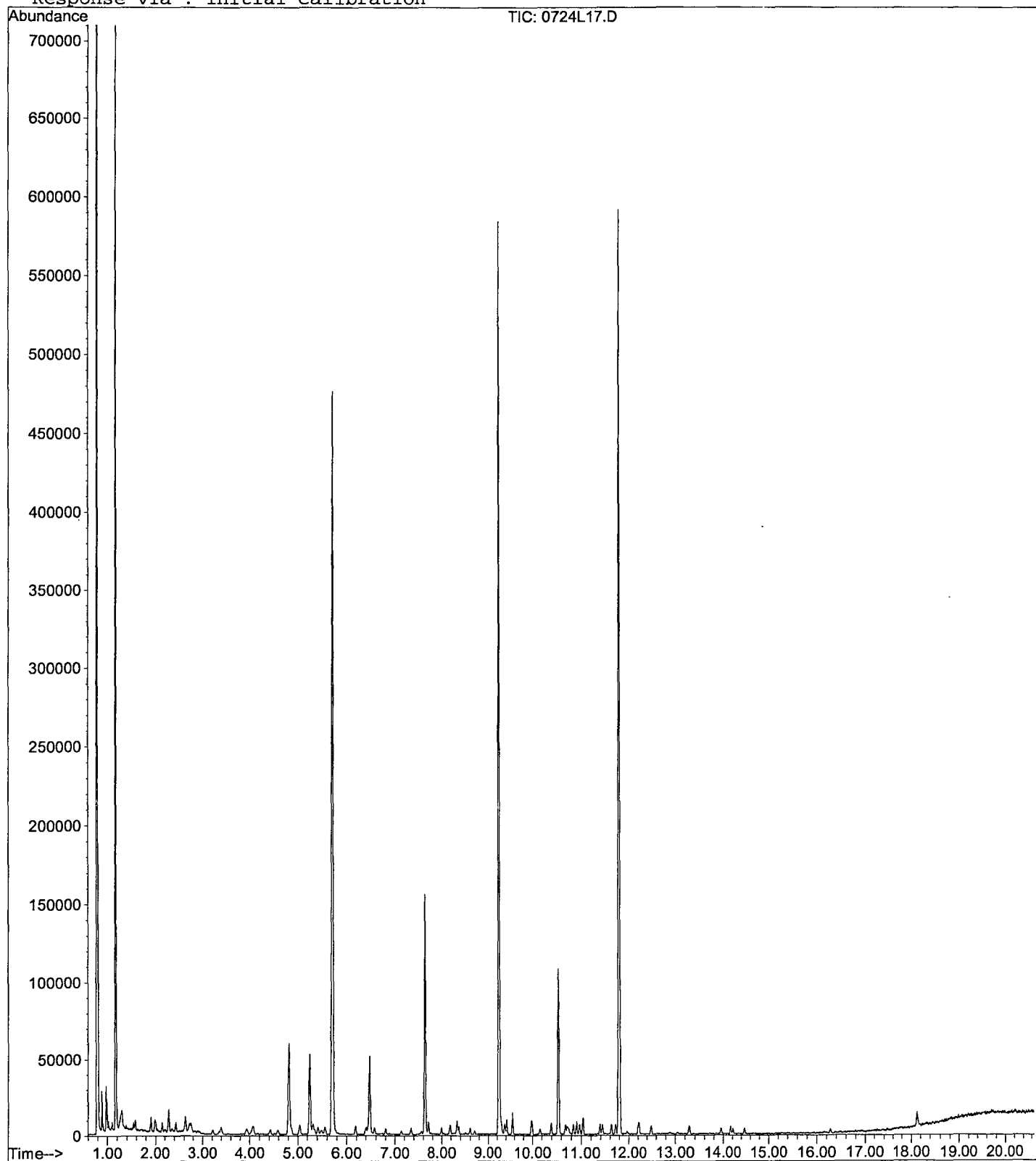
Data File : M:\LOKI\DATA\190724\0724L17.D
Acq On : 24 Jul 19 16:16
Sample : 1.0ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 6
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:26 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L18.D
 Acq On : 24 Jul 19 16:45
 Sample : 2.0ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

vid: /
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:27 2019

Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	228736	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	203328	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	106872	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	40260	9.93705	ppb	0.00
Spiked Amount	25.000		Recovery	=	39.748%	
3) 1,2-DCA-D4(S)	5.25	65	40410	9.71421	ppb	0.00
Spiked Amount	25.000		Recovery	=	38.856%	
5) Toluene-D8(S)	7.63	98	112797	9.13049	ppb	0.00
Spiked Amount	25.000		Recovery	=	36.520%	
6) 4-Bromofluorobenzene(S)	10.53	95	36090	8.44918	ppb	0.00
Spiked Amount	25.000		Recovery	=	33.796%	

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration
 0724L18.D LSUR0724.M Tue Aug 13 10:19:58 2019

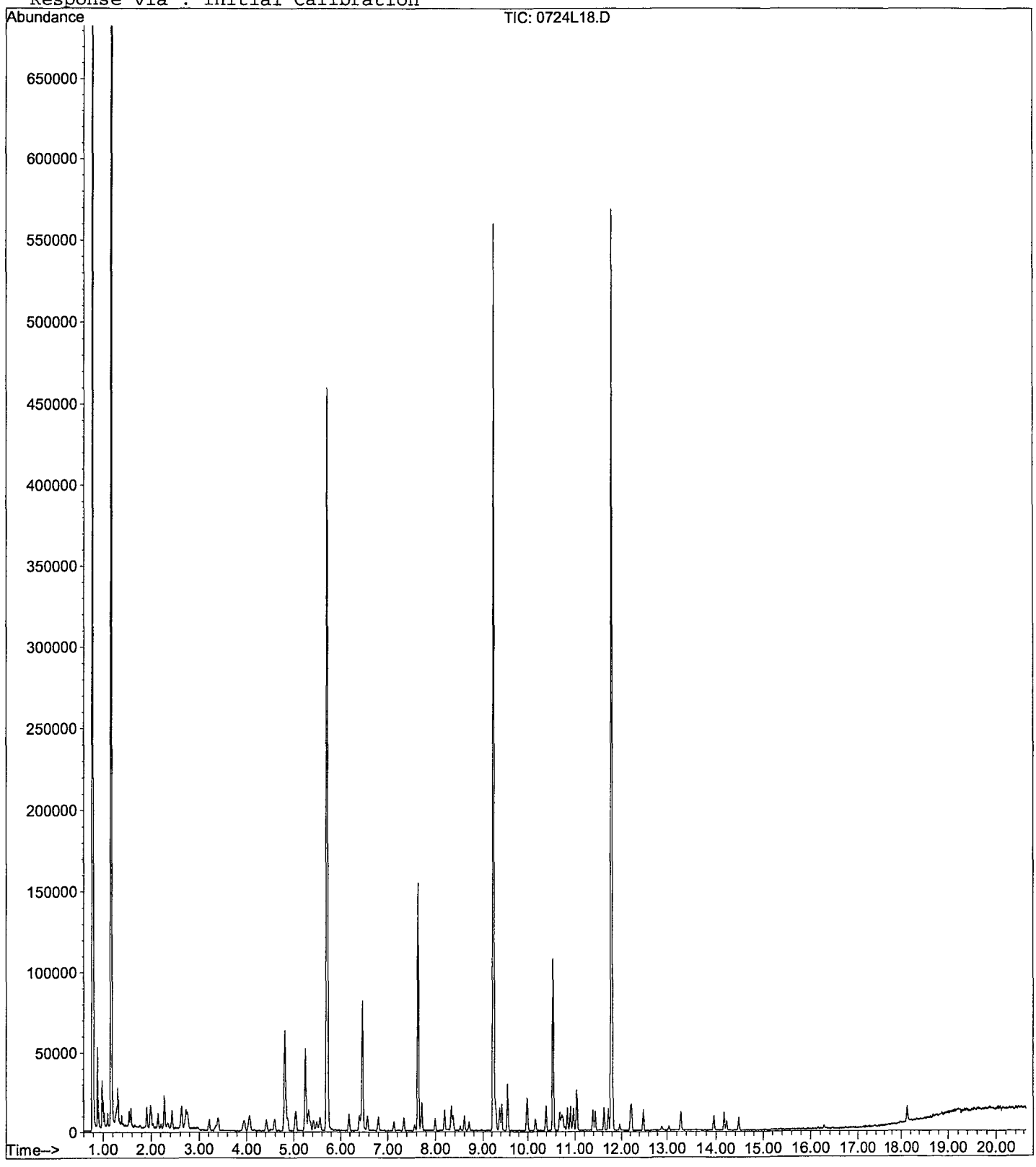
Data File : M:\LOKI\DATA\190724\072418.D
Acq On : 24 Jul 19 16:45
Sample : 2.0ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:27 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Acq On : 24 Jul 19 17:14
Sample : 5.0ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:27 2019

Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	226368	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	203008	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	112968	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	106359	26.52635	ppb	0.00
Spiked Amount	25.000		Recovery	=	106.104%	
3) 1,2-DCA-D4(S)	5.24	65	108946	26.46362	ppb	0.00
Spiked Amount	25.000		Recovery	=	105.856%	
5) Toluene-D8(S)	7.63	98	323314	26.21230	ppb	0.00
Spiked Amount	25.000		Recovery	=	104.848%	
6) 4-Bromofluorobenzene(S)	10.54	95	109955	25.78259	ppb	0.00
Spiked Amount	25.000		Recovery	=	103.132%	

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration
0724L19.D LSUR0724.M Tue Aug 13 10:19:59 2019

Page 1

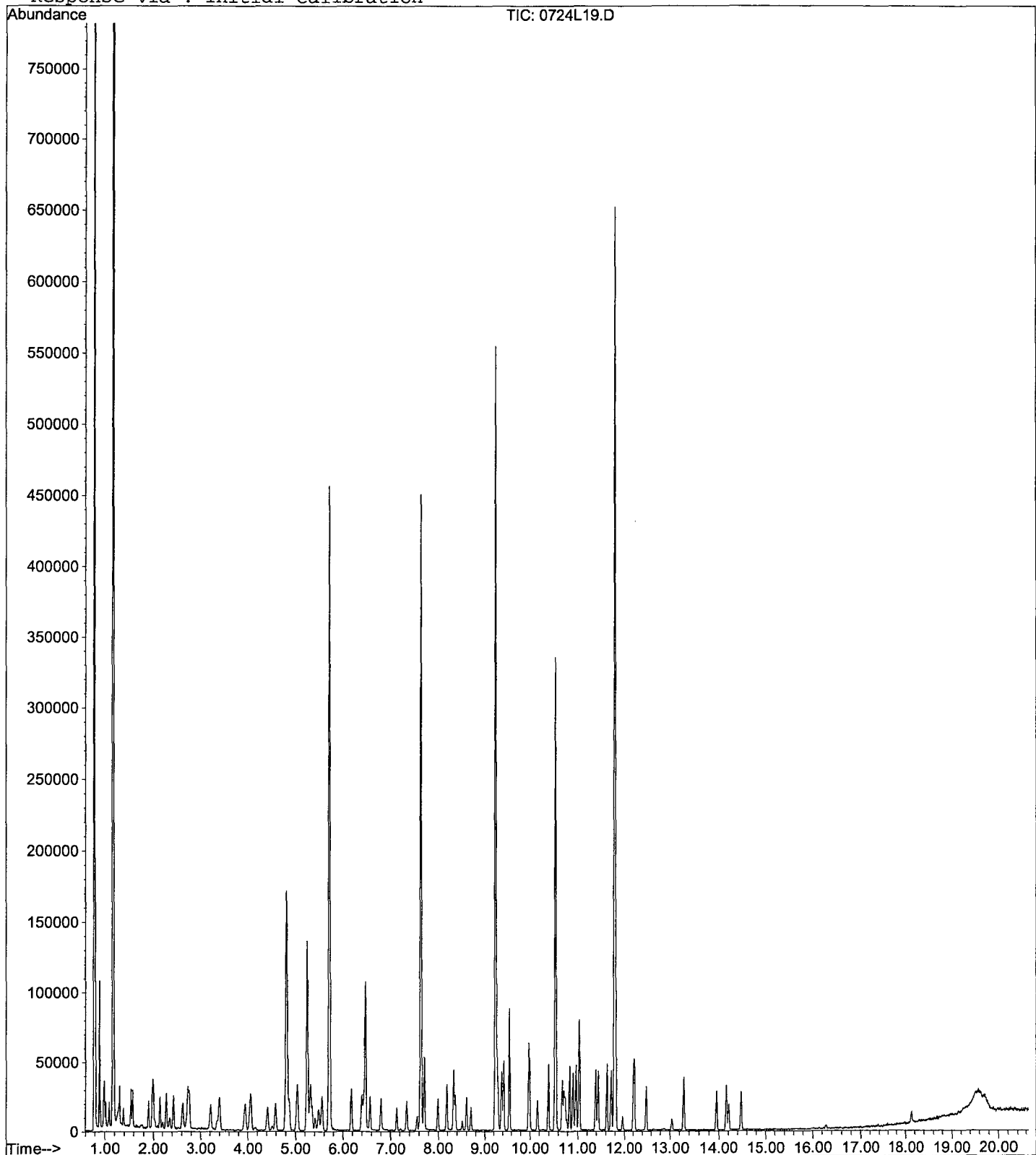
Acq On : 24 Jul 19 17:14
Sample : 5.0ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 8
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:27 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Acq On : 24 Jul 19 17:42
Sample : 10ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:27 2019

Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	232960	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	215616	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	119352	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	106937	25.91582	ppb	0.00
Spiked Amount	25.000		Recovery	=	103.664%	
3) 1,2-DCA-D4(S)	5.25	65	108770	25.67325	ppb	0.00
Spiked Amount	25.000		Recovery	=	102.692%	
5) Toluene-D8(S)	7.63	98	340696	26.00637	ppb	0.00
Spiked Amount	25.000		Recovery	=	104.024%	
6) 4-Bromofluorobenzene(S)	10.53	95	119955	26.48269	ppb	0.00
Spiked Amount	25.000		Recovery	=	105.932%	

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration
0724L20.D LSUR0724.M Tue Aug 13 10:20:01 2019

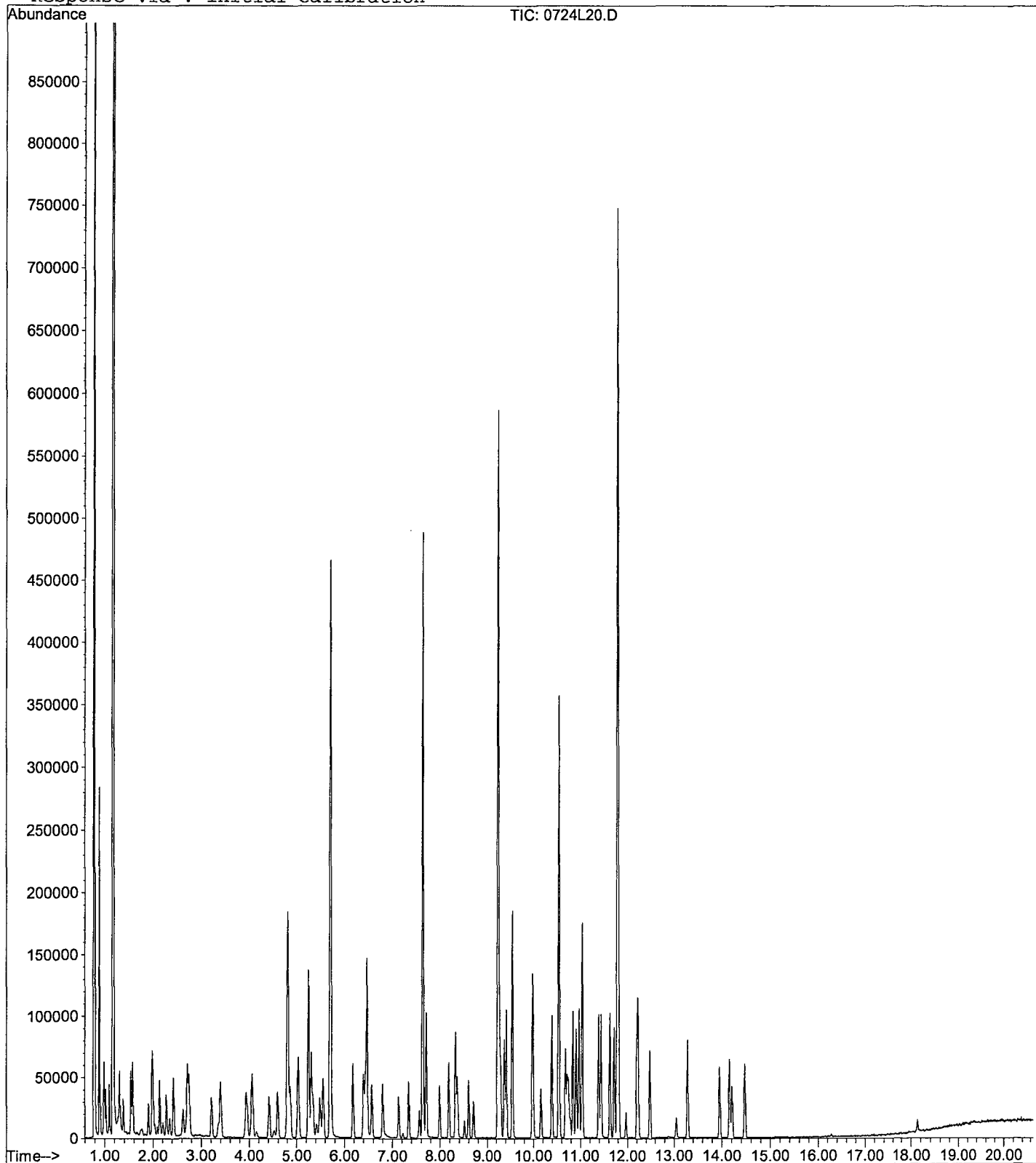
Data File : M:\LOKI\DATA\190724\0724L20.D
Acq On : 24 Jul 19 17:42
Sample : 10ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 9
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:27 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Acq On : 24 Jul 19 18:11
Sample : 20ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 10
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:27 2019

Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	252480	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	227712	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	144064	25.00000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.81	111	211246	47.23673	ppb	0.00
Spiked Amount 25.000			Recovery =	188.948%		
3) 1,2-DCA-D4(S)	5.25	65	218495	47.58472	ppb	0.00
Spiked Amount 25.000			Recovery =	190.340%		
5) Toluene-D8(S)	7.63	98	720478	52.07491	ppb	0.00
Spiked Amount 25.000			Recovery =	208.300%		
6) 4-Bromofluorobenzene(S)	10.53	95	260415	54.43833	ppb	0.00
Spiked Amount 25.000			Recovery =	217.752%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
0724L21.D LSUR0724.M Tue Aug 13 10:20:02 2019

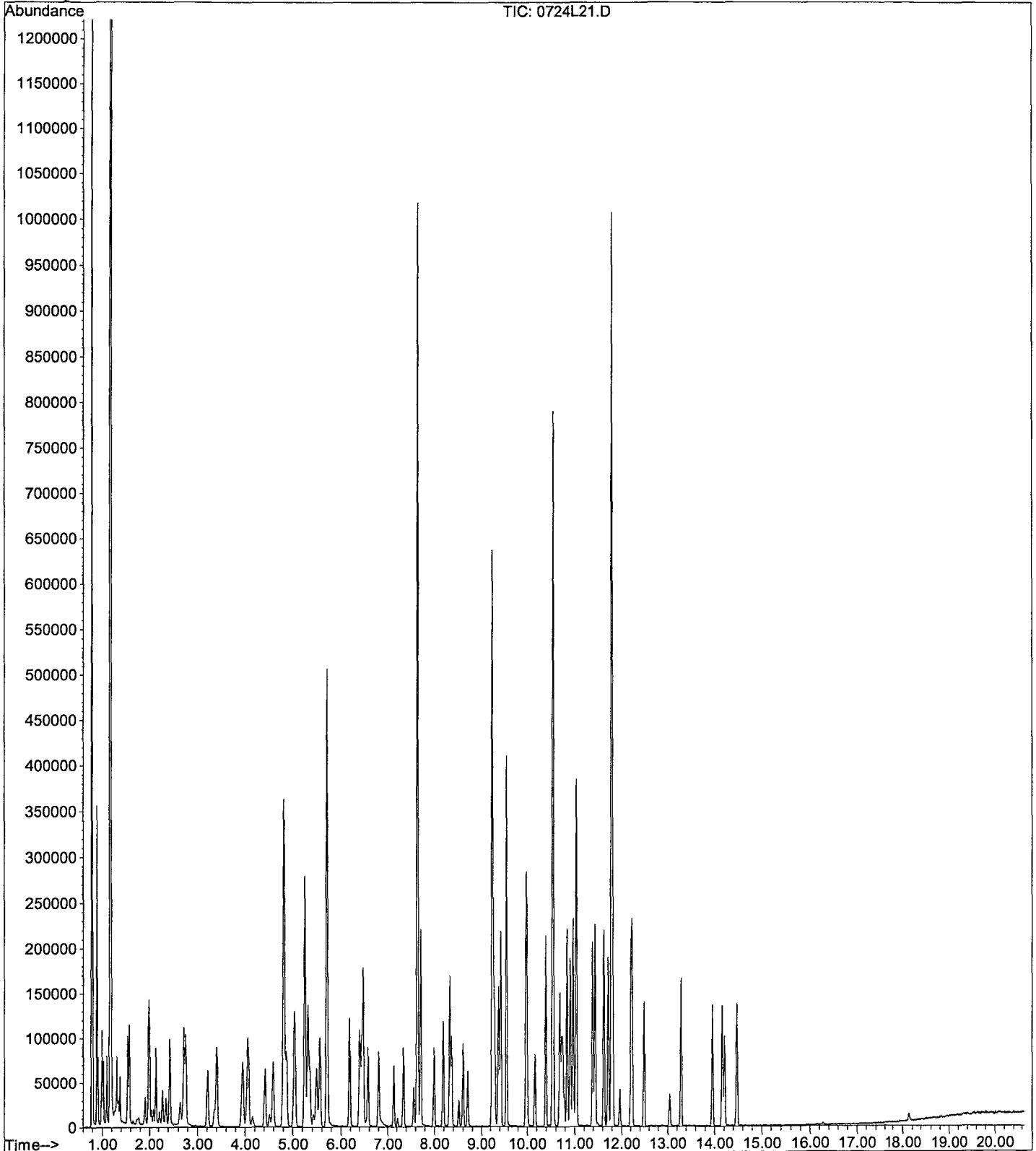
Acq On : 24 Jul 19 18:11
Sample : 20ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:27 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Acq On : 24 Jul 19 18:40
 Sample : 40ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:27 2019

Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	248128	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	215680	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	139584	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	218290	49.66797	ppb	0.00
Spiked Amount	25.000		Recovery	=	198.672%	
3) 1,2-DCA-D4(S)	5.24	65	227070	50.31958	ppb	0.00
Spiked Amount	25.000		Recovery	=	201.280%	
5) Toluene-D8(S)	7.63	98	728244	55.57260	ppb	0.00
Spiked Amount	25.000		Recovery	=	222.292%	
6) 4-Bromofluorobenzene(S)	10.54	95	262492	57.93366	ppb	0.00
Spiked Amount	25.000		Recovery	=	231.736%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0724L22.D LSUR0724.M Tue Aug 13 10:20:04 2019

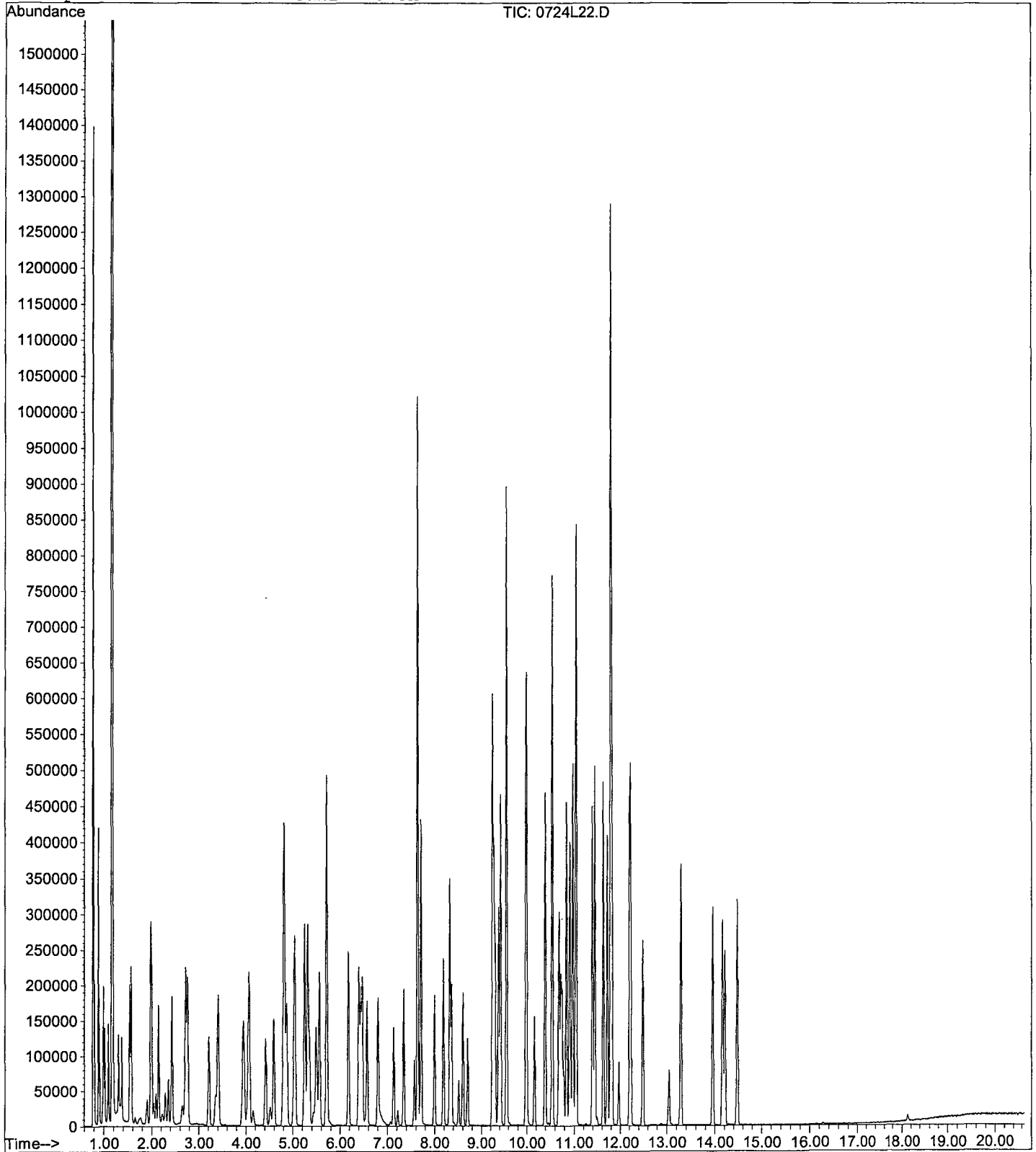
Acq On : 24 Jul 19 18:40
Sample : 40ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:27 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Acq On : 24 Jul 19 19:09
 Sample : 100ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:27 2019

Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	269568	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	231552	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	170944	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	413989	86.70393	ppb	0.00
Spiked Amount	25.000		Recovery	=	346.816%	
3) 1,2-DCA-D4(S)	5.24	65	426960	87.09072	ppb	0.00
Spiked Amount	25.000		Recovery	=	348.364%	
5) Toluene-D8(S)	7.63	98	1425773	101.34342	ppb	0.00
Spiked Amount	25.000		Recovery	=	405.372%	
6) 4-Bromofluorobenzene(S)	10.53	95	545842	112.21300	ppb	0.00
Spiked Amount	25.000		Recovery	=	448.852%	

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration
 0724L23.D LSUR0724.M Tue Aug 13 10:20:05 2019

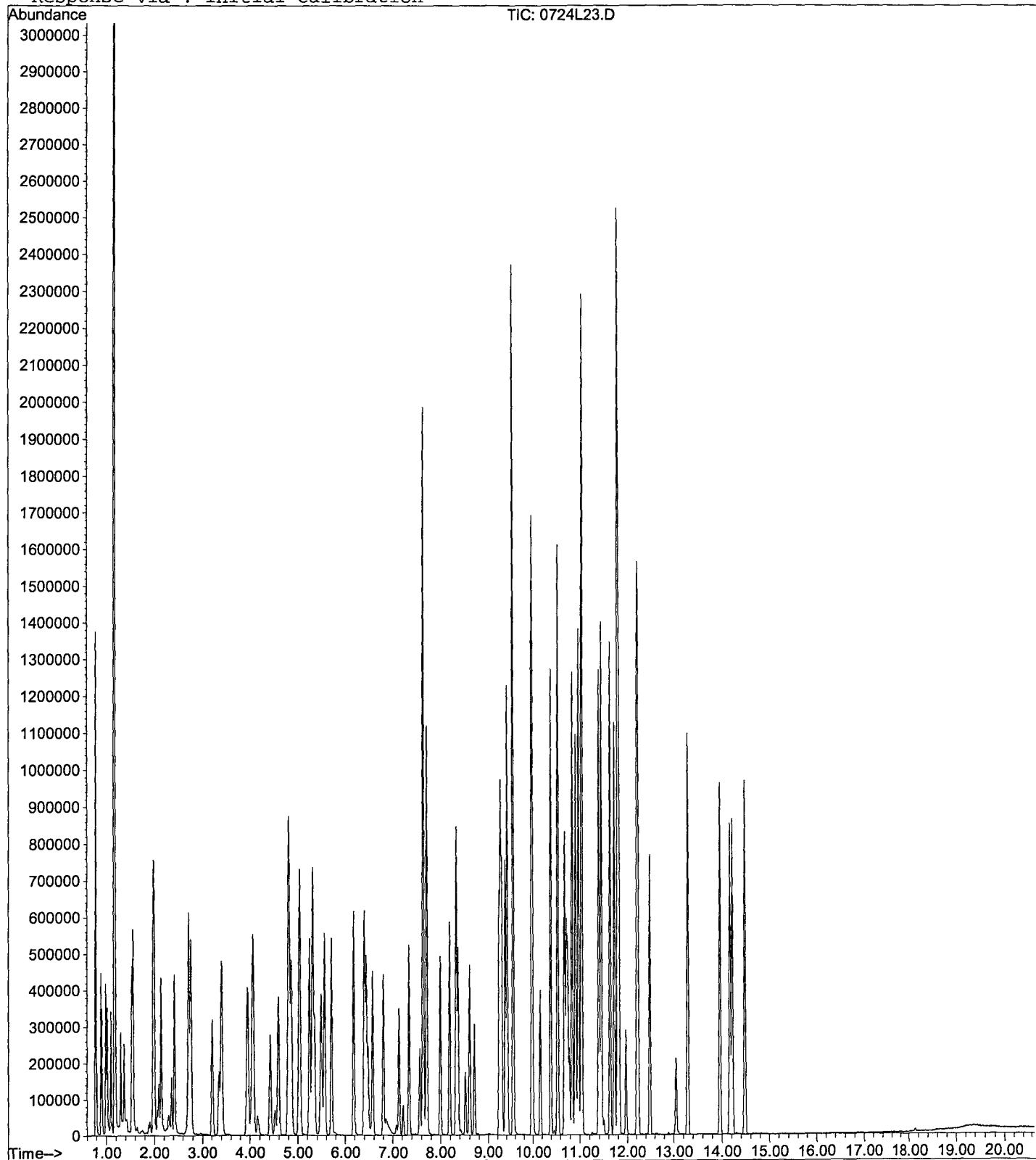
Acq On : 24 Jul 19 19:09
Sample : 100ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:27 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



ORGANICS
Raw Data

Data File : M:\LOKI\DATA\190724\0727L27.D
 Acq On : 27 Jul 19 22:17
 Sample : AZ95186W01
 Misc : IS&S 7/15/19,6/5/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 29 16:13 2019

Vial: 27
 Operator:
 Inst : Loki
 Multiplr: 1.00000

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Wed Jul 17 12:32:37 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.71	TIC	355400	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	431447	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	442759	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0727L27.D LGAS716.M Tue Aug 13 11:28:58 2019

Data File : M:\LOKI\DATA\190724\0727L27.D
 Acq On : 27 Jul 19 22:17
 Sample : AZ95186W01
 Misc : IS&S 7/15/19,6/5/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 29 13:35 2019

Vial: 27
 Operator:
 Inst : Loki
 Multiplr: 1.00000

Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	179008	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	162560	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	85152	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	84534	26.66105	ppb	0.00
Spiked Amount	25.000			Recovery	= 106.644%	
3) 1,2-DCA-D4(S)	5.25	65	84669	26.00788	ppb	0.00
Spiked Amount	25.000			Recovery	= 104.032%	
5) Toluene-D8(S)	7.63	98	238718	24.16936	ppb	0.00
Spiked Amount	25.000			Recovery	= 96.676%	
6) 4-Bromofluorobenzene(S)	10.53	95	78358	22.94533	ppb	0.00
Spiked Amount	25.000			Recovery	= 91.780%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0727L27.D LSUR0724.M Tue Aug 13 10:28:13 2019

Quantitation Report

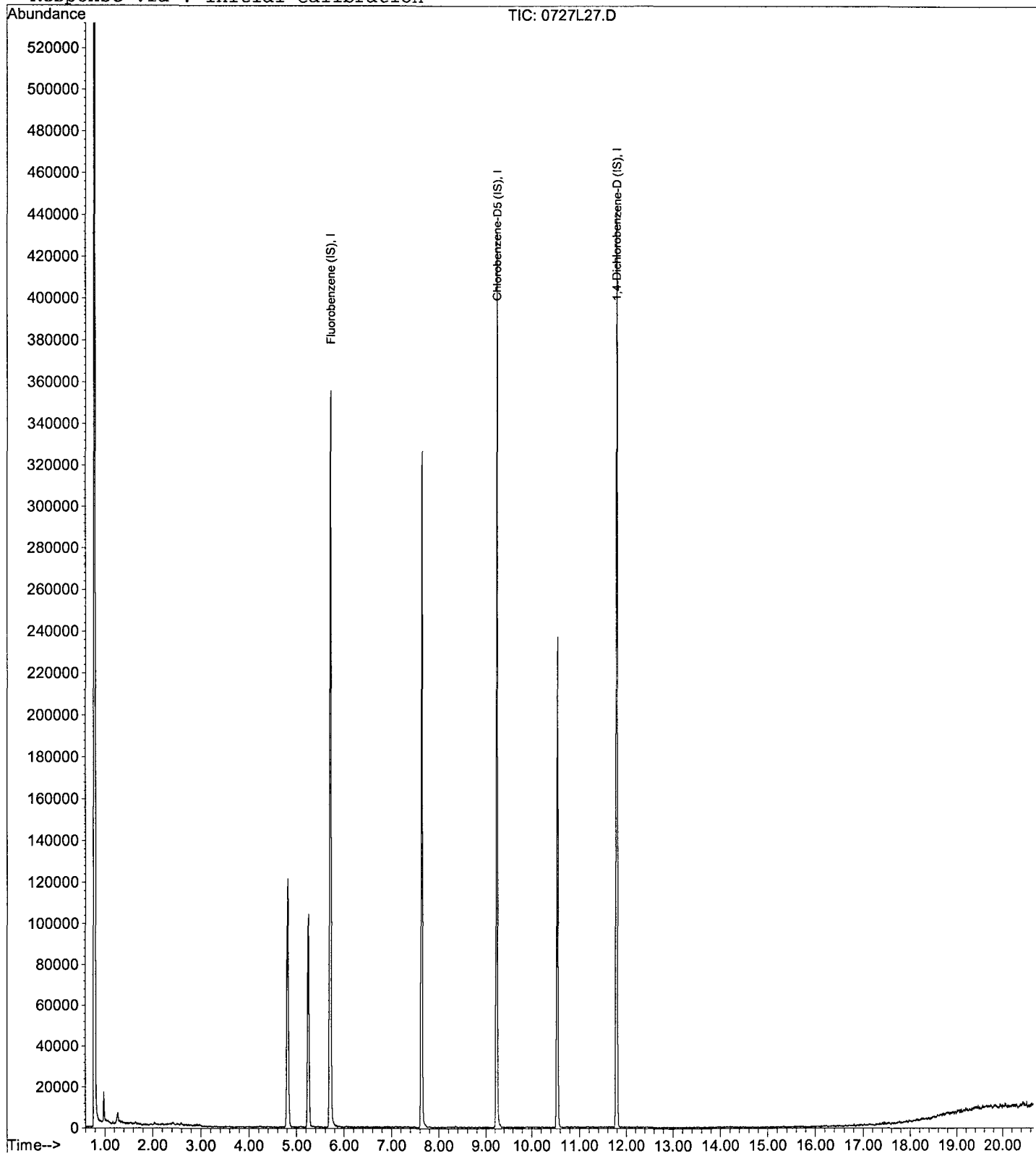
Data File : M:\LOKI\DATA\190724\0727L27.D
Acq On : 27 Jul 19 22:17
Sample : AZ95186W01
Misc : IS&S 7/15/19,6/5/19

Vial: 27
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 16:29 2019

Quant Results File: GROE0716.RES

Method : M:\LOKI\DATA\190724\GROE0716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 22 09:51:01 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0727L28.D Vial: 28
 Acq On : 27 Jul 19 22:45 Operator:
 Sample : AZ95187W01 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00000
 MS Integration Params: LSCINT.P
 Quant Time: Jul 29 16:13 2019 Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Wed Jul 17 12:32:37 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.71	TIC	340921	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	420759	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	426539	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0727L28.D LGAS716.M Tue Aug 13 11:29:10 2019

Data File : M:\LOKI\DATA\190724\0727L28.D
 Acq On : 27 Jul 19 22:45
 Sample : AZ95187W01
 Misc : IS&S 7/15/19,6/5/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 29 13:35 2019

Vial: 28
 Operator:
 Inst : Loki
 Multiplr: 1.00000

Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	169984	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	156480	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	82080	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	80962	26.89004	ppb	0.00
Spiked Amount	25.000		Recovery	=	107.560%	
3) 1,2-DCA-D4(S)	5.25	65	81566	26.38482	ppb	0.00
Spiked Amount	25.000		Recovery	=	105.540%	
5) Toluene-D8(S)	7.63	98	241842	25.43704	ppb	0.00
Spiked Amount	25.000		Recovery	=	101.748%	
6) 4-Bromofluorobenzene(S)	10.53	95	76120	23.15606	ppb	0.00
Spiked Amount	25.000		Recovery	=	92.624%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0727L28.D LSUR0724.M Tue Aug 13 10:28:24 2019

Quantitation Report

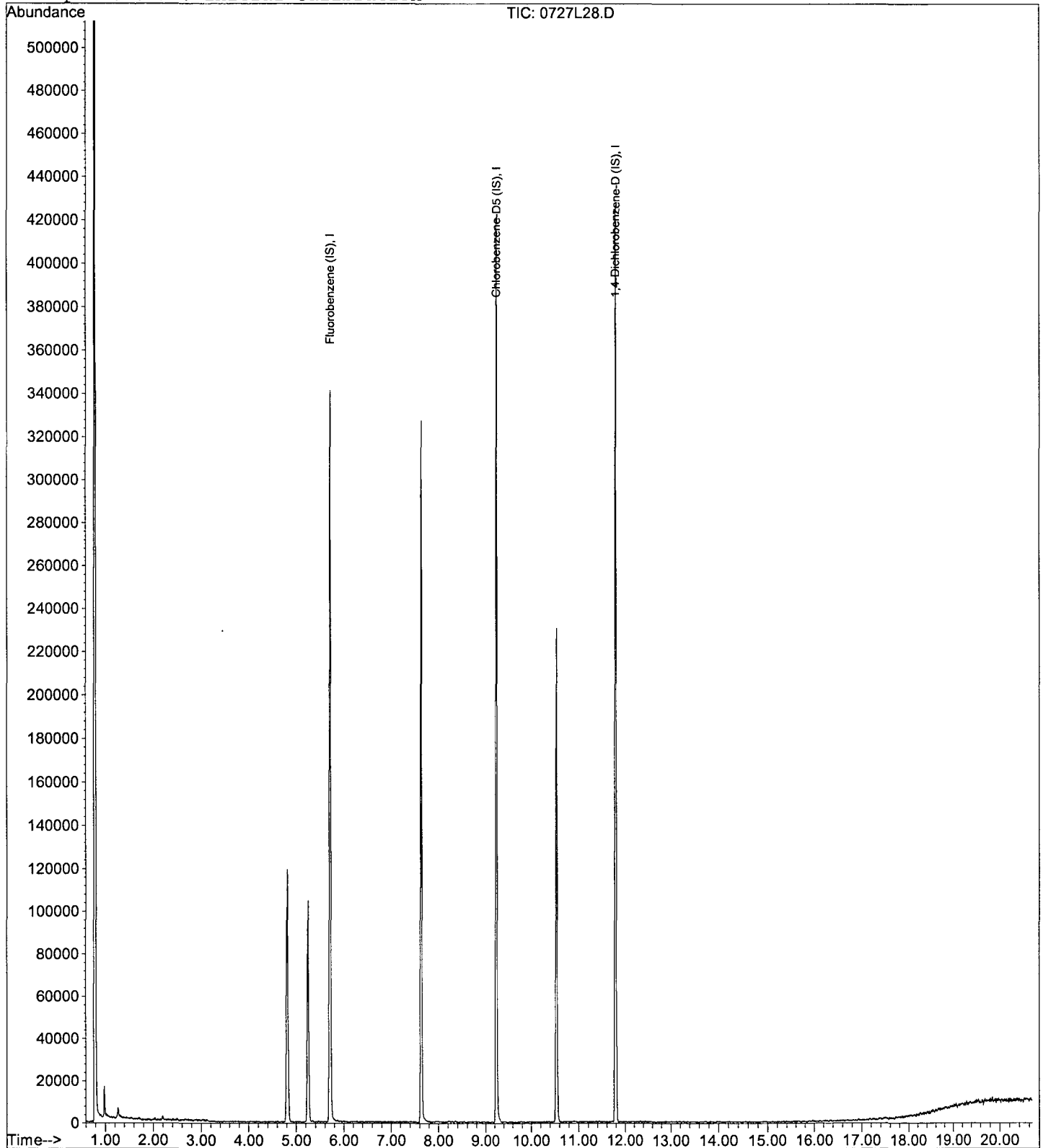
Data File : M:\LOKI\DATA\190724\0727L28.D
Acq On : 27 Jul 19 22:45
Sample : AZ95187W01
Misc : IS&S 7/15/19,6/5/19

Vial: 28
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Aug 13 10:31 2019

Quant Results File: GROE0716.RES

Method : M:\LOKI\DATA\190724\GROE0716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 22 09:51:01 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0727L29.D
 Acq On : 27 Jul 19 23:14
 Sample : AZ95188W01
 Misc : IS&S 7/15/19,6/5/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 29 16:13 2019

Vial: 29
 Operator:
 Inst : Loki
 Multiplr: 1.00000

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Wed Jul 17 12:32:37 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.71	TIC	338493	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	418660	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	405106	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0727L29.D LGAS716.M Tue Aug 13 11:29:30 2019

Data File : M:\LOKI\DATA\190724\0727L29.D
 Acq On : 27 Jul 19 23:14
 Sample : AZ95188W01
 Misc : IS&S 7/15/19,6/5/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 29 13:35 2019

Vial: 29
 Operator:
 Inst : Loki
 Multiplr: 1.00000

Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	168704	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	154944	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	78944	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	83066	27.79817	ppb	0.00
Spiked Amount	25.000				Recovery = 111.192%	
3) 1,2-DCA-D4(S)	5.25	65	84443	27.52272	ppb	0.00
Spiked Amount	25.000				Recovery = 110.092%	
5) Toluene-D8(S)	7.63	98	239919	25.48494	ppb	0.00
Spiked Amount	25.000				Recovery = 101.940%	
6) 4-Bromofluorobenzene(S)	10.54	95	79796	24.51496	ppb	0.00
Spiked Amount	25.000				Recovery = 98.060%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0727L29.D LSUR0724.M Tue Aug 13 10:32:43 2019

Quantitation Report

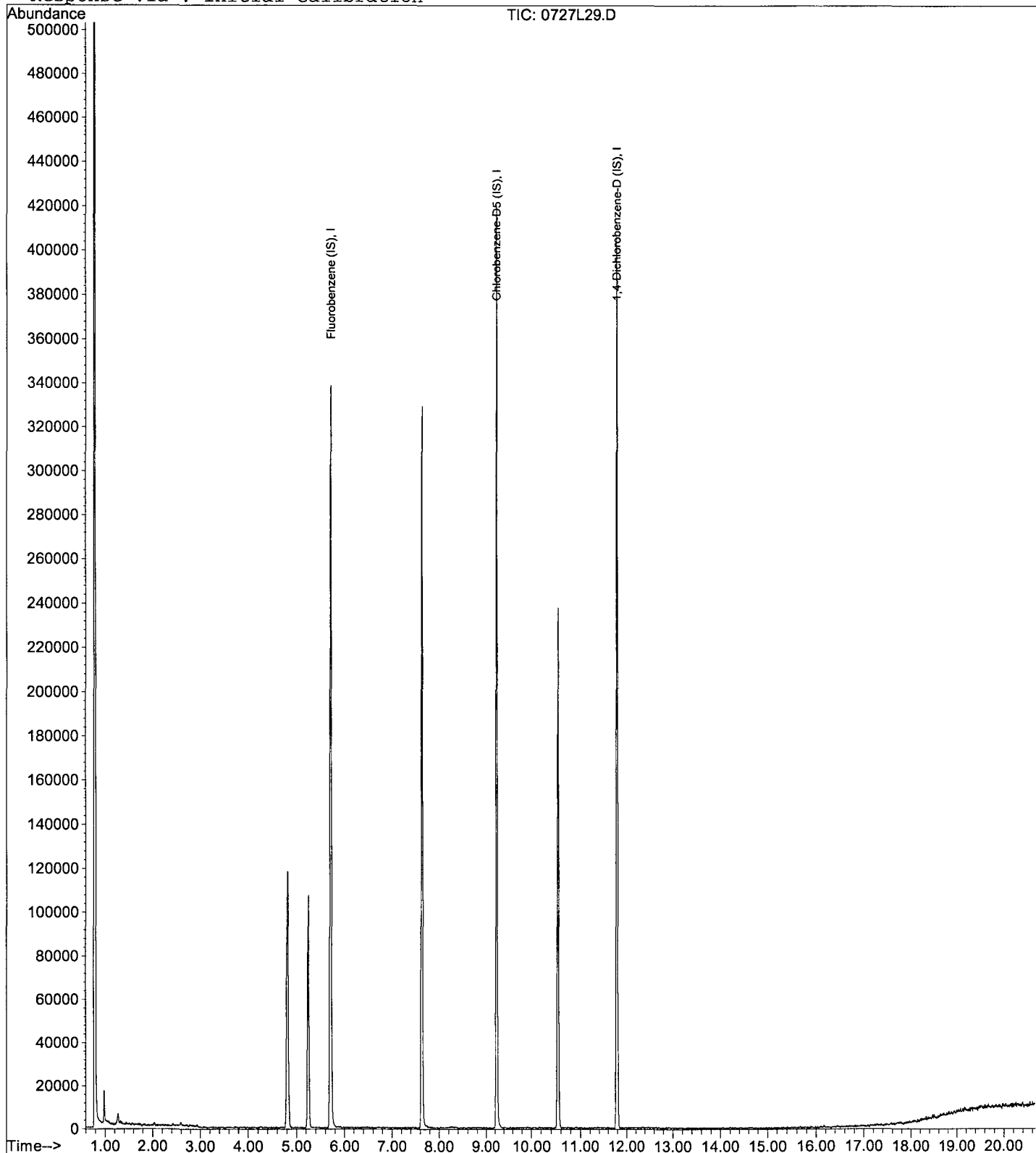
Data File : M:\LOKI\DATA\190724\0727L29.D
Acq On : 27 Jul 19 23:14
Sample : AZ95188W01
Misc : IS&S 7/15/19,6/5/19

Vial: 29
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Aug 13 10:32 2019

Quant Results File: GROE0716.RES

Method : M:\LOKI\DATA\190724\GROE0716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 22 09:51:01 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0727L30.D Vial: 30
 Acq On : 27 Jul 19 23:43 Operator:
 Sample : AZ95189W01 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00000
 MS Integration Params: LSCINT.P
 Quant Time: Jul 29 16:13 2019 Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Wed Jul 17 12:32:37 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	364351	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	452253	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	421831	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0727L30.D LGAS716.M Tue Aug 13 11:29:44 2019

Data File : M:\LOKI\DATA\190724\0727L30.D
 Acq On : 27 Jul 19 23:43
 Sample : AZ95189W01
 Misc : IS&S 7/15/19,6/5/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 29 13:35 2019

Vial: 30
 Operator:
 Inst : Loki
 Multiplr: 1.00000

Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	184064	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	169728	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	80552	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	86706	26.59491	ppb	0.00
Spiked Amount	25.000		Recovery	=	106.380%	
3) 1,2-DCA-D4(S)	5.25	65	83209	24.85733	ppb	0.00
Spiked Amount	25.000		Recovery	=	99.428%	
5) Toluene-D8(S)	7.63	98	238832	23.15969	ppb	0.00
Spiked Amount	25.000		Recovery	=	92.640%	
6) 4-Bromofluorobenzene(S)	10.53	95	81354	22.81656	ppb	0.00
Spiked Amount	25.000		Recovery	=	91.268%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0727L30.D LSUR0724.M Tue Aug 13 10:34:55 2019

Quantitation Report

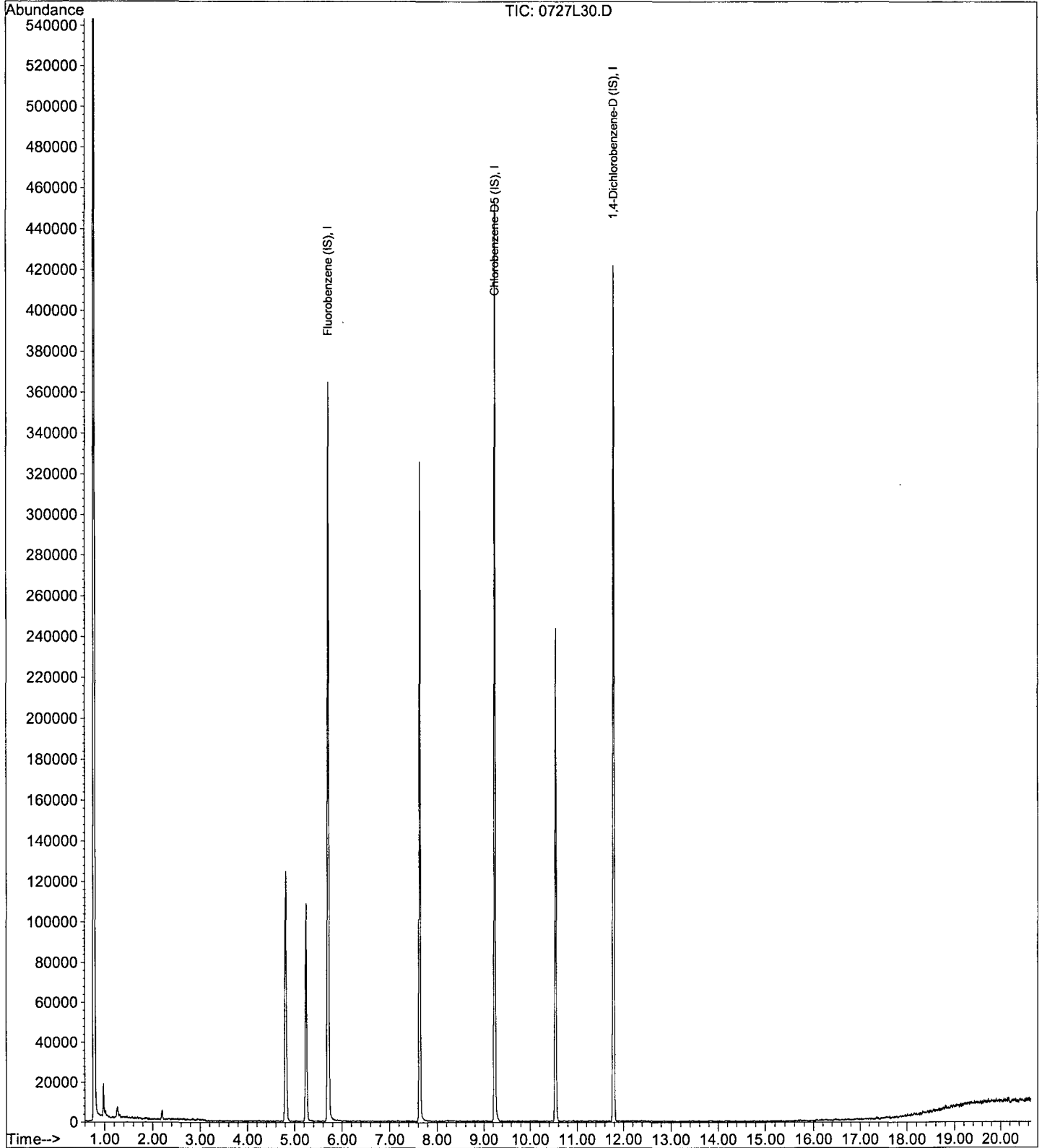
Data File : M:\LOKI\DATA\190724\0727L30.D
Acq On : 27 Jul 19 23:43
Sample : AZ95189W01
Misc : IS&S 7/15/19,6/5/19

Vial: 30
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Aug 13 10:35 2019

Quant Results File: GROE0716.RES

Method : M:\LOKI\DATA\190724\GROE0716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 22 09:51:01 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0727L31.D
 Acq On : 28 Jul 19 00:12
 Sample : AZ95190W01
 Misc : IS&S 7/15/19,6/5/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 29 16:13 2019

Vial: 31
 Operator:
 Inst : Loki
 Multiplr: 1.00000

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Wed Jul 17 12:32:37 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.71	TIC	315605	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	413797	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	413947	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0727L31.D LGAS716.M Tue Aug 13 11:29:58 2019

Data File : M:\LOKI\DATA\190724\0727L31.D
 Acq On : 28 Jul 19 00:12
 Sample : AZ95190W01
 Misc : IS&S 7/15/19,6/5/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 29 13:35 2019

Vial: 31
 Operator:
 Inst : Loki
 Multiplr: 1.00000

Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	158144	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	155904	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	81280	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	80464	28.72547	ppb	0.00
Spiked Amount	25.000		Recovery	=	114.900%	
3) 1,2-DCA-D4(S)	5.24	65	78532	27.30530	ppb	0.00
Spiked Amount	25.000		Recovery	=	109.220%	
5) Toluene-D8(S)	7.63	98	235250	24.83511	ppb	0.00
Spiked Amount	25.000		Recovery	=	99.340%	
6) 4-Bromofluorobenzene(S)	10.54	95	76842	23.46206	ppb	0.00
Spiked Amount	25.000		Recovery	=	93.848%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0727L31.D LSUR0724.M Tue Aug 13 10:36:01 2019

Quantitation Report

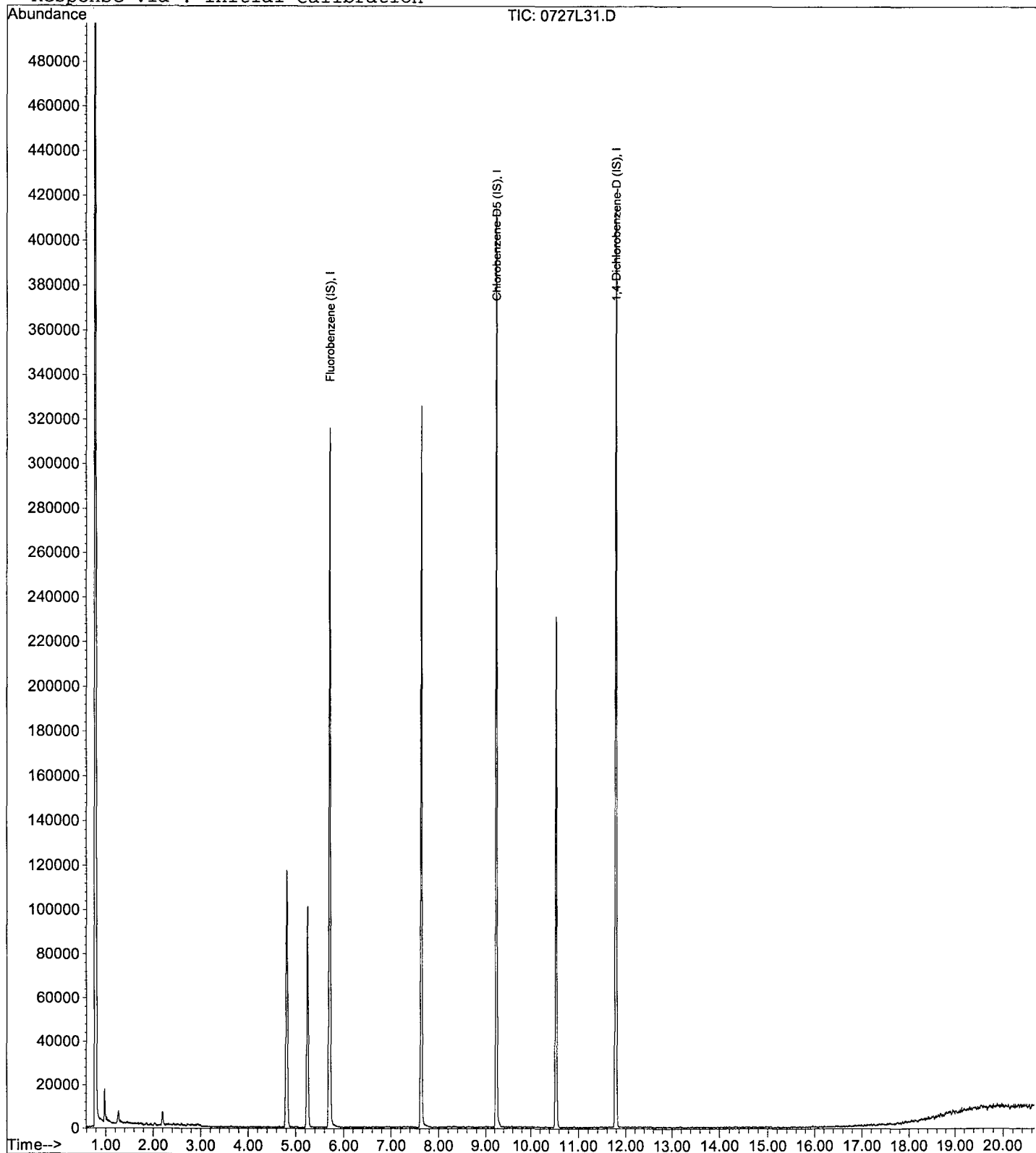
Data File : M:\LOKI\DATA\190724\0727L31.D
Acq On : 28 Jul 19 00:12
Sample : AZ95190W01
Misc : IS&S 7/15/19,6/5/19

Vial: 31
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Aug 13 10:35 2019

Quant Results File: GROE0716.RES

Method : M:\LOKI\DATA\190724\GROE0716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 22 09:51:01 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0727L26.D
 Acq On : 27 Jul 19 21:48
 Sample : 190727B BLK
 Misc : IS&S 7/15/19,6/5/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 29 13:34 2019

Vial: 26
 Operator:
 Inst : Loki
 Multiplr: 1.00000

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Wed Jul 17 12:32:37 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	349326	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	435254	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	428902	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0727L26.D LGAS716.M Tue Aug 13 11:28:45 2019

Data File : M:\LOKI\DATA\190724\0727L26.D
 Acq On : 27 Jul 19 21:48
 Sample : 190727B BLK
 Misc : IS&S 7/15/19,6/5/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 29 13:35 2019

Vial: 26
 Operator:
 Inst : Loki
 Multiplr: 1.00000

Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	177664	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	161600	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	83280	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	83824	26.63712	ppb	0.00
Spiked Amount	25.000			Recovery	= 106.548%	
3) 1,2-DCA-D4(S)	5.25	65	81517	25.22910	ppb	0.00
Spiked Amount	25.000			Recovery	= 100.916%	
5) Toluene-D8(S)	7.63	98	245461	24.99970	ppb	0.00
Spiked Amount	25.000			Recovery	= 100.000%	
6) 4-Bromofluorobenzene(S)	10.54	95	82902	24.42015	ppb	0.00
Spiked Amount	25.000			Recovery	= 97.680%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0727L26.D LSUR0724.M Tue Aug 13 10:27:40 2019

Quantitation Report

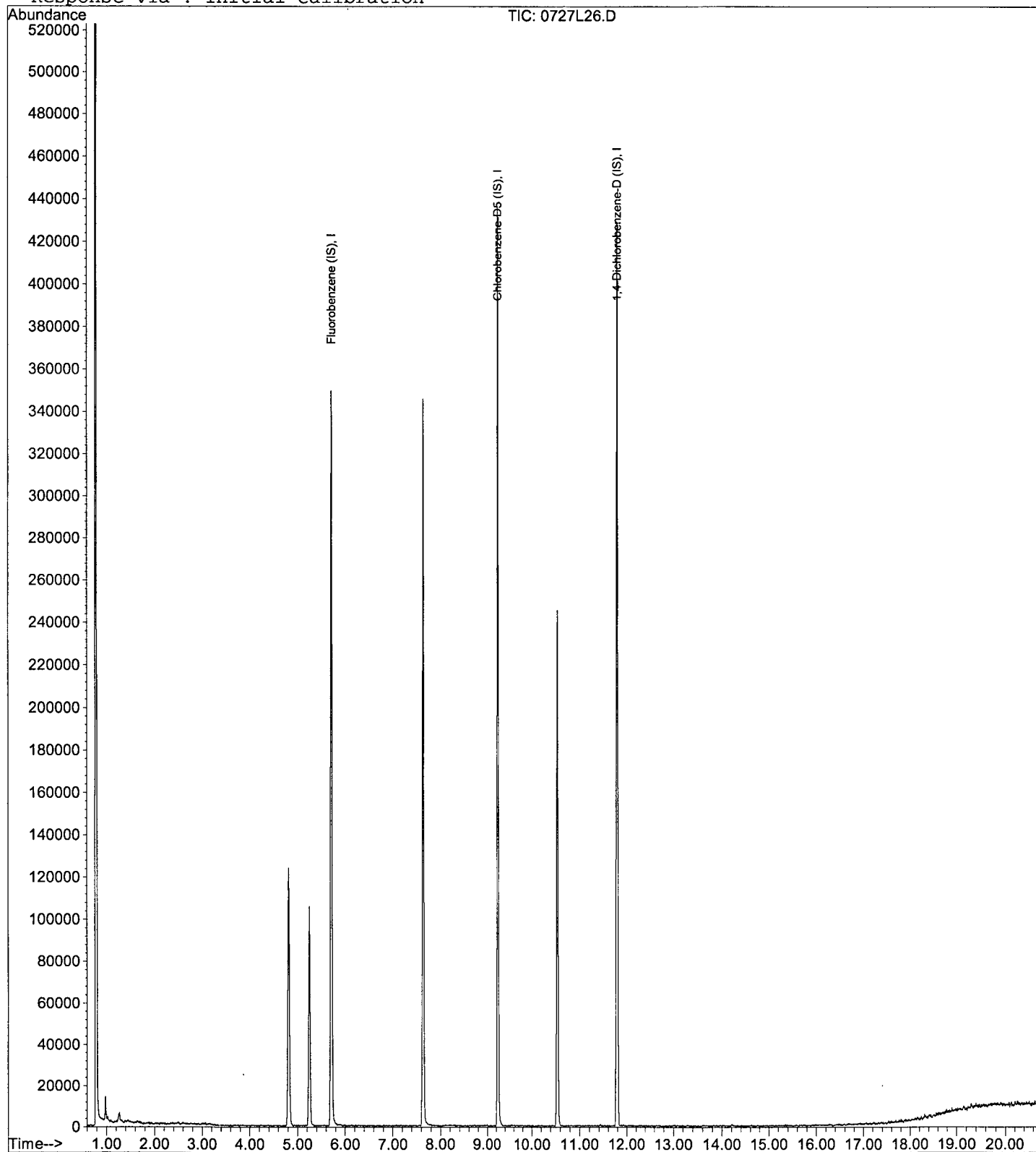
Data File : M:\LOKI\DATA\190724\0727L26.D
Acq On : 27 Jul 19 21:48
Sample : 190727B BLK
Misc : IS&S 7/15/19,6/5/19

Vial: 26
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 16:29 2019

Quant Results File: GROE0716.RES

Method : M:\LOKI\DATA\190724\GROE0716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 22 09:51:01 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0727L24.D Vial: 24
 Acq On : 27 Jul 19 20:50 Operator:
 Sample : 190727B LCS 300ug/L Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00000
 MS Integration Params: LSCINT.P
 Quant Time: Jul 29 13:34 2019 Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Wed Jul 17 12:32:37 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	392383	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	482399	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	509039	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	5093056m	272.55167	ppb	100

(#) = qualifier out of range (m) = manual integration
 0727L24.D LGAS716.M Tue Aug 13 11:28:18 2019

Data File : M:\LOKI\DATA\190724\0727L24.D
 Acq On : 27 Jul 19 20:50
 Sample : 190727B LCS 300ug/L
 Misc : IS&S 7/15/19,6/5/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 29 13:35 2019

Vial: 24
 Operator:
 Inst : Loki
 Multiplr: 1.00000

Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	199552	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	178944	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	97152	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	88748	25.10850	ppb	0.00
Spiked Amount	25.000				Recovery = 100.436%	
3) 1,2-DCA-D4(S)	5.25	65	87634	24.14735	ppb	0.00
Spiked Amount	25.000				Recovery = 96.588%	
5) Toluene-D8(S)	7.63	98	264041	24.28555	ppb	0.00
Spiked Amount	25.000				Recovery = 97.144%	
6) 4-Bromofluorobenzene(S)	10.53	95	94350	25.09860	ppb	0.00
Spiked Amount	25.000				Recovery = 100.396%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0727L24.D LSUR0724.M Tue Aug 13 10:53:32 2019

Quantitation Report

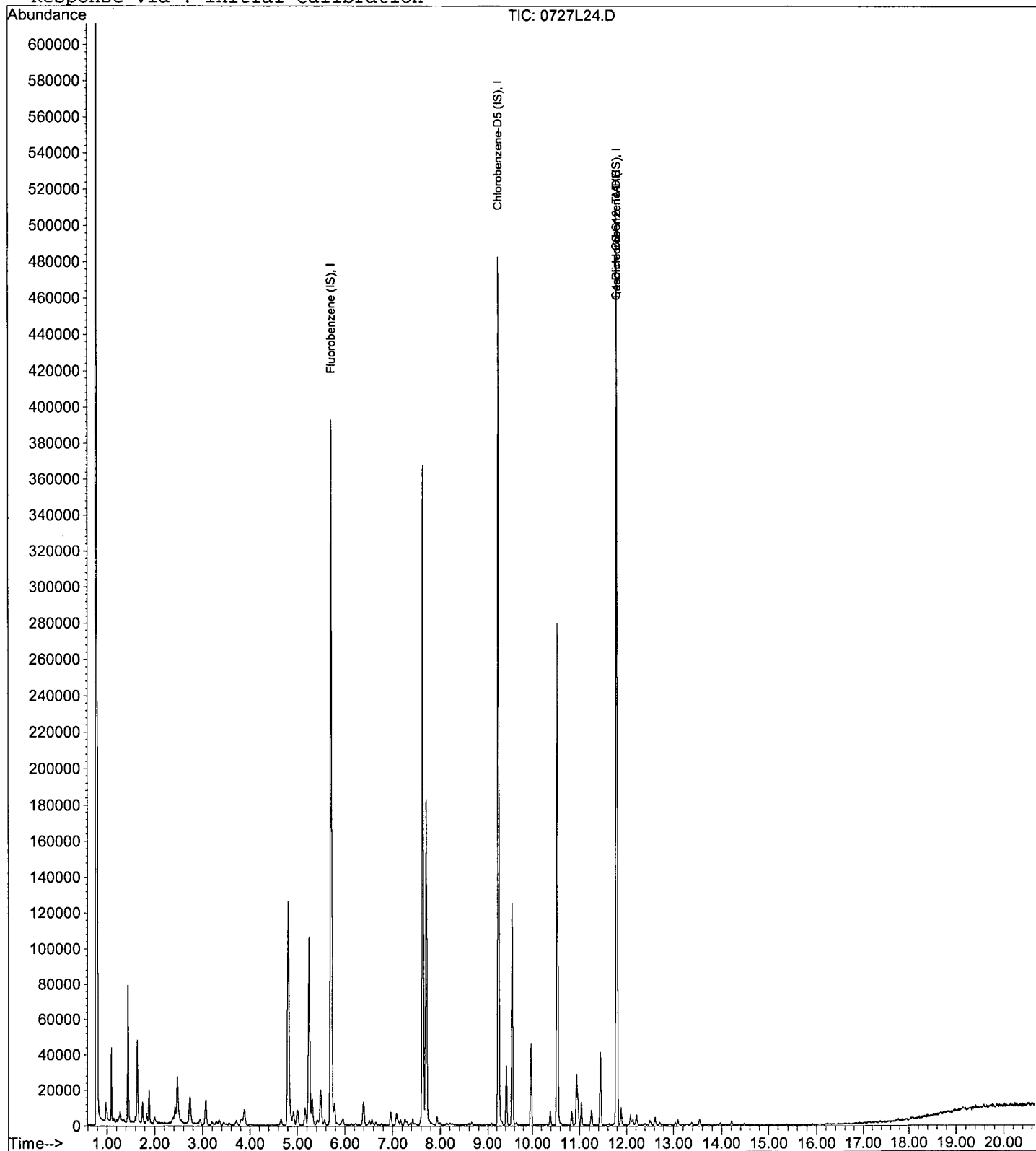
Data File : M:\LOKI\DATA\190724\0727L24.D
Acq On : 27 Jul 19 20:50
Sample : 190727B LCS 300ug/L
Misc : IS&S 7/15/19,6/5/19

Vial: 24
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 16:29 2019

Quant Results File: GROE0716.RES

Method : M:\LOKI\DATA\190724\GROE0716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 22 09:51:01 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0727L25.D Vial: 25
 Acq On : 27 Jul 19 21:19 Operator:
 Sample : 190727B LCSD 300ug/L Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00000
 MS Integration Params: LSCINT.P
 Quant Time: Jul 29 13:34 2019 Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Wed Jul 17 12:32:37 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	370898	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	455697	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	477289	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	4933213m	293.12131	ppb	100

(#) = qualifier out of range (m) = manual integration
 0727L25.D LGAS716.M Tue Aug 13 11:28:33 2019

Data File : M:\LOKI\DATA\190724\0727L25.D
 Acq On : 27 Jul 19 21:19
 Sample : 190727B LCSD 300ug/L
 Misc : IS&S 7/15/19,6/5/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 29 13:35 2019

Vial: 25
 Operator:
 Inst : Loki
 Multiplr: 1.00000

Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	187072	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	171456	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	92824	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	82816	24.99331	ppb	0.00
Spiked Amount	25.000		Recovery	=	99.972%	
3) 1,2-DCA-D4(S)	5.25	65	81150	23.85244	ppb	0.00
Spiked Amount	25.000		Recovery	=	95.408%	
5) Toluene-D8(S)	7.63	98	263847	25.32755	ppb	0.00
Spiked Amount	25.000		Recovery	=	101.312%	
6) 4-Bromofluorobenzene(S)	10.53	95	90961	25.25383	ppb	0.00
Spiked Amount	25.000		Recovery	=	101.016%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0727L25.D LSUR0724.M Tue Aug 13 10:27:29 2019

Quantitation Report

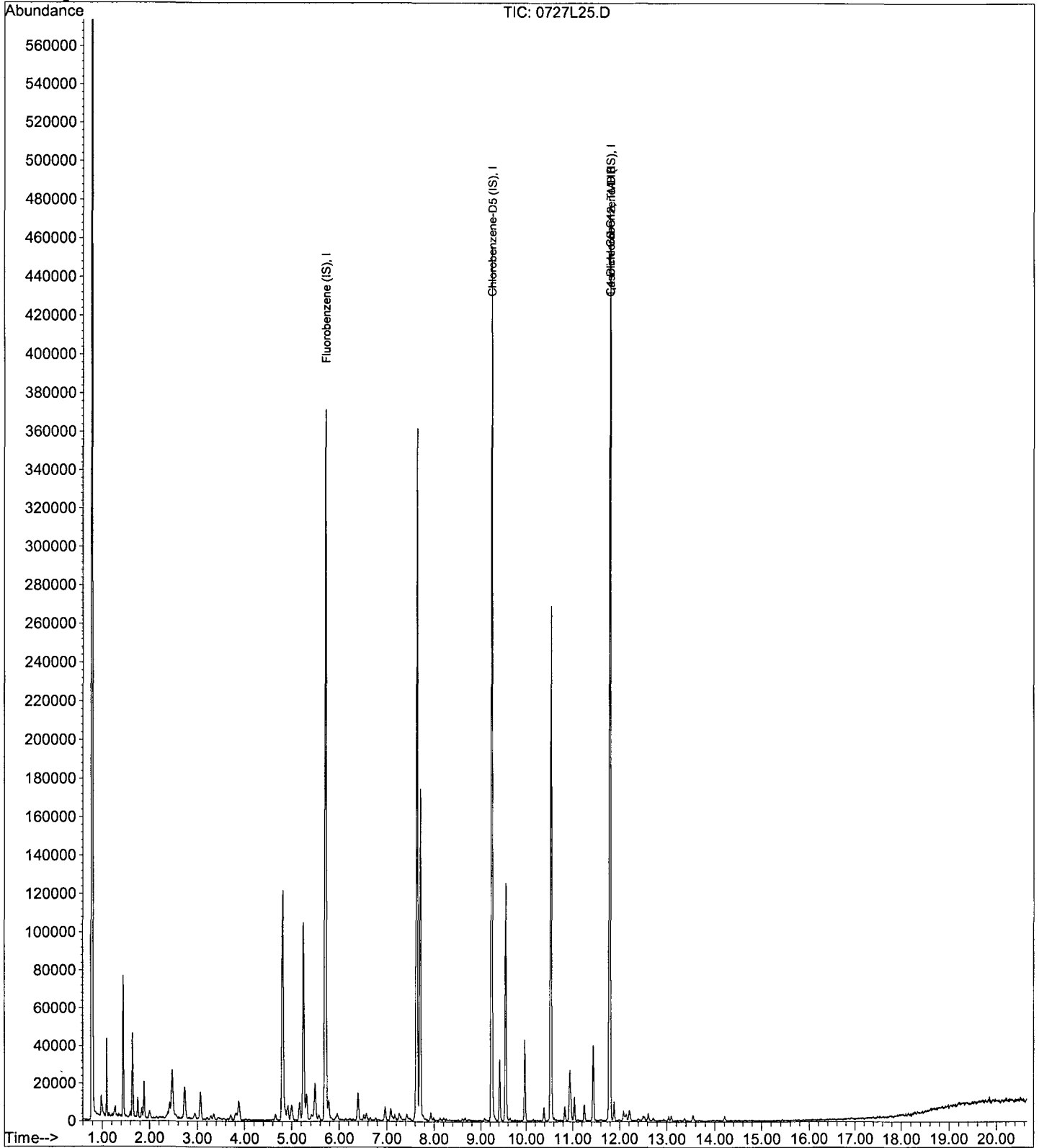
Data File : M:\LOKI\DATA\190724\0727L25.D
Acq On : 27 Jul 19 21:19
Sample : 190727B LCSD 300ug/L
Misc : IS&S 7/15/19,6/5/19

Vial: 25
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 16:29 2019

Quant Results File: GROE0716.RES

Method : M:\LOKI\DATA\190724\GROE0716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 22 09:51:01 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0727L36.D Vial: 36
 Acq On : 28 Jul 19 2:36 Operator:
 Sample : AZ95189W04 MS 300ug/L Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Jul 29 13:50 2019 Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Wed Jul 17 12:32:37 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	352058	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	460168	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	471588	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	4580292m	274.49003	ppb	100

Data File : M:\LOKI\DATA\190724\0727L36.D
 Acq On : 28 Jul 19 2:36
 Sample : AZ95189W04 MS 300ug/L
 Misc : IS&S 7/15/19,6/5/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 29 13:35 2019

Vial: 36
 Operator:
 Inst : Loki
 Multiplr: 1.00000

Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	180928	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	171456	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	90072	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	83333	26.00336	ppb	0.00
Spiked Amount	25.000			Recovery	= 104.012%	
3) 1,2-DCA-D4(S)	5.25	65	82628	25.11161	ppb	0.00
Spiked Amount	25.000			Recovery	= 100.448%	
5) Toluene-D8(S)	7.63	98	253945	24.37702	ppb	0.00
Spiked Amount	25.000			Recovery	= 97.508%	
6) 4-Bromofluorobenzene(S)	10.54	95	87696	24.34736	ppb	0.00
Spiked Amount	25.000			Recovery	= 97.388%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0727L36.D LSUR0724.M Tue Aug 13 10:36:31 2019

Quantitation Report

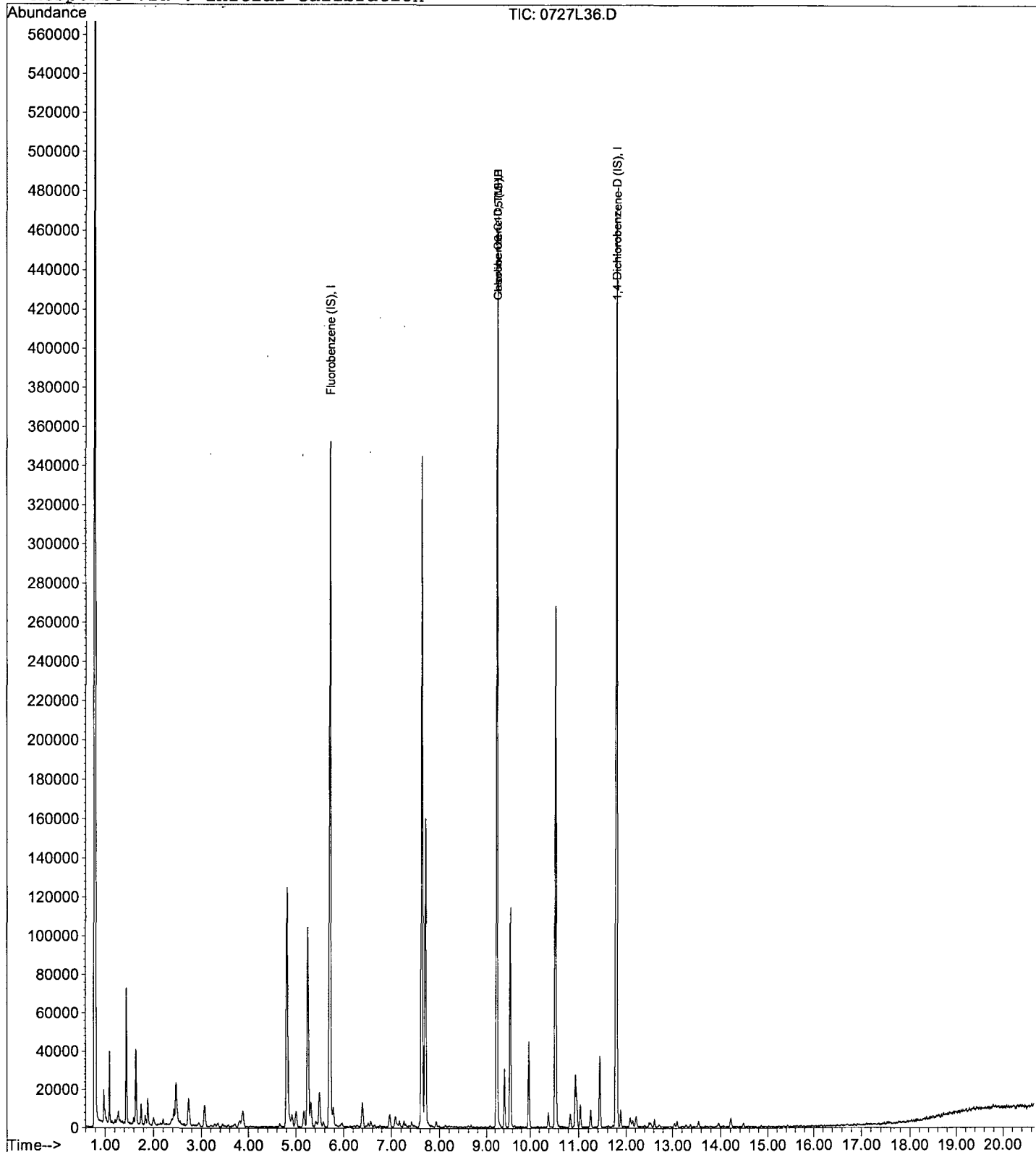
Data File : M:\LOKI\DATA\190724\0727L36.D
Acq On : 28 Jul 19 2:36
Sample : AZ95189W04 MS 300ug/L
Misc : IS&S 7/15/19,6/5/19

Vial: 36
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:50 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190724\GROE0716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 22 09:51:01 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0727L37.D Vial: 37
 Acq On : 28 Jul 19 3:04 Operator:
 Sample : AZ95189W05 MSD 300ug/L Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Jul 29 13:51 2019 Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Wed Jul 17 12:32:37 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	366376	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	464774	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	460877	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	4701586m	263.12135	ppb	100

Data File : M:\LOKI\DATA\190724\0727L37.D Vial: 37
 Acq On : 28 Jul 19 3:04 Operator:
 Sample : AZ95189W05 MSD 300ug/L Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00000
 MS Integration Params: LSCINT.P
 Quant Time: Jul 29 13:35 2019 Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	187328	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	176704	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	87704	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	84477	25.45975	ppb	0.00
Spiked Amount	25.000					
					Recovery =	101.840%
3) 1,2-DCA-D4(S)	5.25	65	83158	24.40925	ppb	0.00
Spiked Amount	25.000					
					Recovery =	97.636%
5) Toluene-D8(S)	7.63	98	252720	23.53894	ppb	0.00
Spiked Amount	25.000					
					Recovery =	94.156%
6) 4-Bromofluorobenzene(S)	10.54	95	86256	23.23634	ppb	0.00
Spiked Amount	25.000					
					Recovery =	92.944%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0727L37.D LSUR0724.M Tue Aug 13 10:42:28 2019

Quantitation Report

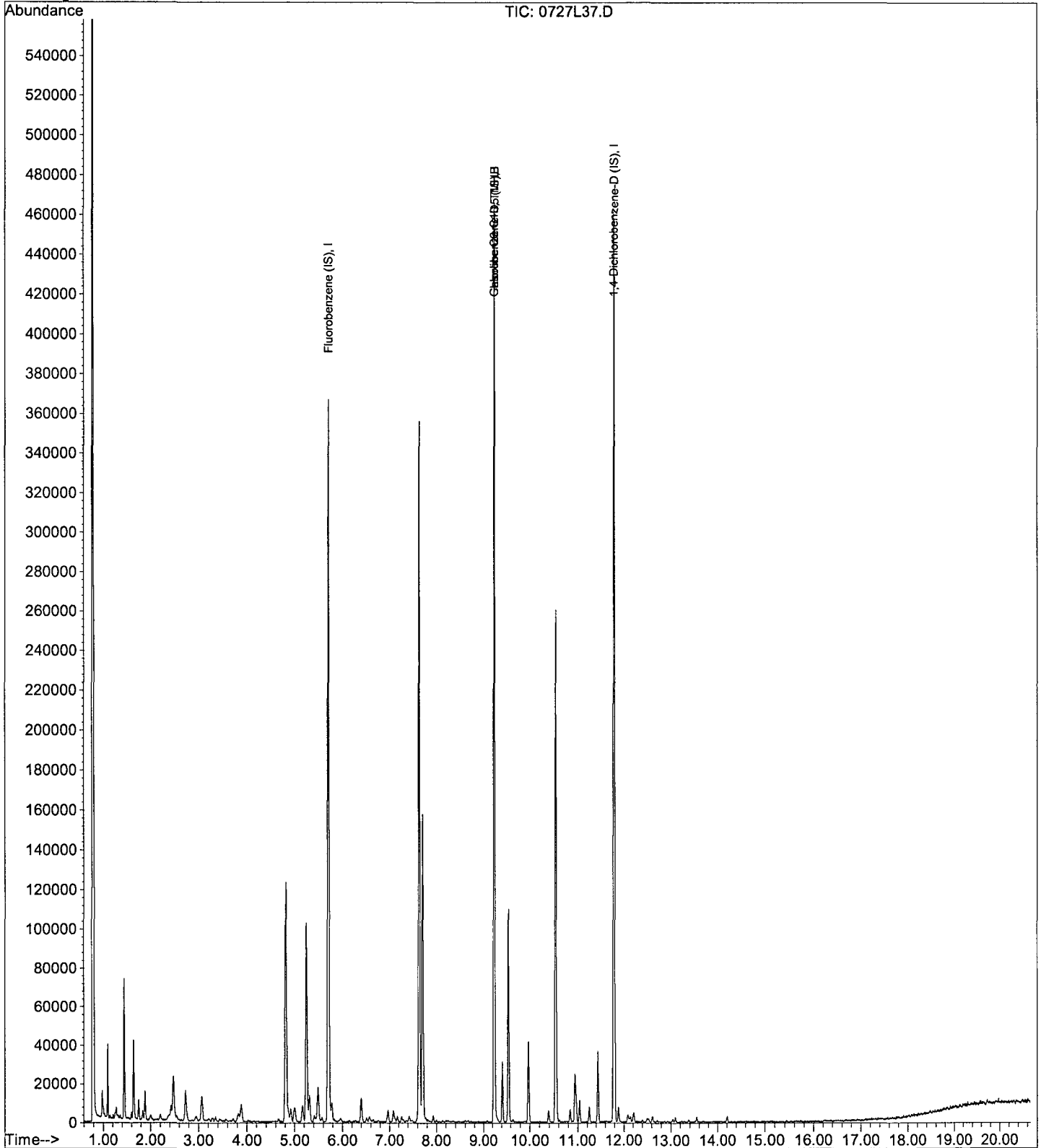
Data File : M:\LOKI\DATA\190724\0727L37.D
Acq On : 28 Jul 19 3:04
Sample : AZ95189W05 MSD 300ug/L
Misc : IS&S 7/15/19,6/5/19

Vial: 37
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:51 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190724\GROE0716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 22 09:51:01 2019
Response via : Initial Calibration



Loki Gas Standard Prep

Gas Primary Working Standard										
Prepared: 07/16/19						Prepared By (Initials): <u>DG</u>				
Expires: 07/15/20										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
50,000ug/mL Gas STD	Restek	30205	50,000	A0132443-39859	07/16/20	12/31/24	80uL	2mL	Methanol	2,000
Gas Second Source (SS) Working Standard										
Prepared: 07/16/19						Prepared By (Initials): <u>DG</u>				
Expires: 07/15/20										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Gasoline (5,000ppm)	O2SI	020246-06	5,000	CL11750-40999	07/16/20	02/28/27	800uL	2mL	Methanol	2,000
Loki Gas Calibration Curve										
Prepared: 07/04/19						Prepared By (Initials): <u>DG</u>				
Expires: 09/02/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA Gasses Standards	Phenova	20ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	1uL	100mL	P&T Water	20
VOA Gasses Standards	Phenova	50ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	2.5uL	100mL	P&T Water	50
VOA Gasses Standards	Phenova	100ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	5uL	100mL	P&T Water	100
VOA Gasses Standards	Phenova	300ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	15uL	100mL	P&T Water	300
VOA Gasses Standards	Phenova	600ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	30uL	100mL	P&T Water	600
VOA Gasses Standards	Phenova	800ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	40uL	100mL	P&T Water	800
VOA Gasses Standards	Phenova	1,000ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	50uL	100mL	P&T Water	1,000
Loki Gas Second Source										
Prepared: 07/04/19						Prepared By (Initials): <u>DG</u>				
Expires: 09/02/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
50,000ug/mL Gas STD	Phenova	SS 300ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	15uL	100mL	P&T Water	300
Loki Gas Continuing Calibrations/Lab Control Spikes										
Prepared: 07/04/19						Prepared By (Initials): <u>DG</u>				
Expires: 07/05/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Gasses Standards	Phenova	300ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	15uL	100mL	P&T Water	300
Loki Gas Surrogate										
Prepared: 08/30/18						Prepared By (Initials): <u>PC</u>				
Expires: 04/02/19										
Methanol Lot No. 57159										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
8260B Surrogate Solution	O2SI	120002-01	2,000	275545-36329	06/09/19	04/02/19	375uL	15mL	Methanol	50
Loki Gas Internal Standard										
Prepared: 08/24/18						Prepared By (Initials): <u>PC</u>				
Expires: 04/13/19										
Methanol Lot No. 57159										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
IS Solution	O2SI	120004-02	2,000	326533-38443	04/13/19	04/27/21	375uL	15mL	Methanol	50

Gas Primary Working Standard										
Prepared: 07/16/19						Prepared By (Initials): <u>DG</u>				
Expires: 12/31/24										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
50,000ug/mL Gas STD	Restek	30205	50,000	A0132443-39859	07/16/20	12/31/24	80uL	2mL	Methanol	2,000
Gas Second Source (SS) Working Standard										
Prepared: 07/16/19						Prepared By (Initials): <u>DG</u>				
Expires: 10/31/20										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Gasoline (50,000ppm)	Phenova	ALO-101543	50,000	CL11750-40999	07/16/20	02/28/27	80uL	2mL	Methanol	2,000

Loki 8260 Standard Prep

Loki 8260 Water Calibration Curve										
						Prepared By (Initials): <u>CMM</u>				
<u>0.3ug/L</u>										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	0.3ug/L	5	Prepared 07/24/19	09/22/19	N/A	3uL	50mL	P&T Water	0.3
VOA STD. 10	O2SI		5	Prepared 07/24/19	09/22/19	N/A	3uL			0.3
VOA STD. 12	O2SI		5	Prepared 07/24/19	09/22/19	N/A	3uL			0.3
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	2uL			10
<u>0.5ug/L</u>										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	0.5ug/L	5	Prepared 07/24/19	09/22/19	N/A	5uL	50mL	P&T Water	0.5
VOA STD. 10	O2SI		5	Prepared 07/24/19	09/22/19	N/A	5uL			0.5
VOA STD. 12	O2SI		5	Prepared 07/24/19	09/22/19	N/A	5uL			0.5
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	5uL			25
<u>1.0ug/L</u>										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	1.0ug/L	5	Prepared 07/24/19	09/22/19	N/A	10uL	50mL	P&T Water	1
VOA STD. 10	O2SI		5	Prepared 07/24/19	09/22/19	N/A	10uL			1
VOA STD. 12	O2SI		5	Prepared 07/24/19	09/22/19	N/A	10uL			1
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	10uL			50
<u>2.0ug/L</u>										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	2.0ug/L	5	Prepared 07/24/19	09/22/19	N/A	20uL	50mL	P&T Water	2
VOA STD. 10	O2SI		5	Prepared 07/24/19	09/22/19	N/A	20uL			2
VOA STD. 12	O2SI		5	Prepared 07/24/19	09/22/19	N/A	20uL			2
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	15uL			75
<u>5ug/L</u>										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	5ug/L	50	Prepared 07/24/19	09/22/19	N/A	5uL	50mL	P&T Water	5
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	5uL			5
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	5uL			5
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	5uL			5
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	20uL			100
VOA STD. 10	O2SI		50	Prepared 07/24/19	09/22/19	N/A	5uL			5
<u>10ug/L</u>										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	10ug/L	50	Prepared 07/24/19	09/22/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	10uL			10
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	25uL			125
VOA STD. 10	O2SI		50	Prepared 07/24/19	09/22/19	N/A	10uL			10

* 7/27/19

* Entry Error
wrong date

7/27/19

20ug/L
Prepared: 07/24/19
Expires: 08/23/19

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	20ug/L	50	Prepared 07/24/19	09/22/19	N/A	20uL	50mL	P&T Water	20
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	20uL			20
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	20uL			20
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	20uL			20
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	30uL			150

40ug/L
Prepared: 07/24/19
Expires: 08/23/19

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	40ug/L	50	Prepared 07/24/19	09/22/19	N/A	40uL	50mL	P&T Water	40
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	40uL			40
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	40uL			40
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	40uL			40
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	35uL			175

100ug/L
Prepared: 07/24/19
Expires: 08/23/19

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	100ug/L	50	Prepared 07/24/19	09/22/19	N/A	100uL	50mL	P&T Water	100
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	100uL			100
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	100uL			100
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	100uL			100
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	40uL			200

Loki 8260 Water Second Source (SS)
Prepared: 07/24/19
Expires: 08/23/19
Prepared By (Initials): CMM

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 4	Phenova	8260 Water SS	50	Prepared 07/24/19	09/22/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 5	O2SI		50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. 6	Various		50	Prepared 07/24/19	07/17/19	N/A	10uL			10
VOA STD. TBA	Various		250	Prepared 07/24/19	07/17/19	N/A	25uL			250

8260 Water Continuing Calibrations (CCV)/ Lab Control Spikes (LCS)
Prepared: 07/24/19
Expires: 07/25/19
Prepared By (Initials): CMM

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	CCV/ LCS	50	Prepared 07/24/19	09/22/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	10uL			10
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	25uL			125

LCS (X4 Ketones)
Prepared: 07/24/19
Expires: 07/25/19
Prepared By (Initials): CMM

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	LCS X4 Ketones	50	Prepared 07/24/19	09/22/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	10uL			10
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	40uL			40
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	25uL			125

* 7/17/19

* Enter error wrong date

W 8/19/19

Loki 8260 Water Surrogate										
Prepared: 08/08/19						Prepared By (Initials): DG				
Expires: 04/04/20										
Methanol Lot No: 58243										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
8260 Surrogate Solution	O2SI	120002-01	2,000	348756-39341	04/04/20	02/10/22	375uL	15mL	Methanol	50
Loki 8260 Water Internal Standard										
Prepared: 08/09/19						Prepared By (Initials): DG				
Expires: 08/06/20										
Methanol Lot No: 58243										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Internal Standard Solution	Phenova	ALO-101215	2,500	CL12444-40615	08/06/20	04/30/23	300uL	15mL	Methanol	50

Primary and Secondary Working Standards

Primary Standards											
VOA STD 7											
Prepared: 07/17/19 C											
Expires: 09/15/19											
Methanol Lot No. 58019-00962											
Prepared By (Initials): <u>CMM</u>											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
VOA Gasses STD	Phenova	ALO-101206	2,000	CL12965-408901	07/09/20	11/30/23	100uL	4mL	Methanol	50	
Hexachloroethane	Absolute	70199	1,000	091818-40719	07/09/20	09/18/23	200uL			50	
Benzyl Chloride	Absolute	70037	1,000	021119-40680	07/09/20	02/11/20	200uL			50	
VOA STD 8											
Prepared: 07/17/19 D											
Expires: 07/31/19											
Methanol Lot No. 58019-00962											
Prepared By (Initials): <u>CMM</u>											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
VOA Additions STD	Phenova	ALO-130175	2,000	CL12744-40591	07/09/20	08/31/20	100uL	4mL	Methanol	50	
502.2 Cal. Std.	Phenova	ALO-101200	2,000	CL12489-40595	07/09/20	05/31/23	100uL			50	
Vinyl Acetate	Phenova	ALO-101228	2,000	CL13816-41081	07/09/20	07/31/19	100uL			50	
VOA STD TBA											
Prepared: 07/17/19 E											
Expires: 07/31/19											
Methanol Lot No. 58019-00962											
Prepared By (Initials): <u>CMM</u>											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
Custom VOC Mix	Phenova	ALO-130176	2,000	CL12929-41066	07/17/20	11/30/20	500uL	4mL	Methanol	250	
Acrolein	Phenova	ALO-130549	10,000	CL13820-41082	07/09/20	07/31/19	100uL			250	
VOA STD 1											
Prepared: 07/17/19 F											
Expires: 09/15/19											
Methanol Lot No. 58019-00962											
Prepared By (Initials): <u>CMM</u>											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
2-CEVE	Absolute	071018-40341	2,000	071018-40713	07/05/20	07/10/21	50	2mL	Methanol	50	
VOA STD 2											
Prepared: 07/17/19 G											
Expires: 09/15/19											
Methanol Lot No. 58019-00962											
Prepared By (Initials): <u>CMM</u>											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
Ketones Std.	Phenova	ALO-109211	2,000	CL12729-40181	07/09/20	08/31/28	100	4mL	Methanol	50	
VOA STD 9											
Prepared: 07/17/19 H											
Expires: 09/15/19											
Methanol Lot No. 58019-00962											
Prepared By (Initials): <u>CMM</u>											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
VOA STD. 7		VOA STD. 9	50	Prepared 07/17/19	05/21/20	N/A	200uL	2mL	Methanol	5	
VOA STD. 8			50	Prepared 07/17/19	05/21/20	N/A	200uL			5	
VOA STD. 10											
Prepared: 07/17/19 I											
Expires: 09/15/19											
Methanol Lot No. 58019-00962											
Prepared By (Initials): <u>CMM</u>											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
VOA STD. 1		VOA STD. 10	50	Prepared 07/17/19	05/21/20	N/A	200uL	2mL	Methanol	5	
VOA STD. 12											
Prepared: 07/17/19 J											
Expires: 09/15/19											
Methanol Lot No. 58019-00962											
Prepared By (Initials): <u>CMM</u>											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
VOA STD. 2		VOA STD. 12	50	Prepared 07/17/19	05/21/20	N/A	200uL	2mL	Methanol	5	

Second Source (SS) Standards										
VOA STD. 3										
Prepared: 07/17/19 K										
Expires: 09/15/19										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Ketones Standard	Phenova	ALO-101211	2,000	CL12730-40609	07/09/20	08/31/28	50uL	2mL	Methanol	50
VOA STD. 5										
Prepared: 07/17/19 L										
Expires: 09/15/19										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
8260 Gases (SS)	Phenova	ALO-101206	2,000	CL12966-40911	07/09/20	11/30/23	50uL	2mL	Methanol	50
2-CEVE (SS)	Absolute	82408	2,000	071018-40965	07/09/2020	07/10/21	50uL			50
VOA STD. 6										
Prepared: 07/17/19 M										
Expires: 07/17/19										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
502.2 Calibration STD. (54-compounds)	Phenova	ALO-101200	2,000	CL12490-40917	07/09/20	05/31/23	50uL	2mL	Methanol	50
Vinyl Acetate	Phenova	ALO-101228	2,000	CL13739-40986	06/25/20	07/17/19	50uL			50
Hexachloroethane	Accustan	AS-E0011	1,000	218051281-40737	07/09/20	05/14/28	100uL			50
Benzyl Chloride	Accustan	M-8010-01	200	219041664-40952	07/09/20	05/22/21	500uL			50
VOA STD. TBA										
Prepared: 07/17/19 N										
Expires: 07/17/19										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Custom VOA Mix (4-3)	Phenova	ALO-130176	2,000	CL12542-39863	07/17/20	05/31/20	250uL	2mL	Methanol	250
Acrolein	Phenova	ALO-101224	10,000	CL13741-40987	06/25/20	07/17/19	50uL			250
VOA STD. O										
Prepared: 07/17/19 O										
Expires: 07/09/19										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Addition STD.	Phenova	ALO-130175	2,000	CL12744-40994	07/09/19	08/31/20	50uL	2mL	Methanol	50
BFB Tune										
Prepared: 07/05/19										
Expires: 01/19/21										
Methanol Lot No. 58019-00958										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
4-Bromofluorobenzene	O2SI	020135-03	2,500	342387-39073	04/19/20	01/19/21	20uL	2mL	Methanol	25

Injection Log

Directory: M:\LOKI\DATA\190715\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
26	0716L27.D	1	20ug/L GAS STD 7/16/19	IS&S 7/15/19,6/5/19	16 Jul 19 23:53
27	0716L28.D	1	50ug/L GAS STD 7/16/19	IS&S 7/15/19,6/5/19	17 Jul 19 00:22
28	0716L29.D	1	100ug/L GAS STD 7/16/19	IS&S 7/15/19,6/5/19	17 Jul 19 00:51
29	0716L30.D	1	300ug/L GAS STD 7/16/19	IS&S 7/15/19,6/5/19	17 Jul 19 1:20
30	0716L31.D	1	600ug/L GAS STD 7/16/19	IS&S 7/15/19,6/5/19	17 Jul 19 1:48
31	0716L32.D	1	800ug/L GAS STD 7/16/19	IS&S 7/15/19,6/5/19	17 Jul 19 2:17
32	0716L33.D	1	1000ug/L GAS STD 7/16/19	IS&S 7/15/19,6/5/19	17 Jul 19 2:46
33	0716L34.D	1	(SS)300ug/L GAS STD 7/16/19	IS&S 7/15/19,6/5/19	17 Jul 19 3:14
4	0724L15.D	1	0.3ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 15:18
5	0724L16.D	1	0.5ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 15:47
6	0724L17.D	1	1.0ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 16:16
7	0724L18.D	1	2.0ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 16:45
8	0724L19.D	1	5.0ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 17:14
9	0724L20.D	1	10ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 17:42
10	0724L21.D	1	20ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 18:11
11	0724L22.D	1	40ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 18:40
12	0724L23.D	1	100ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 19:09
23	0727L23.D	1	190727B CCV 300ug/L	IS&S 7/15/19,6/5/19	27 Jul 19 20:22
24	0727L24.D	1	190727B LCS 300ug/L	IS&S 7/15/19,6/5/19	27 Jul 19 20:50
25	0727L25.D	1	190727B LCSD 300ug/L	IS&S 7/15/19,6/5/19	27 Jul 19 21:19
26	0727L26.D	1	190727B BLK	IS&S 7/15/19,6/5/19	27 Jul 19 21:48
27	0727L27.D	1	AZ95186W01	IS&S 7/15/19,6/5/19	27 Jul 19 22:17
28	0727L28.D	1	AZ95187W01	IS&S 7/15/19,6/5/19	27 Jul 19 22:45
29	0727L29.D	1	AZ95188W01	IS&S 7/15/19,6/5/19	27 Jul 19 23:14
30	0727L30.D	1	AZ95189W01	IS&S 7/15/19,6/5/19	27 Jul 19 23:43
31	0727L31.D	1	AZ95190W01	IS&S 7/15/19,6/5/19	28 Jul 19 00:12
36	0727L36.D	1	AZ95189W04 MS 300ug/L	IS&S 7/15/19,6/5/19	28 Jul 19 2:36
37	0727L37.D	1	AZ95189W05 MSD 300ug/L	IS&S 7/15/19,6/5/19	28 Jul 19 3:04
41	0727L41.D	1	Ending CCV 300ug/L 07/27/19	IS&S 7/15/19,6/5/19	28 Jul 19 5:00

ORGANICS
Calibration Data

Form 6
Initial Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Initial Cal. Date: 06/18/19

Matrix: _____

Instrument: 7890

Initials: AK/LP

19081802.D 19081803.D 19081804.D 19081805.D 19081806.D 19081807.D 19081808.D

	Compound	1	2	3	4	5	6	7				Avg	%RSD	Type	r^2	Q
1	ATML Methane	14748	10458	7136	9743	10449	11201	10592				10618	21	ATM	1.000	
2	ATML Ethane	13248	9958	6804	8700	8955	9680	8769				9445	21	ATM	0.999	
3	ATML Ethene	11298	8564	5896	7589	7406	8291	7253				8042	21	ATM	0.999	
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1.791451

Data File : G:\ROCKY\DATA\190618RS\19061802.D Vial: 3
 Acq On : 18 Jun 19 12:33 Operator: cmm
 Sample : RSK Std 1 06/18/19 Inst : 7890
 Misc : 125 uL from Std 3 Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jun 18 12:56 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jun 18 12:54:55 2019
 Response via : Multiple Level Calibration

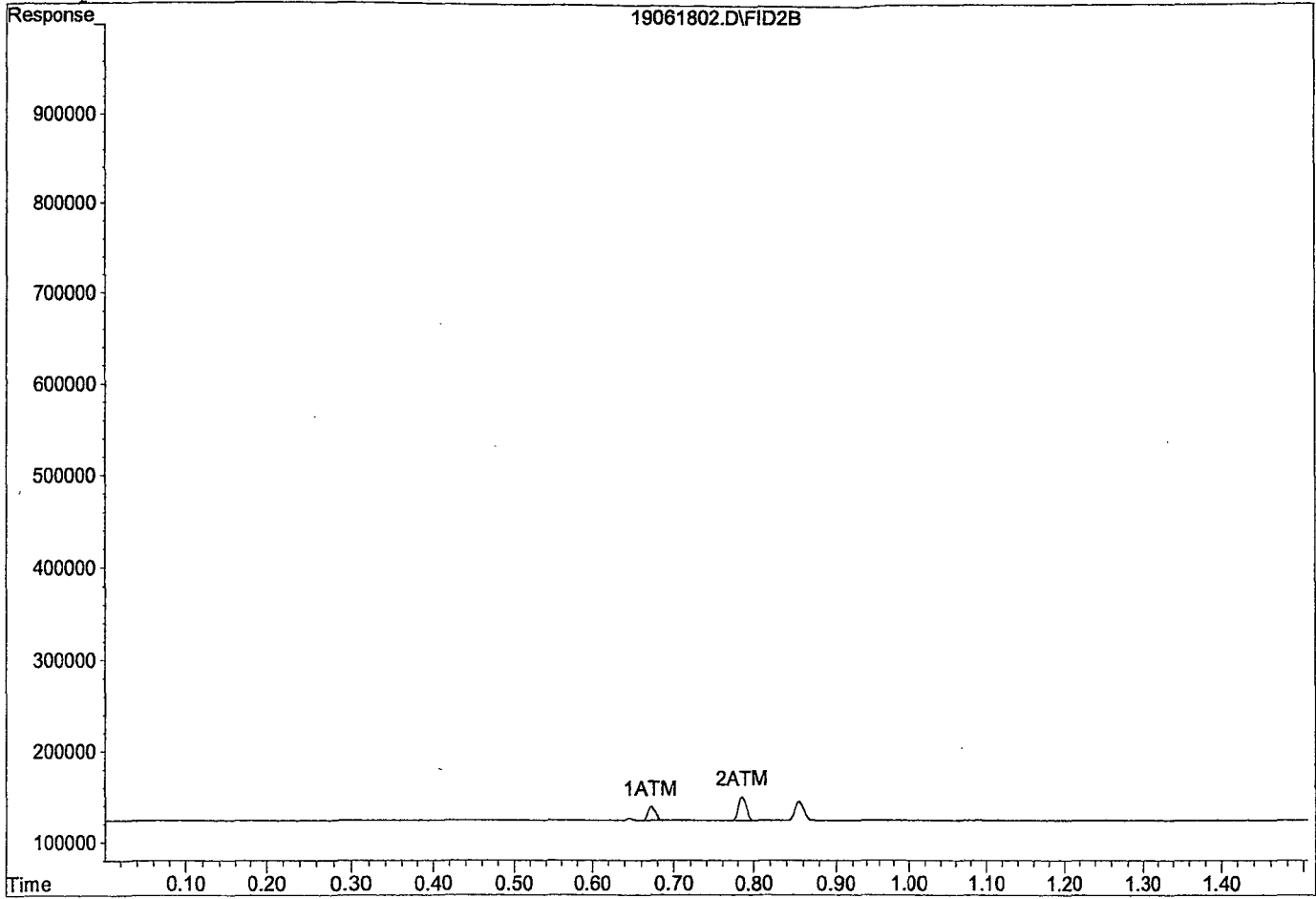
Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) ATM Methane	0.67	15338	2.205 ppb
2) ATM Ethane	0.78	25899	0.205 ppb
Target Compounds			
3) ATM Ethene	0.85	20619	N.D. ppb

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19061802.D

Sample : RSK Std 1 06/18/19



Data File : G:\ROCKY\DATA\190618RS\19061803.D Vial: 4
 Acq On : 18 Jun 19 12:36 Operator: cmm
 Sample : RSK Std 2 06/18/19 Inst : 7890
 Misc : 250 uL from Std 3 Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jun 18 12:56 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jun 18 12:54:55 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

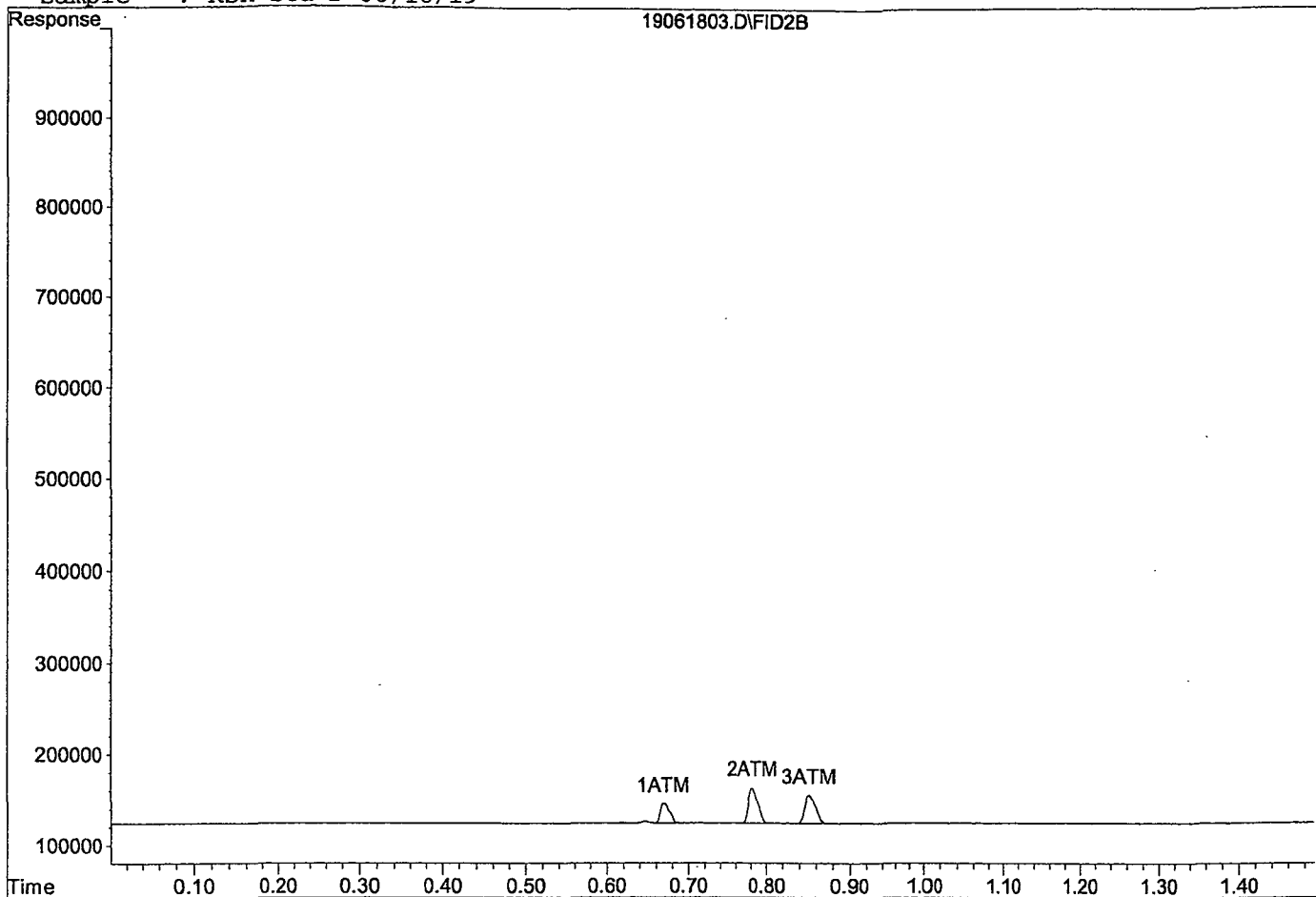
Target Compounds			
1) ATM Methane	0.67	21752	3.413 ppb
2) ATM Ethane	0.78	38887	3.163 ppb
3) ATM Ethene	0.85	31260	0.873 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19061803.D

Sample : RSK Std 2 06/18/19



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\190618RS\19061804.D Vial: 5
Acq On : 18 Jun 19 12:39 Operator: cmm
Sample : RSK Std 3 06/18/19 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Jun 18 12:56 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
Title : RSK 175
Last Update : Tue Jun 18 12:54:55 2019
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc Units

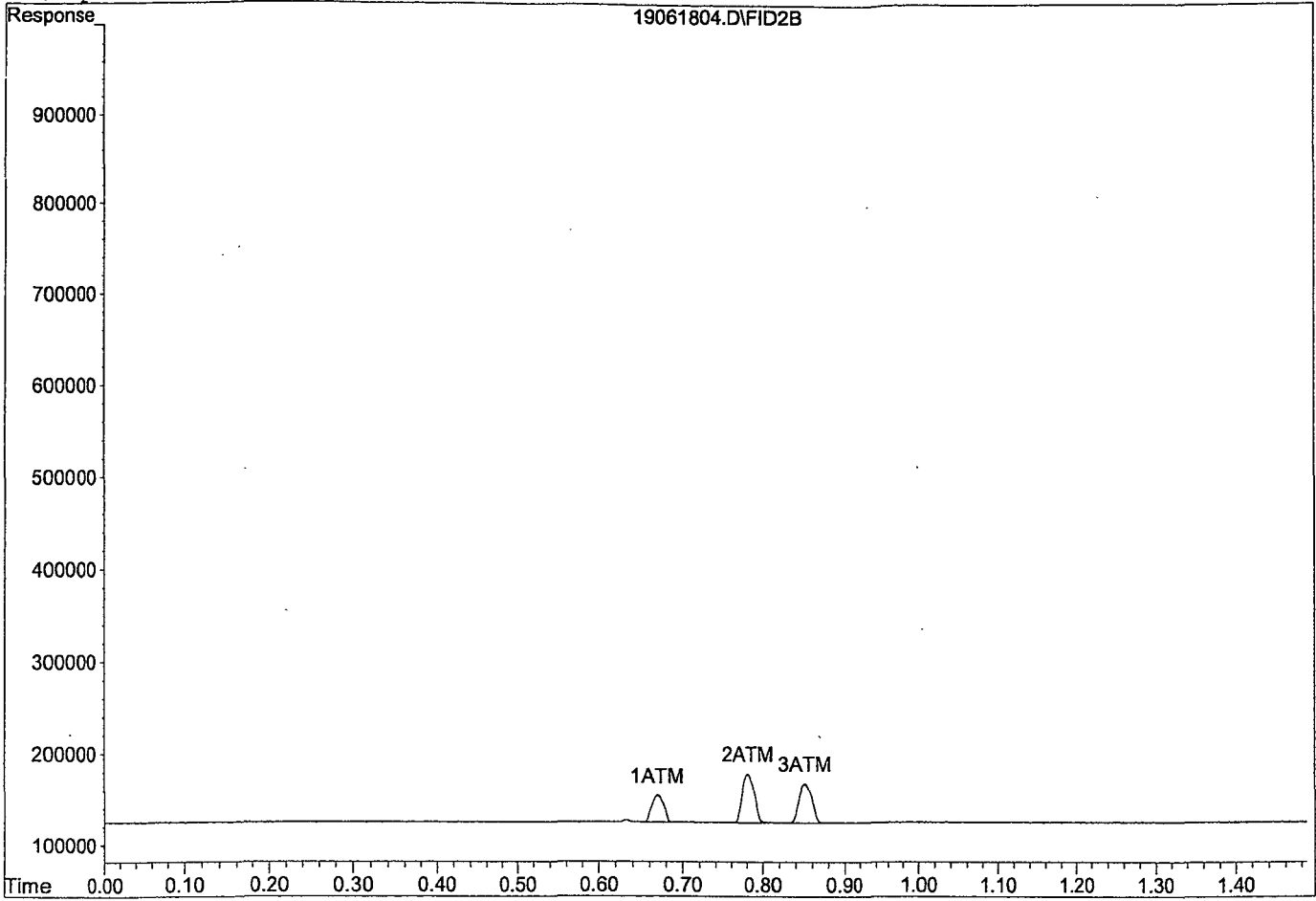
Target Compounds			
1) ATM Methane	0.67	29757	4.921 ppb
2) ATM Ethane	0.78	53072	6.393 ppb
3) ATM Ethene	0.85	43038	4.115 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19061804.D

Sample : RSK Std 3 06/18/19



Data File : G:\ROCKY\DATA\190618RS\19061805.D Vial: 6
 Acq On : 18 Jun 19 12:42 Operator: cmm
 Sample : RSK Std 4 06/18/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jun 18 12:56 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jun 18 12:54:55 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

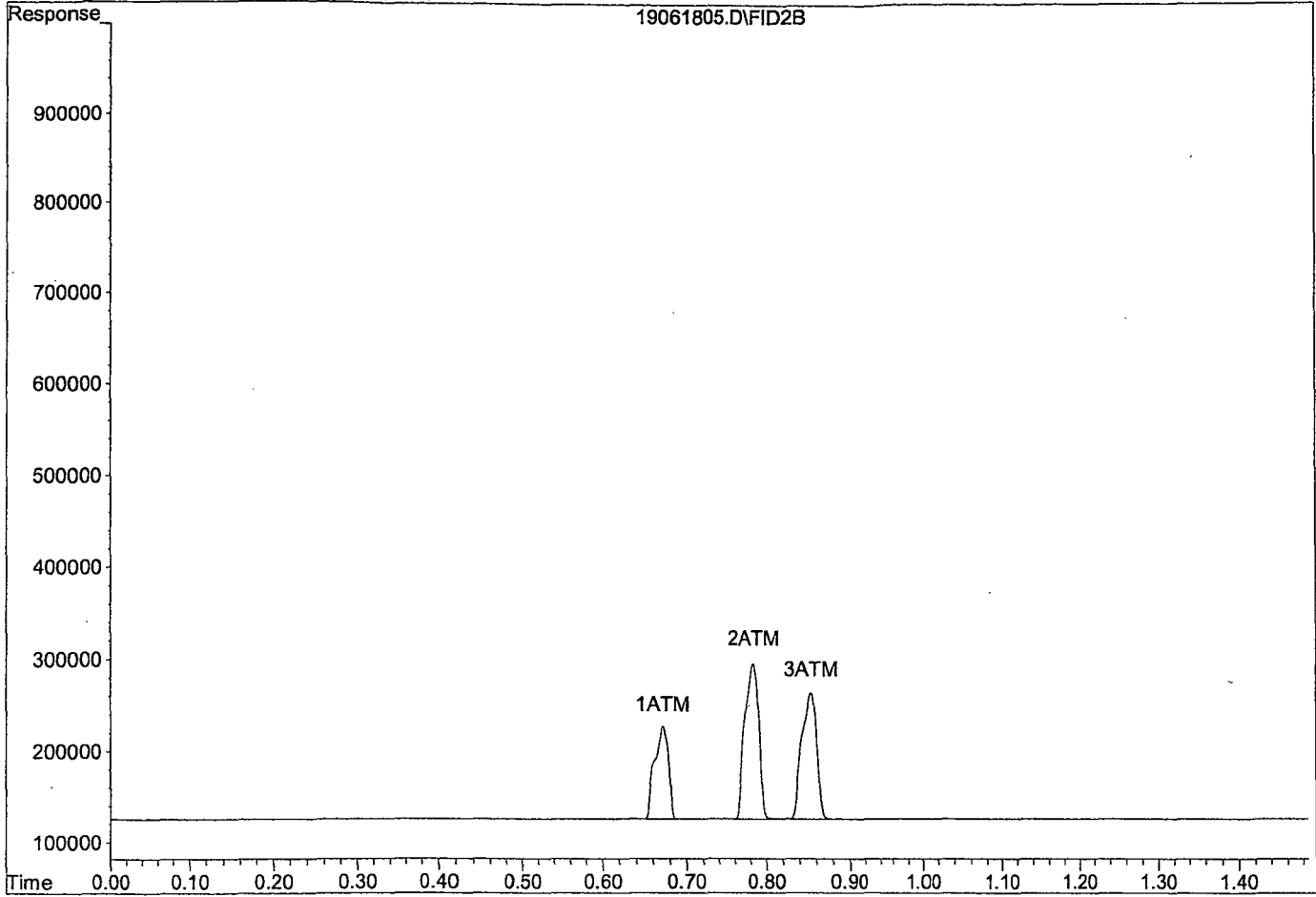
Target Compounds			
1) ATM Methane	0.67	101573	18.453 ppb
2) ATM Ethane	0.78	170046	33.032 ppb
3) ATM Ethene	0.85	138343	30.353 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19061805.D

Sample : RSK Std 4 06/18/19



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\190618RS\19061806.D Vial: 7
 Acq On : 18 Jun 19 12:44 Operator: cmm
 Sample : RSK Std 5 06/18/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jun 18 12:56 2019 Quant. Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jun 18 12:54:55 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

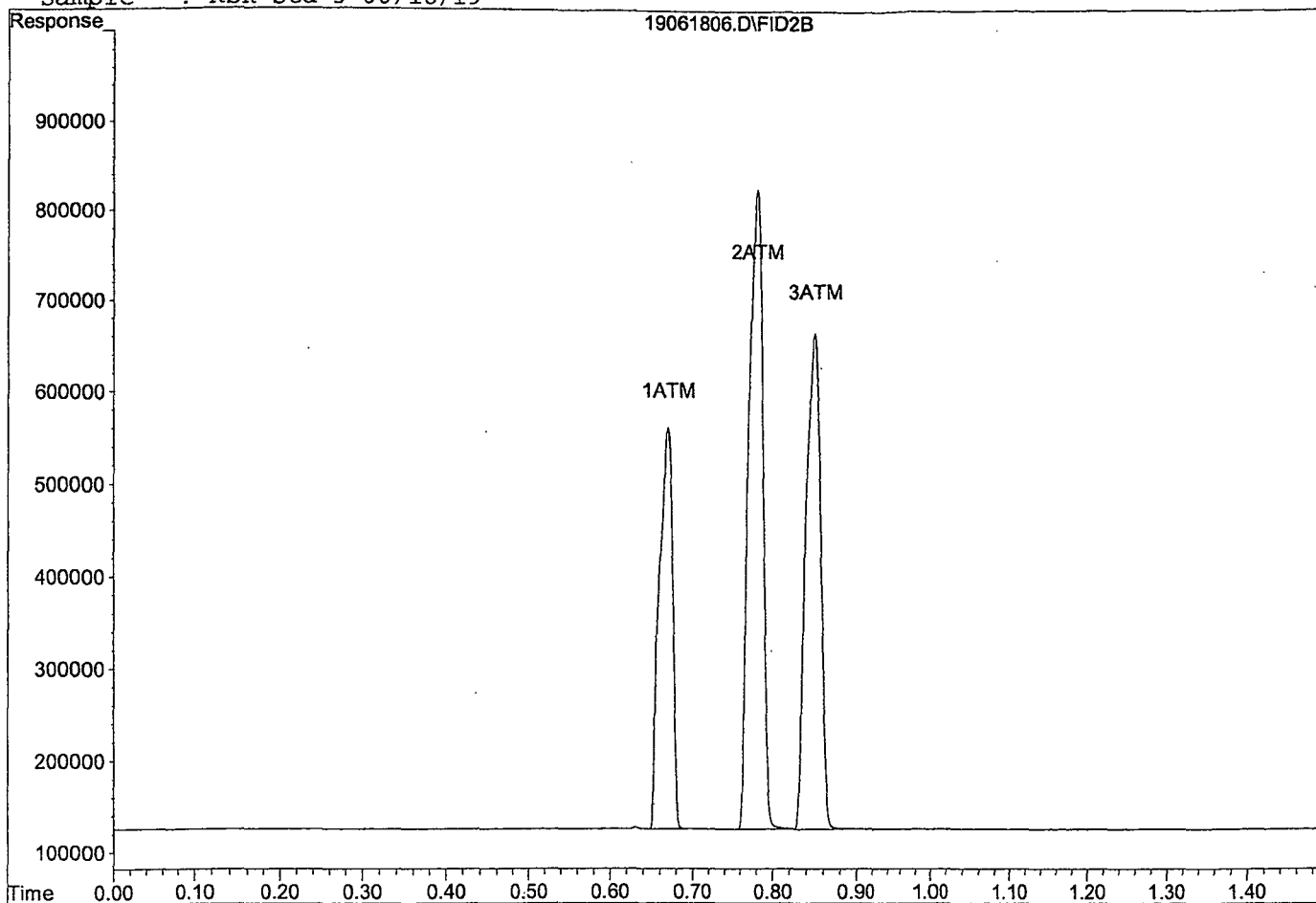
Target Compounds			
1) ATM Methane	0.67	435711	81.413 ppb
2) ATM Ethane	0.78	700049	153.731 ppb
3) ATM Ethene	0.85	540080	140.951 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19061806.D

Sample : RSK Std 5 06/18/19



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\190618RS\19061807.D Vial: 8
 Acq On : 18 Jun 19 12:47 Operator: cmm
 Sample : RSK Std 6 06/18/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jun 18 12:56 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jun 18 12:54:55 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

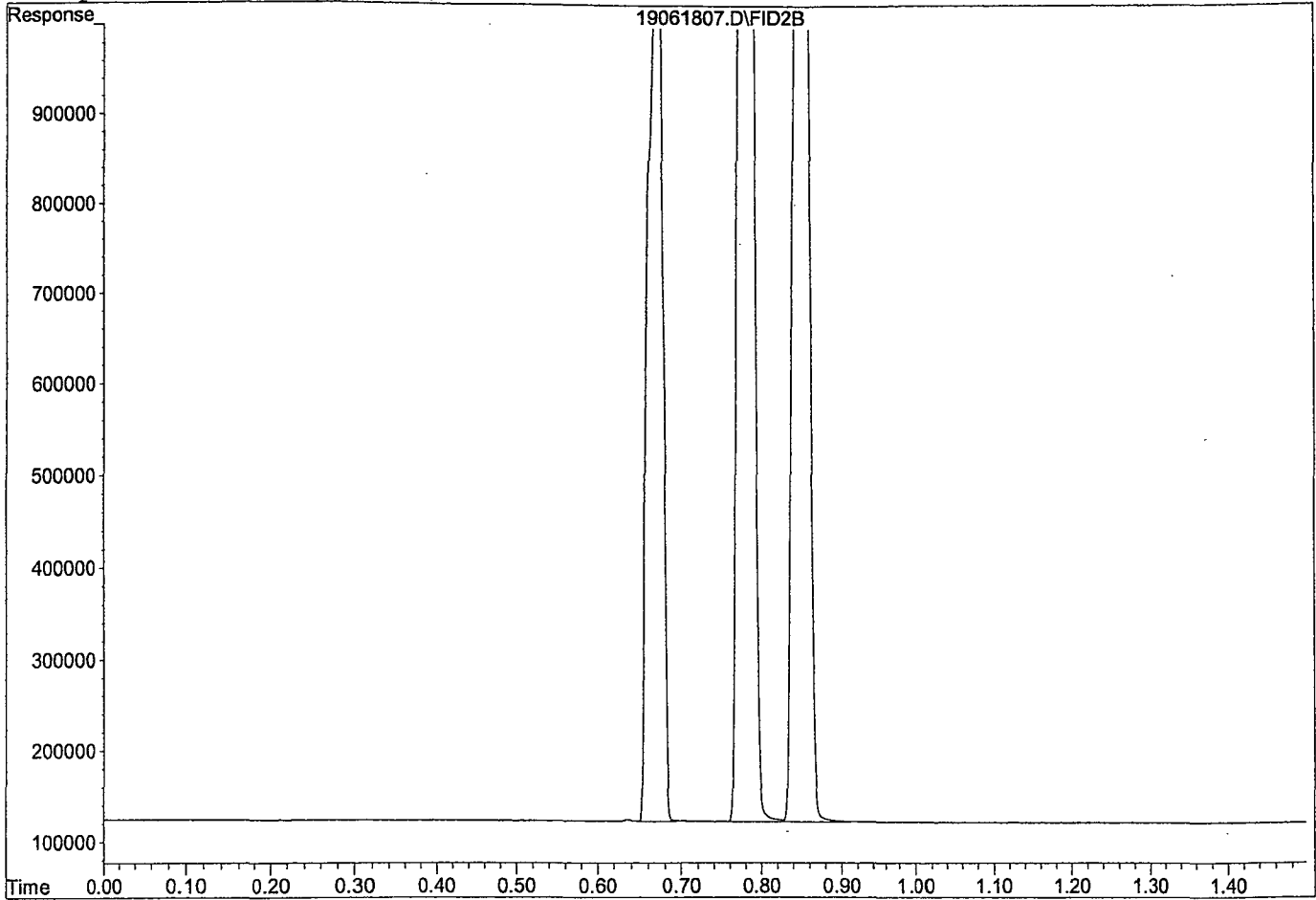
Target Compounds			
1) ATM Methane	0.67	1167694	219.338 ppb
2) ATM Ethane	0.78	1891954	425.166 ppb
3) ATM Ethene	0.85	1511420	408.362 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19061807.D

Sample : RSK Std 6 06/18/19



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\190618RS\19061808.D Vial: 9
 Acq On : 18 Jun 19 12:49 Operator: cmm
 Sample : RSK Std 7 06/18/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jun 18 12:56 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jun 18 12:54:55 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

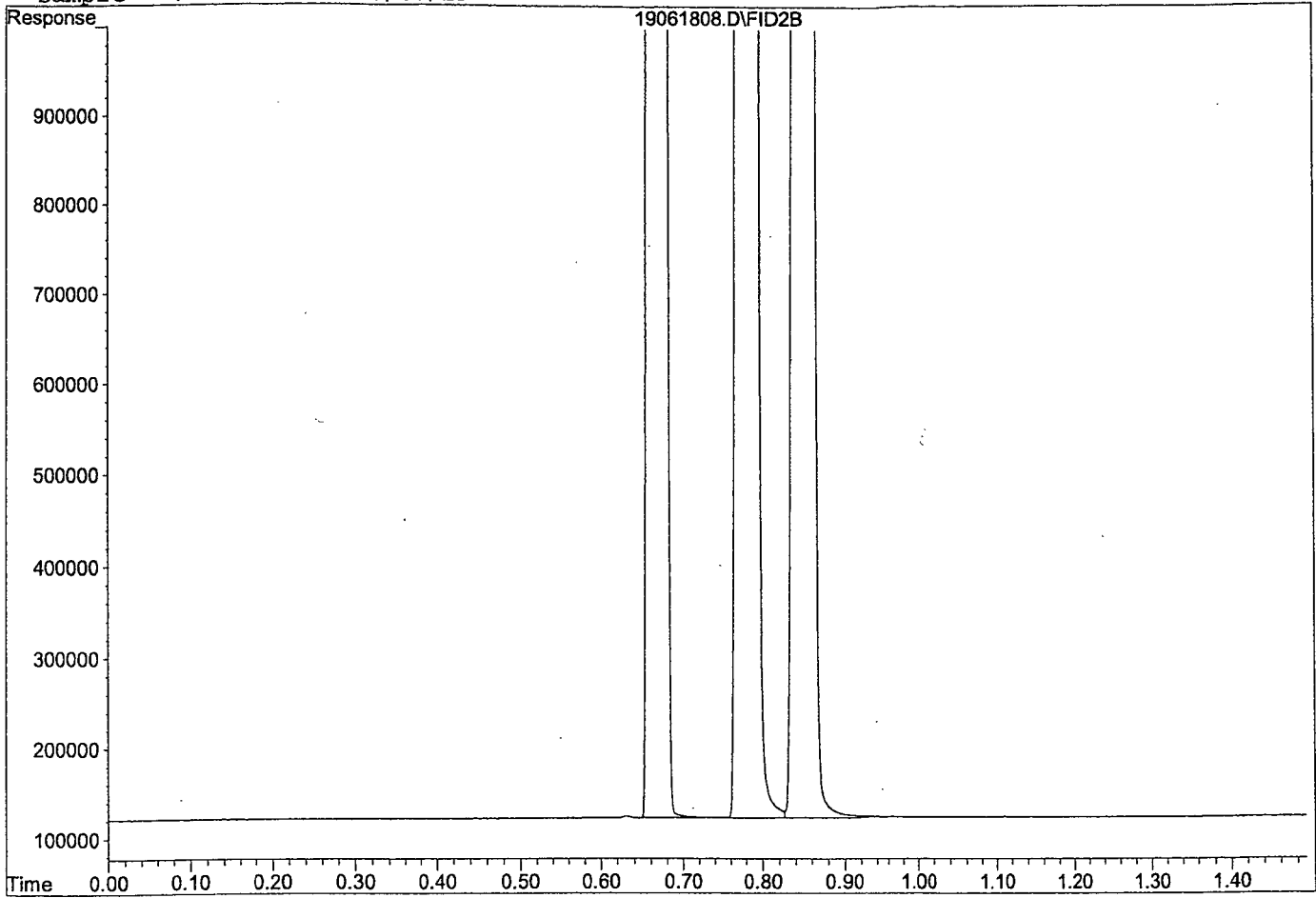
Compound	R.T.	Response	Conc Units

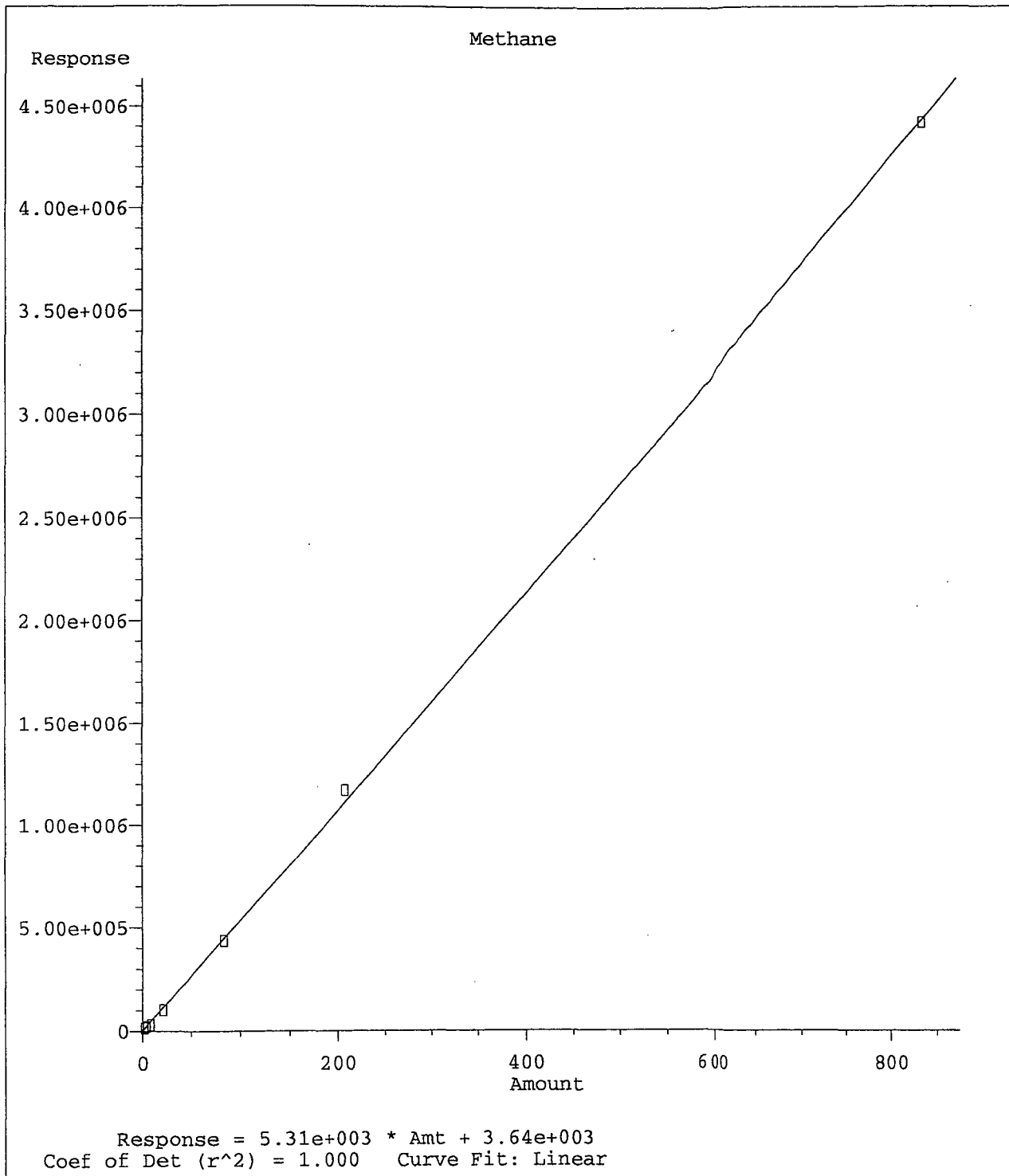
Target Compounds			
1) ATM Methane	0.67	4416985	831.587 ppb
2) ATM Ethane	0.79	6855267	1555.471 ppb
3) ATM Ethene	0.85	5288711	1448.253 ppb

Target Compounds

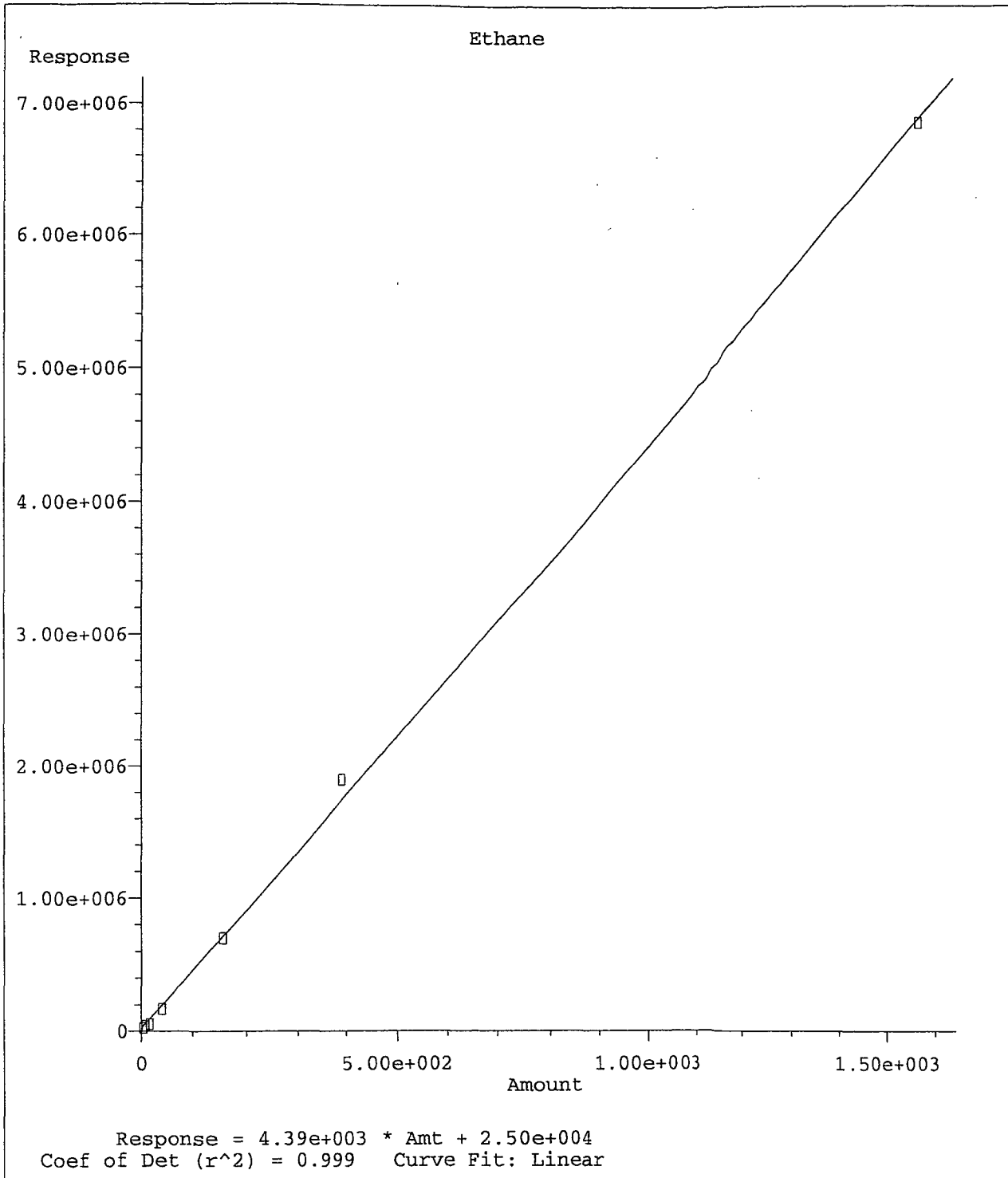
Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19061808.D
Sample : RSK Std 7 06/18/19

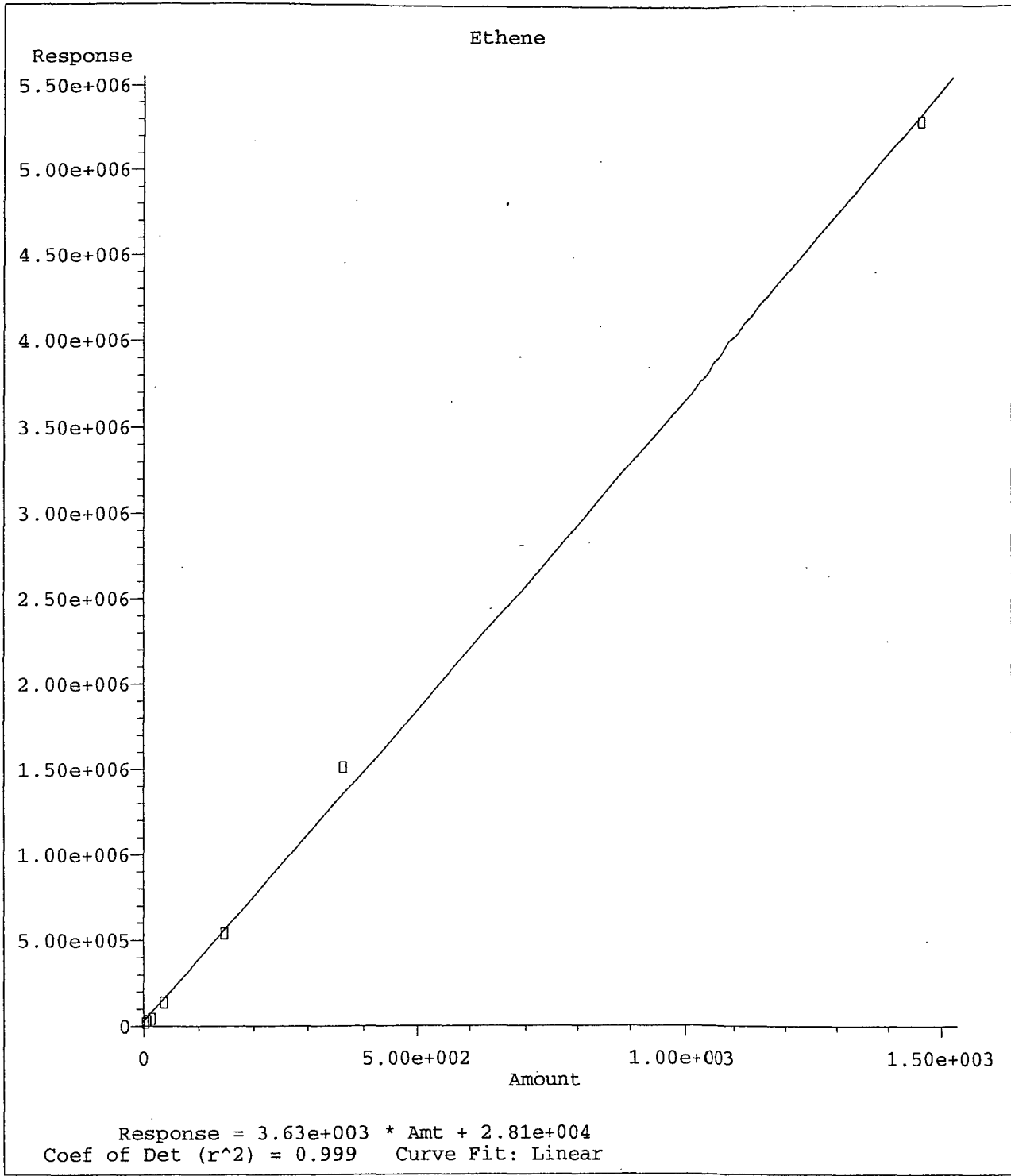




Method Name: G:\ROCKY\DATA\190618RS\RSK0618.M
Calibration Table Last Updated: Tue Jun 18 12:54:55 2019



Method Name: G:\ROCKY\DATA\190618RS\RSK0618.M
Calibration Table Last Updated: Tue Jun 18 12:54:55 2019



Method Name: G:\ROCKY\DATA\190618RS\RSK0618.M
Calibration Table Last Updated: Tue Jun 18 12:54:55 2019

RSK 175

RSK 175

Form 7

Second Source Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 06/18/19

Matrix: _____

Instrument: 7890

Initial Cal. Date: 06/18/19

Data File: 19061809.D

		Compound	MEAN	CCRF	%D		%Drift
1	ATML	Methane	10618	11291	6.3	ATML	5.6
2	ATML	Ethane	9445	9533	0.93	ATML	4.9
3	ATML	Ethene	8042	7618	5.3	ATML	0.44
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Average

4.2

Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\190618RS\19061809.D Vial: 10
Acq On : 18 Jun 19 12:52 Operator: cmm
Sample : SS RSK Std 5 06/18/19 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Jun 18 12:55 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
Title : RSK 175
Last Update : Tue Jun 18 12:54:55 2019
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc Units

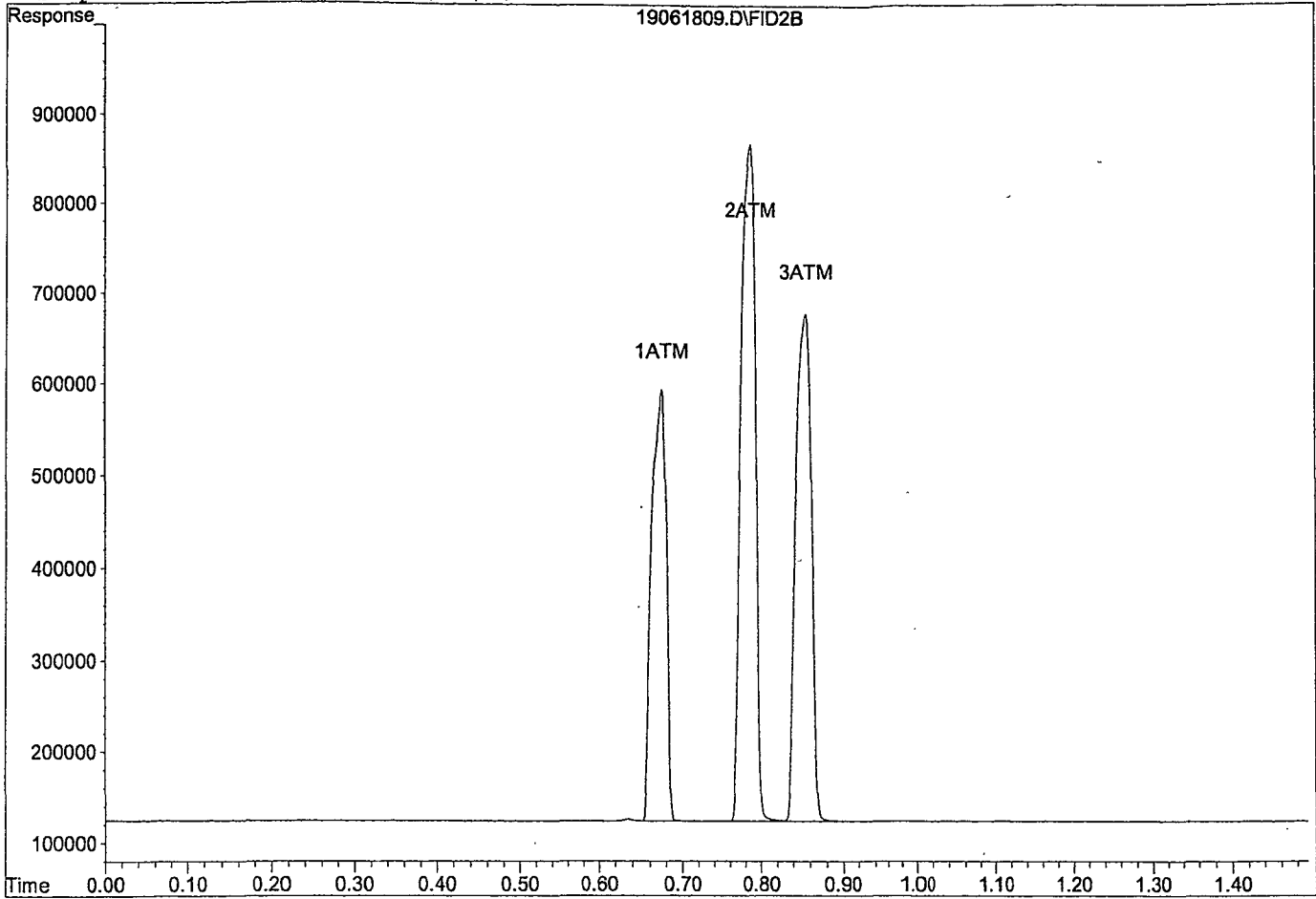
Target Compounds			
1) ATM Methane	0.67	470830	88.031 ppb
2) ATM Ethane	0.78	745250	164.024 ppb
3) ATM Ethene	0.85	555502	145.197 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19061809.D

Sample : SS RSK Std 5 06/18/19



RSK 175
RSK 175

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 07/25/19

Matrix: _____

Instrument: 7890

Initial Cal. Date: 06/18/19

Data File: 19072517.D

		Compound	MEAN	CCRF	%D		%Drift
1	ATML	Methane	10618	10677	0.55	ATML	0.23
2	ATML	Ethane	9445	8949	5.2	ATML	1.7
3	ATML	Ethene	8042	6562	18	ATML	15
4							
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Average

7.9

Data File : G:\ROCKY\DATA\190618RS\19072517.D Vial: 3
 Acq On : 25 Jul 19 14:00 Operator: cmm ga
 Sample : 190725A LCS/CCV RSK Std 5 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 25 14:02 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Thu Jul 25 15:11:21 2019
 Response via : Multiple Level Calibration

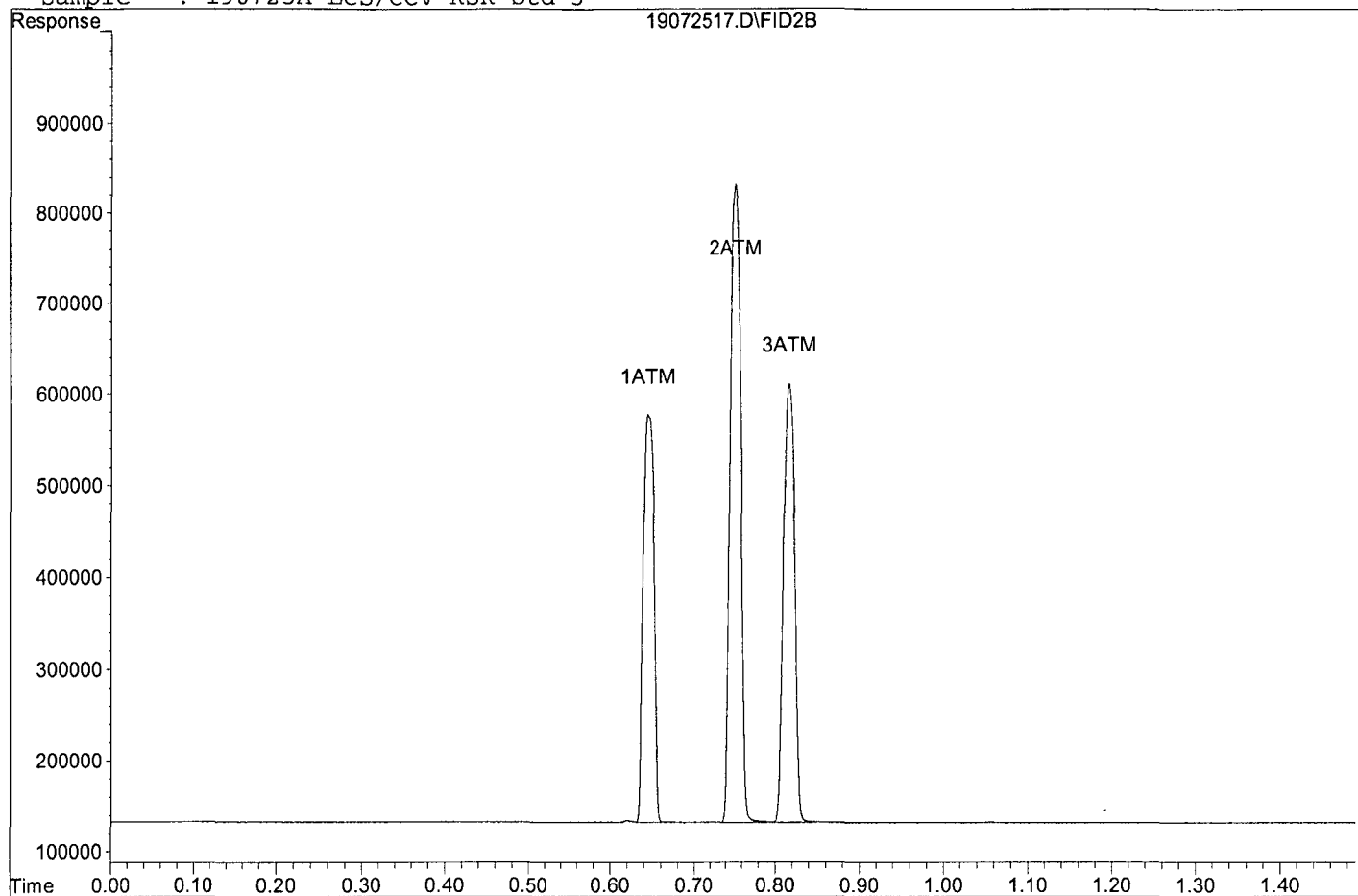
Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

Target Compounds			
1) ATM Methane	0.64	445230	83.207 ppb
2) ATM Ethane	0.75	699618	153.633 ppb
3) ATM Ethene	0.82	478533	124.007 ppb

Target Compounds

Data File: G:\ROCKY\DATA\190618RS\19072517.D
Sample : 190725A LCS/CCV RSK Std 5



RSK 175
RSK 175

Form 7
Ending Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/25/19
Instrument: 7890
Initial Cal. Date: 06/18/19
Data File: 19072533.D

		Compound	MEAN	CCRF	%D		%Drift
1	ATML	Methane	10618	11236	5.8	ATML	5.0
2	ATML	Ethane	9445	8799	6.8	ATML	3.4
3	ATML	Ethene	8042	6463	20	ATML	16
4							
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40							

Average

10.9

Data File : G:\ROCKY\DATA\190618RS\19072533.D Vial: 19
 Acq On : 25 Jul 19 15:07 Operator: GA
 Sample : Ending CCV RSK Std 5 07/25/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 25 15:11 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Thu Jul 25 15:11:21 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

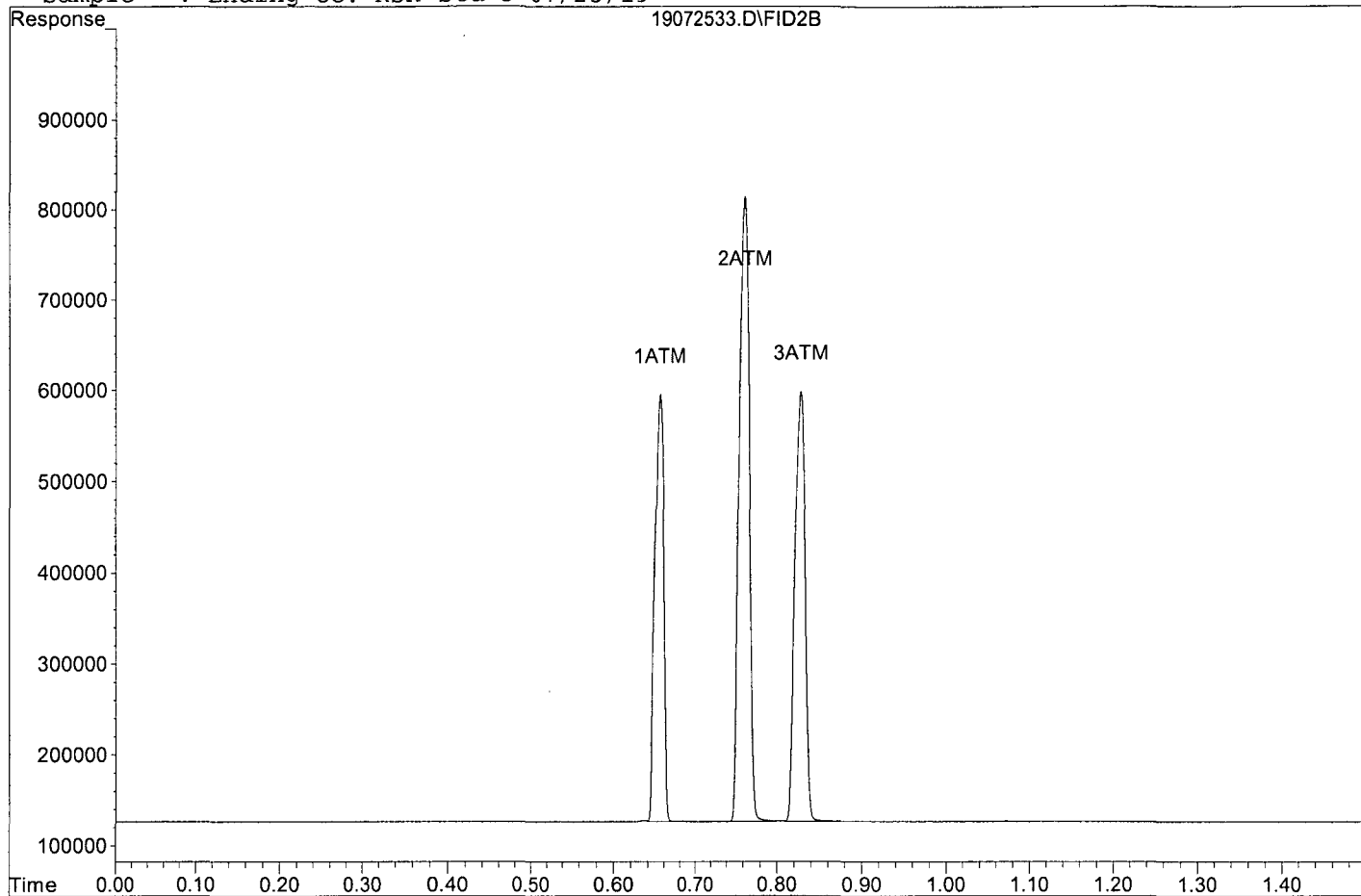
Target Compounds			
1) ATM Methane	0.66	468524	87.596 ppb
2) ATM Ethane	0.76	687866	150.956 ppb
3) ATM Ethene	0.83	471307	122.018 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19072533.D

Sample : Ending CCV RSK Std 5 07/25/19



ORGANICS
Raw Data

Data File : G:\ROCKY\DATA\190618RS\19072520.D Vial: 6
 Acq On : 25 Jul 19 14:14 Operator: GA
 Sample : AZ95186W04 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 25 14:17 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Thu Jul 25 14:06:07 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
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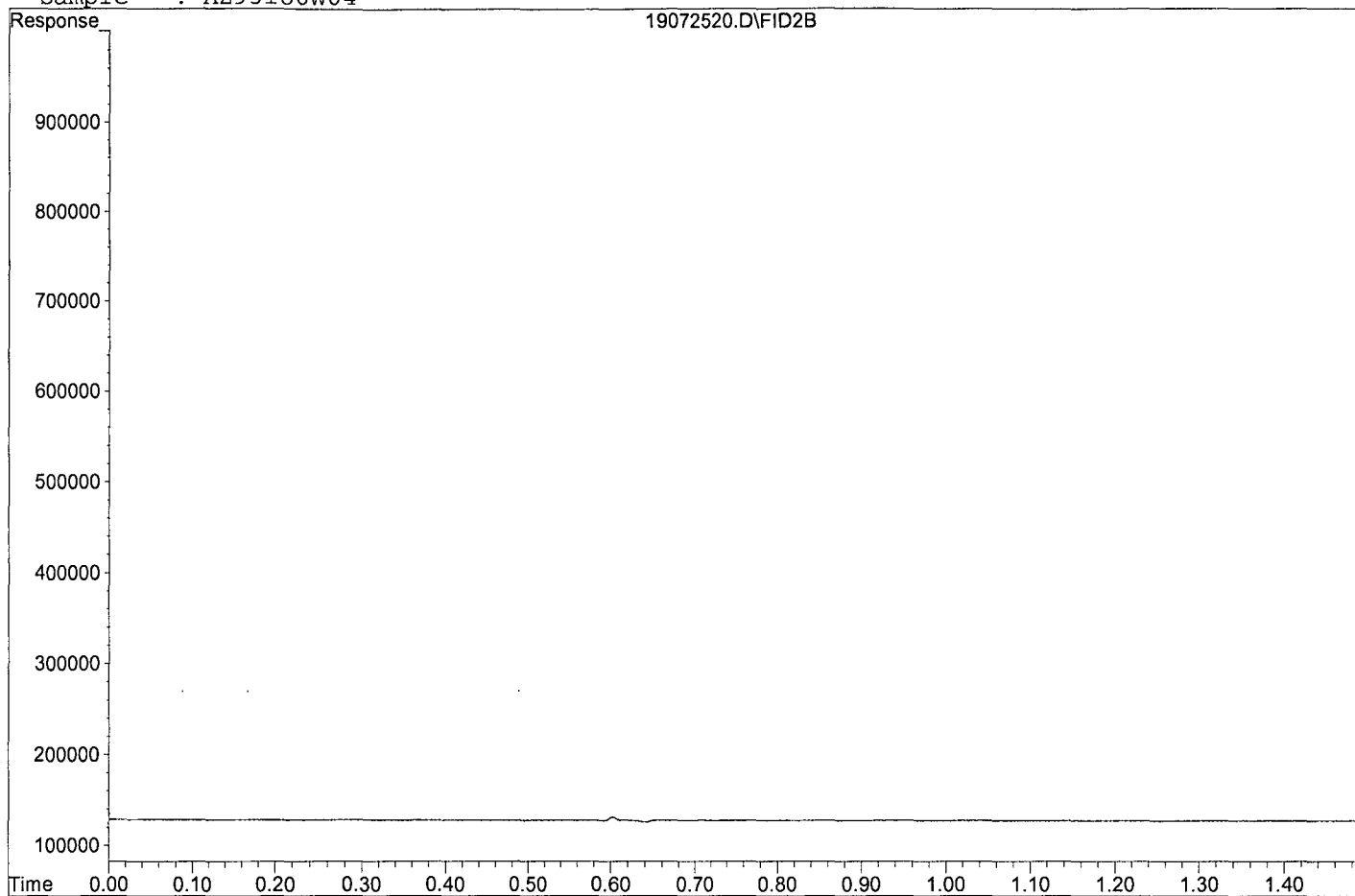
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19072520.D

Sample : AZ95186W04



Data File : G:\ROCKY\DATA\190618RS\19072521.D Vial: 7
 Acq On : 25 Jul 19 14:19 Operator: GA
 Sample : AZ95187W04 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 25 14:21 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Thu Jul 25 14:06:07 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
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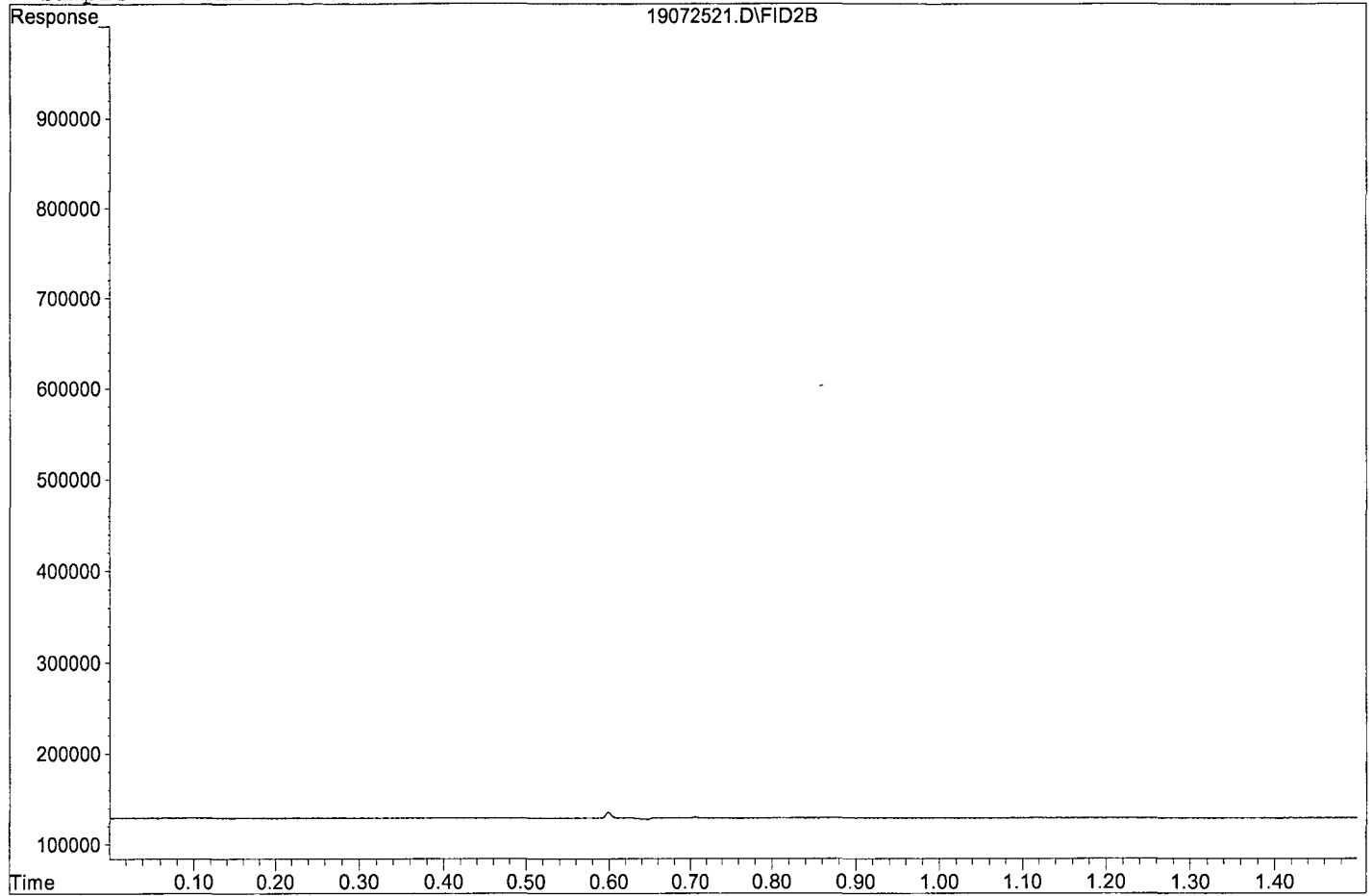
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19072521.D

Sample : AZ95187W04



Data File : G:\ROCKY\DATA\190618RS\19072522.D Vial: 8
 Acq On : 25 Jul 19 14:22 Operator: GA
 Sample : AZ95188W04 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 25 14:25 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Thu Jul 25 14:06:07 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
----------	------	----------	------	-------

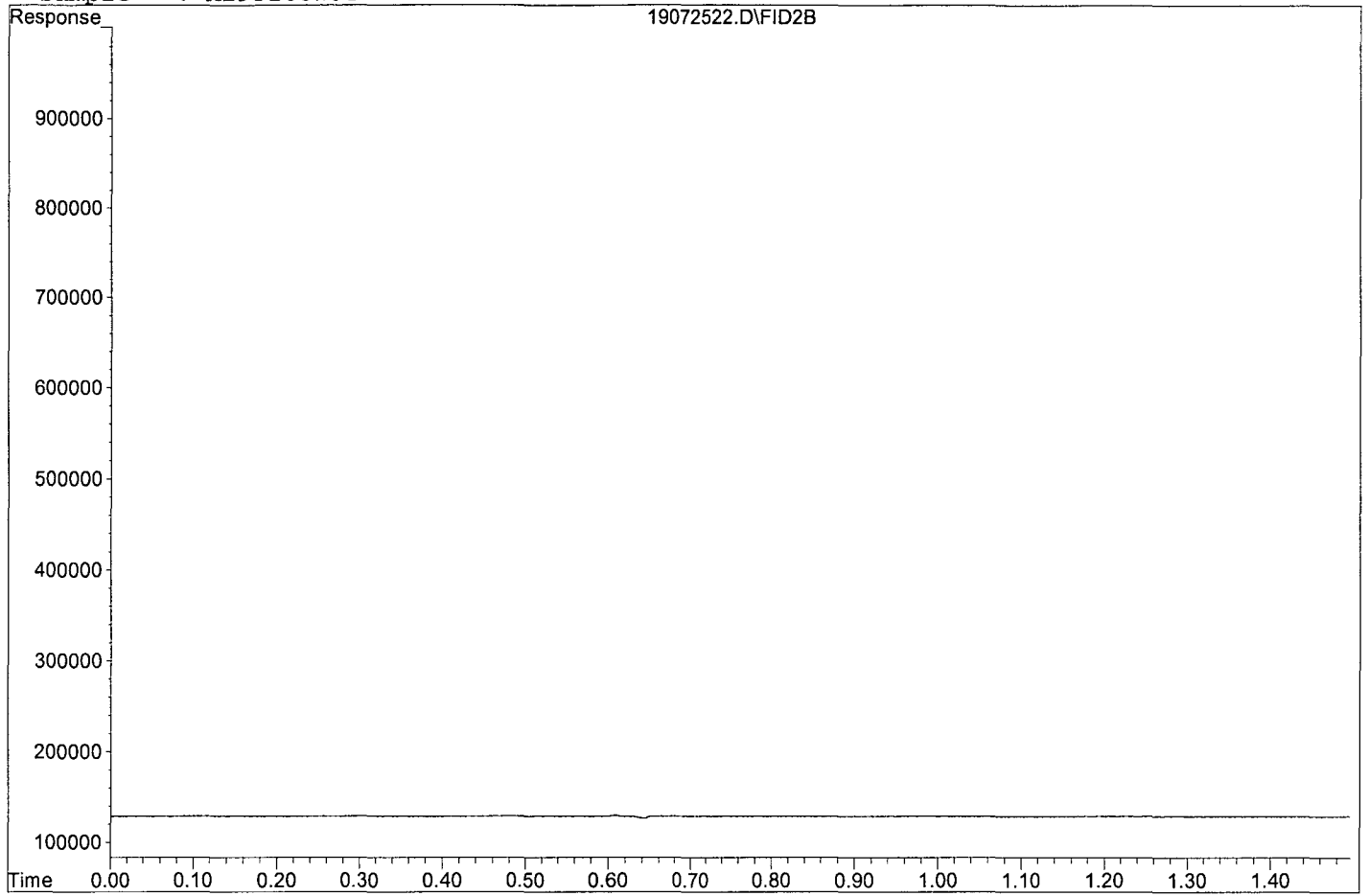
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19072522.D

Sample : AZ95188W04



Data File : G:\ROCKY\DATA\190618RS\19072525.D Vial: 11
 Acq On : 25 Jul 19 14:36 Operator: GA
 Sample : AZ95189W08 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 25 14:39 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Thu Jul 25 14:06:07 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
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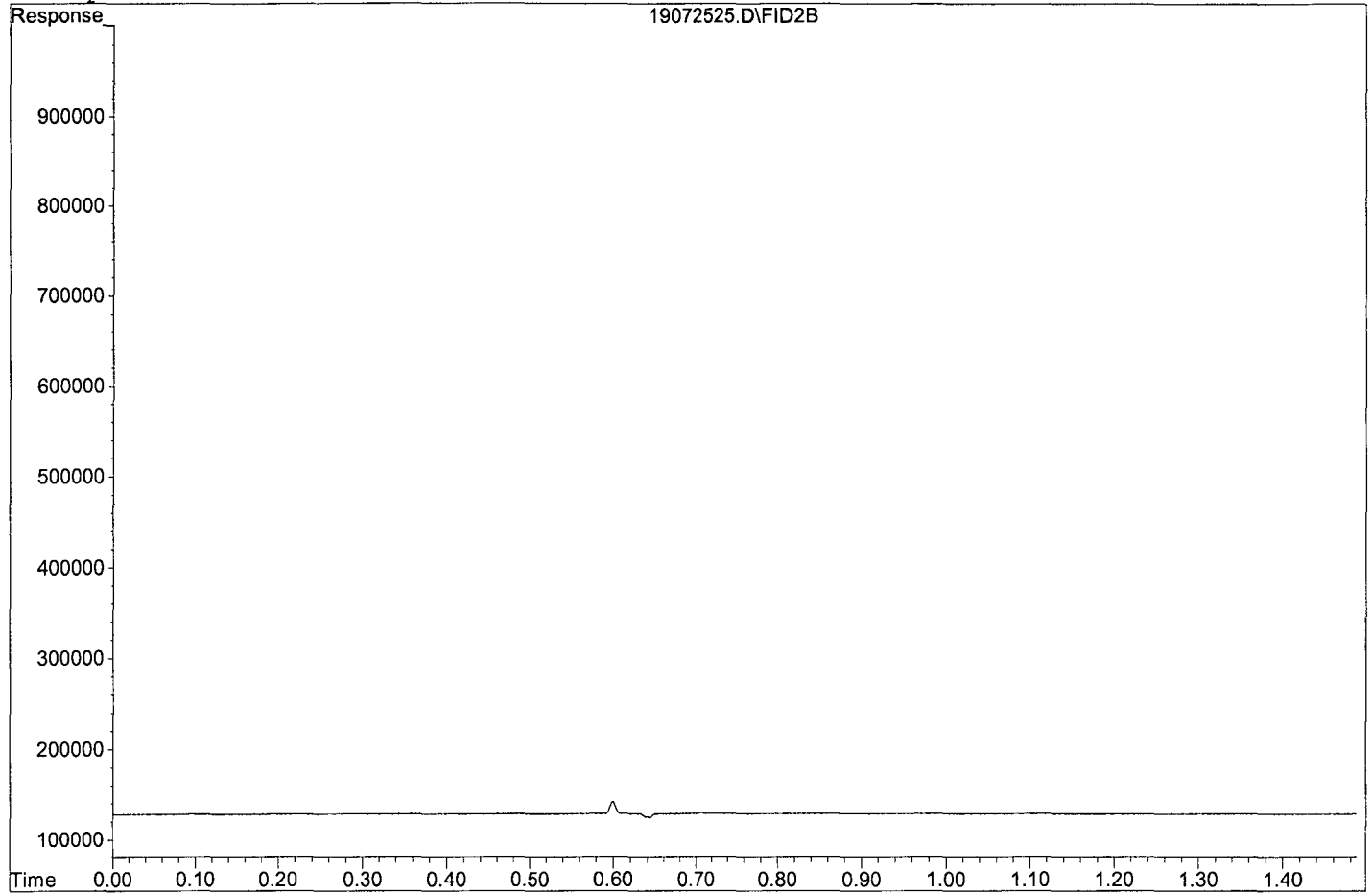
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19072525.D

Sample : AZ95189W08



Data File : G:\ROCKY\DATA\190618RS\19072519.D Vial: 5
 Acq On : 25 Jul 19 14:08 Operator: GA
 Sample : 190725A BLK Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 25 14:17 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Thu Jul 25 15:11:21 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
----------	------	----------	------	-------

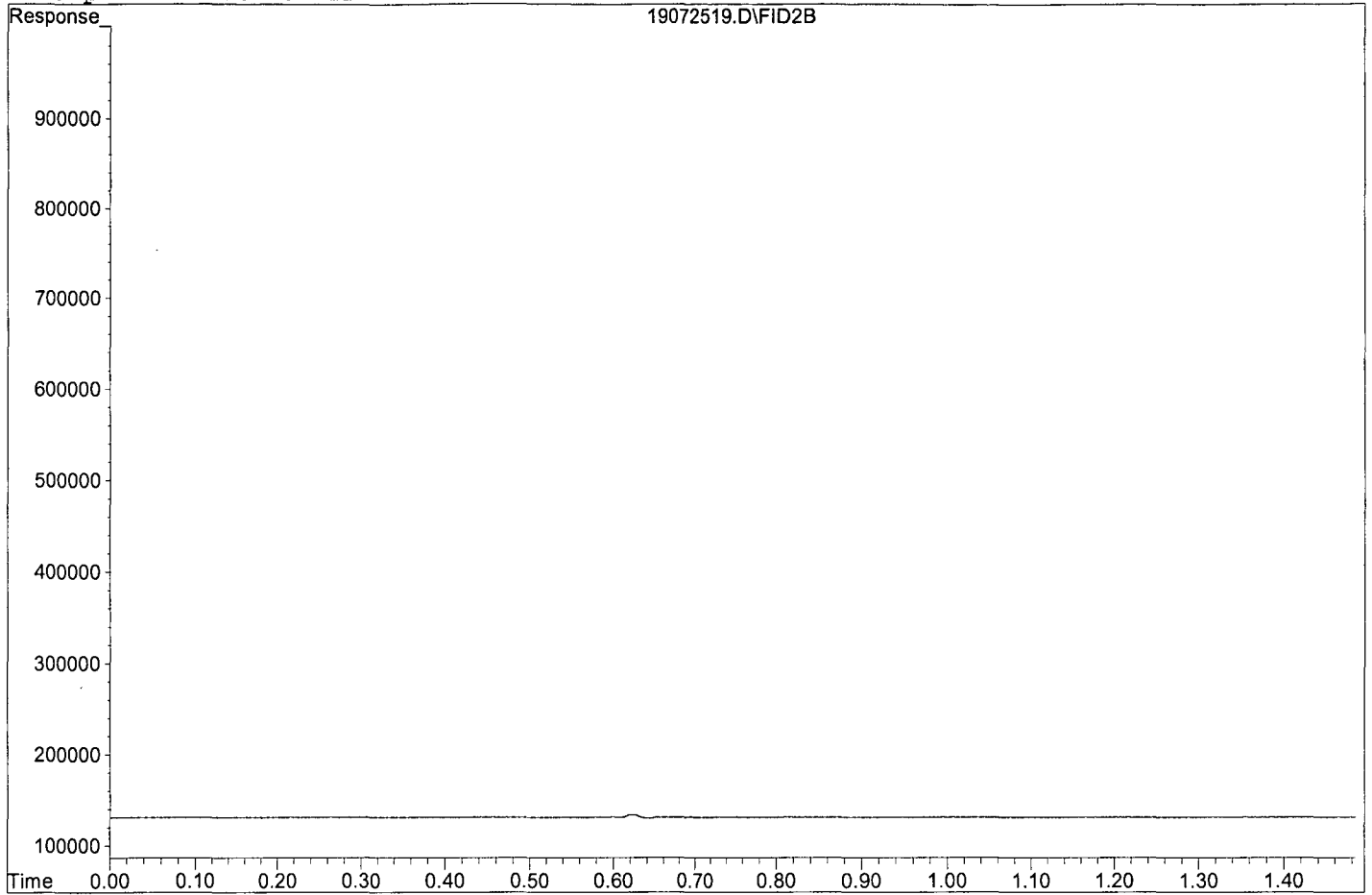
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19072519.D

Sample : 190725A BLK



Data File : G:\ROCKY\DATA\190618RS\19072517.D Vial: 3
 Acq On : 25 Jul 19 14:00 Operator: cmm ga
 Sample : 190725A LCS/CCV RSK Std 5 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 25 14:02 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Thu Jul 25 15:11:21 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

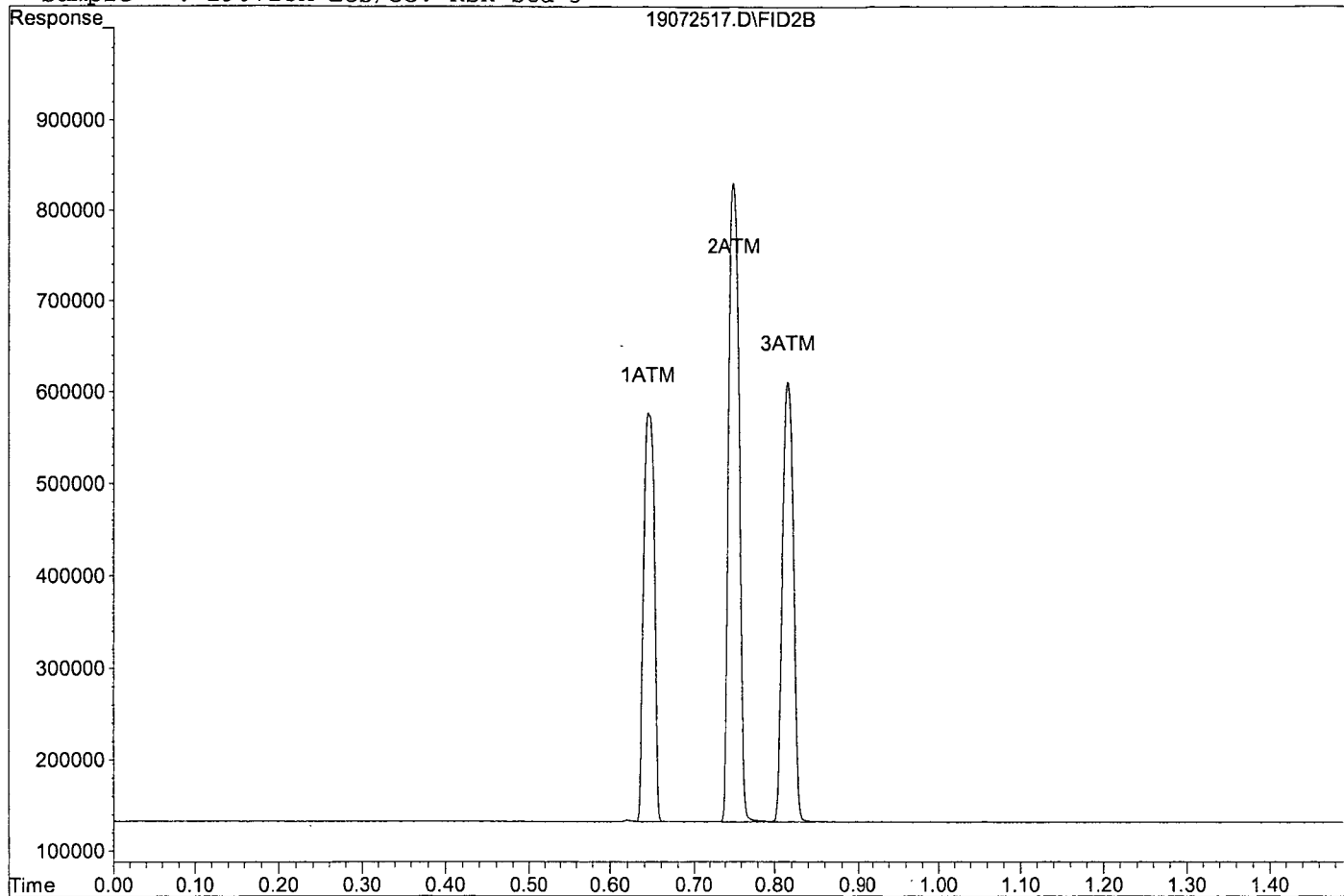
Compound	R.T.	Response	Conc Units

Target Compounds			
1) ATM Methane	0.64	445230	83.207 ppb
2) ATM Ethane	0.75	699618	153.633 ppb
3) ATM Ethene	0.82	478533	124.007 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19072517.D
Sample : 190725A LCS/CCV RSK Std 5



Data File : G:\ROCKY\DATA\190618RS\19072518.D Vial: 4
 Acq On : 25 Jul 19 14:03 Operator: cmm
 Sample : 190725A LCSD RSK Std 5 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 25 14:06 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Thu Jul 25 15:11:21 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

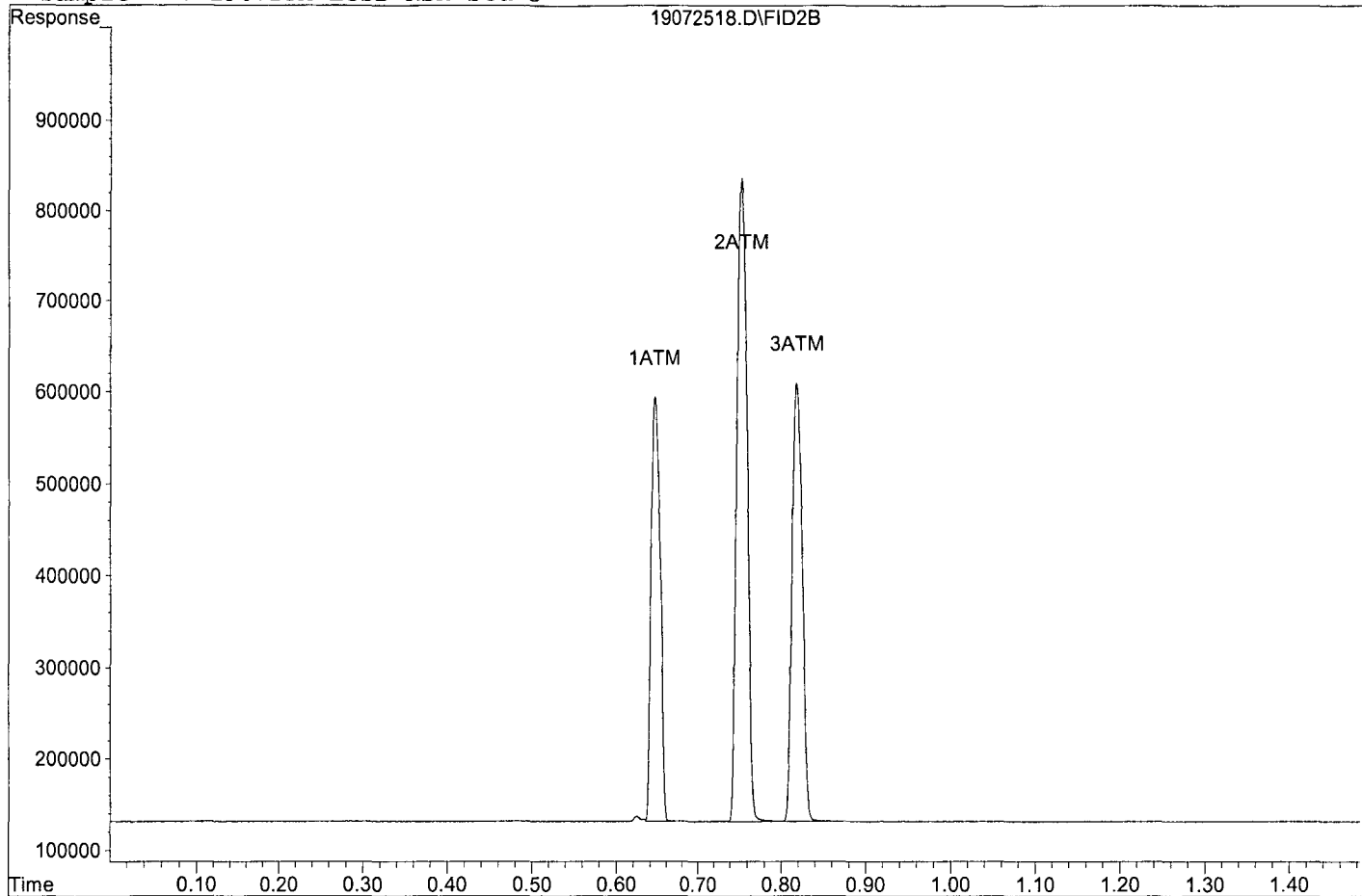
Target Compounds			
1) ATM Methane	0.65	462467	86.455 ppb
2) ATM Ethane	0.75	703944	154.618 ppb
3) ATM Ethene	0.82	477917	123.838 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19072518.D

Sample : 190725A LCSD RSK Std 5



Data File : G:\ROCKY\DATA\190618RS\19072523.D Vial: 9
 Acq On : 25 Jul 19 14:26 Operator: GA
 Sample : AZ95189W04 MS RSK STD 5 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 25 14:29 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Thu Jul 25 14:06:07 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

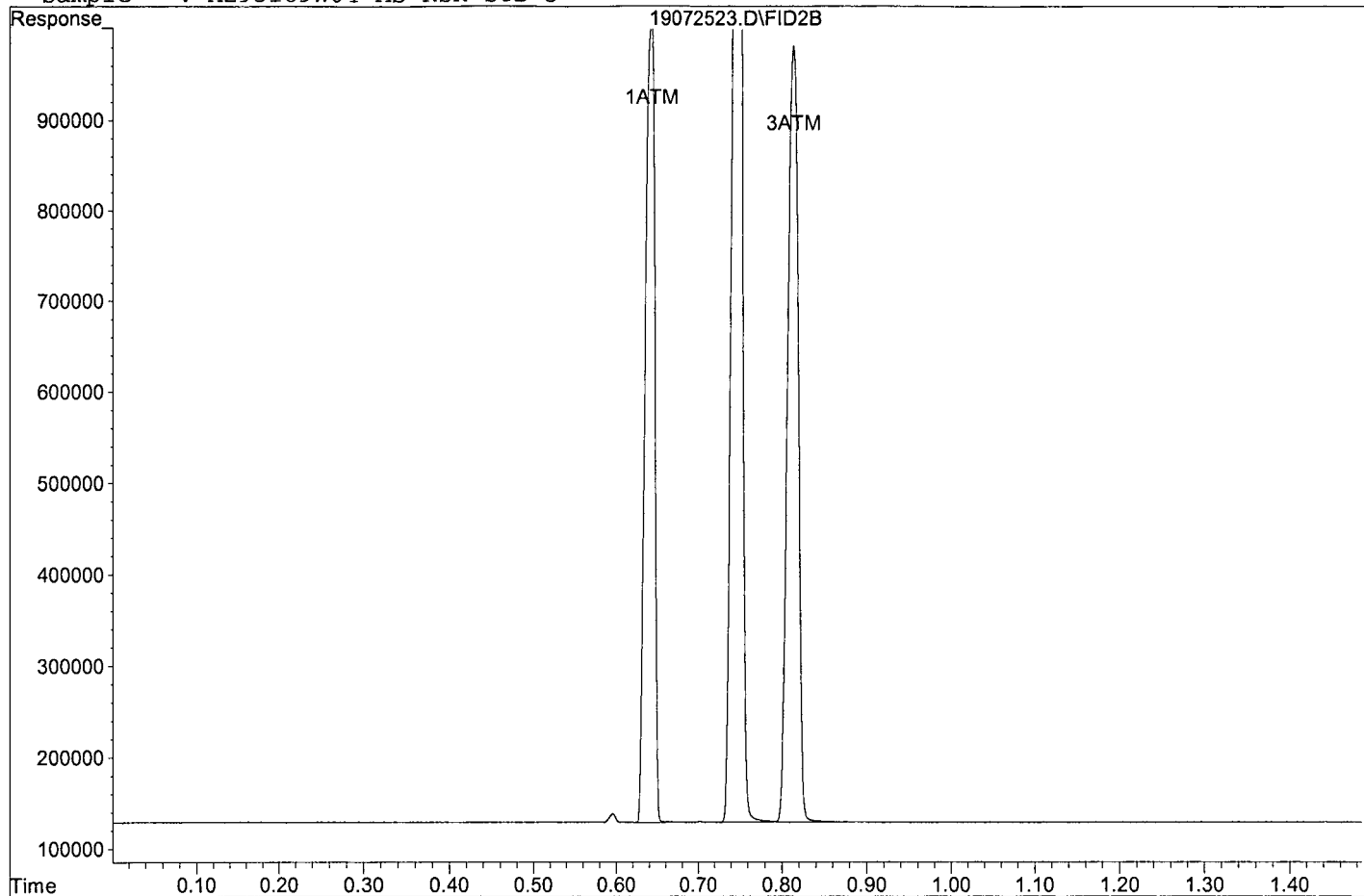
Target Compounds			
1) ATM Methane	0.64	885139	166.097 ppb
2) ATM Ethane	0.75	1325162	296.089 ppb
3) ATM Ethene	0.81	852910	227.074 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19072523.D

Sample : AZ95189W04 MS RSK STD 5



Data File : G:\ROCKY\DATA\190618RS\19072524.D Vial: 10
 Acq On : 25 Jul 19 14:32 Operator: GA
 Sample : AZ95189W07 MSD RSK STD 5 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 25 14:35 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Thu Jul 25 14:06:07 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

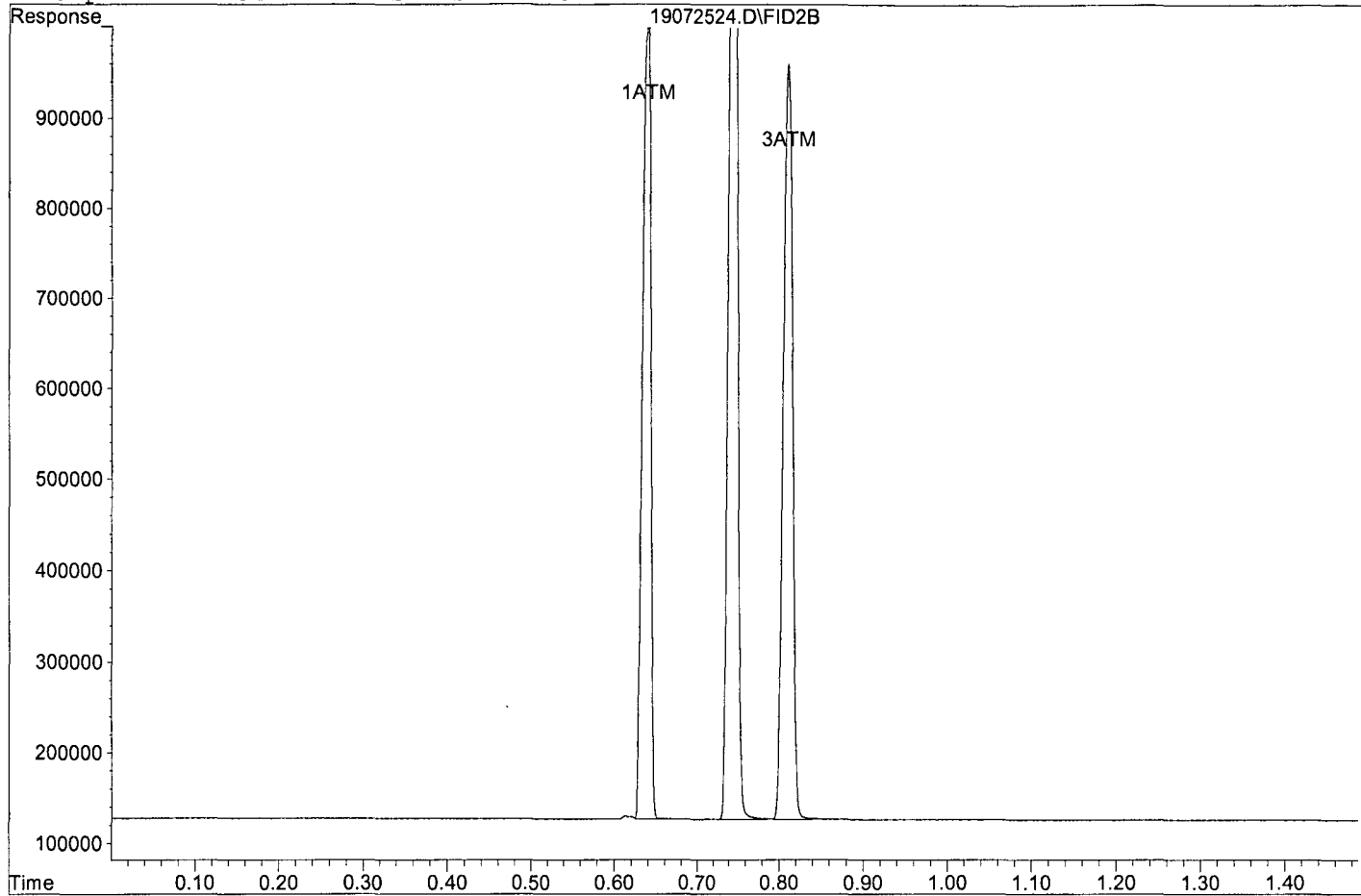
Target Compounds			
1) ATM Methane	0.64	890554	167.117 ppb
2) ATM Ethane	0.75	1308516	292.298 ppb
3) ATM Ethene	0.81	833708	221.787 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19072524.D

Sample : AZ95189W07 MSD RSK STD 5



Primary Source Stock Standard 10,000ppmV

Manufacturer Exp Date 9-21-21

RSK Gas Mix (Scott Specialty Gas) Cat.# 0104E40028'4, Lot # 160-401303031-39773

1% Gas Concentration Moles = 10,000ppmV Methane, Ethane, Ethene

RSK Calibration Curve (prepared in 1.0 L Tedlar Bags at room temp)**Expires 07/18/19****CMM 06/18/19**

Analyte	Conc Std 1 (1/2 = LOD) (ug/L)	Conc Std 2 (LOQ Chk) (ug/L)	Conc Std 3 (ug/L)	Conc Std 4 (ug/L)	Conc Std 5 (ug/L)	Conc Std 6 (ug/L)	Conc Std 7 (ug/L)
Methane (MW 16.04)	2.08	4.16	8.34	20.85	83.40	208.5	834.0
Ethane (MW 30.07)	3.91	7.81	15.6	39.09	156.35	390.9	1563.5
Ethene (MW 28.05)	3.65	7.30	14.6	36.46	145.84	364.6	1458.4
Stock Source	RSK Tank Lot #170PLU5SPC0 6L-35410	RSK Tank Lot #170PLU5SPC0 6L-35410	RSK Tank Lot #170PLU5SPC0 6L-35410	RSK Tank Lot #170PLU5SPC0 6L-35410	RSK Tank Lot #170PLU5SPC06L- 35410	RSK Tank Lot #170PLU5SPC0 6L-35410	RSK Tank Lot #170PLU5SPC0 6L-35410
Stock Conc (ppmv)	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV
Stock Aliquot (mL)	0.010	0.020	0.040	0.100	0.400	1.00	4.00
Final Volume P&T Water	32 mL	32 mL	32 mL	32 mL	32 mL	32 mL	32 mL

Second Source Stock Standard 10,000ppmV

Manufacturer Exp date 9-21-2021

RSK Gas Mix (Scott Specialty Gas) Cat.# 23452, Lot # 160-401303032-1-39774

1% Gas Concentration Moles = 10,000ppmV Methane, Ethane, Ethene

Second Source**Expires 06/19/19****CMM 06/18/19**

2.0mL of SS from tank into 980 mL Nitrogen

final conc: 13.3ug/L Methane, 25.0 ug/L Ethane, and 23.3 ug/L Ethene

CCV/LCS/LCSD**CMM 07/25/19**

Spike 0.400mL of 10,000ppmV into 32mL DI water, with 8mL Nitrogen headspace

final conc: 83.40ug/L Methane, 156.35ug/L Ethane, and 145.84ug/L Ethene

AZ95189W08 MS/MSD**CMM 07/25/19**

Spike 0.400mL of 10,000ppmV into 32mL DI water, with 8mL Nitrogen headspace

final conc: 83.40ug/L Methane, 156.35ug/L Ethane, and 145.84ug/L Ethene

Injection Log

Directory: G:\ROCKY\DATA\190618RS\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	3	19061802.D	1	RSK Std 1 06/18/19	125 uL from Std 3	18 Jun 19 12:33
2	4	19061803.D	1	RSK Std 2 06/18/19	250 uL from Std 3	18 Jun 19 12:36
3	5	19061804.D	1	RSK Std 3 06/18/19		18 Jun 19 12:39
4	6	19061805.D	1	RSK Std 4 06/18/19		18 Jun 19 12:42
5	7	19061806.D	1	RSK Std 5 06/18/19		18 Jun 19 12:44
6	8	19061807.D	1	RSK Std 6 06/18/19		18 Jun 19 12:47
7	9	19061808.D	1	RSK Std 7 06/18/19		18 Jun 19 12:49
8	10	19061809.D	1	SS RSK Std 5 06/18/19		18 Jun 19 12:52
9	3	19072517.D	1	190725A LCS/CCV RSK Std 5		25 Jul 19 14:00
10	4	19072518.D	1	190725A LCSD RSK Std 5		25 Jul 19 14:03
11	5	19072519.D	1	190725A BLK		25 Jul 19 14:08
12	6	19072520.D	1	AZ95186W04		25 Jul 19 14:14
13	7	19072521.D	1	AZ95187W04		25 Jul 19 14:19
14	8	19072522.D	1	AZ95188W04		25 Jul 19 14:22
15	9	19072523.D	1	AZ95189W07 MS RSK STD 5		25 Jul 19 14:26
16	10	19072524.D	1	AZ95189W07 MSD RSK STD 5		25 Jul 19 14:32
17	11	19072525.D	1	AZ95189W08		25 Jul 19 14:36
18	19	19072533.D	1	Ending CCV RSK Std 5 07/25/19		25 Jul 19 15:07

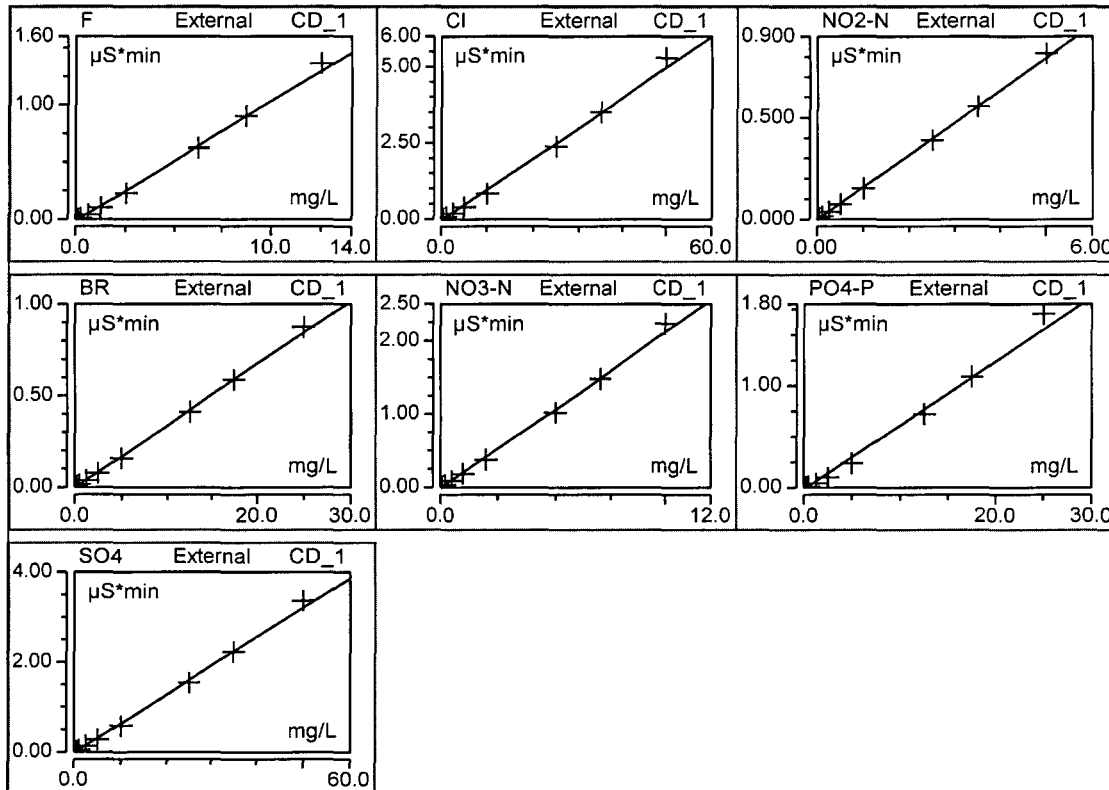
INORGANIC ANALYSIS
Calibration Data

Calibration Batch Report

Sequence:	190621	Injection Volume:	25.00
Instrument Method:	Anlons IM	Operator:	chemist_wetlab
Inj. Date / Time:	21-Jun-2019 / 13:17	Run Time:	5

Calibration Summary							
Peak Name	Eval.Type	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff.Det. %
F	Area	Lin, WithOffset, 1/A	8.000	-0.014	0.105	0.000	99.6120
Cl	Area	Lin, WithOffset, 1/A	8.000	-0.025	0.100	0.000	99.4211
NO2-N	Area	Lin, WithOffset, 1/A	8.000	-0.001	0.159	0.000	99.9168
BR	Area	Lin, WithOffset, 1/A	8.000	-0.002	0.034	0.000	99.8742
NO3-N	Area	Lin, WithOffset, 1/A	8.000	-0.007	0.213	0.000	99.7040
PO4-P	Area	Lin, WithOffset, 1/A	8.000	-0.017	0.063	0.000	98.5267
SO4	Area	Lin, WithOffset, 1/A	8.000	-0.011	0.065	0.000	99.7471

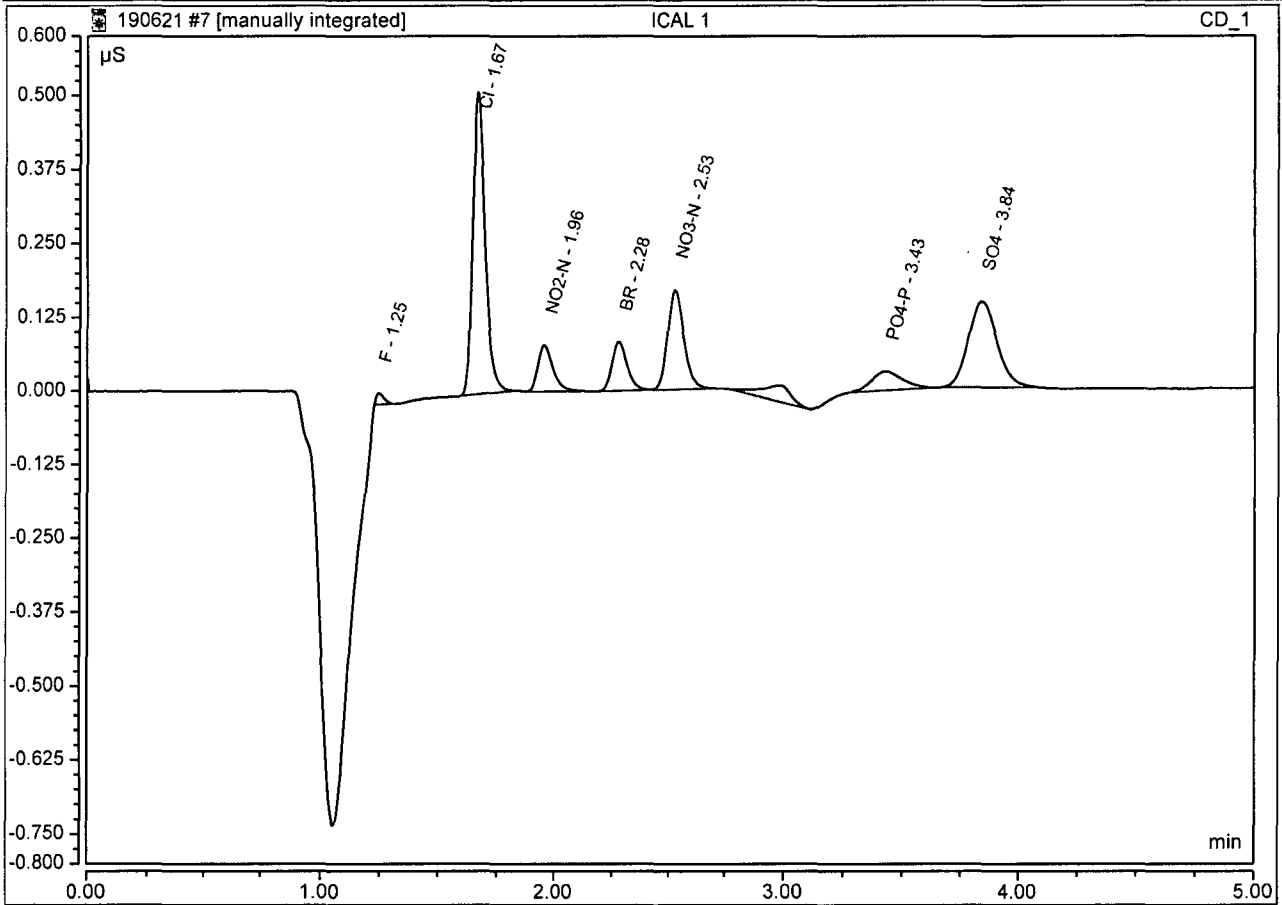
Injection Name	Amount mg/L CD_1 F	Amount mg/L CD_1 Cl	Amount mg/L CD_1 NO2-N	Amount mg/L CD_1 BR	Amount mg/L CD_1 NO3-N	Amount mg/L CD_1 PO4-P	Amount mg/L CD_1 SO4
ICAL 1	0.145	0.5595	0.0460	0.2312	0.0993	0.3533	0.4842
ICAL 2	0.226	1.0082	0.0995	0.5073	0.2047	0.4616	1.0116
ICAL 3	0.519	2.1596	0.2366	1.1771	0.4584	0.8893	2.3703
ICAL 4	1.100	4.1824	0.4734	2.3446	0.8995	1.8491	4.5389
ICAL 5	2.297	8.6329	0.9558	4.7267	1.8185	4.0667	9.1402
ICAL 6	6.074	24.0174	2.4543	12.1924	4.8129	11.7607	24.1124
ICAL 7	8.736	35.2352	3.4898	17.4066	6.9788	17.6226	34.8377
ICAL 8	13.128	53.1049	5.1346	25.8642	10.5081	27.4465	52.4046



Peak Integration Report

Sample Name:		ICAL 1			Inj. Vol.:		25uL		
Injection Type:		Calibration Standard			Dilution Factor:		1.00		
Program:		Anlon APM 190621A			Operator:		chemlst_wetlab		
Inj. Date / Time:		21-Jun-2019 / 12:25			Run Time:		5.00		

No.	Time (min)	Peak Name	Peak Type	Area (µS*min)	Height (µS)	Amount	Spike Level	Recovery
	min			µS*min	µS	mg/L	mg/L	
1	1.25	F	BMB*	0.001	0.019	0.14	0.1	144.6%
2	1.67	Cl	BMB	0.031	0.511	0.56	0.4	139.9%
3	1.96	NO2-N	BMB	0.006	0.079	0.05	0.04	115.1%
4	2.28	BR	BMB	0.006	0.084	0.23	0.2	115.6%
5	2.53	NO3-N	BMB	0.014	0.169	0.10	0.08	124.1%
7	3.43	PO4-P	BMB*	0.005	0.032	0.35	0.2	176.7%
8	3.84	SO4	BMB	0.021	0.146	0.48	0.4	121.0%

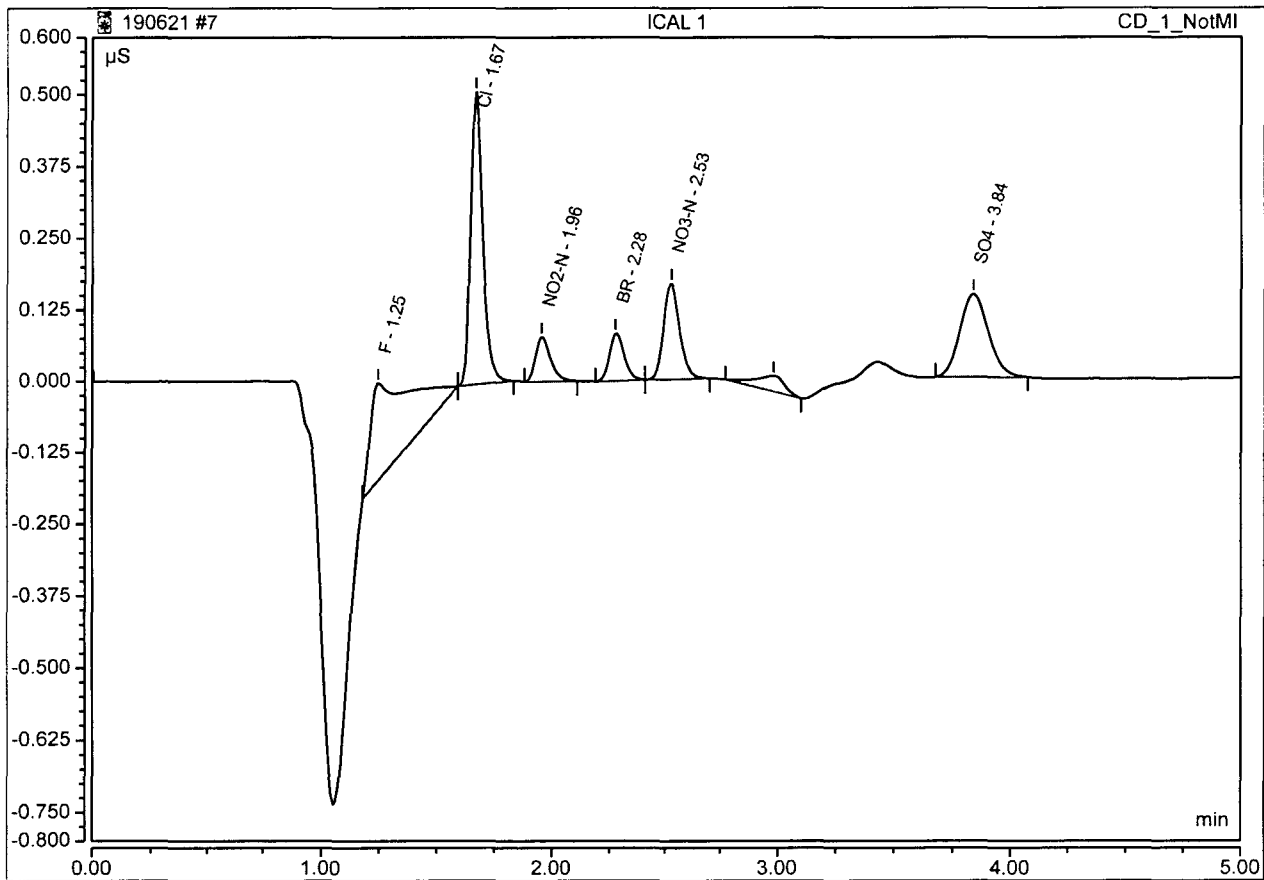


PO4 MI5 F MI1 190621 TH HH

Not Manipulated Peak Integration Report

Sample Name:	ICAL 1	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Program:	Anlon APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	21-Jun-2019 / 12:25	Run Time:	5.00

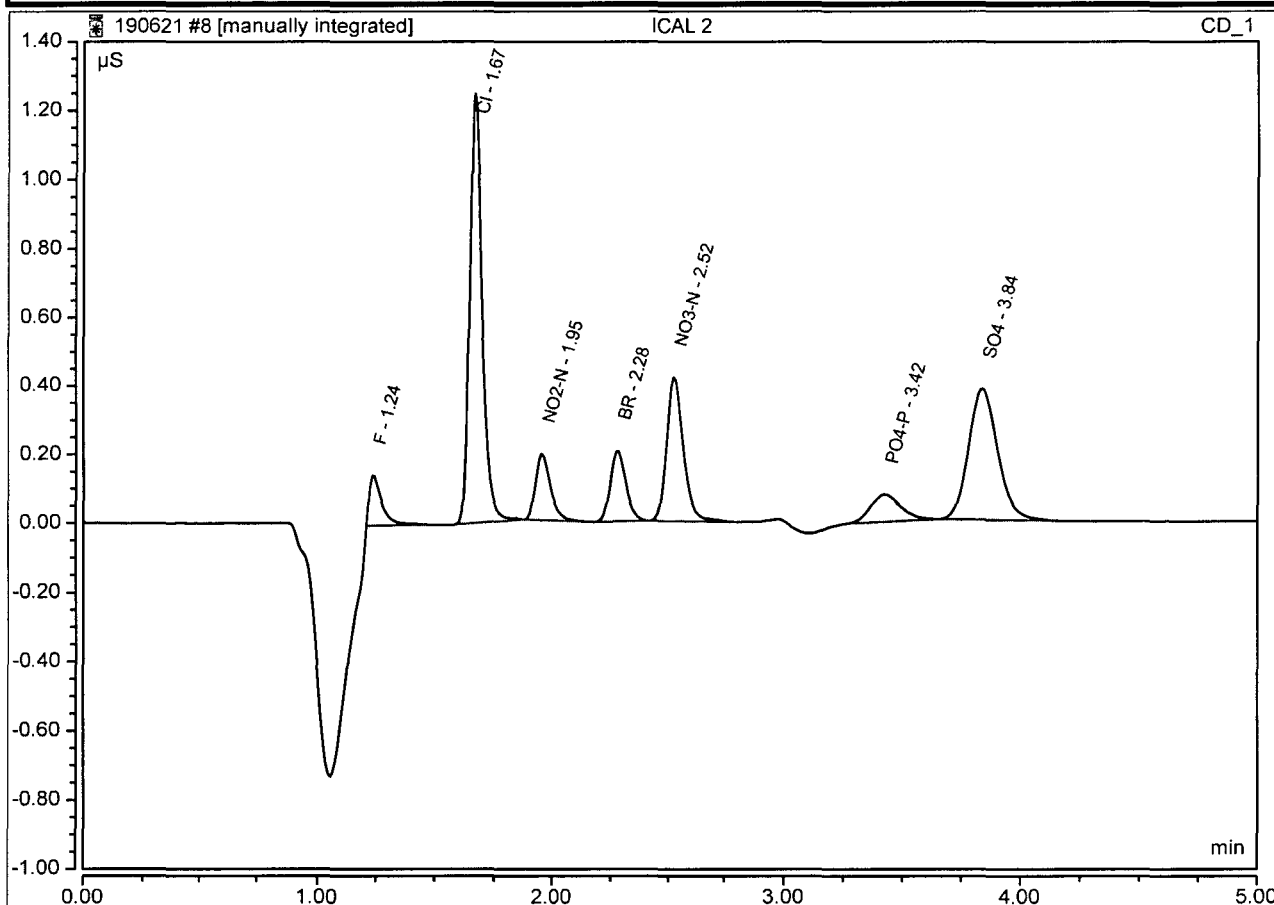
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount mg/L
1	1.25	F	BMB*	0.034	0.172	0.1067
2	1.67	Cl	BMB	0.031	0.511	0.5595
3	1.96	NO ₂ -N	BMB	0.006	0.079	0.0460
4	2.28	BR	BMB	0.006	0.084	0.2312
5	2.53	NO ₃ -N	BMB	0.014	0.169	0.0993
7	n.a.	PO ₄ -P	BMB*	n.a.	n.a.	n.a.
8	3.84	SO ₄	BMB	0.021	0.146	0.4842



Peak Integration Report

Sample Name:		ICAL 2			Inj. Vol.:		25uL		
Injection Type:		Calibration Standard			Dilution Factor:		1.00		
Program:		Anion APM 190621A			Operator:		chemist_wetlab		
Inj. Date / Time:		21-Jun-2019 / 12:32			Run Time:		5.00		

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.24	F	BMB*	0.009	0.148	0.23	0.25	90.4%
2	1.67	Cl	BMB	0.076	1.250	1.01	1	100.8%
3	1.95	NO2-N	BMB	0.014	0.194	0.10	0.1	99.5%
4	2.28	BR	BMB	0.016	0.207	0.51	0.5	101.5%
5	2.52	NO3-N	BMB	0.037	0.422	0.20	0.2	102.3%
6	3.42	PO4-P	BMB	0.012	0.079	0.46	0.5	92.3%
7	3.84	SO4	BMB	0.055	0.382	1.01	1	101.2%

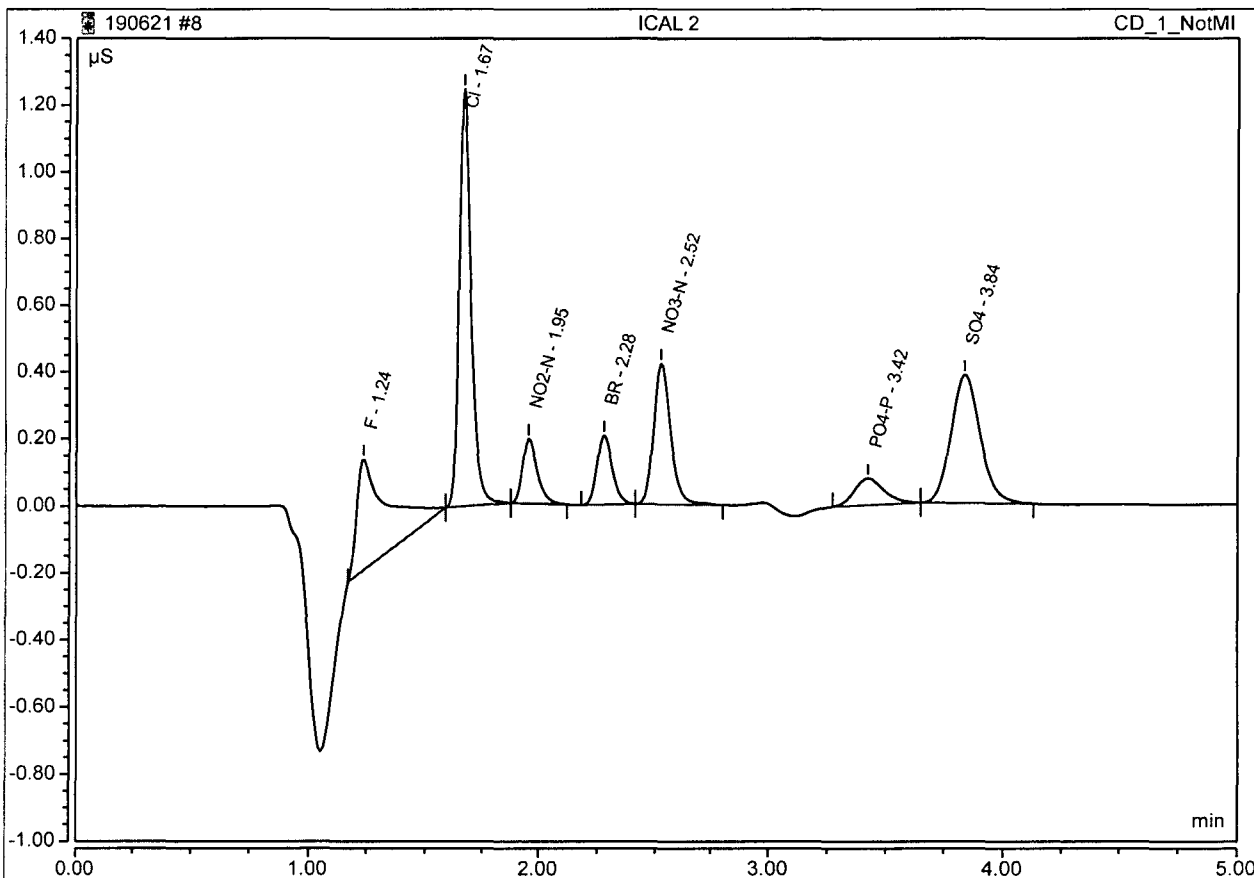


F MI1 190621 TH HH

Not Manipulated Peak Integration Report

Sample Name:	ICAL 2	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Program:	Anlon APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	21-Jun-2019 / 12:32	Run Time:	5.00

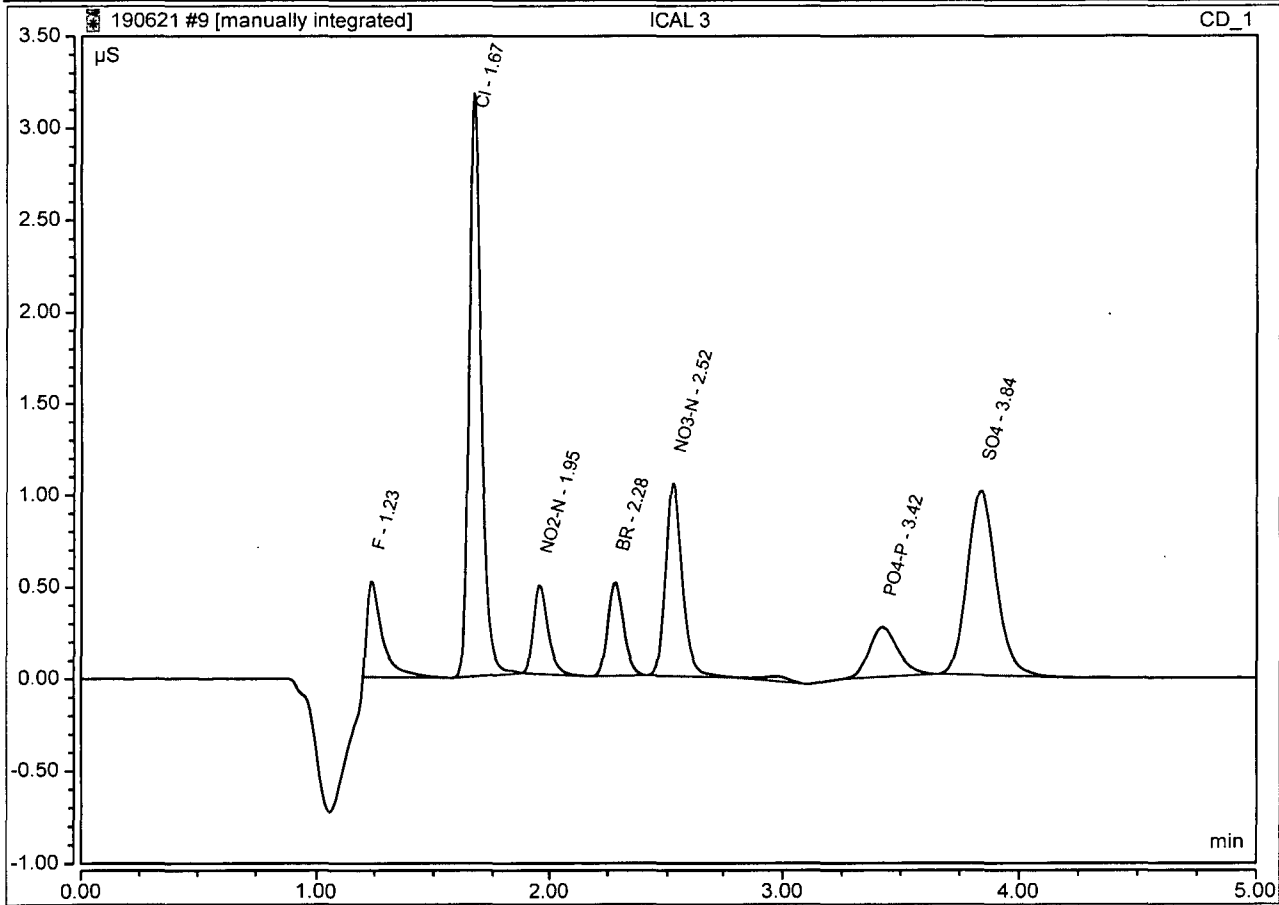
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount mg/L
1	1.24	F	BMB*	0.050	0.332	0.2532
2	1.67	Cl	BMB	0.076	1.250	1.0082
3	1.95	NO ₂ -N	BMB	0.014	0.194	0.0995
4	2.28	BR	BMB	0.016	0.207	0.5073
5	2.52	NO ₃ -N	BMB	0.037	0.422	0.2047
6	3.42	PO ₄ -P	BMB	0.012	0.079	0.6963
7	3.84	SO ₄	BMB	0.055	0.382	1.0116



Peak Integration Report

Sample Name:		ICAL 3			Inj. Vol.:		25uL		
Injection Type:		Calibration Standard			Dilution Factor:		1.00		
Program:		Anion APM 190621A			Operator:		chemist_wetlab		
Inj. Date / Time:		21-Jun-2019 / 12:40			Run Time:		5.00		

No.	Time (min)	Peak Name	Peak Type	Area (µS*min)	Height (µS)	Amount	Spike Level	Recovery
	min			µS*min	µS	mg/L	mg/L	
1	1.23	F	BMB*	0.040	0.526	0.52	0.625	83.1%
2	1.67	Cl	BMB	0.192	3.176	2.16	2.5	86.4%
3	1.95	NO2-N	BMB	0.036	0.486	0.24	0.25	94.6%
4	2.28	BR	BMB	0.038	0.511	1.18	1.25	94.2%
5	2.52	NO3-N	BMB	0.091	1.050	0.46	0.5	91.7%
7	3.42	PO4-P	BMB*	0.039	0.270	0.89	1.25	71.1%
8	3.84	SO4	BMB	0.143	1.002	2.37	2.5	94.8%

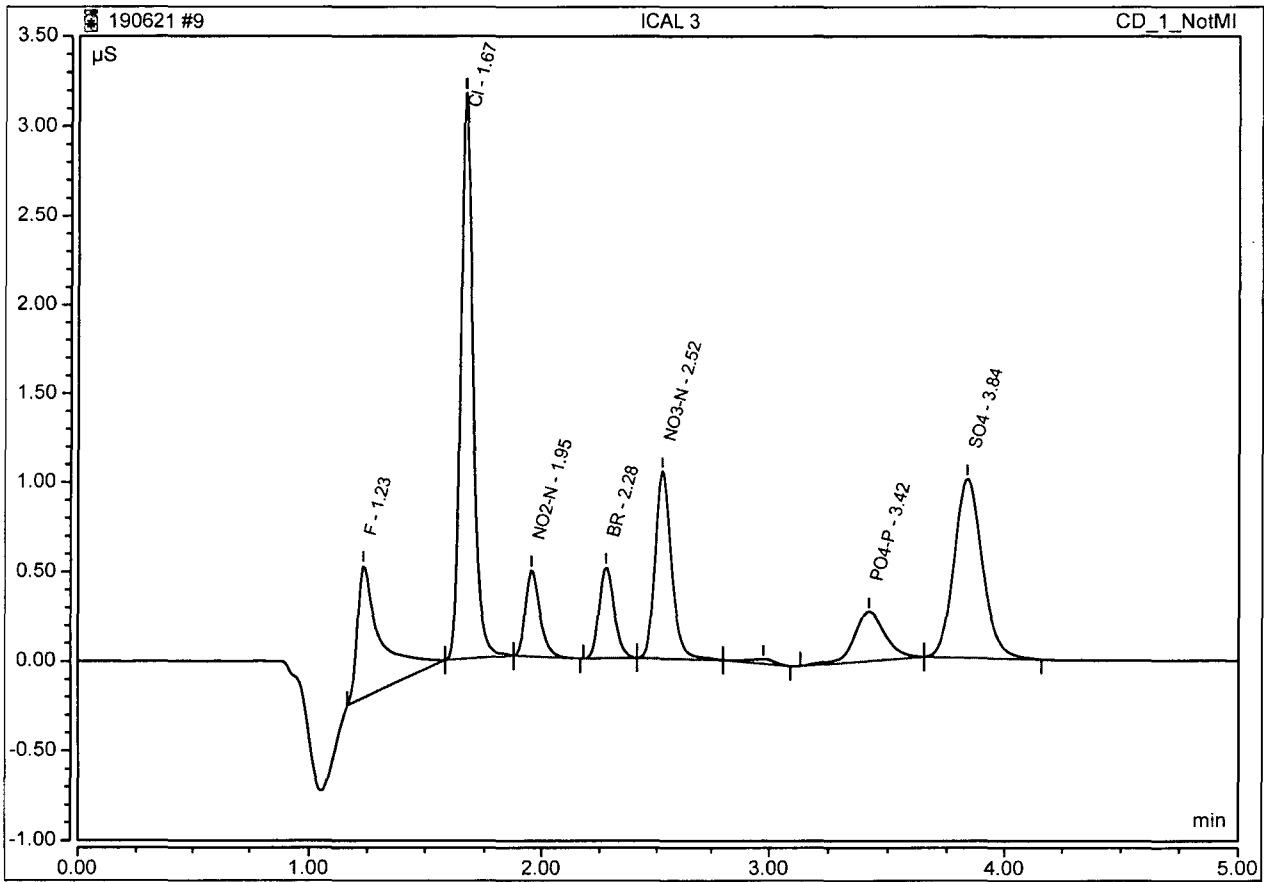


F PO4 MI1 190621 TH HH

Not Manipulated Peak Integration Report

Sample Name:	ICAL 3	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Program:	Anion APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	21-Jun-2019 / 12:40	Run Time:	5.00

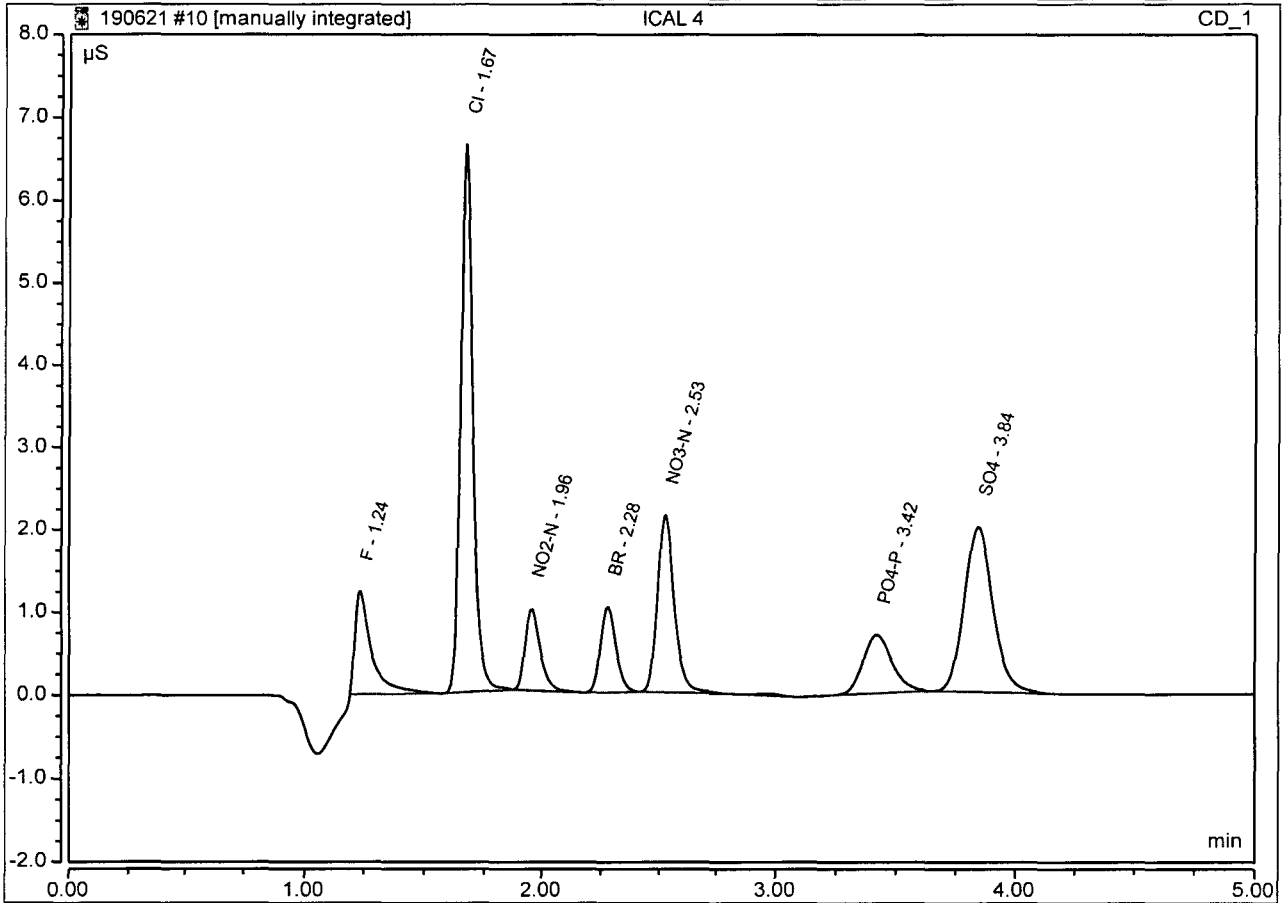
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount mg/L
1	1.23	F	BMB*	0.088	0.741	0.5926
2	1.67	Cl	BMB	0.192	3.176	2.1596
3	1.95	NO ₂ -N	BMB	0.036	0.486	0.2366
4	2.28	BR	BMB	0.038	0.511	1.1771
5	2.52	NO ₃ -N	BMB	0.091	1.050	0.4584
7	3.42	PO ₄ -P	BMB*	0.042	0.278	1.1673
8	3.84	SO ₄	BMB	0.143	1.002	2.3703



Peak Integration Report

Sample Name:		ICAL 4			Inj. Vol.:		25uL		
Injection Type:		Callbration Standard			Dilution Factor:		1.00		
Program:		Anlon APM 190621A			Operator:		chemist_wetlab		
Inj. Date / Time:		21-Jun-2019 / 12:47			Run Time:		5.00		

No.	Time (min)	Peak Name	Peak Type	Area (µS*min)	Height (µS)	Amount	Spike Level	Recovery
	min			µS*min	µS	mg/L	mg/L	
1	1.24	F	BMB*	0.101	1.241	1.10	1.25	88.0%
2	1.67	Cl	BMB	0.395	6.635	4.18	5	83.6%
3	1.96	NO2-N	BMB	0.074	0.987	0.47	0.5	94.7%
4	2.28	BR	BMB	0.078	1.038	2.34	2.5	93.8%
5	2.53	NO3-N	BMB	0.185	2.143	0.90	1	89.9%
7	3.42	PO4-P	BMB	0.099	0.705	1.85	2.5	74.0%
8	3.84	SO4	BMB	0.283	1.998	4.54	5	90.8%

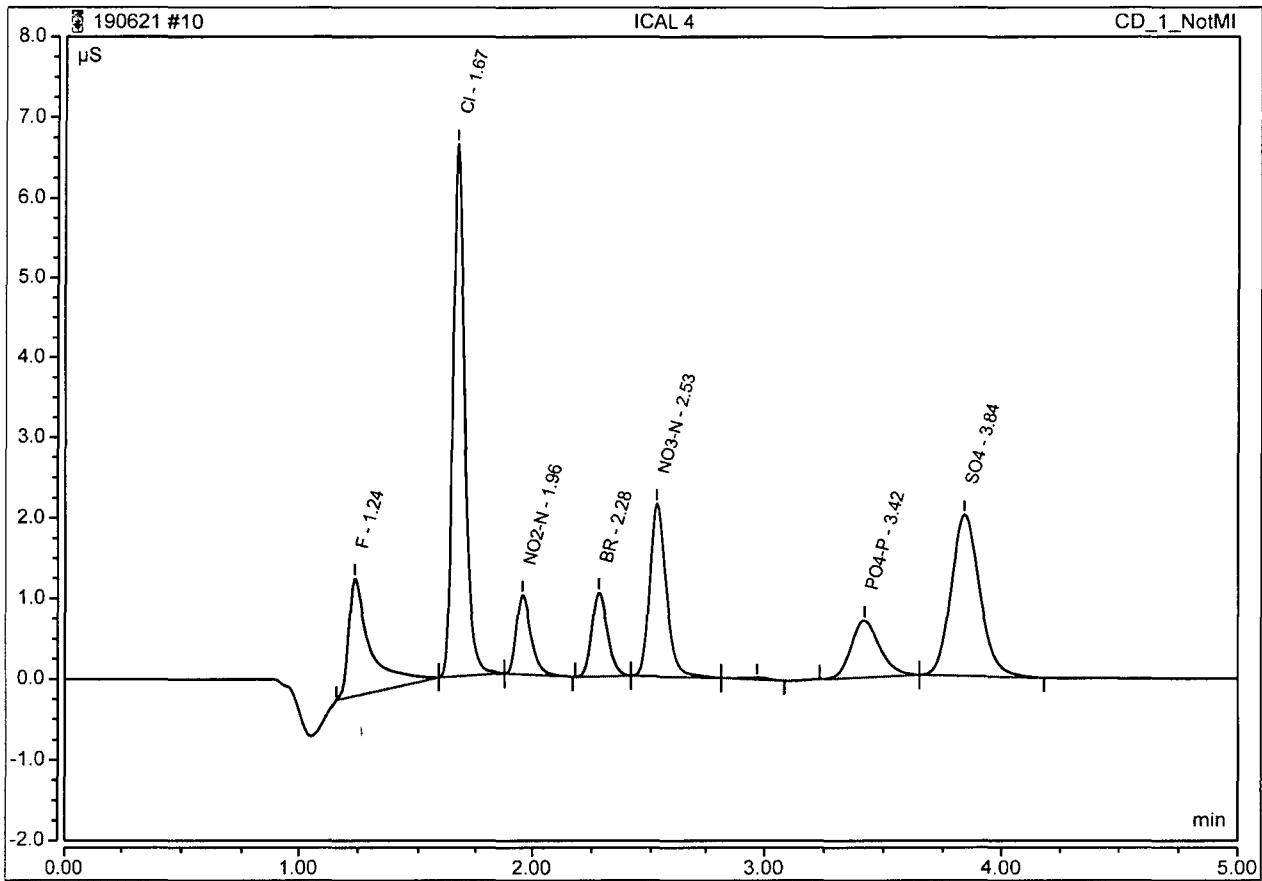


F MI1 190621 TH HH

Not Manipulated Peak Integration Report

Sample Name:	ICAL 4	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Program:	Anion APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	21-Jun-2019 / 12:47	Run Time:	5.00

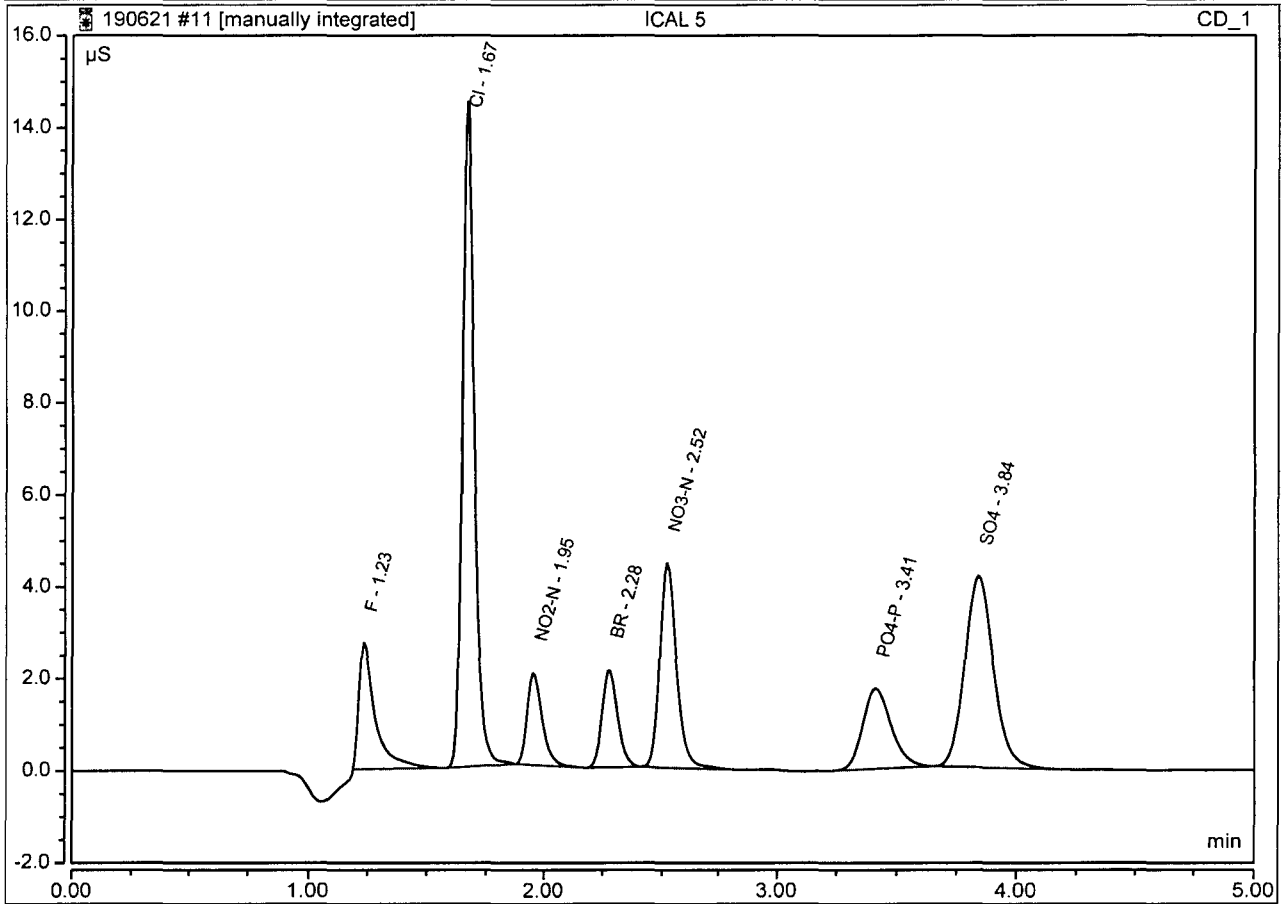
No.	Time min	Peak Name	Peak Type	Area uS*min	Height uS	Amount mg/L
1	1.24	F	BMB*	0.152	1.462	1.1655
2	1.67	Cl	BMB	0.395	6.635	4.1824
3	1.96	NO2-N	BMB	0.074	0.987	0.4734
4	2.28	BR	BMB	0.078	1.038	2.3446
5	2.53	NO3-N	BMB	0.185	2.143	0.8995
7	3.42	PO4-P	BMB	0.099	0.705	2.0486
8	3.84	SO4	BMB	0.283	1.998	4.5389



Peak Integration Report

Sample Name:		ICAL 5			Inj. Vol.:		25uL	
Injection Type:		Calibration Standard			Dilution Factor:		1.00	
Program:		Anlon APM 190621A			Operator:		chemist_wetlab	
Inj. Date / Time:		21-Jun-2019 / 12:54			Run Time:		5.00	

No.	Time (min)	Peak Name	Peak Type	Area (µS*min)	Height (µS)	Amount	Spike Level	Recovery
	min			µS*min	µS	mg/L	mg/L	
1	1.23	F	BMB*	0.227	2.752	2.30	2.5	91.9%
2	1.67	Cl	BMB	0.841	14.486	8.63	10	86.3%
3	1.95	NO2-N	BMB	0.151	2.011	0.96	1	95.6%
4	2.28	BR	BMB	0.159	2.125	4.73	5	94.5%
5	2.52	NO3-N	BMB	0.381	4.455	1.82	2	90.9%
6	3.41	PO4-P	BMB	0.238	1.739	4.07	5	81.3%
7	3.84	SO4	BMB	0.580	4.155	9.14	10	91.4%

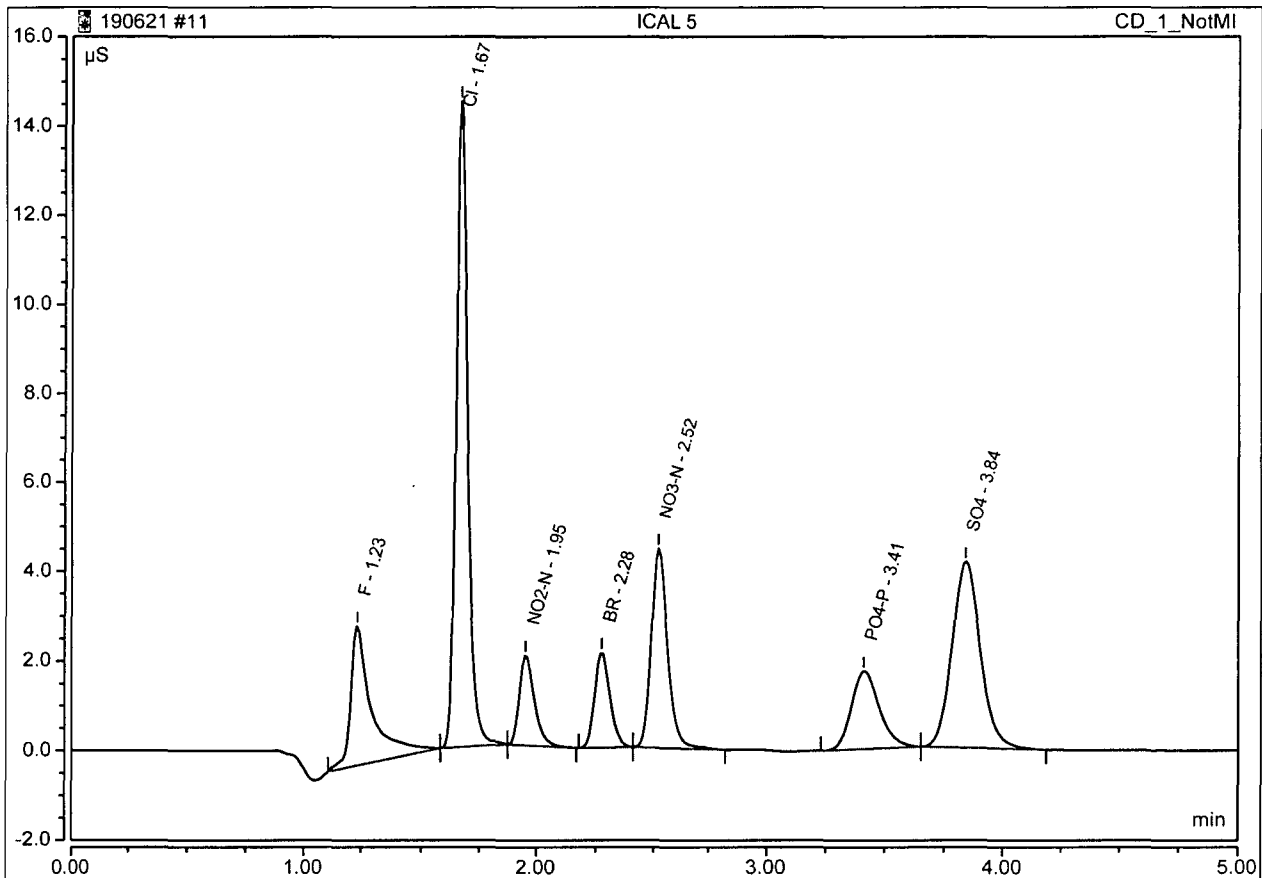


F MI1 190621 TH HH

Not Manipulated Peak Integration Report

Sample Name:	ICAL 5	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Program:	Anion APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	21-Jun-2019 / 12:54	Run Time:	5.00

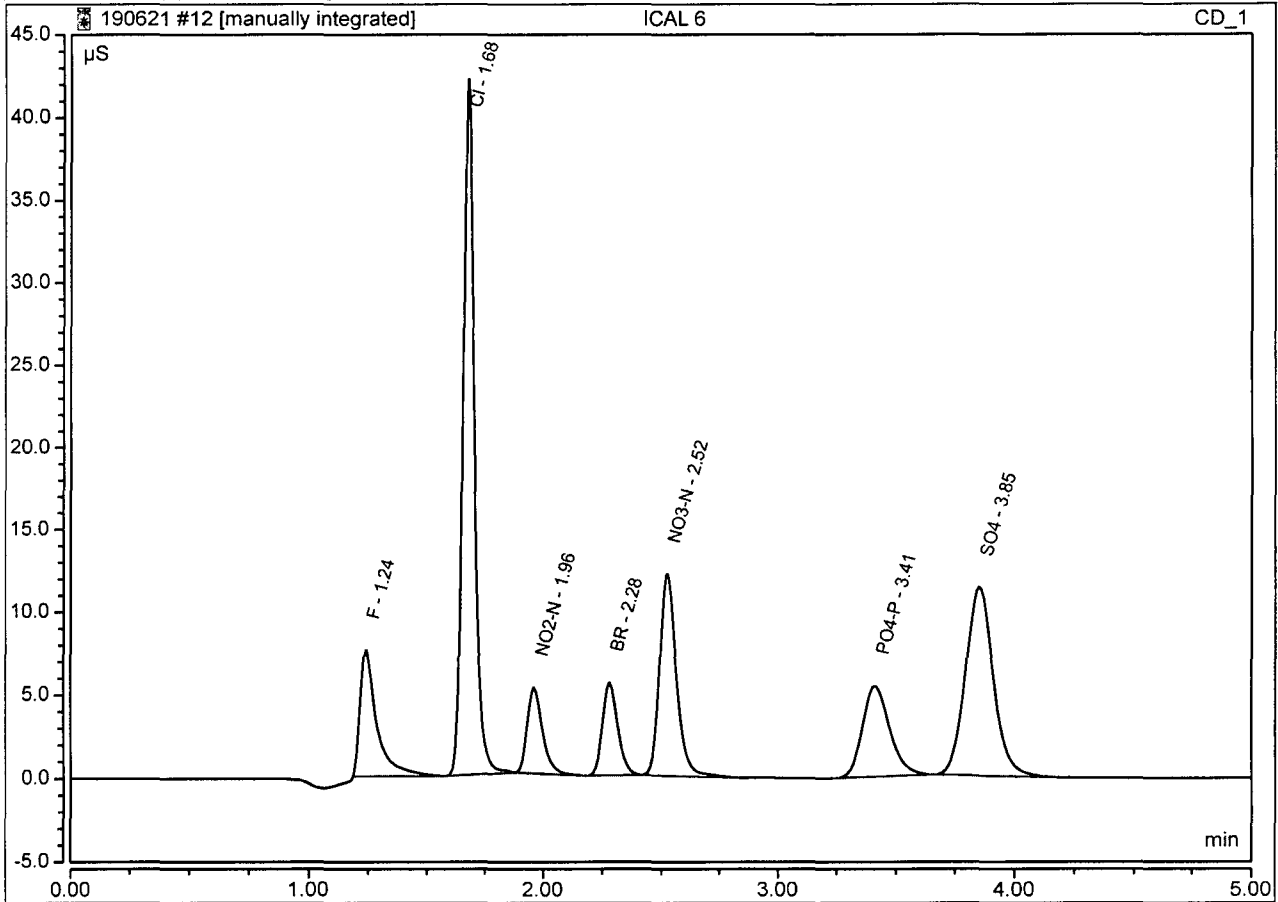
No.	Time min	Peak Name	Peak Type	Area uS*min	Height uS	Amount mg/L
1	1.23	F	BMB*	0.320	3.118	2.6656
2	1.67	Cl	BMB	0.841	14.486	8.6329
3	1.95	NO2-N	BMB	0.151	2.011	0.9558
4	2.28	BR	BMB	0.159	2.125	4.7267
5	2.52	NO3-N	BMB	0.381	4.455	1.8185
6	3.41	PO4-P	BMB	0.238	1.739	4.2100
7	3.84	SO4	BMB	0.580	4.155	9.1402



Peak Integration Report

Sample Name:		ICAL 6			Inj. Vol.:		25uL		
Injection Type:		Calibration Standard			Dilution Factor:		1.00		
Program:		Anion APM 190621A			Operator:		chemist_wetlab		
Inj. Date / Time:		21-Jun-2019 / 13:02			Run Time:		5.00		

No.	Time (min)	Peak Name	Peak Type	Area (uS*min)	Height (uS)	Amount	Spike Level	Recovery
	min			uS*min	uS	mg/L	mg/L	
1	1.24	F	BMB*	0.624	7.596	6.07	6.25	97.2%
2	1.68	Cl	BMB	2.385	42.138	24.02	25	96.1%
3	1.96	NO2-N	BMB	0.390	5.157	2.45	2.5	98.2%
4	2.28	BR	BMB	0.412	5.584	12.19	12.5	97.5%
5	2.52	NO3-N	BMB	1.020	12.155	4.81	5	96.3%
6	3.41	PO4-P	BMB	0.721	5.443	11.76	12.5	94.1%
7	3.85	SO4	BMB	1.547	11.354	24.11	25	96.4%

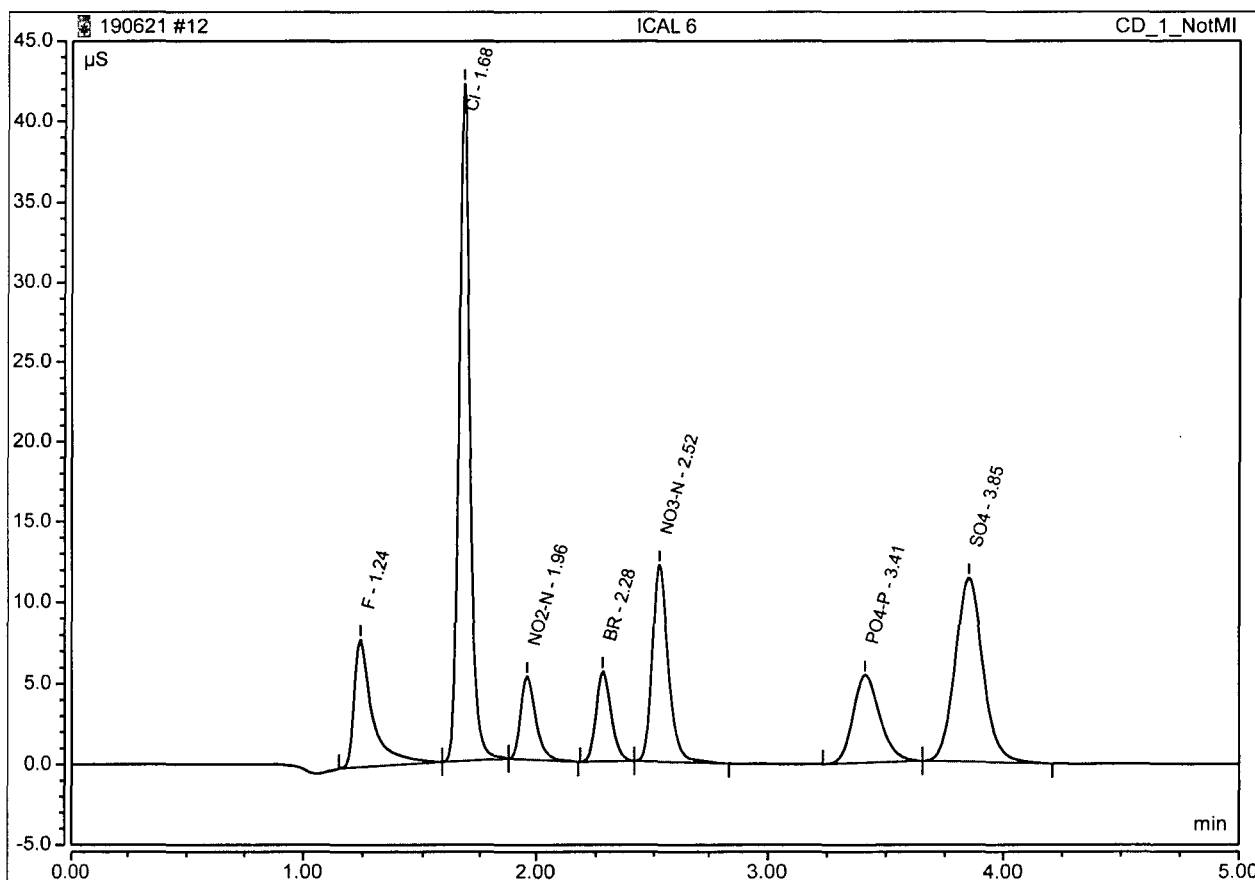


F MI1 190621 TH HH

Not Manipulated Peak Integration Report

Sample Name:	ICAL 6	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Program:	Anion APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	21-Jun-2019 / 13:02	Run Time:	5.00

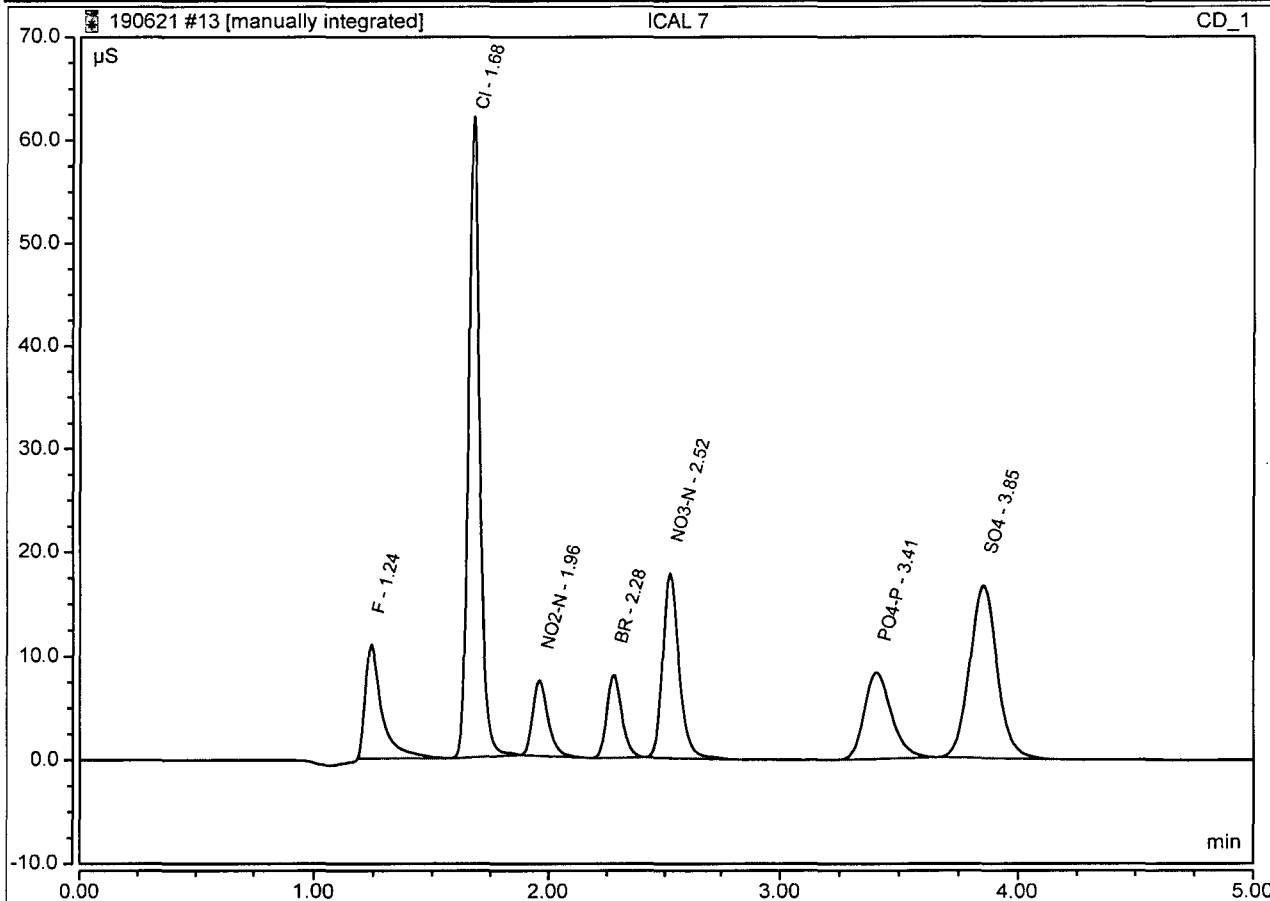
No.	Time min	Peak Name	Peak Type	Area uS*min	Height uS	Amount mg/L
1	1.24	F	BMB*	0.697	7.899	6.0273
2	1.68	Cl	BMB	2.385	42.138	24.0174
3	1.96	NO2-N	BMB	0.390	5.157	2.4543
4	2.28	BR	BMB	0.412	5.584	12.1924
5	2.52	NO3-N	BMB	1.020	12.155	4.8129
6	3.41	PO4-P	BMB	0.721	5.443	11.7089
7	3.85	SO4	BMB	1.547	11.354	24.1124



Peak Integration Report

Sample Name:		ICAL 7			Inj. Vol.:		25uL		
Injection Type:		Callbration Standard			Dilution Factor:		1.00		
Program:		Anlon APM 190621A			Operator:		chemist_wetlab		
Inj. Date / Time:		21-Jun-2019 / 13:09			Run Time:		5.00		

No.	Time (min)	Peak Name	Peak Type	Area (µS*min)	Height (µS)	Amount	Spike Level	Recovery
	min			µS*min	µS	mg/L	mg/L	
1	1.24	F	BMB*	0.904	10.992	8.74	8.75	99.8%
2	1.68	Cl	BMB	3.510	62.022	35.24	35	100.7%
3	1.96	NO2-N	BMB	0.555	7.290	3.49	3.5	99.7%
4	2.28	BR	BMB	0.589	8.045	17.41	17.5	99.5%
5	2.52	NO3-N	BMB	1.483	17.781	6.98	7	99.7%
6	3.41	PO4-P	BMB	1.090	8.337	17.62	17.5	100.7%
7	3.85	SO4	BMB	2.239	16.637	34.84	35	99.5%

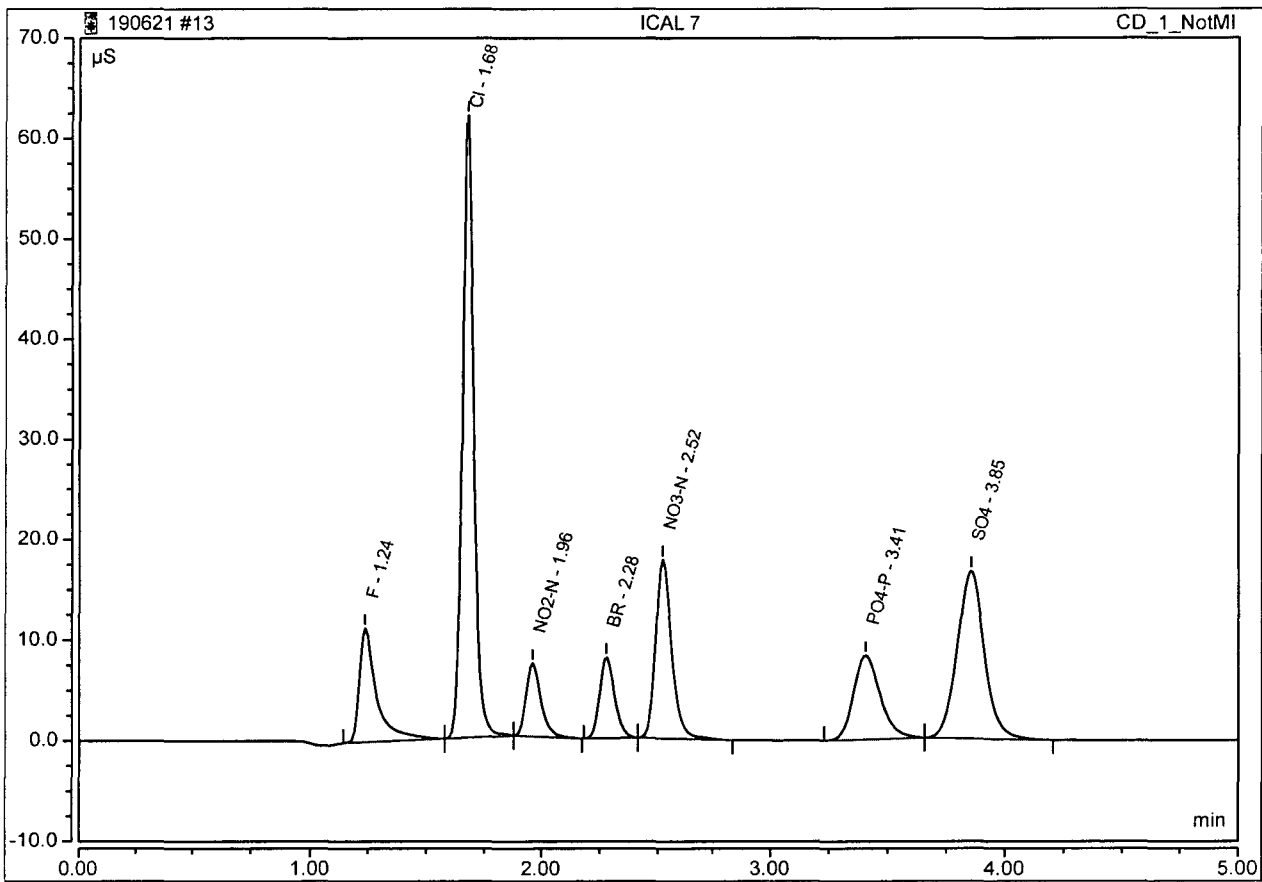


F MI1 190621 TH HH

Not Manipulated Peak Integration Report

Sample Name:	ICAL 7	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Program:	Anlon APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	21-Jun-2019 / 13:09	Run Time:	5.00

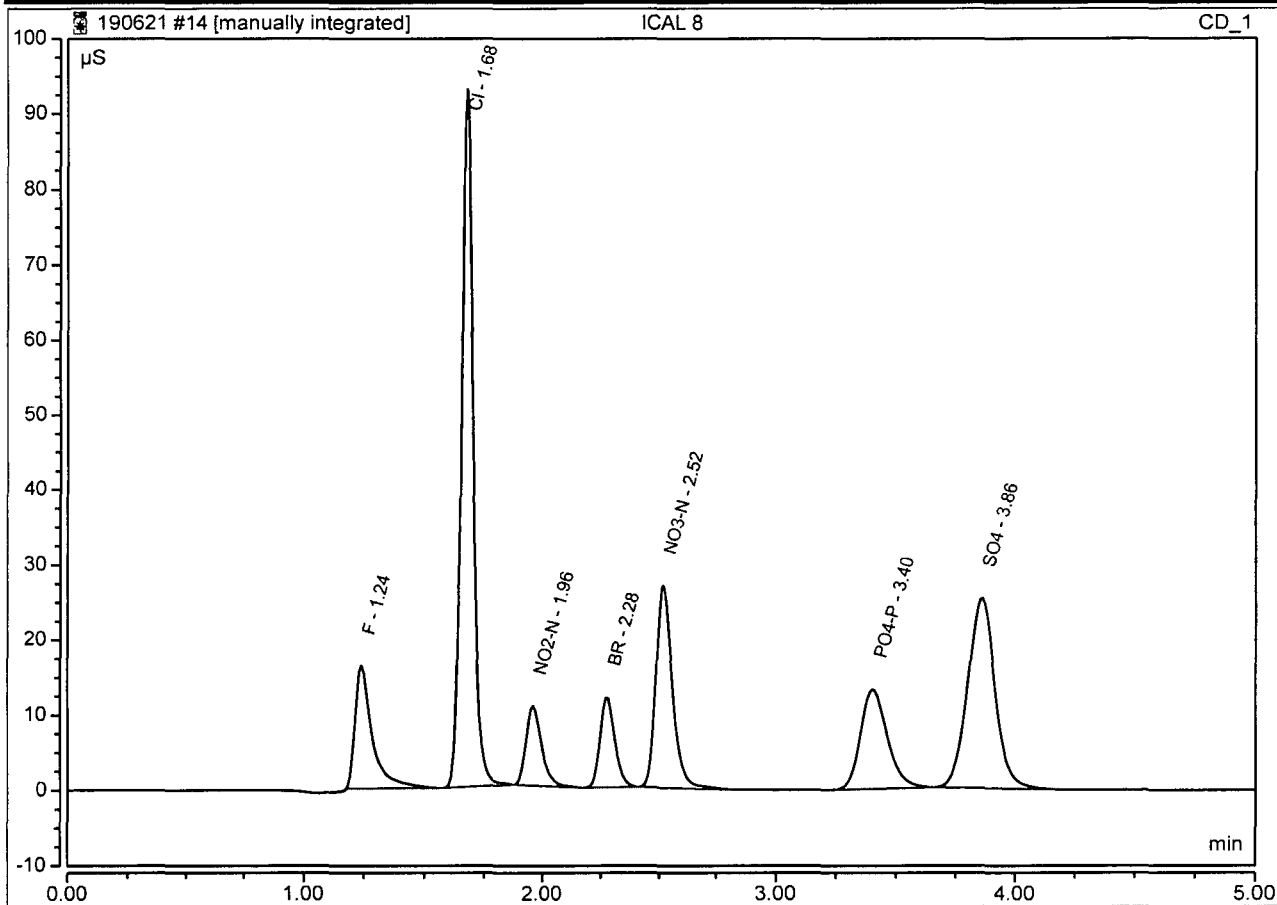
No.	Time min	Peak Name	Peak Type	Area uS*min	Height uS	Amount mg/L
1	1.24	F	BMB*	0.988	11.342	8.6292
2	1.68	Cl	BMB	3.510	62.022	35.2352
3	1.96	NO2-N	BMB	0.555	7.290	3.4898
4	2.28	BR	BMB	0.589	8.045	17.4066
5	2.52	NO3-N	BMB	1.483	17.781	6.9788
6	3.41	PO4-P	BMB	1.090	8.337	17.4221
7	3.85	SO4	BMB	2.239	16.637	34.8377



Peak Integration Report

Sample Name:		ICAL 8			Inj. Vol.:		25uL	
Injection Type:		Calibration Standard			Dilution Factor:		1.00	
Program:		Anton APM 190621A			Operator:		chemist_wetlab	
Inj. Date / Time:		21-Jun-2019 / 13:17			Run Time:		5.00	

No.	Time (min)	Peak Name	Peak Type	Area (µS*min)	Height (µS)	Amount	Spike Level	Recovery
	min			µS*min	µS	mg/L	mg/L	
1	1.24	F	BMB*	1.365	16.366	13.13	12.5	105.0%
2	1.68	Cl	BMB	5.304	92.893	53.10	50	106.2%
3	1.96	NO2-N	BMB	0.818	10.611	5.13	5	102.7%
4	2.28	BR	BMB	0.876	12.074	25.86	25	103.5%
5	2.52	NO3-N	BMB	2.236	26.898	10.51	10	105.1%
6	3.40	PO4-P	BMB	1.707	13.236	27.45	25	109.8%
7	3.86	SO4	BMB	3.374	25.310	52.40	50	104.8%

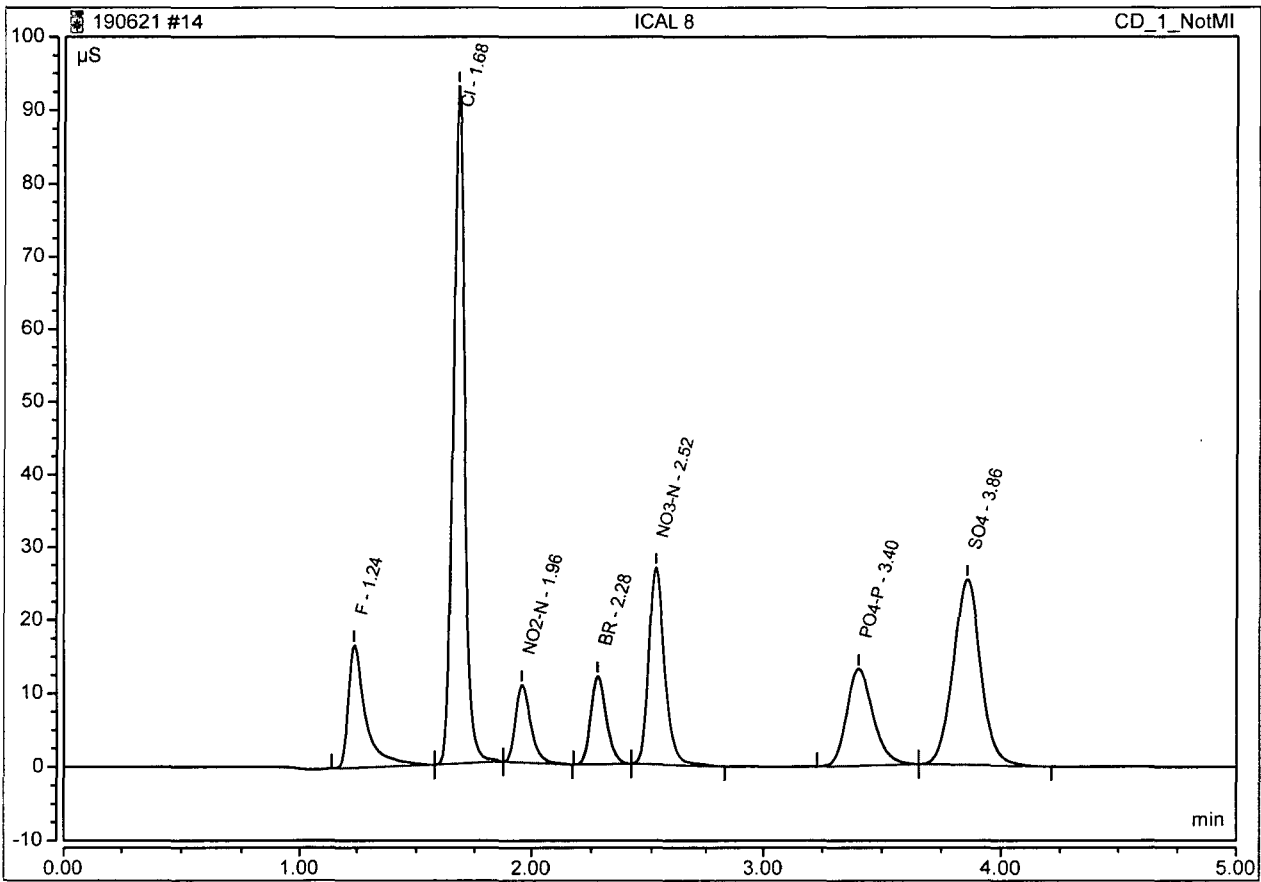


F MI1 190621 TH HH

Not Manipulated Peak Integration Report

Sample Name:	ICAL 8	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Program:	Anlon APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	21-Jun-2019 / 13:17	Run Time:	5.00

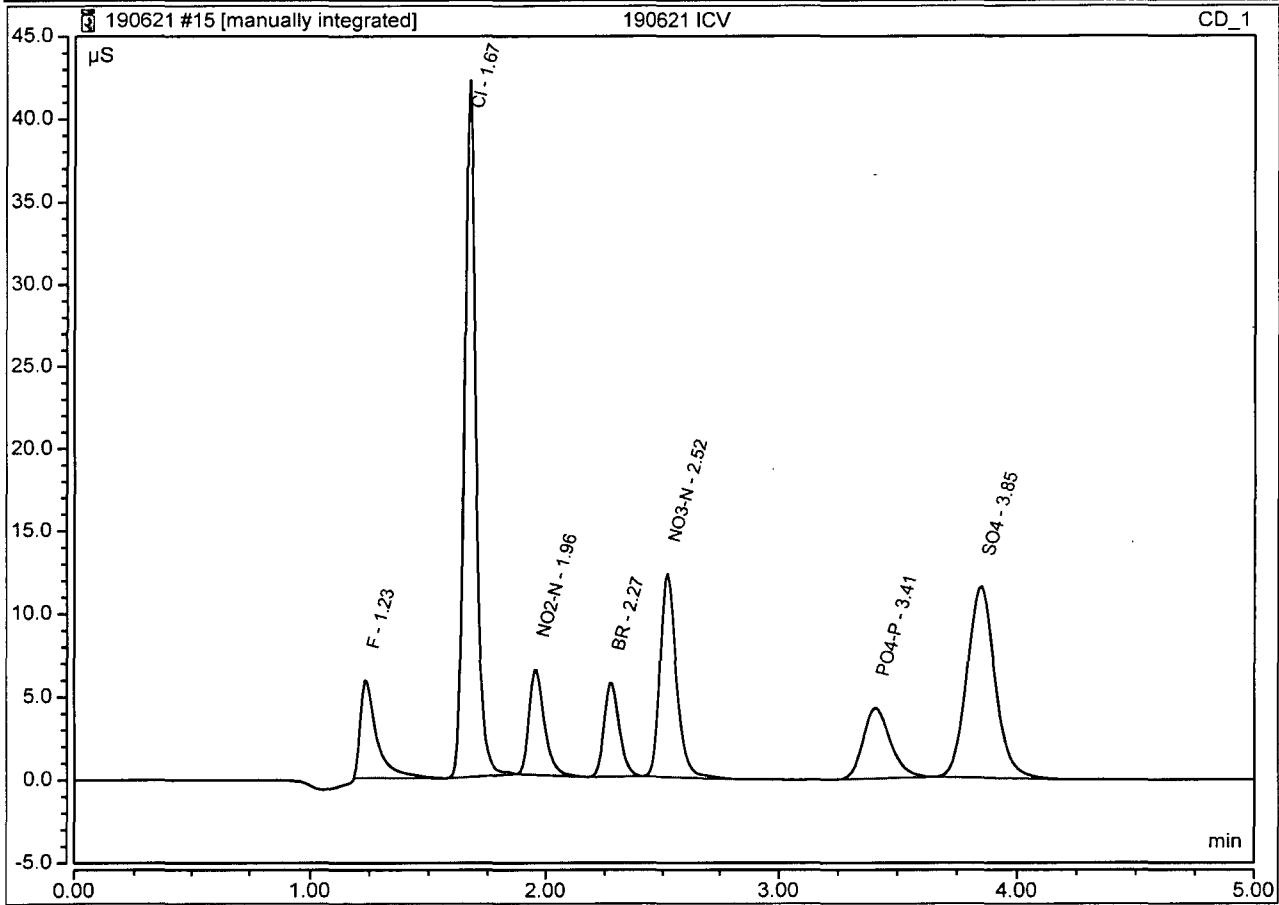
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount mg/L
1	1.24	F	BMB*	1.454	16.727	12.7849
2	1.68	Cl	BMB	5.304	92.893	53.1049
3	1.96	NO2-N	BMB	0.818	10.611	5.1346
4	2.28	BR	BMB	0.876	12.074	25.8642
5	2.52	NO3-N	BMB	2.236	26.898	10.5081
6	3.40	PO4-P	BMB	1.707	13.236	26.9968
7	3.86	SO4	BMB	3.374	25.310	52.4046



Peak Integration Report

Sample Name:		190621 ICV			Inj. Vol.:		25uL	
Injection Type:		Check Standard			Dilution Factor:		1.00	
Program:		Anion APM 190621A			Operator:		chemlst_wetlab	
Inj. Date / Time:		21-Jun-2019 / 13:24			Run Time:		5.00	

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	1.23	F	BMB*	0.480	5.935	4.70	5	94.1%
2	1.67	Cl	BMB	2.387	42.157	24.04	25	96.2%
3	1.96	NO2-N	BMB	0.489	6.392	3.08	3.04	101.2%
4	2.27	BR	BMB	0.422	5.720	12.47	12.5	99.8%
5	2.52	NO3-N	BMB	1.032	12.274	4.87	5	97.4%
6	3.41	PO4-P	BMB	0.566	4.251	9.28	10	92.8%
7	3.85	SO4	BMB	1.563	11.483	24.37	25	97.5%



F MI1 190621 TH HH

Algorithm Check

y = Peak Area

x = mg/L S04

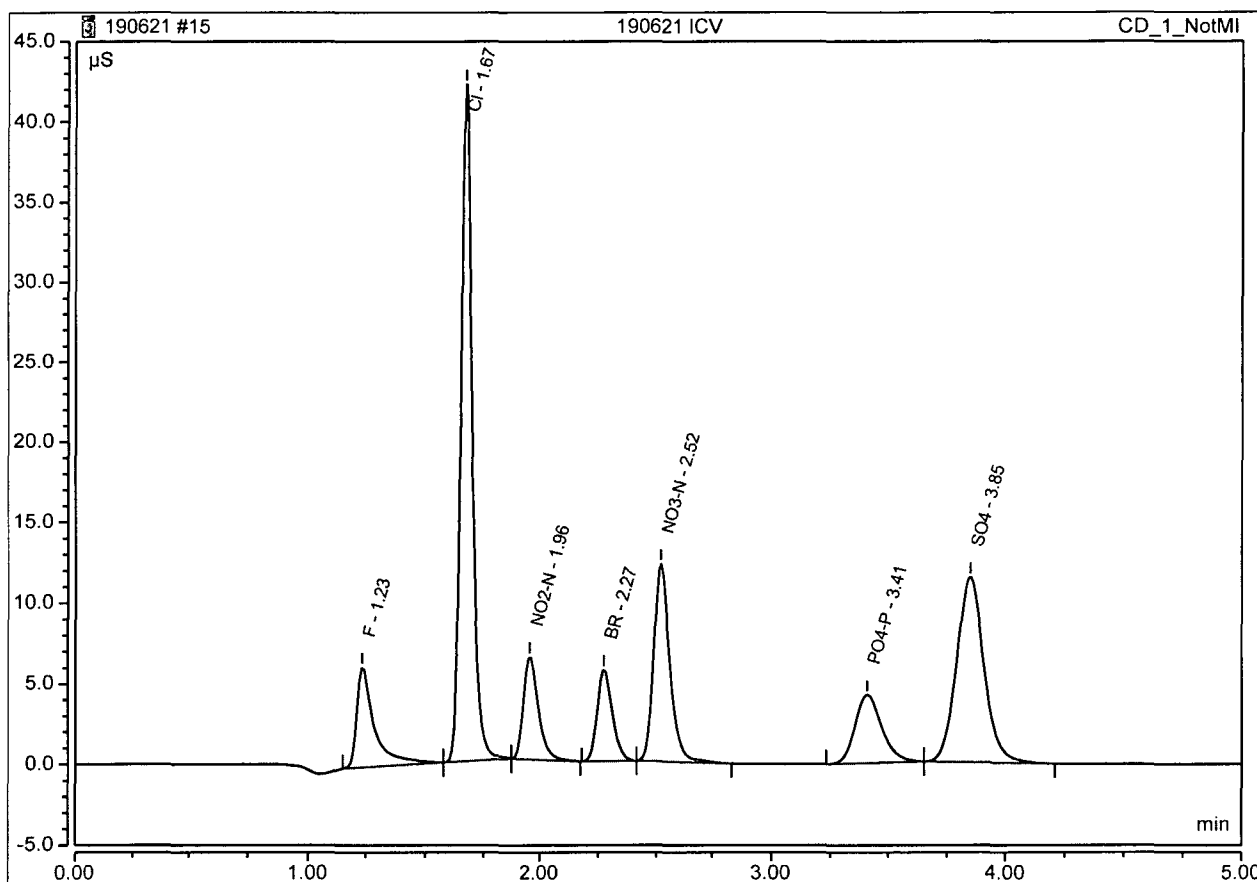
$$y = 0.0646 \quad x + \quad -0.0105$$

$$y = 1.5635 \quad \text{therefor } x = 24.36 \text{ 190621 TH HH}$$

Not Manipulated Peak Integration Report

Sample Name:	190621 ICV	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.0000
Program:	Anion APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	21-Jun-2019 / 13:24	Run Time:	5.00

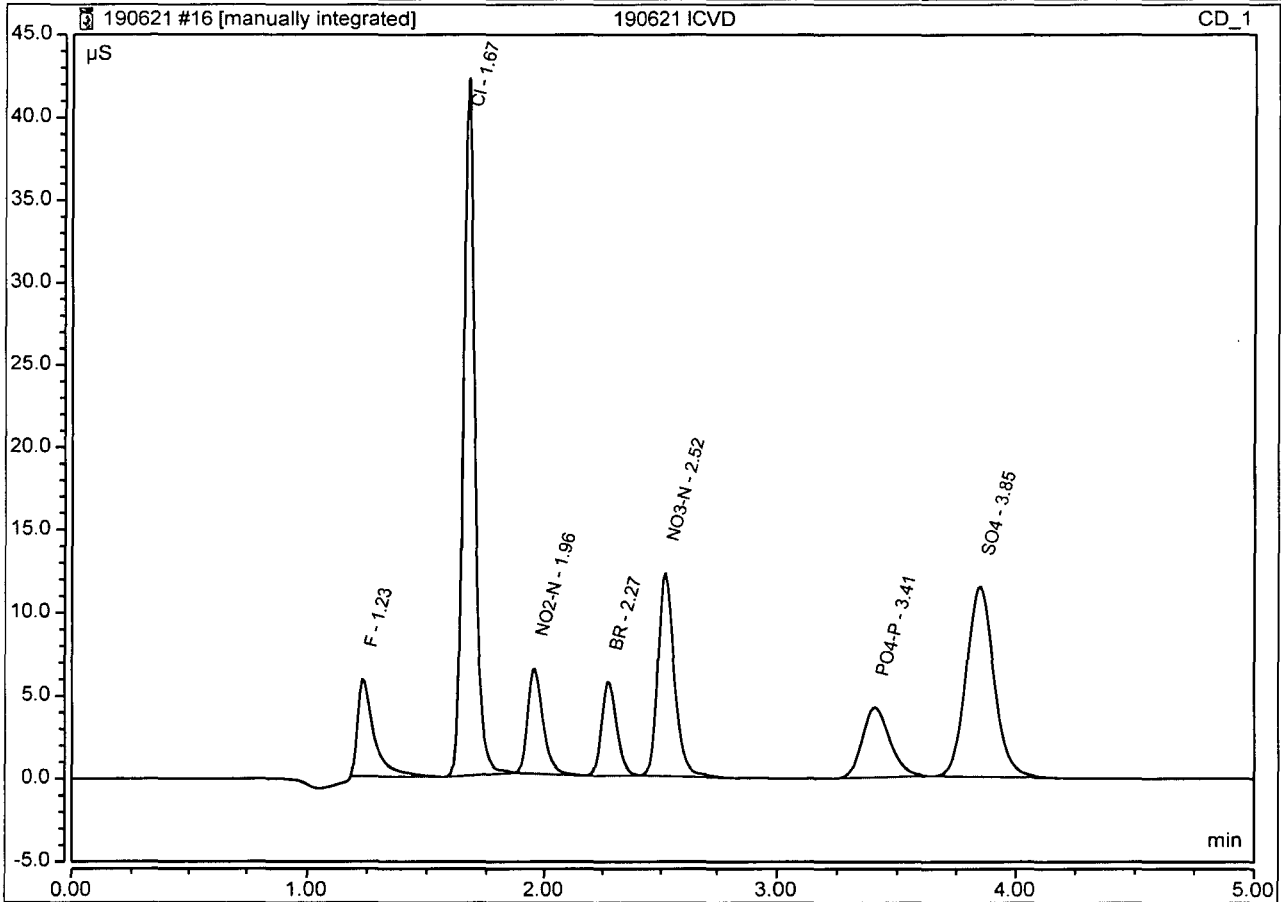
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount mg/L
1	1.23	F	BMB*	0.554	6.246	4.7499
2	1.67	Cl	BMB	2.387	42.157	24.0440
3	1.96	NO ₂ -N	BMB	0.489	6.392	3.0761
4	2.27	BR	BMB	0.422	5.720	12.4748
5	2.52	NO ₃ -N	BMB	1.032	12.274	4.8686
6	3.41	PO ₄ -P	BMB	0.566	4.251	9.2897
7	3.85	SO ₄	BMB	1.563	11.483	24.3724



Peak Integration Report

Sample Name:		190621 ICVD			Inj. Vol.:		25uL		
Injection Type:		Check Standard			Dilution Factor:		1.00		
Program:		Anlon APM 190621A			Operator:		chemist_wetlab		
Inj. Date / Time:		21-Jun-2019 / 13:31			Run Time:		5.00		

No.	Time (min)	Peak Name	Peak Type	Area (uS*min)	Height (uS)	Amount	Spike Level	Recovery
	min			uS*min	uS	mg/L	mg/L	
1	1.23	F	BMB*	0.478	5.928	4.69	5	93.8%
2	1.67	Cl	BMB	2.387	42.171	24.04	25	96.1%
3	1.96	NO2-N	BMB	0.490	6.394	3.08	3.04	101.3%
4	2.27	BR	BMB	0.422	5.722	12.48	12.5	99.8%
5	2.52	NO3-N	BMB	1.033	12.278	4.87	5	97.4%
6	3.41	PO4-P	BMB	0.563	4.231	9.23	10	92.3%
7	3.85	SO4	BMB	1.564	11.484	24.38	25	97.5%

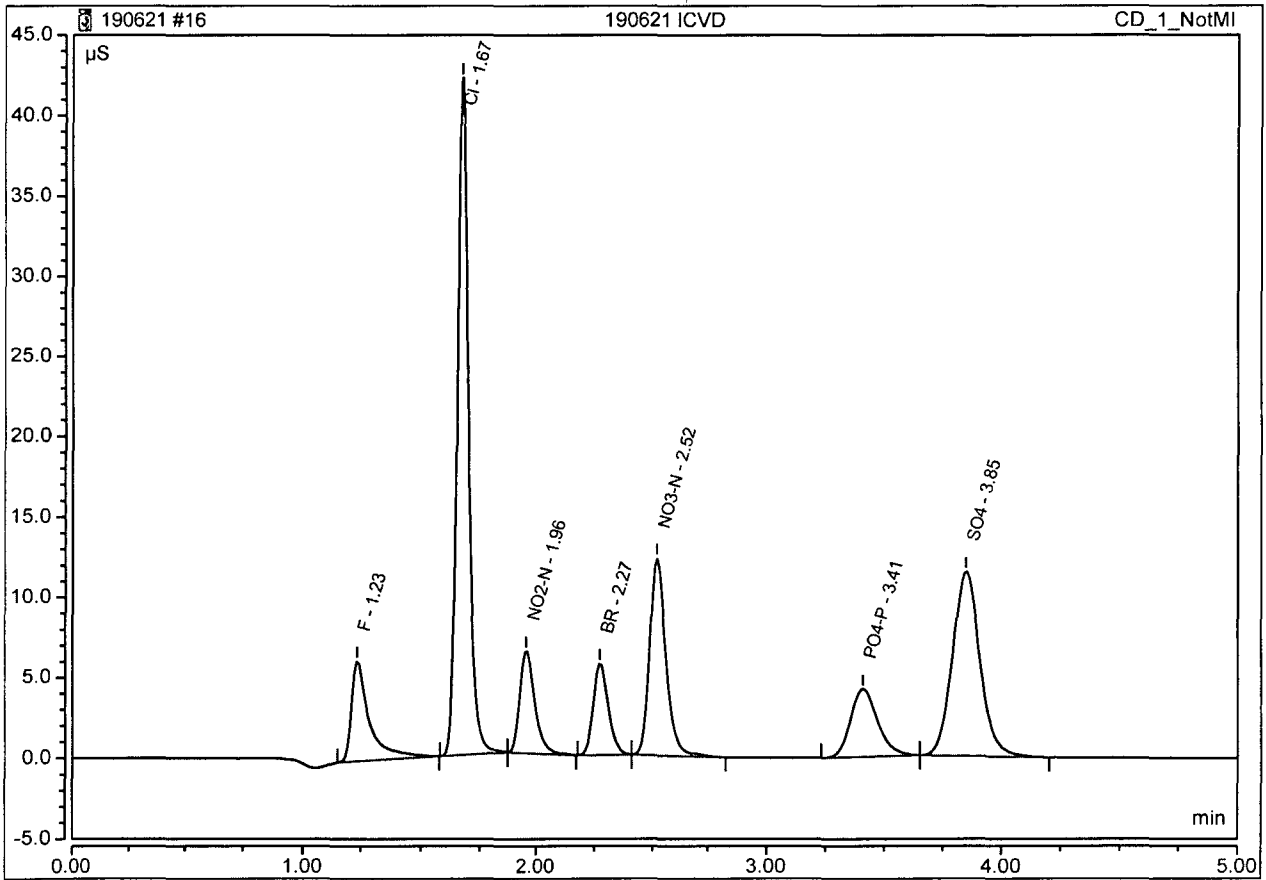


F MI1 190621 TH HH

Not Manipulated Peak Integration Report

Sample Name:	190621 ICVD	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.0000
Program:	Anion APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	21-Jun-2019 / 13:31	Run Time:	5.00

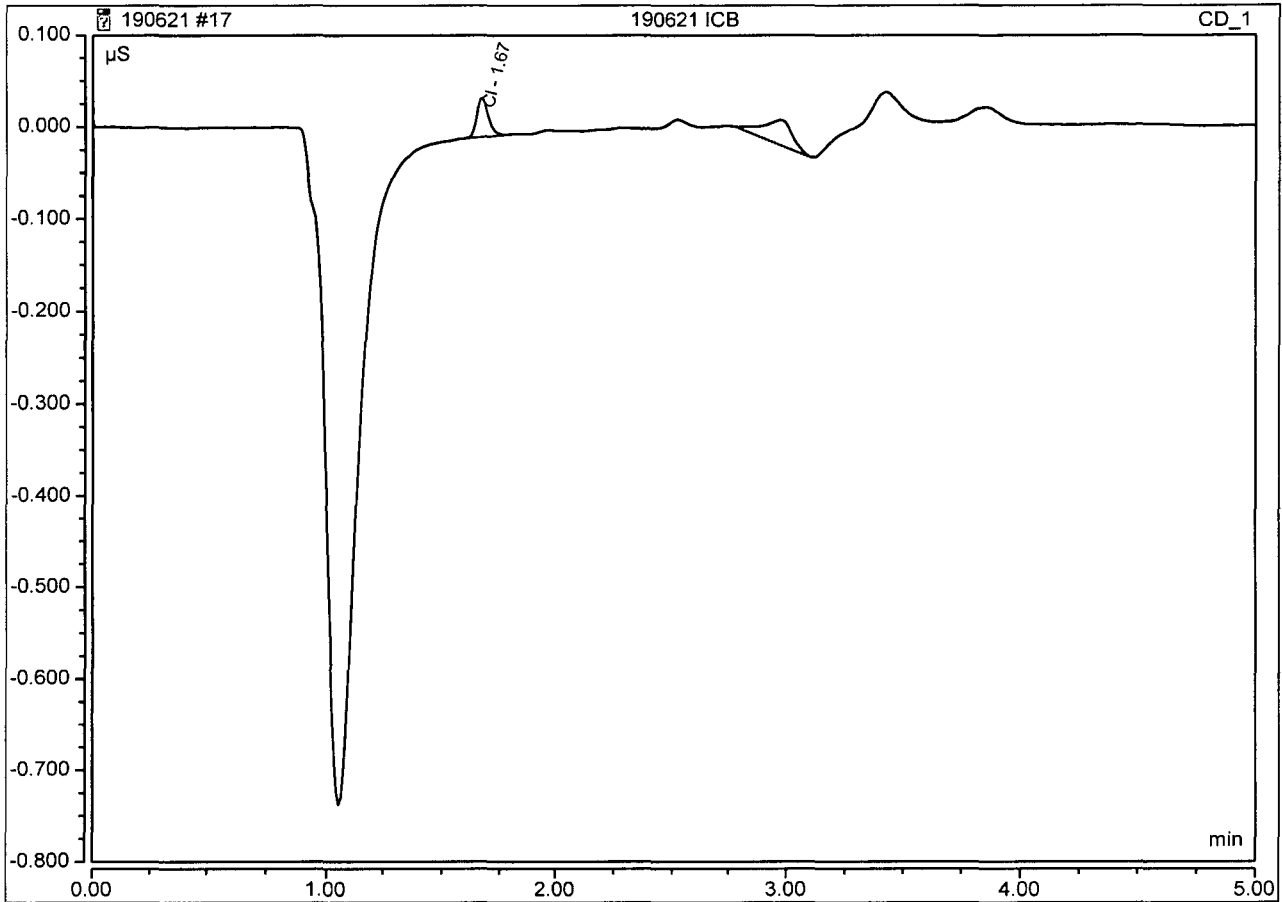
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount mg/L
1	1.23	F	BMB*	0.553	6.243	4.7441
2	1.67	Cl	BMB	2.387	42.171	24.0366
3	1.96	NO ₂ -N	BMB	0.490	6.394	3.0800
4	2.27	BR	BMB	0.422	5.722	12.4794
5	2.52	NO ₃ -N	BMB	1.033	12.278	4.8700
6	3.41	PO ₄ -P	BMB	0.563	4.231	9.2469
7	3.85	SO ₄	BMB	1.564	11.484	24.3803



Peak Integration Report

Sample Name:	190621 ICB	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anlon APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	21-Jun-2019 / 13:46	Run Time:	5.00

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.67	Cl	BMB	0.003	0.043	0.28		

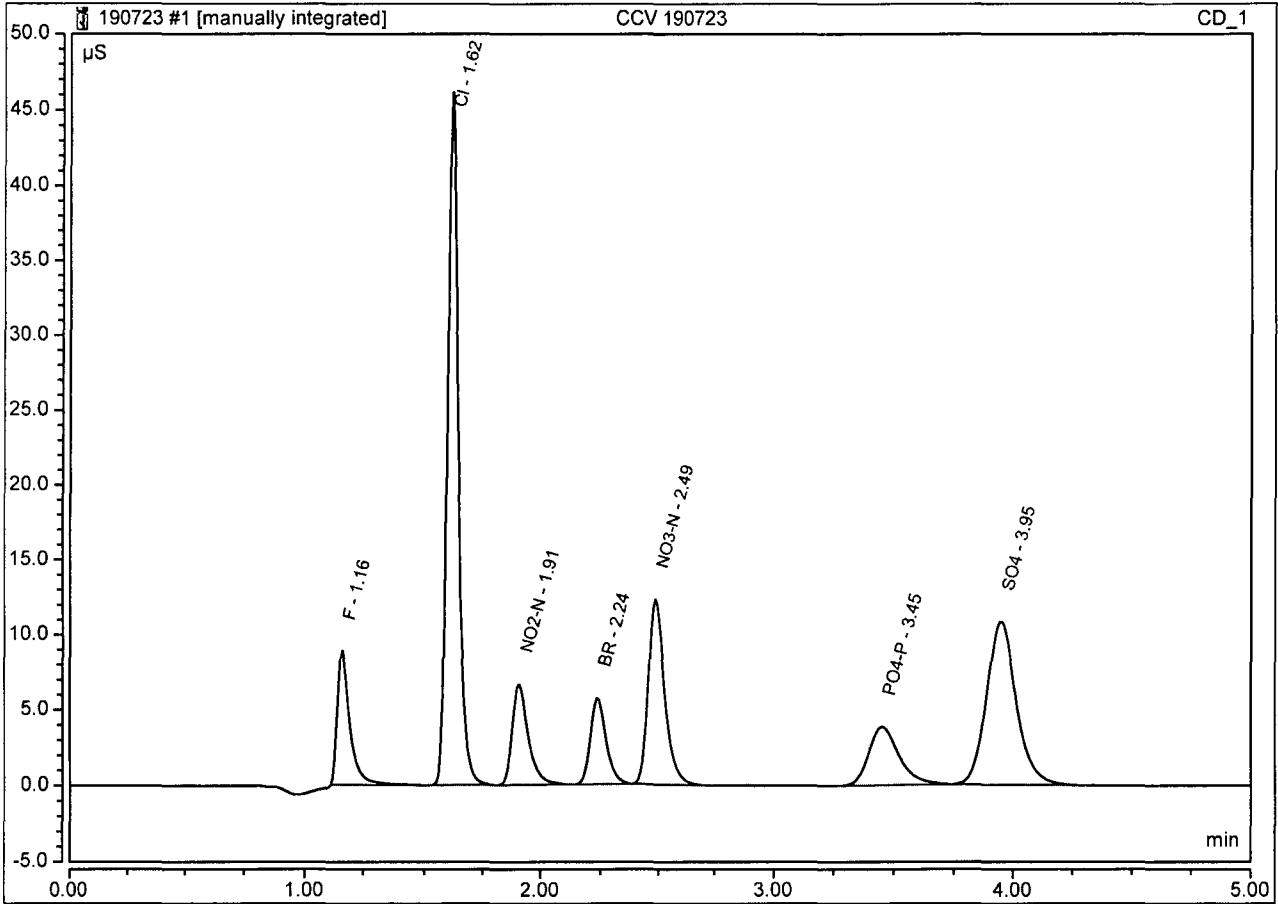


Logged on User: HH
 Instrument: Charlie System_1
 Sequence: 190723

Peak Integration Report

Sample Name:		CCV 190723			Inj. Vol.:		25uL		
Injection Type:		Check Standard			Dilution Factor:		1.00		
Program:		Anion APM 190621A			Operator:		chemist_wetlab		
Inj. Date / Time:		23-Jul-2019 / 07:50			Run Time:		5.00		

No.	Time (min)	Peak Name	Peak Type	Area (µS*min)	Height (µS)	Amount	Spike Level	Recovery
	min			µS*min	µS	mg/L	mg/L	
1	1.16	F	BMB*	0.547	8.875	5.34	5	106.8%
2	1.62	Cl	BMB	2.491	46.116	25.08	25	100.3%
3	1.91	NO2-N	BMB	0.527	6.671	3.31	3.04	109.0%
4	2.24	BR	BMB	0.431	5.733	12.75	12.5	102.0%
5	2.49	NO3-N	BMB	1.040	12.282	4.90	5	98.1%
6	3.45	PO4-P	BMB	0.554	3.855	9.10	10	91.0%
7	3.95	SO4	BMB	1.573	10.830	24.52	25	98.1%

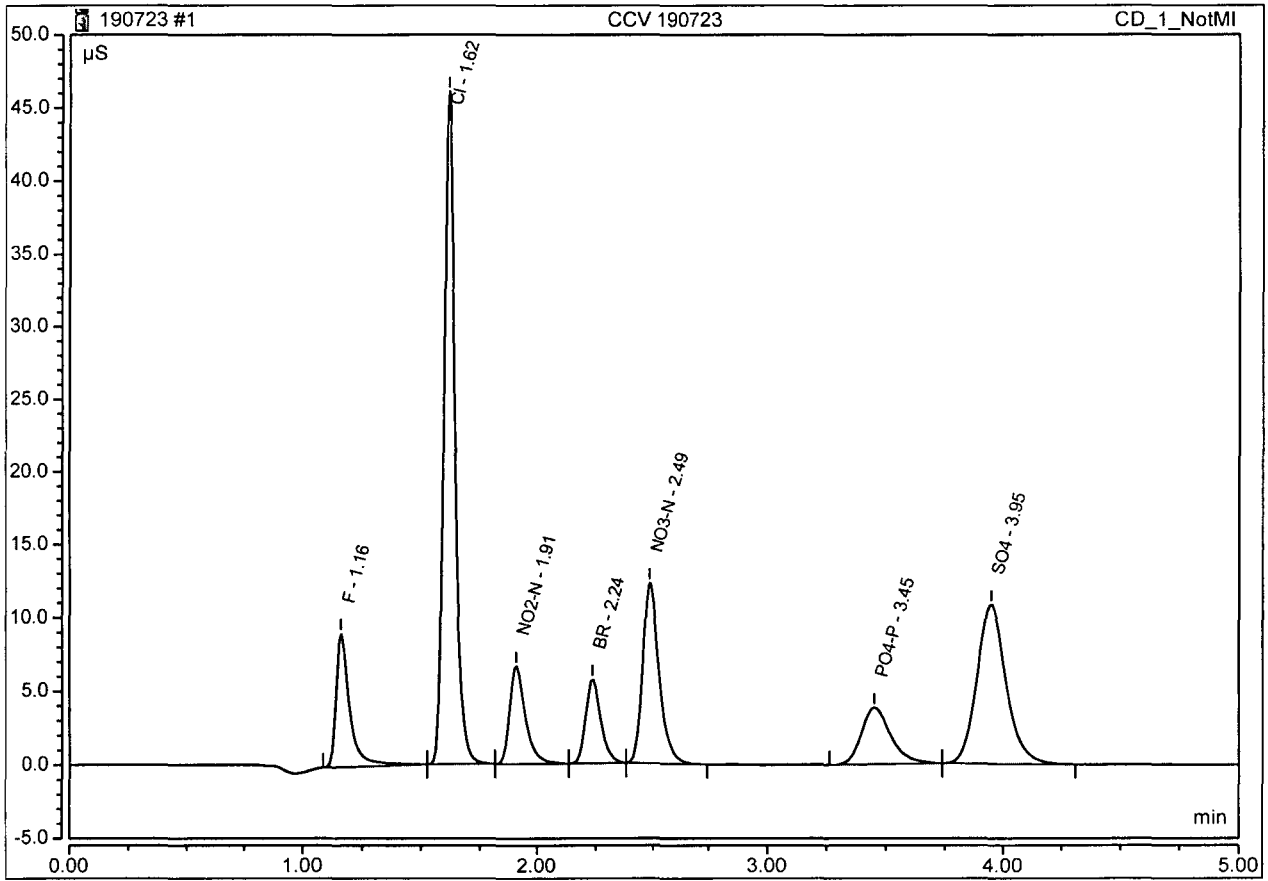


F mi1 HH 190724, rP 190724

Not Manipulated Peak Integration Report

Sample Name:	CCV 190723	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.0000
Program:	Anion APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	23-Jul-2019 / 07:50	Run Time:	5.00

No.	Time min	Peak Name	Peak Type	Area uS*min	Height uS	Amount mg/L
1	1.16	F	BMB*	0.602	9.103	5.1794
2	1.62	Cl	BMB	2.491	46.116	25.0802
3	1.91	NO2-N	BMB	0.527	6.671	3.3145
4	2.24	BR	BMB	0.431	5.733	12.7532
5	2.49	NO3-N	BMB	1.040	12.282	4.9033
6	3.45	PO4-P	BMB	0.554	3.855	9.1111
7	3.95	SO4	BMB	1.573	10.830	24.5249

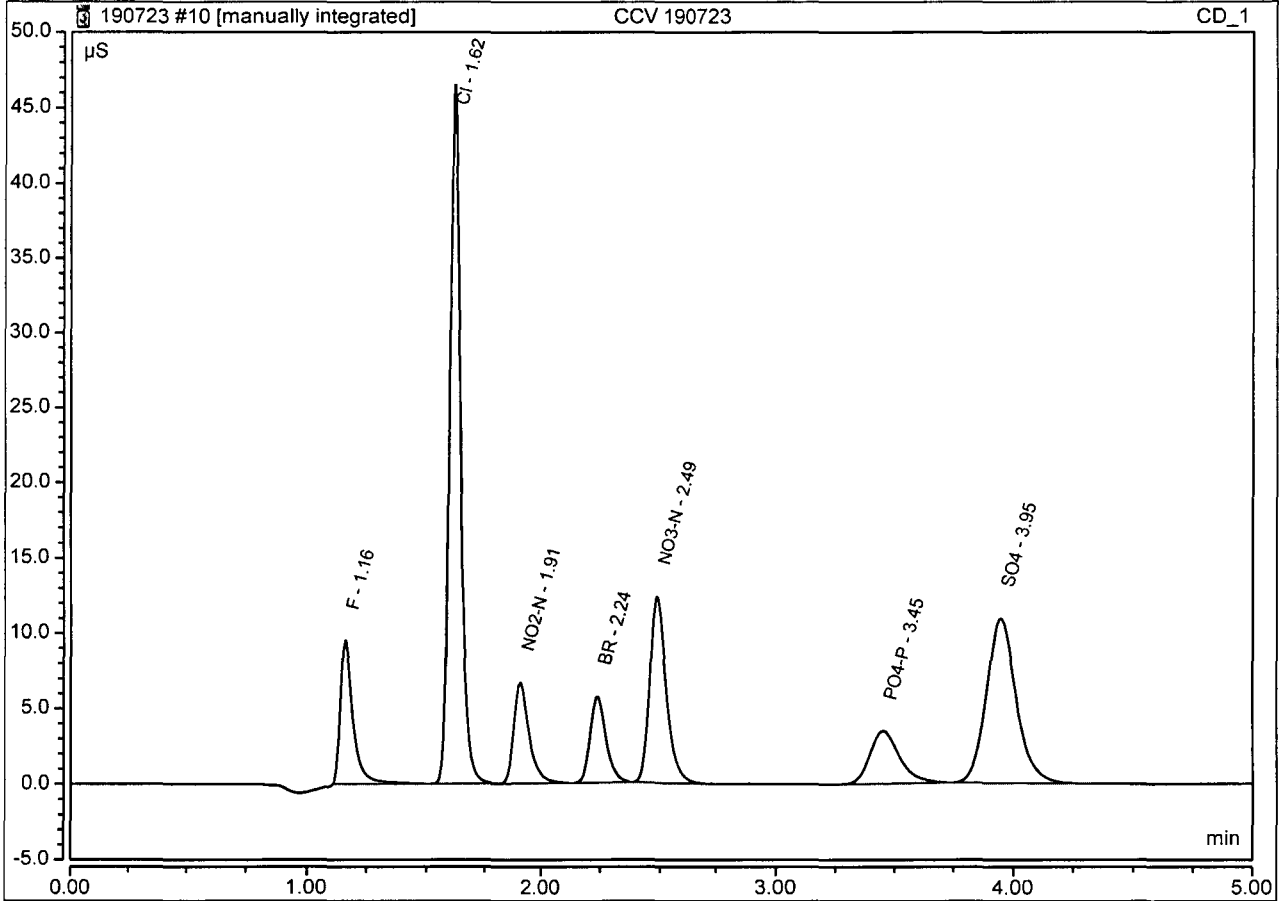


Logged on User: HH
 Instrument: Charlie System_1
 Sequence: 190723

Peak Integration Report

Sample Name:		CCV 190723			Inj. Vol.:		25uL	
Injection Type:		Check Standard			Dilution Factor:		1.00	
Program:		Anion APM 190621A			Operator:		chemist_wetlab	
Inj. Date / Time:		23-Jul-2019 / 08:57			Run Time:		5.00	

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.16	F	BMB*	0.584	9.521	5.70	5	114.0%
2	1.62	Cl	BMB	2.507	46.521	25.23	25	100.9%
3	1.91	NO2-N	BMB	0.530	6.723	3.33	3.04	109.5%
4	2.24	BR	BMB	0.433	5.780	12.82	12.5	102.6%
5	2.49	NO3-N	BMB	1.045	12.380	4.93	5	98.5%
6	3.45	PO4-P	BMB	0.504	3.489	8.29	10	82.9%
7	3.95	SO4	BMB	1.583	10.926	24.68	25	98.7%

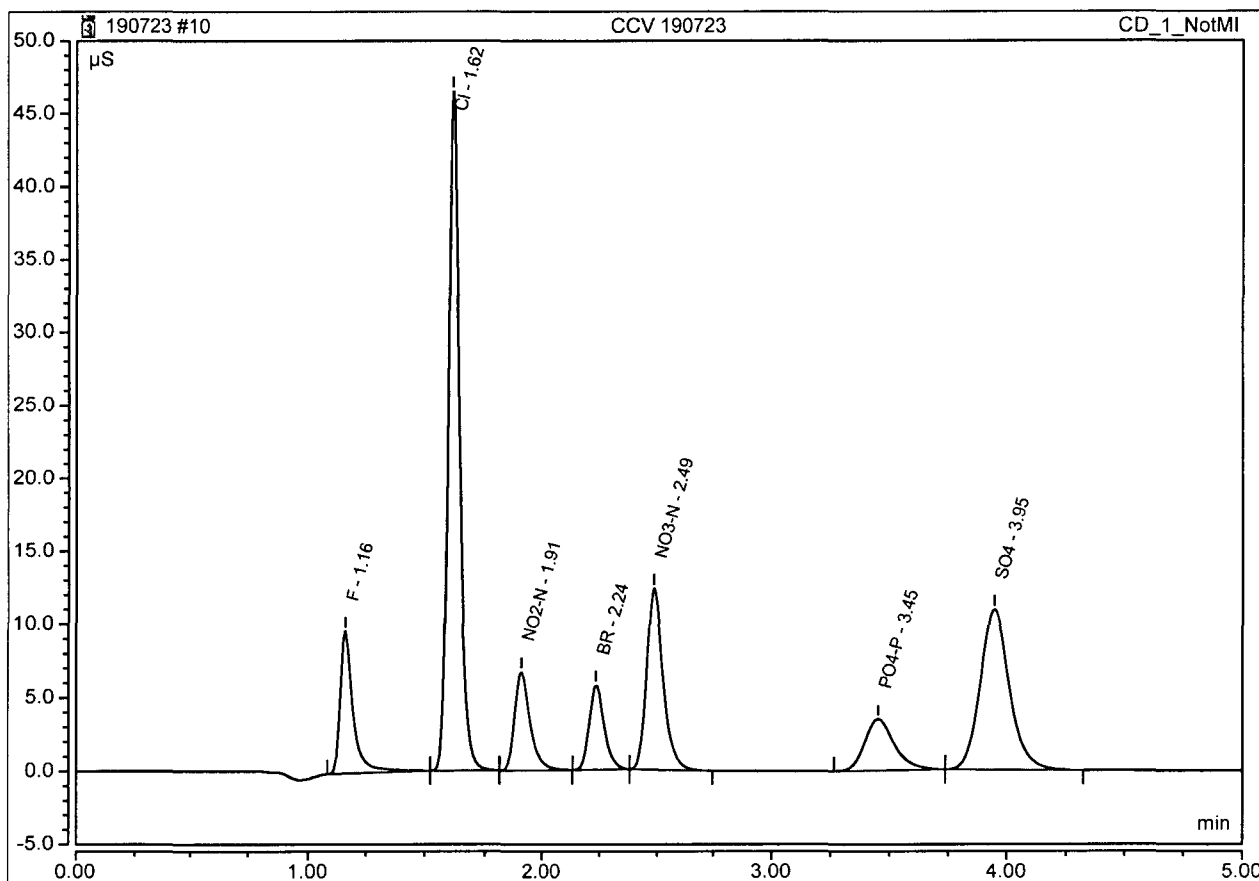


F mi1 HH 190724, rP 190724

Not Manipulated Peak Integration Report

Sample Name:	CCV 190723	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.0000
Program:	Anion APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	23-Jul-2019 / 08:57	Run Time:	5.00

No.	Time min	Peak Name	Peak Type	Area uS*min	Height uS	Amount mg/L
1	1.16	F	BMB*	0.629	9.703	5.4191
2	1.62	Cl	BMB	2.507	46.521	25.2315
3	1.91	NO2-N	BMB	0.530	6.723	3.3294
4	2.24	BR	BMB	0.433	5.780	12.8231
5	2.49	NO3-N	BMB	1.045	12.380	4.9267
6	3.45	PO4-P	BMB	0.504	3.489	8.3287
7	3.95	SO4	BMB	1.583	10.926	24.6799

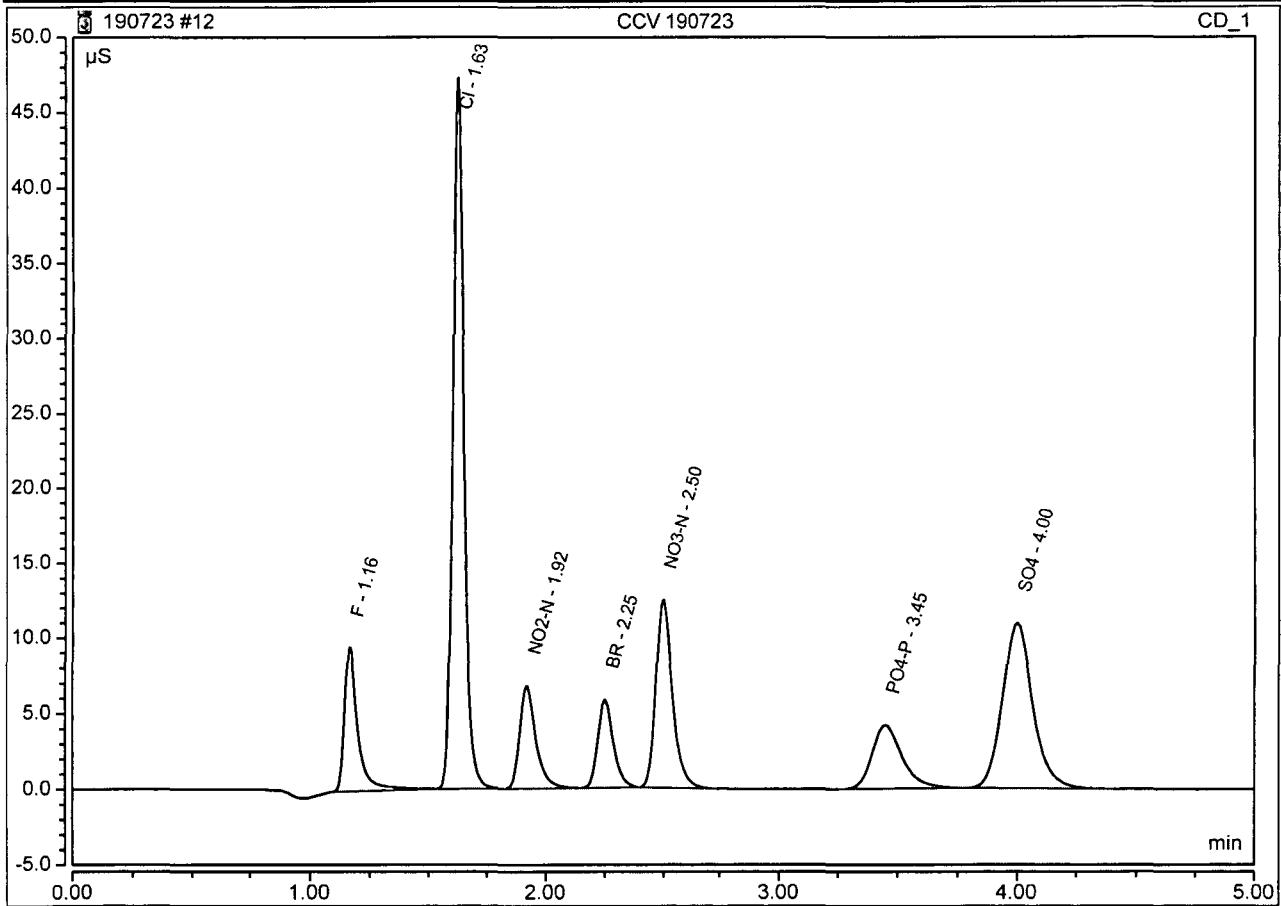


Logged on User: HH
 Instrument: Charlie System_1
 Sequence: 190723

Peak Integration Report

Sample Name:		CCV 190723		Inj. Vol.:		25uL	
Injection Type:		Check Standard		Dilution Factor:		1.00	
Program:		Anion APM 190621A		Operator:		chemist_wetlab	
Inj. Date / Time:		23-Jul-2019 / 14:03		Run Time:		5.00	

No.	Time (min)	Peak Name	Peak Type	Area (µS*min)	Height (µS)	Amount	Spike Level	Recovery
	min			µS*min	µS	mg/L	mg/L	
1	1.16	F	BMB	0.620	9.530	6.04	5	120.8%
2	1.63	Cl	BMB	2.537	47.261	25.54	25	102.2%
3	1.92	NO2-N	BMB	0.536	6.794	3.37	3.04	110.9%
4	2.25	BR	BMB	0.438	5.834	12.97	12.5	103.7%
5	2.50	NO3-N	BMB	1.054	12.415	4.97	5	99.5%
6	3.45	PO4-P	BMB	0.604	4.179	9.89	10	98.9%
7	4.00	SO4	BMB	1.602	10.908	24.97	25	99.9%

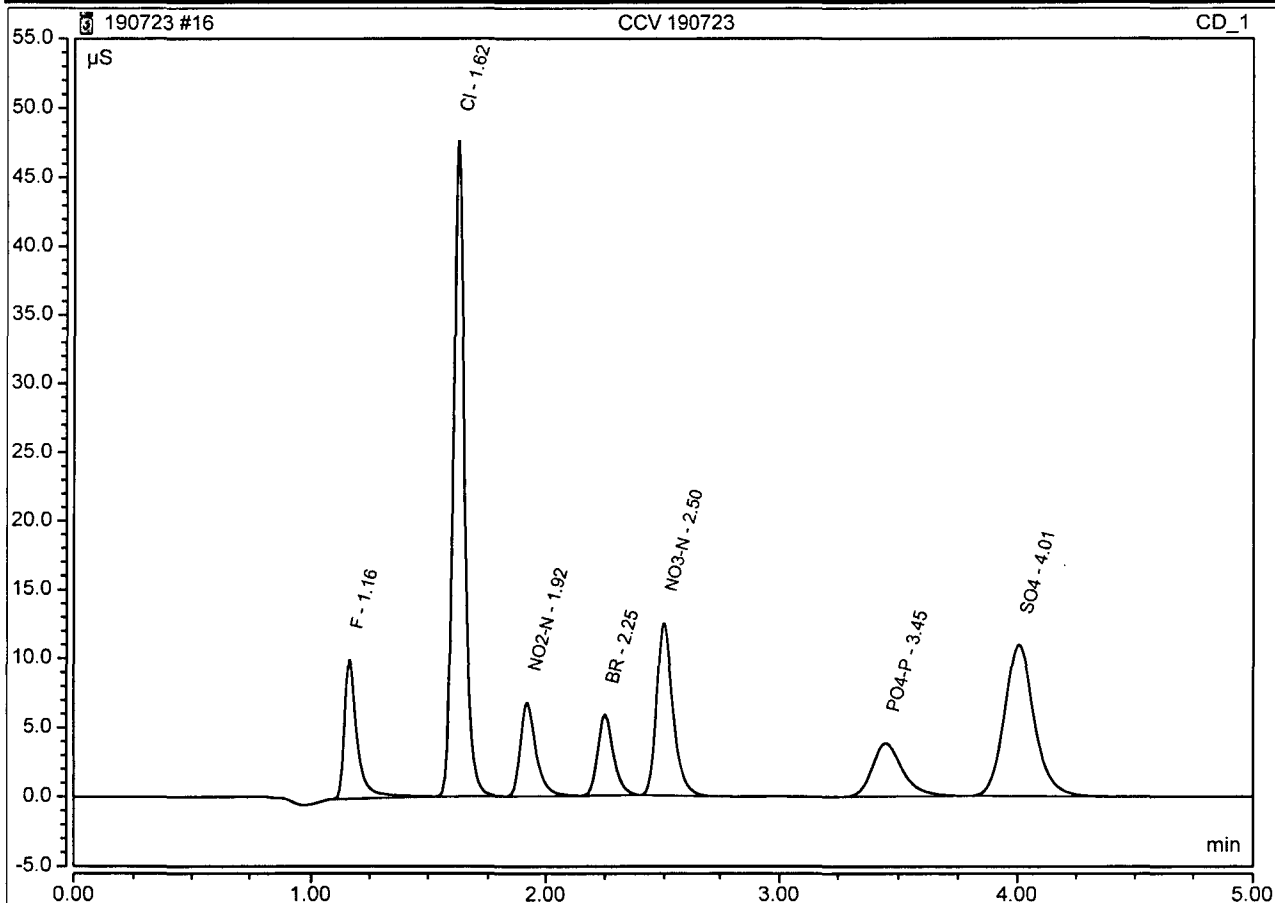


Logged on User: HH
 Instrument: Charlie System_1
 Sequence: 190723

Peak Integration Report

Sample Name:		CCV 190723			Inj. Vol.:		25uL	
Injection Type:		Check Standard			Dilution Factor:		1.00	
Program:		Anlon APM 190621A			Operator:		chemist_wetlab	
Inj. Date / Time:		23-Jul-2019 / 16:29			Run Time:		5.00	

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.16	F	BMB	0.637	10.061	6.20	5	124.1%
2	1.62	Cl	BMB	2.547	47.633	25.64	25	102.5%
3	1.92	NO2-N	BMB	0.535	6.799	3.36	3.04	110.7%
4	2.25	BR	BMB	0.440	5.865	13.01	12.5	104.1%
5	2.50	NO3-N	BMB	1.059	12.467	4.99	5	99.8%
6	3.45	PO4-P	BMB	0.560	3.850	9.18	10	91.8%
7	4.01	SO4	BMB	1.607	10.925	25.05	25	100.2%

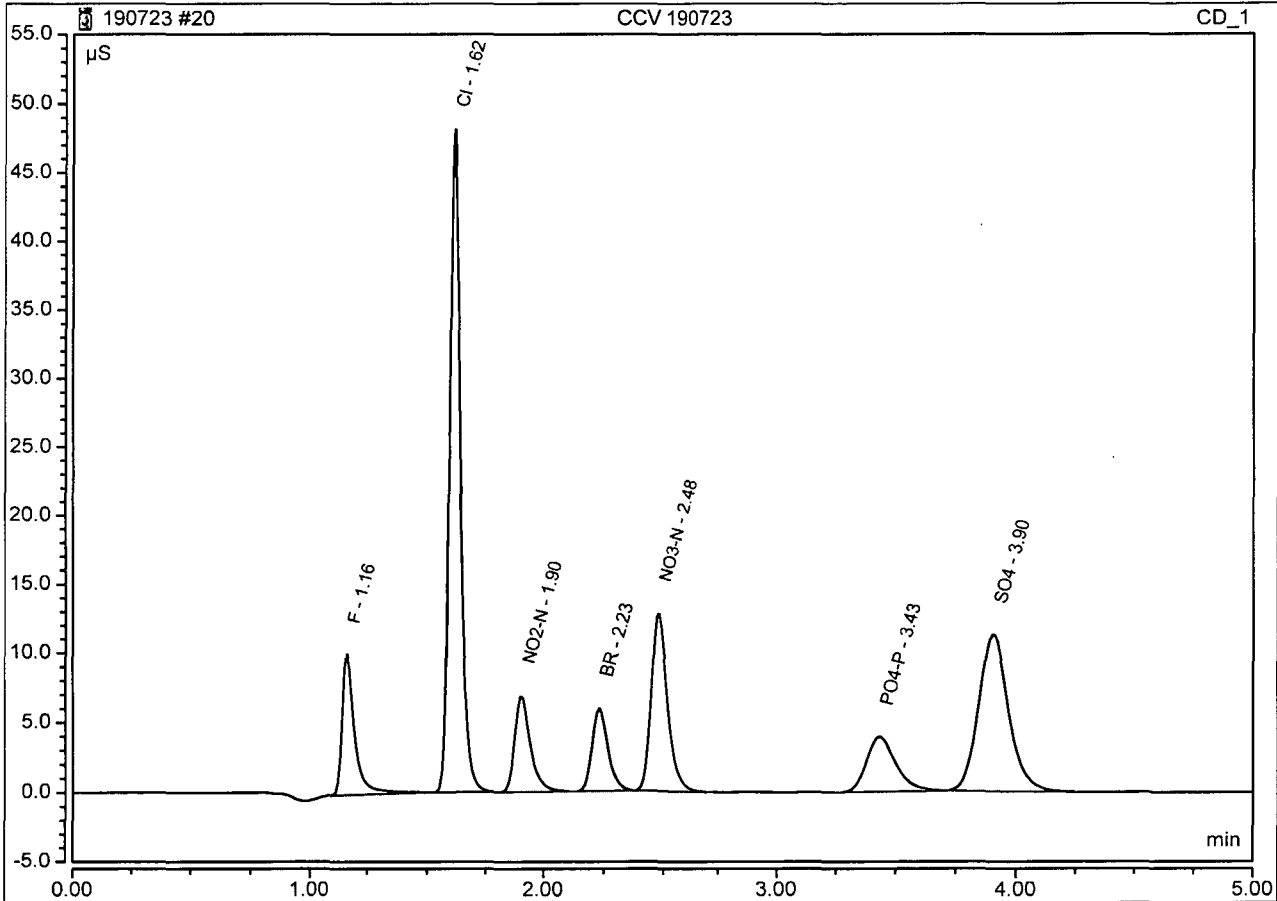


Logged on User: HH
 Instrument: Charlie System_1
 Sequence: 190723

Peak Integration Report

Sample Name:		CCV 190723			Inj. Vol.:		25uL	
Injection Type:		Check Standard			Dilution Factor:		1.00	
Program:		Anlon APM 190621A			Operator:		chemist_wetlab	
Inj. Date / Time:		23-Jul-2019 / 16:58			Run Time:		5.00	

No.	Time (min)	Peak Name	Peak Type	Area (µS*min)	Height (µS)	Amount	Spike Level	Recovery
	min			µS*min	µS	mg/L	mg/L	
1	1.16	F	BMB	0.639	10.107	6.22	5	124.3%
2	1.62	Cl	BMB	2.564	48.128	25.80	25	103.2%
3	1.90	NO2-N	BMB	0.540	6.903	3.39	3.04	111.6%
4	2.23	BR	BMB	0.443	5.956	13.09	12.5	104.7%
5	2.48	NO3-N	BMB	1.068	12.784	5.04	5	100.7%
6	3.43	PO4-P	BMB	0.559	3.939	9.18	10	91.8%
7	3.90	SO4	BMB	1.611	11.250	25.11	25	100.4%

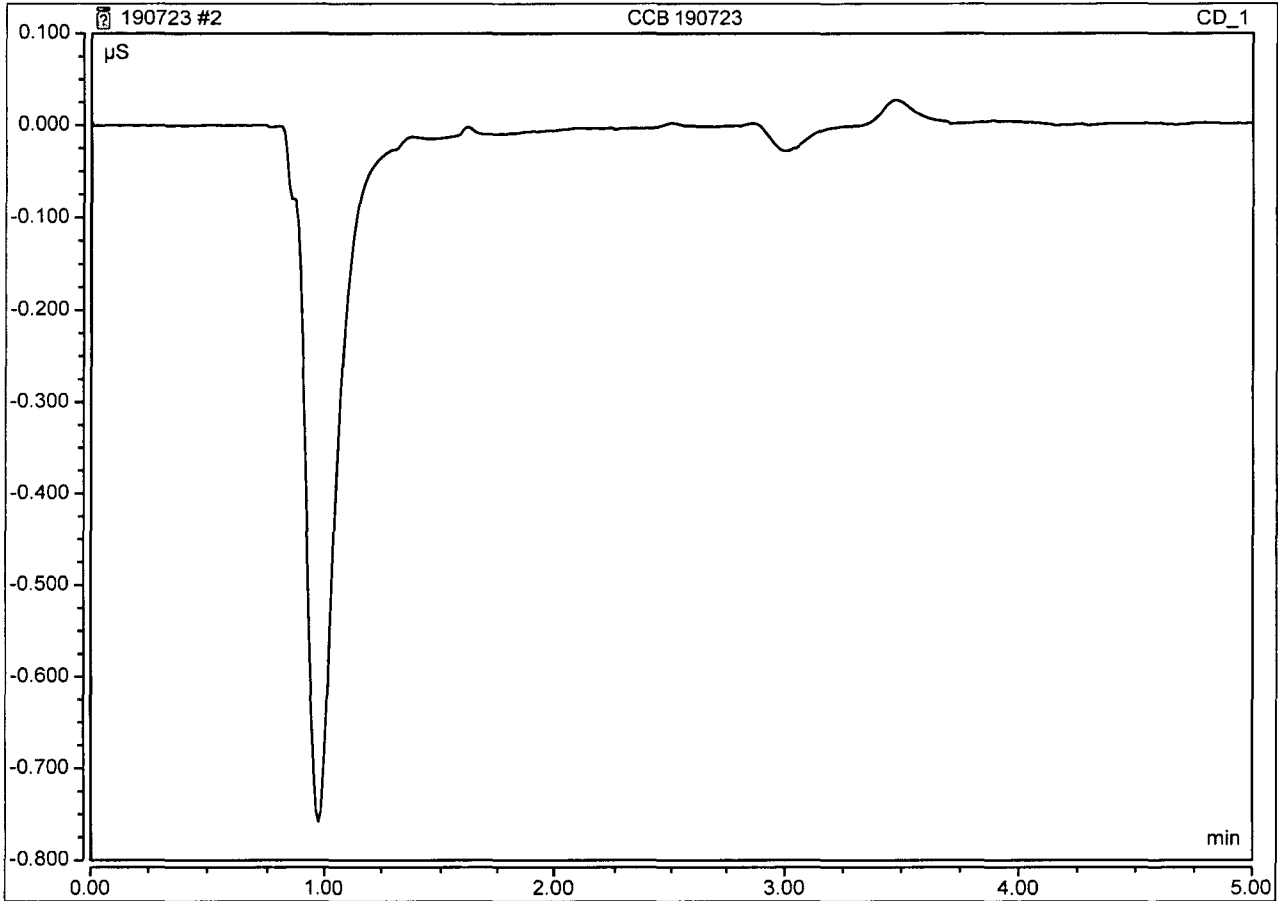


Logged on User: HH
Instrument: Charlie System_1
Sequence: 190723

Peak Integration Report

Sample Name:	CCB 190723	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	23-Jul-2019 / 07:57	Run Time:	5.00

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	

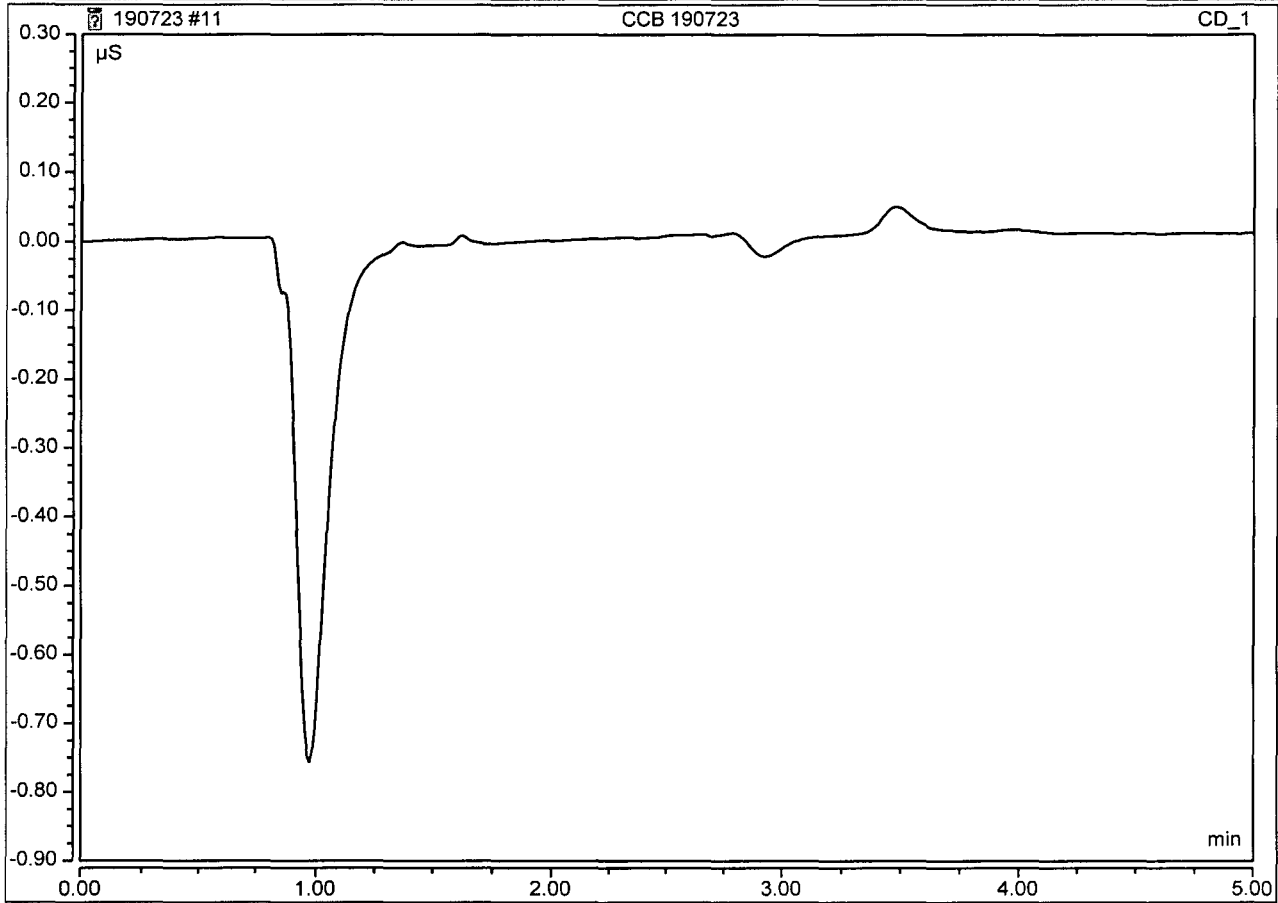


Logged on User: HH
Instrument: Charlie System_1
Sequence: 190723

Peak Integration Report

Sample Name:	CCB 190723	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	23-Jul-2019 / 09:05	Run Time:	5.00

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	

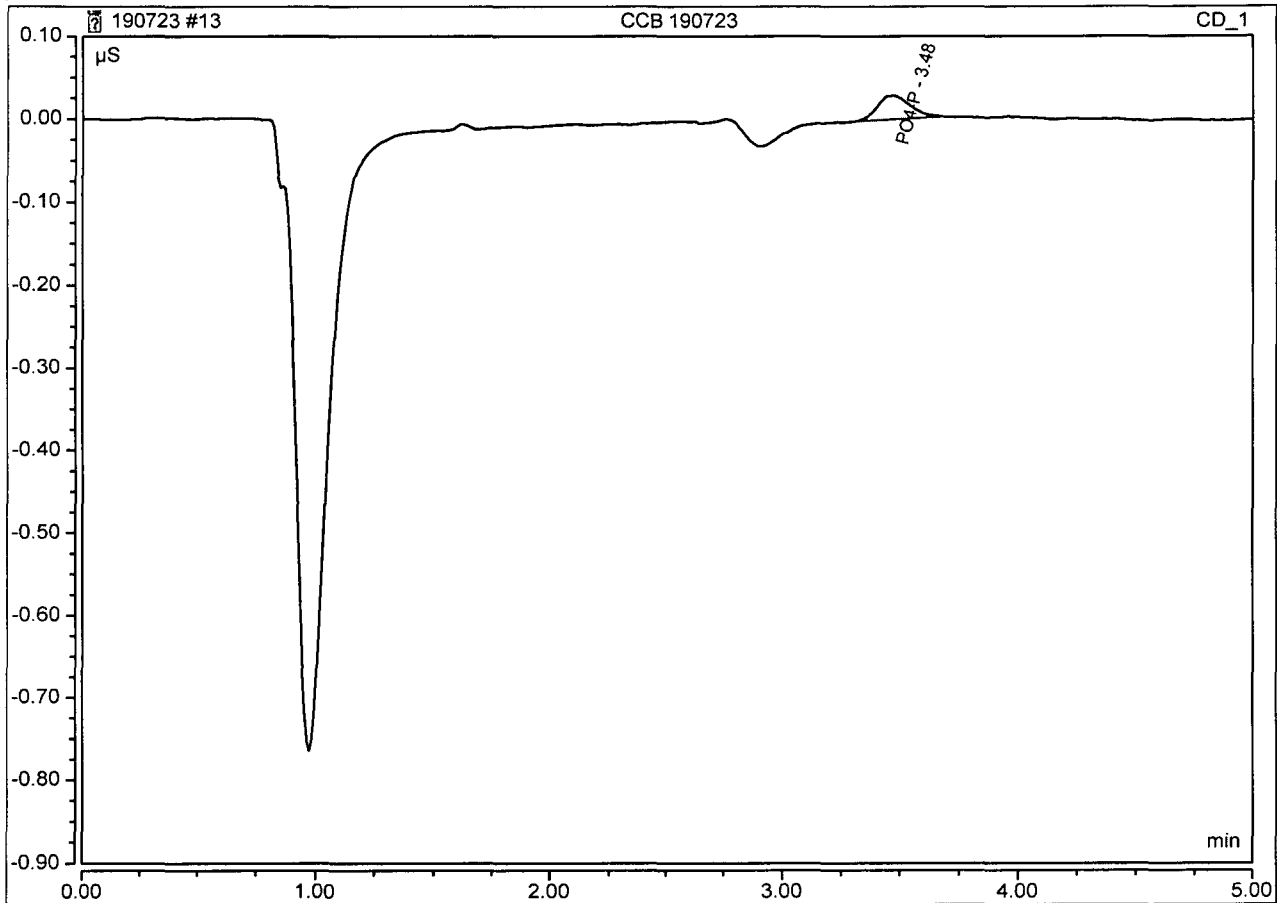


Logged on User: HH
Instrument: Charlie System_1
Sequence: 190723

Peak Integration Report

Sample Name:	CCB 190723	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anlon APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	23-Jul-2019 / 14:11	Run Time:	5.00

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount (mg/L)	Spike Level (mg/L)	Recovery
1	3.48	PO4-P	BMB	0.005	0.029	0.35		

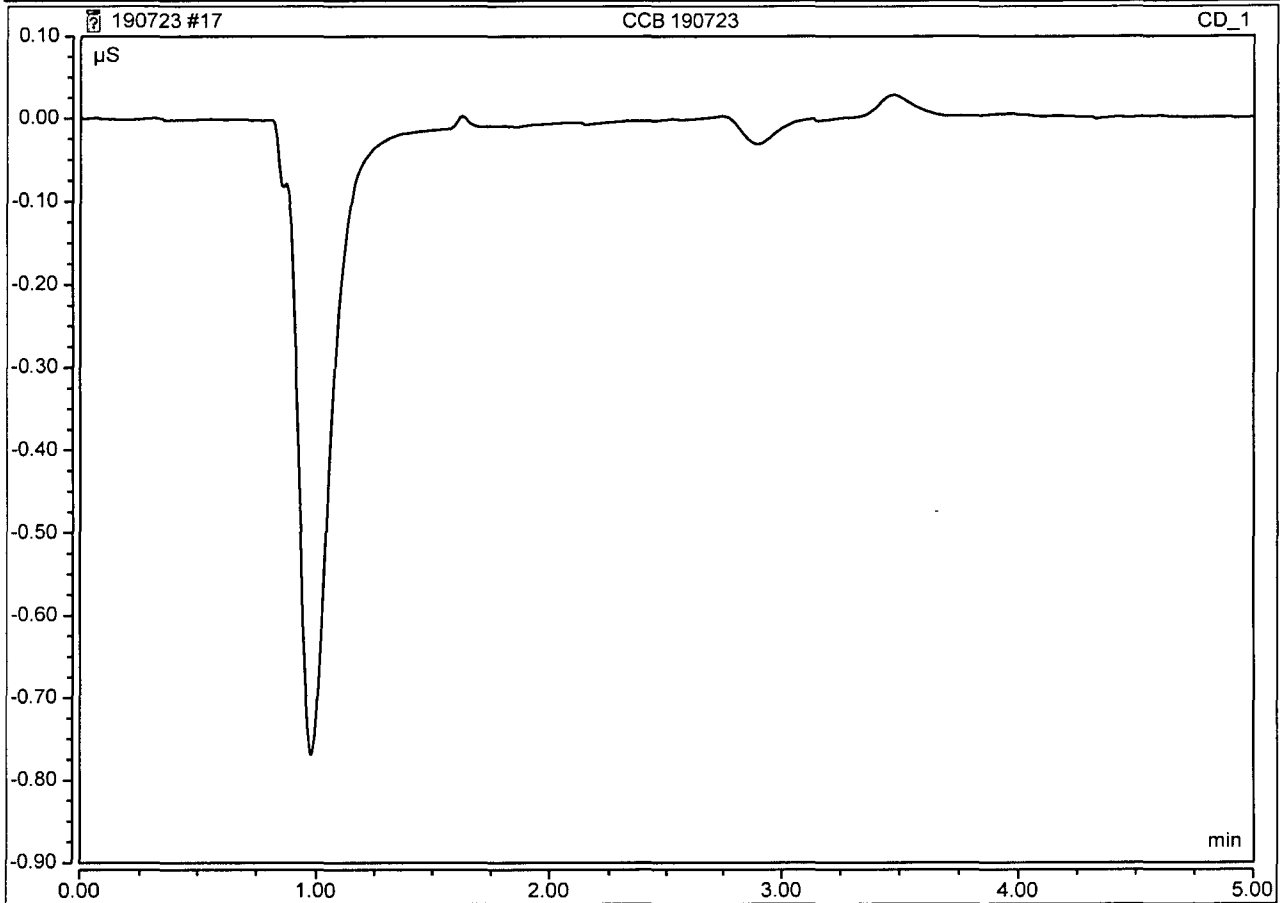


Logged on User: HH
Instrument: Charlie System_1
Sequence: 190723

Peak Integration Report

Sample Name:	CCB 190723	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	23-Jul-2019 / 16:36	Run Time:	5.00

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	

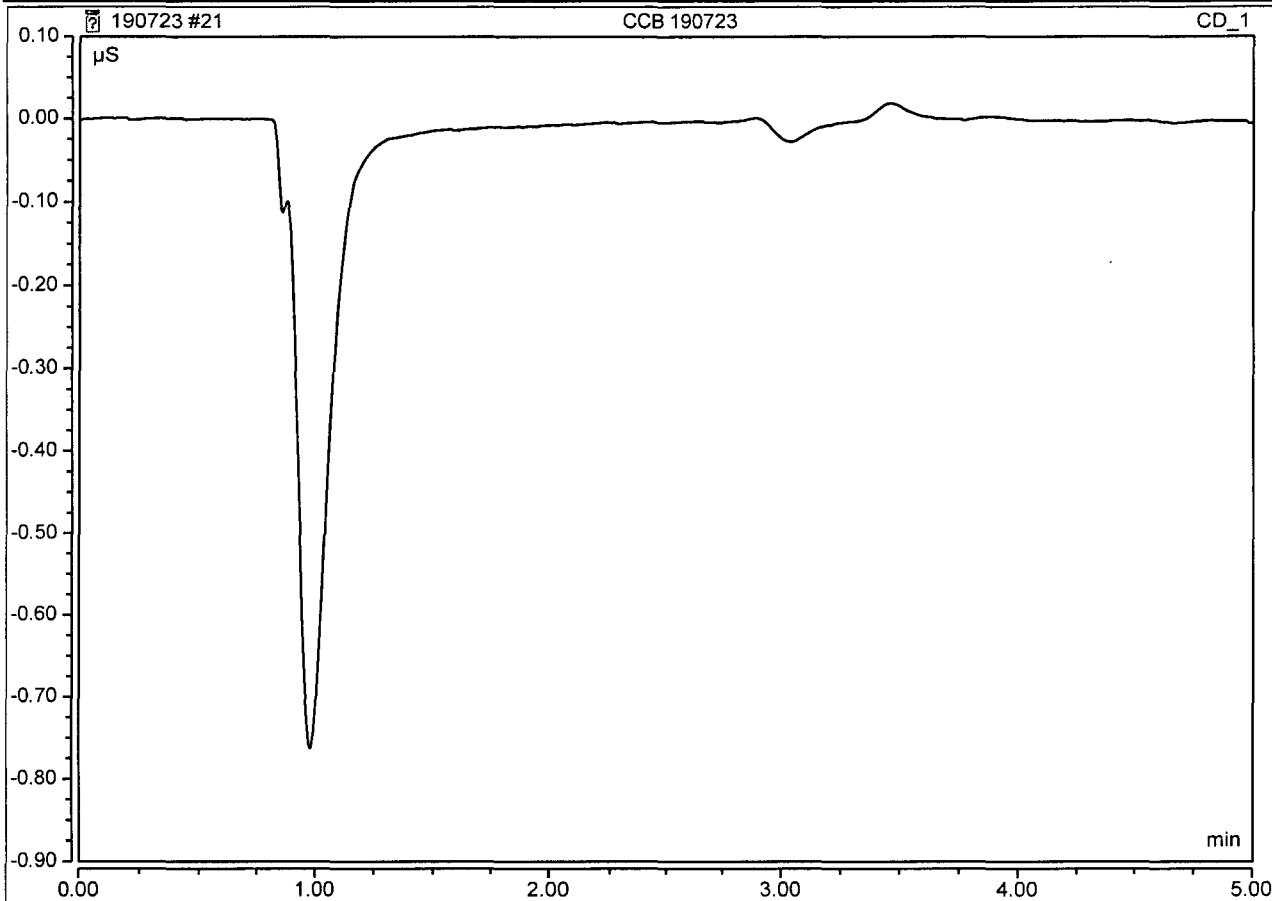


Logged on User: HH
Instrument: Charlie System_1
Sequence: 190723

Peak Integration Report

Sample Name:	CCB 190723	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	23-Jul-2019 / 17:06	Run Time:	5.00

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	



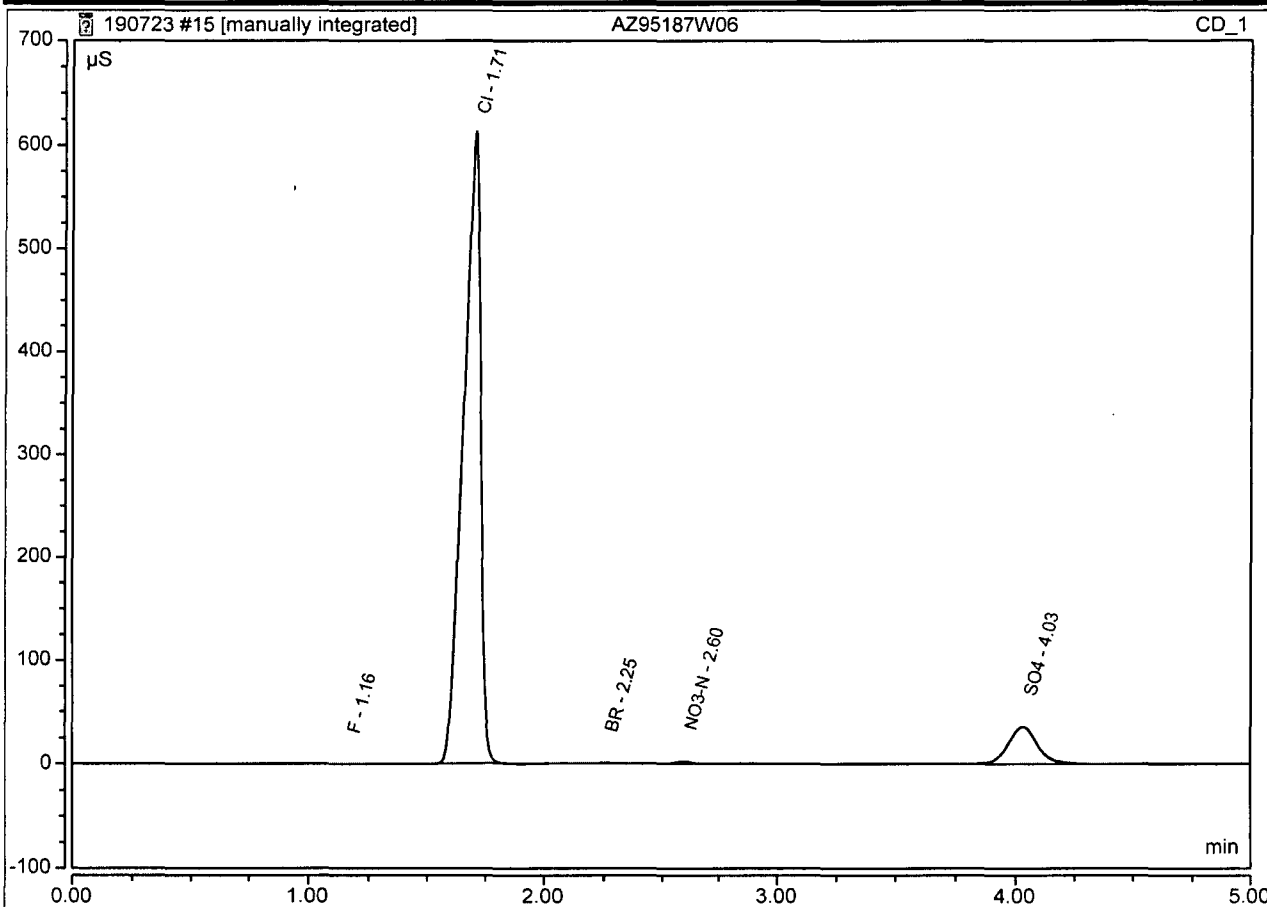
INORGANIC ANALYSIS
Raw Data

Logged on User: HH
 Instrument: Charlie System_1
 Sequence: 190723

Peak Integration Report

Sample Name:		AZ95187W06		Inj. Vol.:		25uL	
Injection Type:		Unknown		Dilution Factor:		1.00	
Program:		Anion APM 190621A		Operator:		chemist_wetlab	
Inj. Date / Time:		23-Jul-2019 / 16:21		Run Time:		5.00	

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.16	F	BMB	0.005	0.082	0.18		
2	1.71	Cl	BMB*	52.314	612.879	521.61		
4	2.25	BR	BMB	0.034	0.362	1.06		
5	2.60	NO3-N	BMB	0.158	1.948	0.77		
6	4.03	SO4	BMB	5.052	35.723	78.39		

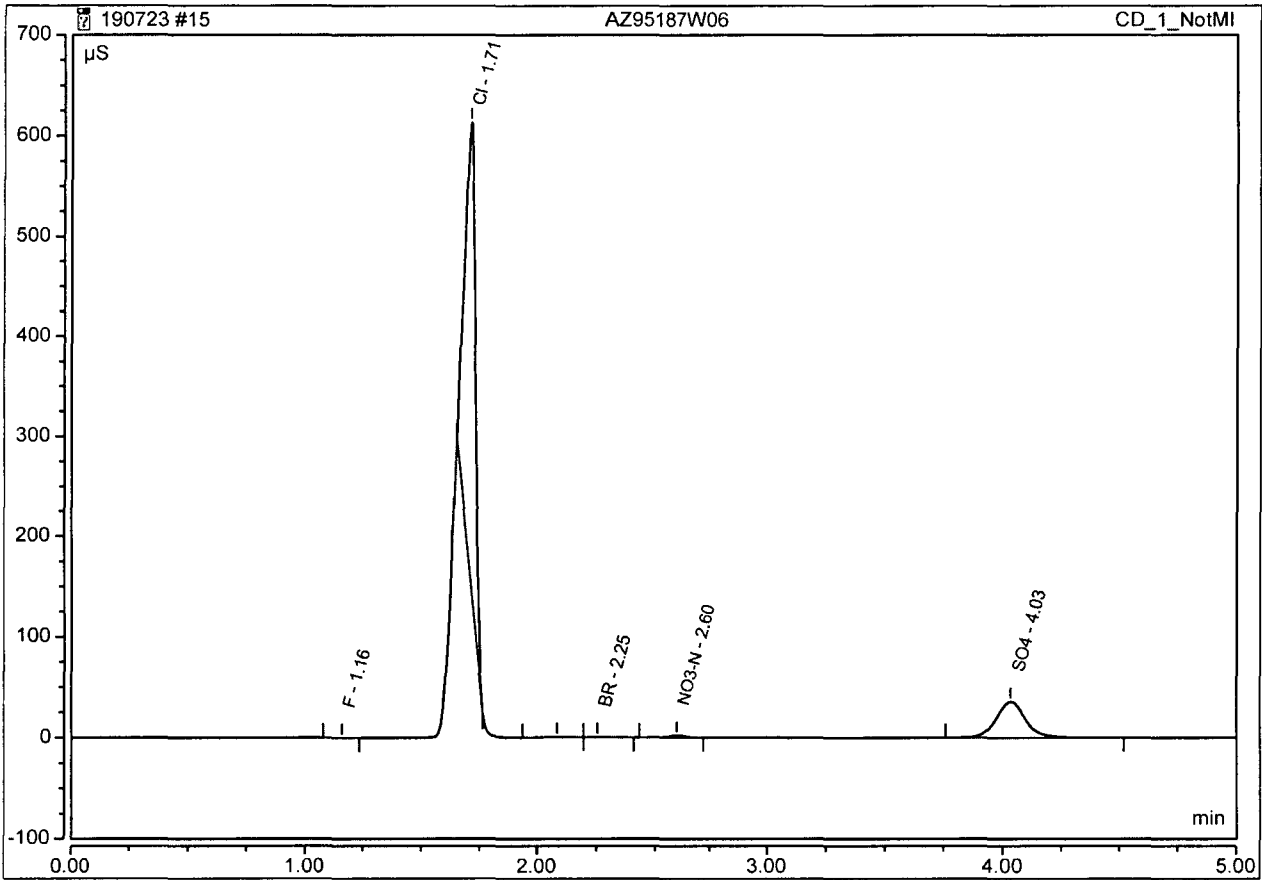


F mi1 HH 190724, rP 190724

Not Manipulated Peak Integration Report

Sample Name:	AZ95187W06	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.0000
Program:	Anion APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	23-Jul-2019 / 16:21	Run Time:	5.00

No.	Time min	Peak Name	Peak Type	Area uS*min	Height uS	Amount mg/L
1	1.16	F	BMB	0.005	0.082	-0.1502
2	1.71	Cl	BMB*	24.909	463.113	248.4938
4	2.25	BR	BMB	0.034	0.362	1.0585
5	2.60	NO3-N	BMB	0.158	1.948	0.7720
6	4.03	SO4	BMB	5.052	35.723	78.3868

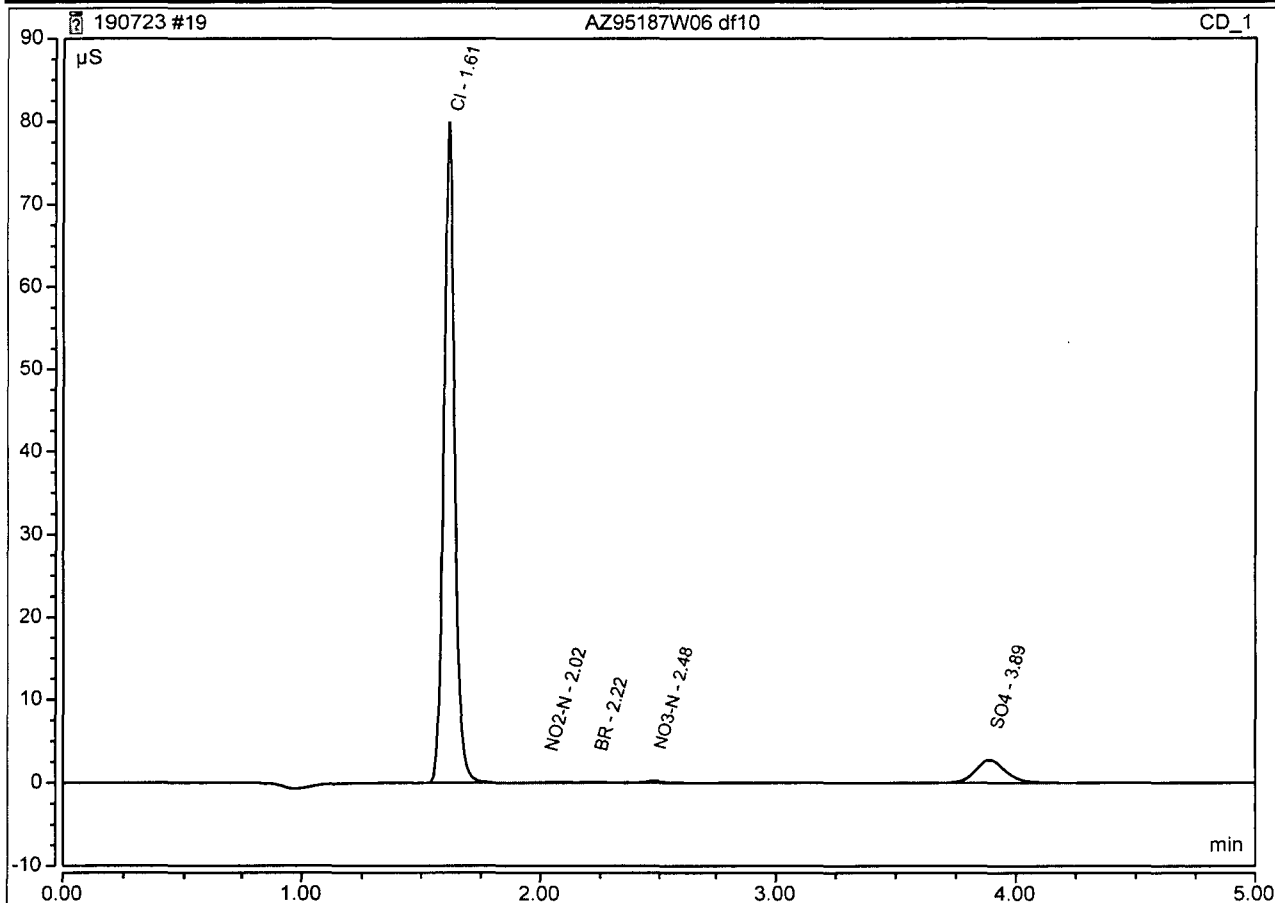


Logged on User: HH
 Instrument: Charlie System_1
 Sequence: 190723

Peak Integration Report

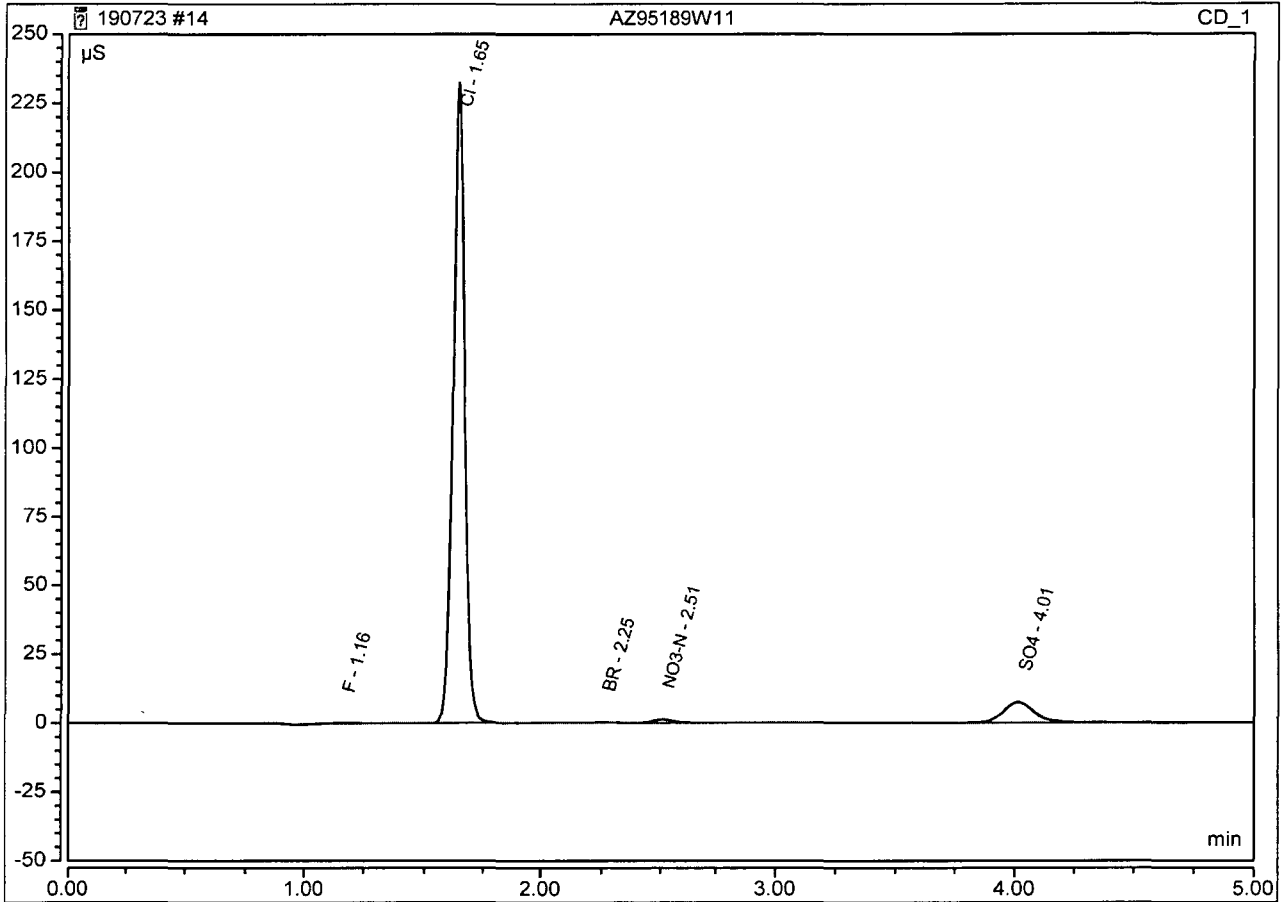
Sample Name:	AZ95187W06 df10	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	10.00
Program:	Anlon APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	23-Jul-2019 / 16:51	Run Time:	5.00

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.61	Cl	BMB	4.232	79.955	424.30		
2	2.02	NO2-N	BMB	0.006	0.040	0.46		
3	2.22	BR	BMB	0.004	0.053	1.56		
4	2.48	NO3-N	BMB	0.018	0.209	1.17		
5	3.89	SO4	BMB	0.410	2.769	65.10		



Peak Integration Report

Sample Name:		AZ95189W11			Inj. Vol.:		25uL	
Injection Type:		Unknown			Dilution Factor:		1.00	
Program:		Anlon APM 190621A			Operator:		chemist_wetlab	
Inj. Date / Time:		23-Jul-2019 / 16:14			Run Time:		5.00	
No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	<i>min</i>			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.16	F	BMB	0.020	0.174	0.33		
2	1.65	Cl	BMB	13.310	232.576	132.89		
4	2.25	BR	BMB	0.011	0.155	0.38		
5	2.51	NO3-N	BMB	0.117	1.154	0.58		
7	4.01	SO4	BMB	1.095	7.403	17.12		

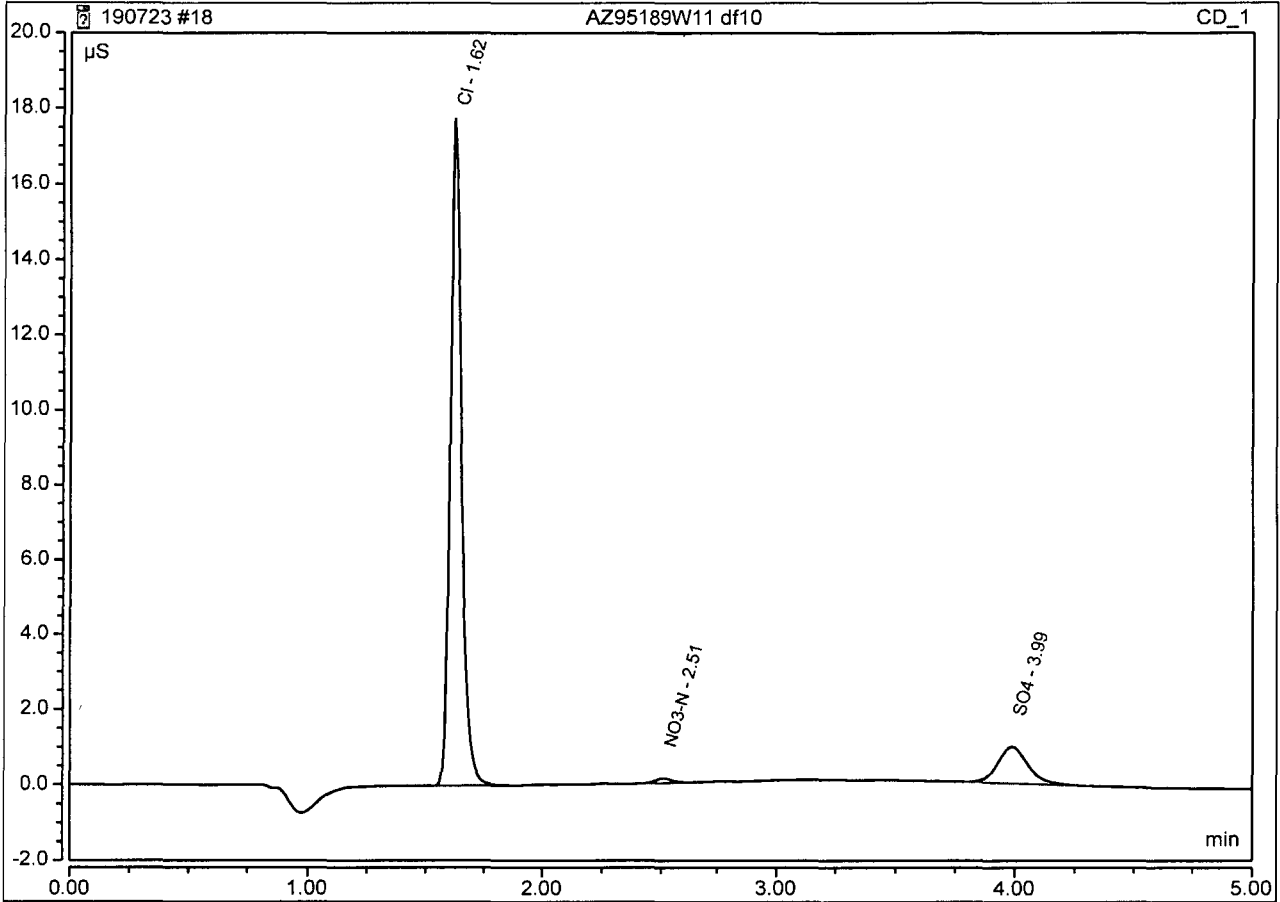


Logged on User: HH
Instrument: Charlie System_1
Sequence: 190723

Peak Integration Report

Sample Name:	AZ95189W11 df10	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	10.00
Program:	Anlon APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	23-Jul-2019 / 16:43	Run Time:	5.00

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.62	Cl	BMB	0.979	17.765	100.05		
2	2.51	NO3-N	BMB	0.012	0.134	0.86		
3	3.99	SO4	BMB	0.143	0.967	23.81		

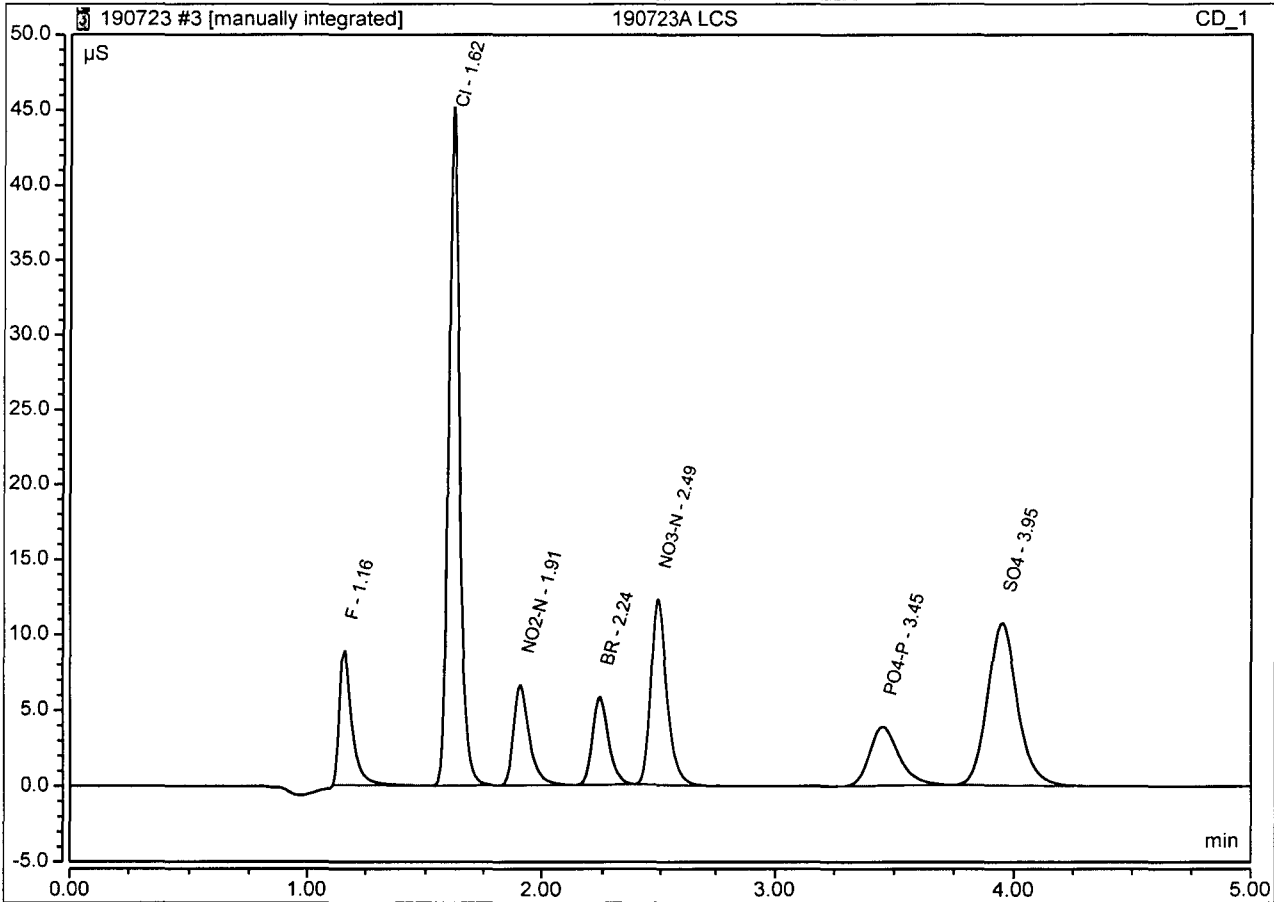


Logged on User: HH
 Instrument: Charlie System_1
 Sequence: 190723

Peak Integration Report

Sample Name:		190723A LCS			Inj. Vol.:		25uL	
Injection Type:		Check Standard			Dilution Factor:		1.00	
Program:		Anion APM 190621A			Operator:		chemist_wetlab	
Inj. Date / Time:		23-Jul-2019 / 08:04			Run Time:		5.00	

No.	Time (min)	Peak Name	Peak Type	Area (µS*min)	Height (µS)	Amount	Spike Level	Recovery
	min			µS*min	µS	mg/L	mg/L	
1	1.16	F	BMB*	0.546	8.909	5.34	5	106.7%
2	1.62	Cl	BMB	2.439	45.170	24.56	25	98.2%
3	1.91	NO2-N	BMB	0.525	6.641	3.30	3.04	108.5%
4	2.24	BR	BMB	0.439	5.830	12.98	12.5	103.8%
5	2.49	NO3-N	BMB	1.040	12.266	4.91	5	98.1%
6	3.45	PO4-P	BMB	0.558	3.894	9.17	10	91.7%
7	3.95	SO4	BMB	1.555	10.723	24.24	25	96.9%



F mi1 HH 190724, rP 190724

Algorithm Check

y = Peak Area

x = mg/L S04

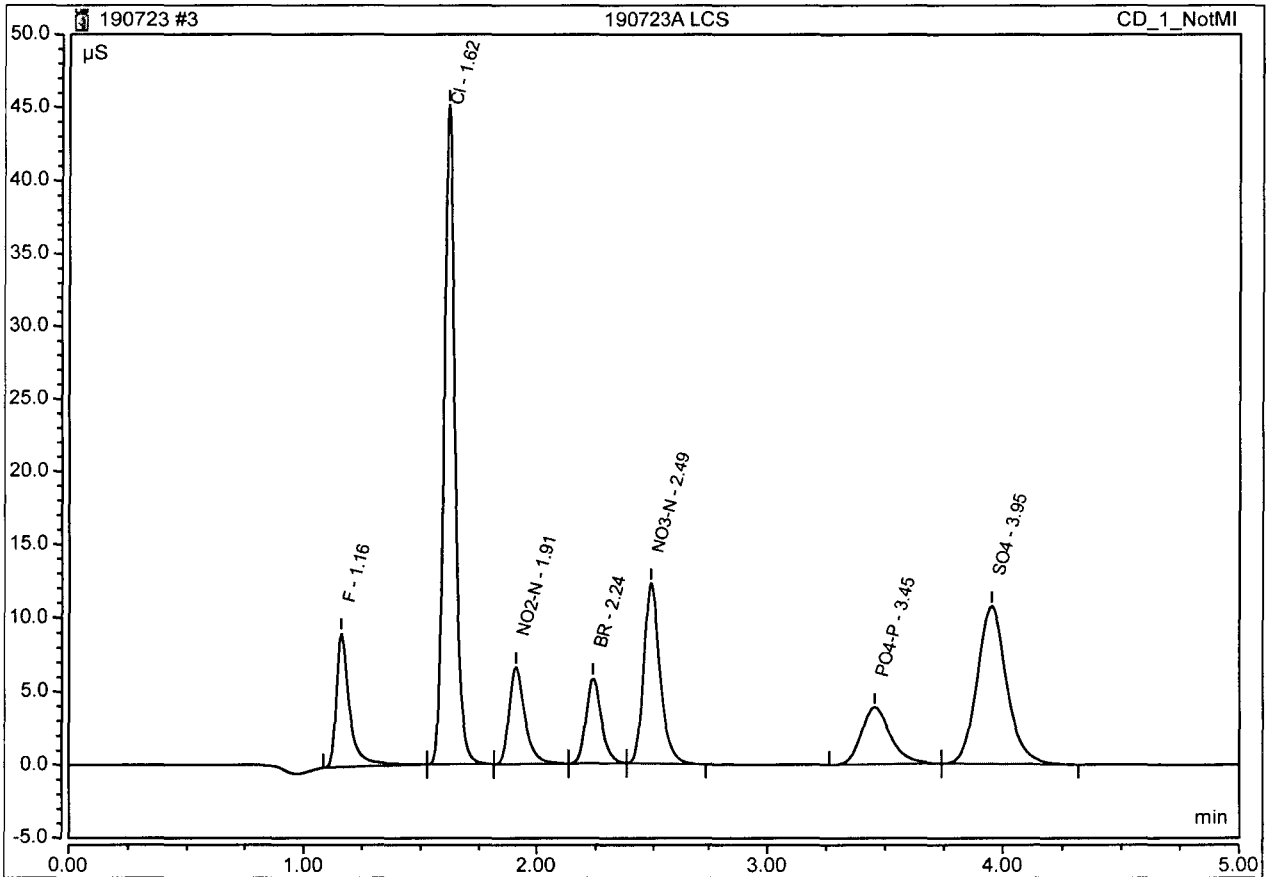
$$y = 0.0646 \quad x + \quad -0.0105$$

$$y = 1.5546 \quad \text{therefor } x = 24.23 \text{ HH 190723}$$

Not Manipulated Peak Integration Report

Sample Name:	190723A LCS	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.0000
Program:	Anion APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	23-Jul-2019 / 08:04	Run Time:	5.00

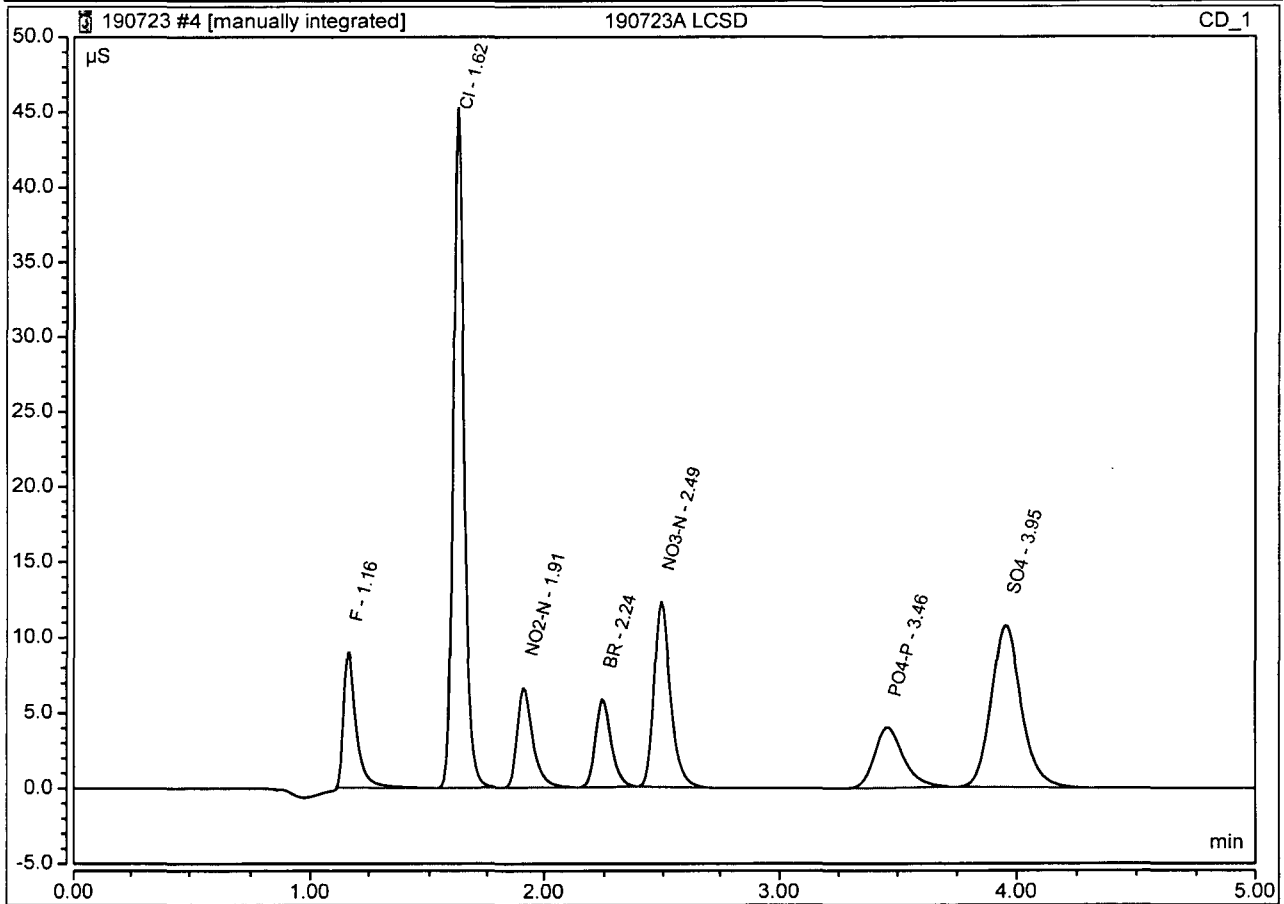
No.	Time min	Peak Name	Peak Type	Area uS*min	Height uS	Amount mg/L
1	1.16	F	BMB*	0.602	9.137	5.1771
2	1.62	Cl	BMB	2.439	45.170	24.5564
3	1.91	NO2-N	BMB	0.525	6.641	3.2976
4	2.24	BR	BMB	0.439	5.830	12.9760
5	2.49	NO3-N	BMB	1.040	12.266	4.9064
6	3.45	PO4-P	BMB	0.558	3.894	9.1799
7	3.95	SO4	BMB	1.555	10.723	24.2351



Peak Integration Report

Sample Name:		190723A LCSD			Inj. Vol.:		25uL	
Injection Type:		Check Standard			Dilution Factor:		1.00	
Program:		Anion APM 190621A			Operator:		chemist_wetlab	
Inj. Date / Time:		23-Jul-2019 / 08:12			Run Time:		5.00	

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.16	F	BMB*	0.551	8.977	5.38	5	107.7%
2	1.62	Cl	BMB	2.442	45.264	24.59	25	98.4%
3	1.91	NO2-N	BMB	0.525	6.655	3.30	3.04	108.6%
4	2.24	BR	BMB	0.438	5.835	12.96	12.5	103.7%
5	2.49	NO3-N	BMB	1.041	12.278	4.91	5	98.2%
6	3.46	PO4-P	BMB	0.571	3.990	9.37	10	93.7%
7	3.95	SO4	BMB	1.553	10.719	24.21	25	96.9%

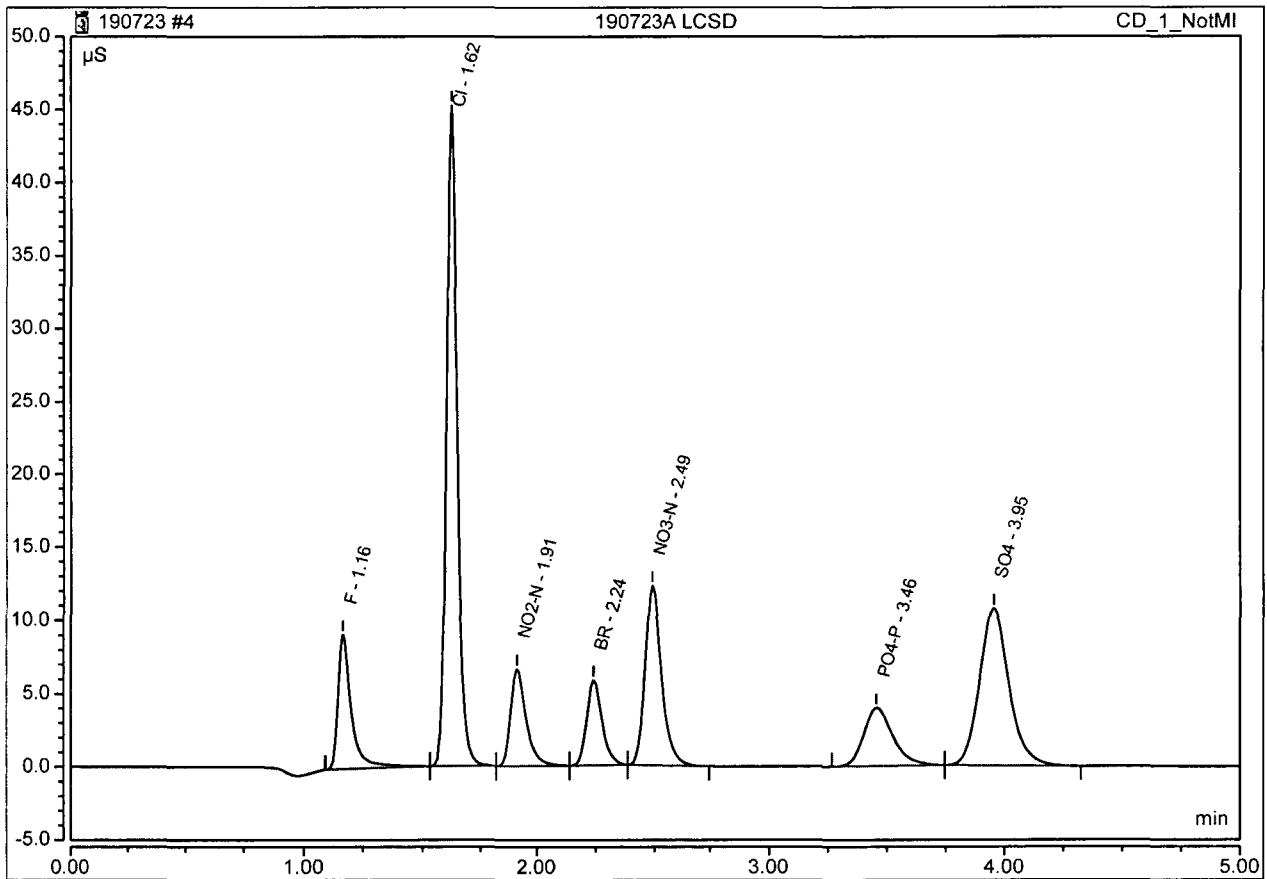


F mi1 HH 190724, rP 190724

Not Manipulated Peak Integration Report

Sample Name:	190723A LCSD	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.0000
Program:	Anion APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	23-Jul-2019 / 08:12	Run Time:	5.00

No.	Time min	Peak Name	Peak Type	Area uS*min	Height uS	Amount mg/L
1	1.16	F	BMB*	0.604	9.192	5.1942
2	1.62	Cl	BMB	2.442	45.264	24.5918
3	1.91	NO2-N	BMB	0.525	6.655	3.3029
4	2.24	BR	BMB	0.438	5.835	12.9627
5	2.49	NO3-N	BMB	1.041	12.278	4.9115
6	3.46	PO4-P	BMB	0.571	3.990	9.3745
7	3.95	SO4	BMB	1.553	10.719	24.2146



Anion Chromatography Working Standard									
Prep Date: 06/21/19									
Exp Date: 06/22/19									
Prep'd By (Initials): TH									
Initial Standard Information					Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc (ug/mL)
Ion Chromatography Standard Fluoride 1000ug/mL in H2O	o2si	O2SI-062002-01-01	1000	687393-38-40744	10/30/20	312.5 µL	25 mL	Millipore Water	12.5
Ion Chromatography Standard Nitrite 1000 ug/mL in H2O	Inorganic Ventures	7632-00-0	1000 as NO2	N2-NOX672889-40759	05/01/20	411 µL	25 mL	Millipore Water	5 as NO2-N
Ion Chromatography Standard Chloride, 500mL 5,000 mg/L in H2O	o2si	062001-08-03	5000	10084781-1-39578	02/21/20	250 µL	25 mL	Millipore Water	50
Ortho-Phosphate as P Standard	Ultra Scientific	ICC-005A	1000	G34-CP-3323-39057	08/31/23	625 µL	25 mL	Millipore Water	25
Ion Chromatography Standard Nitrate as N, 500mL 1,000 mg/L in H2O	o2si	062003-01-03	1000	880117-4-39577	02/21/20	250 µL	25 mL	Millipore Water	10
Bromide Standard	Ultra Scientific	ICC-001	1000	CR-5372-39521	12/31/21	625 µL	25 mL	Millipore Water	25
Sulfate Standard	Agilent	ICC-006	1000	CS-0688-40047	03/31/22	1250 µL	25 mL	Millipore Water	50

Anion Chromatography Calibration Curve									
Prep Date: 06/21/19									
Exp Date: 06/22/19									
Prep'd By (Initials): TH									
Initial Standard Information					Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. Range (ug/mL)	Reference To APPL Prep Date	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Conc. Range (ug/mL)
Ical2	Varries	ICal1	5.0-50.0	Prepared 06/21/19	06/22/19	400 µL	1000 µL	Millipore Water	0.08-0.40
Anion Chromatography Working Standard	Varries	ICal2	5.0-50.0	Prepared 06/21/19	06/22/19	20 µL	1000 µL	Millipore Water	0.1-1.0
Anion Chromatography Working Standard	Varries	ICal3	5.0-50.0	Prepared 06/21/19	06/22/19	50 µL	1000 µL	Millipore Water	0.25-2.5
Anion Chromatography Working Standard	Varries	ICal4	5.0-50.0	Prepared 06/21/19	06/22/19	100 µL	1000 µL	Millipore Water	0.5-5.0
Anion Chromatography Working Standard	Varries	ICal5	5.0-50.0	Prepared 06/21/19	06/22/19	200 µL	1000 µL	Millipore Water	1.0-10.0
Anion Chromatography Working Standard	Varries	ICal6	5.0-50.0	Prepared 06/21/19	06/22/19	500 µL	1000 µL	Millipore Water	2.5-25.0
Anion Chromatography Working Standard	Varries	ICal7	5.0-50.0	Prepared 06/21/19	06/22/19	700 µL	1000 µL	Millipore Water	3.5-35.0
Anion Chromatography Working Standard	Varries	ICal8	5.0-50.0	Prepared 06/21/19	06/22/19	1000 µL	1000 µL	Millipore Water	5.0-50.0

Anion Chromatography LCS/ICV									
Prep Date: See Injection Log									
Exp Date: 24 hours after prep									
Prep'd By (Initials): TH									
Initial Standard Information					Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. Range (ug/mL)	Lot Number - QA Number	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc (ug/mL)
Fluoride	Inorganic Ventures	ICF1	993-999	K-F652018-39801	10/23/19	125 µL	25 mL	Millipore Water	5
Nitrite	Inorganic Ventures	ICNO21	993-1001	M2-NOX660562-39802	10/23/19	250 µL	25 mL	Millipore Water	3.04
Chloride	Inorganic Ventures	ICCL1	995-1001	N2CL664868-39904	11/26/19	500 µL	25 mL	Millipore Water	20
O-Phosphate as P	Inorganic Ventures	IPPO41	1001-1009	M2-POX655826-39803	10/23/19	125 µL	25 mL	Millipore Water	10
Nitrate as N	Inorganic Ventures	ICNNO31	994-1002	N2-NOX667147-39510	10/23/19	125 µL	25 mL	Millipore Water	5
Ion Chromatography Bromide Standard	CPI International	4400-IC8M	1000	161681-8-39539	02/06/20	312.5 µL	25 mL	Millipore Water	12.5
Sulfate	Inorganic Ventures	ICSO41	998-1006	K2-SOX01111-38875	08/13/19	500 µL	25 mL	Millipore Water	20

Anion Chromatography CCV									
Prep Date: See Injection Log									
Exp Date: 24 hours after prep									
Prep'd By (Initials): TH									
Initial Standard Information					Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc (ug/mL)
Ion Chromatography Standard Fluoride 1000ug/mL in H2O	o2si	O2SI-062002-01-01	1000	687393-38-40744	10/30/20	125 µL	25 mL	Millipore Water	5
Ion Chromatography Standard Nitrite 1000 ug/mL in H2O	Inorganic Ventures	7632-00-0	1000	N2-NOX672889-40759	05/01/20	250 µL	25 mL	Millipore Water	3.04
Ion Chromatography Standard Chloride, 500mL 5,000 mg/L in H2O	o2si	062001-08-03	5000	10084781-1-39578	02/21/20	125 µL	25 mL	Millipore Water	25
Ortho-Phosphate as P Standard	Ultra Scientific	ICC-005A	1000	G34-CP-3323-39057	08/31/23	250 µL	25 mL	Millipore Water	10
Ion Chromatography Standard Nitrate as N, 500mL 1,000 mg/L in H2O	o2si	062003-01-03	1000	880117-4-39577	02/21/20	125 µL	25 mL	Millipore Water	5
Bromide Standard	Ultra Scientific	ICC-001	1000	CR-5372-39521	12/31/21	312.5 µL	25 mL	Millipore Water	12.5
Sulfate Standard	Agilent	ICC-006	1000	CS-0688-40047	03/31/22	625 µL	25 mL	Millipore Water	25

Method 300 and 9056 Injection Log

No.	Injection Description	Inject Time	Type
1	CCV 190621	21/Jun/2019 10:53	Check Standard
2	CCV 190621	21/Jun/2019 11:05	Check Standard
3	CCB 190621	21/Jun/2019 11:13	Unknown
4	test	21/Jun/2019 11:20	Check Standard
5	test	21/Jun/2019 11:27	Unknown
6	ICAL BLK	21/Jun/2019 11:36	Unknown
7	ICAL 1	21/Jun/2019 12:25	Calibration Standard
8	ICAL 2	21/Jun/2019 12:32	Calibration Standard
9	ICAL 3	21/Jun/2019 12:40	Calibration Standard
10	ICAL 4	21/Jun/2019 12:47	Calibration Standard
11	ICAL 5	21/Jun/2019 12:54	Calibration Standard
12	ICAL 6	21/Jun/2019 13:02	Calibration Standard
13	ICAL 7	21/Jun/2019 13:09	Calibration Standard
14	ICAL 8	21/Jun/2019 13:17	Calibration Standard
15	190621 ICV	21/Jun/2019 13:24	Check Standard
16	190621 ICVD	21/Jun/2019 13:31	Check Standard
17	190621 ICB	21/Jun/2019 13:46	Unknown

Logged on User: HH
Instrument: Charlie System_1
Sequence: 190723

Method 300 and 9056 Injection Log

No.	Position	Injection Description	Inject Time	Type	Comment
1	R2	CCV 190723	23/Jul/2019 07:50	Check Standard	
2	R1	CCB 190723	23/Jul/2019 07:57	Unknown	
3	R3	190723A LCS	23/Jul/2019 08:04	Check Standard	
4	R3	190723A LCSD	23/Jul/2019 08:12	Check Standard	
5	RA1	AZ95089W01 df2	23/Jul/2019 08:19	Unknown	
6	GA1	AZ95113W10	23/Jul/2019 08:27	Unknown	
7	GA2	AZ95114W10	23/Jul/2019 08:35	Unknown	
8	GA3	AZ95115W10	23/Jul/2019 08:42	Unknown	
9	GA4	AZ95116W10	23/Jul/2019 08:50	Unknown	
10	R2	CCV 190723	23/Jul/2019 08:57	Check Standard	
11	R1	CCB 190723	23/Jul/2019 09:05	Unknown	
12	R2	CCV 190723	23/Jul/2019 14:03	Check Standard	
13	R1	CCB 190723	23/Jul/2019 14:11	Unknown	
14	RA1	AZ95189W11	23/Jul/2019 16:14	Unknown	
15	RA2	AZ95187W06	23/Jul/2019 16:21	Unknown	
16	R2	CCV 190723	23/Jul/2019 16:29	Check Standard	
17	R1	CCB 190723	23/Jul/2019 16:36	Unknown	
18	RB1	AZ95189W11 df10	23/Jul/2019 16:43	Unknown	
19	RB2	AZ95187W06 df10	23/Jul/2019 16:51	Unknown	
20	R2	CCV 190723	23/Jul/2019 16:58	Check Standard	
21	R1	CCB 190723	23/Jul/2019 17:06	Unknown	
22	R2	stop	23/Jul/2019 17:11	Unknown	

Wetlab - Standard MultiLevel Review

ARF number(s) 89570

Analytical Method / APPL SOP: 300W (Cl, SO4, NO3)
Comments / Cover Letter Data Qualifiers:

MS/MSD (parent and df10) ran on 7/24; not uploaded. Client does not req MS/MSD for 300.

Name of analyst(s) / Date: HH 190723

Analytical Method / APPL SOP:
Comments / Cover Letter Data Qualifiers:

Name of analyst(s) / Date:

Analytical Method / APPL SOP:
Comments / Cover Letter Data Qualifiers:

Name of analyst(s) / Date:

Analytical Method / APPL SOP:
Comments / Cover Letter Data Qualifiers:

Name of analyst(s) / Date:

Analytical Method / APPL SOP:
Comments / Cover Letter Data Qualifiers:

Name of analyst(s) / Date:

Analytical Method / APPL SOP:
Comments / Cover Letter Data Qualifiers:

Name of analyst(s) / Date:

Analytical Method / APPL SOP:
Comments / Cover Letter Data Qualifiers:

Name of analyst(s) / Date:

Analytical Method / APPL SOP:
Comments / Cover Letter Data Qualifiers:

Name of analyst(s) / Date:

Analytical Method / APPL SOP:
Comments / Cover Letter Data Qualifiers:

Name of analyst(s) / Date:

Analytical Method / APPL SOP:
Comments / Cover Letter Data Qualifiers:

Name of analyst(s) / Date:

The analyst's initials indicate: The results meet all lab-specific QC (including blanks, LCS, all calibration criteria, etc.), the results were checked to determine consistency with project-specific performance criteria, the appropriate sample prep, SOPs and methods were followed and COC requirements and holding times were met, the complete and accurate explanation of anomalous results, corrections, and use of data qualifiers in the cover letter.

Name of technical reviewer / Date: BW 190823

INORGANIC ANALYSIS
Calibration Data

A.P.P.L. INC.
2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: AECOM

ARF No: 89570 SDG: 89570

Initial Calibration Source: Inorganic Ventures

Continuing Calibration Source: o2si

Analysis Date: 07/31/19

Analyte	Calibration Verification									M
	True ICV	Found 17:21	%R(1)	True CCV1	Found 18:20	%R(1)	True CCV1	Found 18:47	%R(1)	
TOXN	3	2.8764	95.9	3	2.7636	92.1	3	2.7201	90.7	

(1) Control Limits: 90-110

ILM02.0

A.P.P.L. INC.
2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: CH2M / Jacobs

ARF No: 89567 SDG: 89567

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 07/23/19

Analyte	Calibration Verification									M
	True ICV	Found 7:06	%R(1)	True CCV1	Found 16:23	%R(1)	True CCV1	Found 16:26	%R(1)	
Ferrous Iron	3	3.00149	100	4	4.02608	101	4	4.00657	100	

A.P.P.L. INC.

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: AECOM

ARF No: 89570 SDG: 89570

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 08/02/19

Analyte	Calibration Verification									M
	True CCV1	Found 17:00	%R(1)	True ICV	Found 17:01	%R(1)	True CCV1	Found 17:02	%R(1)	
Ferrous Iron	4	4.06511	102	3	2.92342	97.4	4	4.17245	104	

Name of Final Standard **TOC Calibration Curve**
 Prep Date 06/11/19
 Exp Date 07/09/19

Prep'd By (Initials) AR

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	20 uL	40 mL	DI Water	0.5 ppm
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	50 uL	40 mL	DI Water	1.25 ppm
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	100 uL	40 mL	DI Water	2.5 ppm
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	150 uL	40 mL	DI Water	3.75 ppm
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	200 uL	40 mL	DI Water	5 ppm

Name of Final Standard CCV (TOC)
 Prep Date 07/31/19
 Exp Date 08/28/19

Prep'd By (Initials) AR

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	100 uL	40 mL	DI Water	2.5 ppm

Name of Final Standard TOC LCS/LCSD
 Prep Date 07/31/19
 Exp Date 08/28/19

Prep'd By (Initials) AR

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	ULTRA Scientific	IQC-106-5	1000 mg/L	CR-0328-37639	*02/28/2019	100 uL	40 mL	DI Water	2.5 ppm

Name of Final Standard TOC MS/MSD
 Prep Date 07/31/19
 Exp Date 08/28/19

Prep'd By (Initials) AR

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	ULTRA Scientific	IQC-106-5	1000 mg/L	CR-0328-37639	*02/28/2019	100 uL	40 mL	sample	2.5 ppm

*APPL re-certified TOC Lot CR-0328-37639 and extended the expiration date for 6 months to 8/28/19 per verification with a second source Lot CR-5157-40233 injected on 2/28/19

A.P.P.L. INC.

3

BLANKS

Lab Name: A.P.P.L. INC.

Contract: AECOM

ARF No.: 89570

SDG: 89570

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): mg/L

Analyte	Calibration Blanks										M
	ICB 07/31/19 17:22	C	CCB 07/31/19 18:22	C	CCB 07/31/19 18:50	C		C		C	
TOXN	.100	U	.100	U	.100	U					

A.P.P.L. INC.

3

BLANKS

Lab Name: A.P.P.L. INC.

Contract: CH2M / Jacobs

ARF No.: 89567

SDG: 89567

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): mg/L

Analyte	Calibration Blanks										M
	CCB 07/25/19 16:25	C	CCB 07/29/19 16:27	C		C		C		C	
Ferrous Iron	1.000	U	1.000	U							

A.P.P.L. INC.

3

BLANKS

Lab Name: A.P.P.L. INC.

Contract: AECOM

ARF No.: 89570

SDG: 89570

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): mg/L

Analyte	Calibration Blanks										M
	CCB 08/02/19 17:00	C	CCB 08/02/19 17:03	C		C		C		C	
Ferrous Iron	1.000	U	1.000	U							

INORGANIC ANALYSIS
Raw Data

AQ2 Tray Report



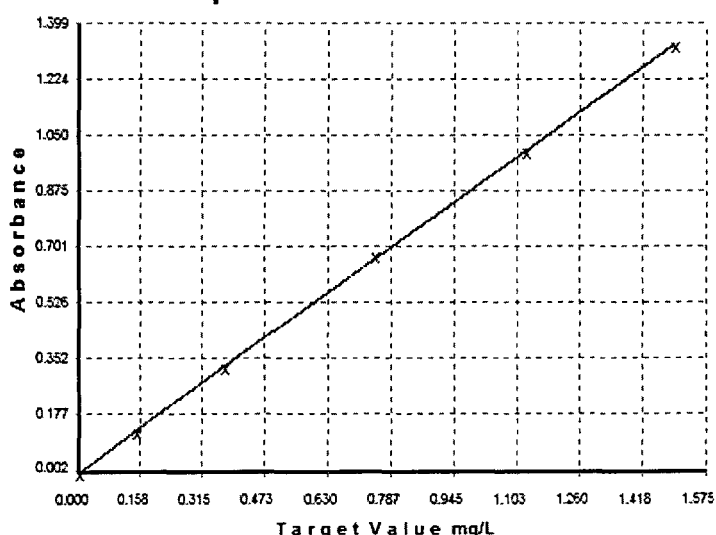
Serial Number: 190170
Software Version: 2.1.0
Report Requested By: Eve V
Date & Time: 2019-08-01 17:05:18
Tray Number: 8
Tray Name: 190731A NO2 NO3 TOXN CCV ICV

Nitrite-N

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0025	0.0009	0.0000	
S90	0.1338	0.1485	0.1500	-0.99
S91	0.3299	0.3689	0.3750	-1.62
S92	0.6766	0.7585	0.7500	1.14
S93	1.0051	1.1277	1.1250	0.24
S94	1.3322	1.4953	1.5000	-0.31
S0	0.0143	0.0142	0.0000	

Calibration Graph



Polynomial Order: 1
 Correlation Coefficient: 1.0000
 Carryover(%): 0.9
 Calibration equation: $y = bx + a$
 y =: Concentration mg/L
 x =: Measured absorbance
 a =: -1.819091E-003
 b =: 1.123808E+000
 Date & Time: 2019-07-31 16:43:28

$y = 1.123808(0.647726) - 0.001819091$
 $= 0.726101 \checkmark$

Reagents

Name
 Sulfa-NEDD
 NO2 Buffer

Batch

Prepared By

Expiry Date

Joel
Joel

Handwritten: 726101 ✓
726101 190823

Test Results

Cup	Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
	S1	Standard 1	0.0025			0.002451			Ev	2019-07-31 16:36:42
	S90	Standard 90	0.1338			0.133773			Ev	2019-07-31 16:37:55
	S91	Standard 91	0.3299			0.329910			Ev	2019-07-31 16:39:09
	S92	Standard 92	0.6766			0.676576			Ev	2019-07-31 16:40:22
	S93	Standard 93	1.0051			1.005118			Ev	2019-07-31 16:41:35
	S94	Standard 94	1.3322			1.332225			Ev	2019-07-31 16:42:50
	S0	Standard 0	0.0143			0.014288			Ev	2019-07-31 16:43:28
	CCV	CCV .75	0.7265	mg/L		0.648105			Ev	2019-07-31 16:45:37
	CCB	CCB	0.0081	mg/L		0.008815			Ev	2019-07-31 16:47:51
3	U1	ICV NO2	0.7261	mg/L		0.647726			Ev	2019-07-31 16:50:08
5	U3	ICB NO2 NO3 TOXN	0.0070	mg/L		0.007844			Ev	2019-07-31 16:52:26
6	U4	1ppm NO2	0.9797	mg/L		0.873402			Ev	2019-07-31 16:54:44
	CCV	CCV .75	0.7276	mg/L		0.649054			Ev	2019-07-31 16:57:01
	CCB	CCB	0.0065	mg/L		0.007367			Ev	2019-07-31 16:59:13

TOXN

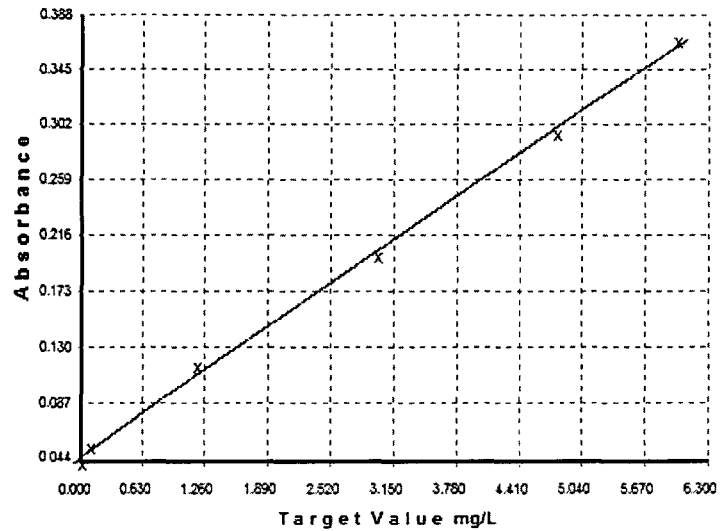
Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0441	-0.0939	0.0000	
S90	0.0573	0.1572	0.1000	57.21
S91	0.1183	1.3178	1.2000	9.81
S92	0.2030	2.9275	3.0000	-2.42
S93	0.2962	4.6982	4.8000	-2.12
S94	0.3695	6.0932	6.0000	1.55
S0	0.0455	-0.0672	0.0000	

Polynomial Order: 1
 Correlation Coefficient: 0.9992
 Carryover(%): 0.4
 Calibration equation: $y = bx + a$
 y =: Concentration mg/L
 x =: Measured absorbance
 a =: -9.320405E-001
 b =: 1.901030E+001
 Date & Time: 2019-07-31 17:18:49

$y = 19.01030(0.200333) - 0.9320405$
 $= 2.87635 \checkmark$ *PaD* 190823

Calibration Graph



Reagents

Name	Batch	Prepared By	Expiry Date
NO3 W Buffer		Joel	
Sulfa-NEDD		Joel	

Test Results

Cup	Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
	S1	Standard 1	0.0441			0.044090			Ev	2019-07-31 17:08:05
	S90	Standard 90	0.0573			0.057298			Ev	2019-07-31 17:10:22
	S91	Standard 91	0.1183			0.118347			Ev	2019-07-31 17:12:36
	S92	Standard 92	0.2030			0.203024			Ev	2019-07-31 17:14:48
	S93	Standard 93	0.2962			0.296168			Ev	2019-07-31 17:17:05
	S94	Standard 94	0.3695			0.369548			Ev	2019-07-31 17:17:44
	S0	Standard 0	0.0455			0.045492			Ev	2019-07-31 17:18:49
	CCV	CCV	2.8695	mg/L		0.199973			Ev	2019-07-31 17:19:45
	CCB	CCB	-0.0894	mg/L		0.044326			Ev	2019-07-31 17:20:41
4	U2	ICV NO3 TOXN	2.8764	mg/L		0.200333			Ev	2019-07-31 17:21:38
5	U3	ICB NO2 NO3 TOXN	-0.0417	mg/L		0.046836			Ev	2019-07-31 17:22:34
7	U5	1ppm NO3 TOXN	0.8475	mg/L		0.093608			Ev	2019-07-31 17:23:30
	CCV	CCV	2.7822	mg/L		0.195380			Ev	2019-07-31 17:24:27
	CCB	CCB	-0.1103	mg/L		0.043226			Ev	2019-07-31 17:25:23

Nitrate-N

Test Results

Cup	Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
5	U3	ICB NO2 NO3 TOXN	-0.0487	mg/L		0.000000			Ev	2019-07-31 17:22:34
5	U3	ICB NO2 NO3 TOXN				0.000000			Ev	2019-07-31 17:22:34

AQ2 Tray Report



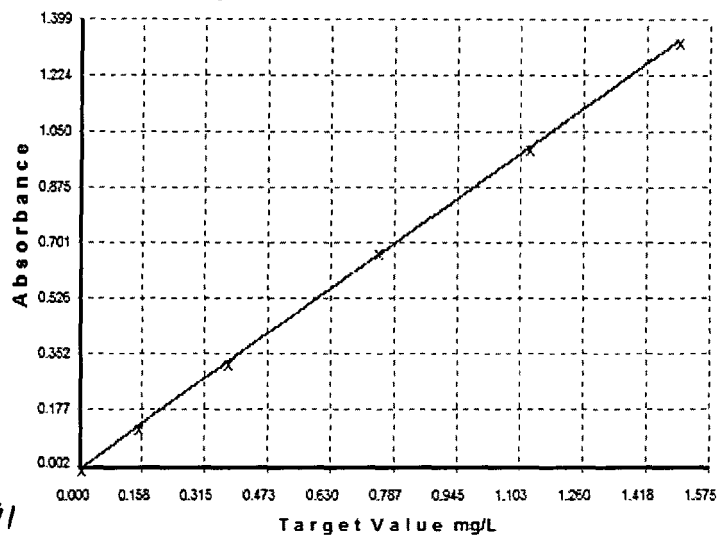
Serial Number: 190170
Software Version: 2.1.0
Report Requested By: Eve V
Date & Time: 2019-08-01 17:07:31
Tray Number: 1
Tray Name: 190731B NO2 NO3 TOXN

Nitrite-N

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0025	0.0009	0.0000	
S90	0.1338	0.1485	0.1500	-0.99
S91	0.3299	0.3689	0.3750	-1.62
S92	0.6766	0.7585	0.7500	1.14
S93	1.0051	1.1277	1.1250	0.24
S94	1.3322	1.4953	1.5000	-0.31
S0	0.0143	0.0142	0.0000	

Calibration Graph



Polynomial Order: 1
 Correlation Coefficient: 1.0000
 Carryover(%): 0.9
 Calibration equation: $y = bx + a$
 y =: Concentration mg/L
 x =: Measured absorbance
 a =: -1.819091E-003
 b =: 1.123808E+000
 Date & Time: 2019-07-31 16:43:28

$y = 1.123808(0.635951) - 0.001819091$
 $= 0.712868$ ✓ *raw 190823*

Reagents

Name
 Sulfa-NEDD
 NO2 Buffer

Batch

Prepared By
 Joel
 Joel

Expiry Date

Test Results

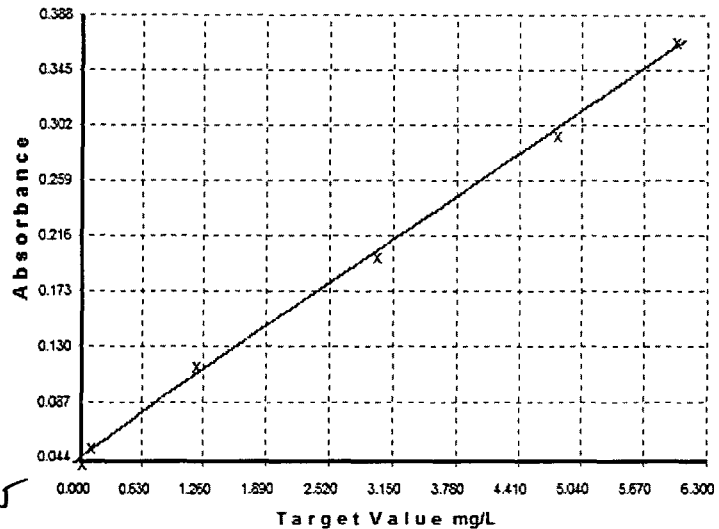
Cup Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
CCV	CCV .75	0.7361	mg/L		0.656594			Ev	2019-07-31 17:59:53
CCB	CCB	0.0072	mg/L		0.007989			Ev	2019-07-31 18:02:10
3 U1	190730A BLK NO2 NO3 TOXN	0.0311	mg/L		0.004385		x10.0000	Ev	2019-07-31 18:04:27
4 U2	190730B BLK NO2 NO3 TOXN	0.0338	mg/L		0.004629		x10.0000	Ev	2019-07-31 18:06:42
CCV	CCV .75	0.7129	mg/L		0.635951			Ev	2019-07-31 18:08:59
CCB	CCB	0.0062	mg/L		0.007165			Ev	2019-07-31 18:11:16

TOXN

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0441	-0.0939	0.0000	
S90	0.0573	0.1572	0.1000	57.21
S91	0.1183	1.3178	1.2000	9.81
S92	0.2030	2.9275	3.0000	-2.42
S93	0.2962	4.6982	4.8000	-2.12
S94	0.3695	6.0932	6.0000	1.55
S0	0.0455	-0.0672	0.0000	

Calibration Graph



Polynomial Order: 1
 Correlation Coefficient: 0.9992
 Carryover(%): 0.4
 Calibration equation: $y = bx + a$
 y =: Concentration mg/L
 x =: Measured absorbance
 a =: -9.320405E-001
 b =: 1.901030E+001
 Date & Time: 2019-07-31 17:18:49

$y = 19.01030(0.194245) - 0.9320405$
 $= 2.76042$ *Joel 190823*

Reagents

Name	Batch	Prepared By	Expiry Date
NO3 W Buffer		Joel	
Sulfa-NEDD		Joel	

Test Results

Cup Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
CCV	CCV	2.7636	mg/L		0.194400			Ev	2019-07-31 18:20:17
CCB	CCB	-0.1627	mg/L		0.040471			Ev	2019-07-31 18:22:33
3 U1	190730A BLK NO2 NO3 TOXN	-0.7801	mg/L		0.044925		x10.0000	Ev	2019-07-31 18:24:50
4 U2	190730B BLK NO2 NO3 TOXN	-0.6182	mg/L		0.045776		x10.0000	Ev	2019-07-31 18:27:07
5 U3	190731A BLK	-0.0124	mg/L		0.048374			Ev	2019-07-31 18:29:25
6 U4	190731A LCS TOXN	2.7606	mg/L		0.194245			Ev	2019-07-31 18:31:42
7 U5	190731A LCSD TOXN	2.9137	mg/L		0.202299			Ev	2019-07-31 18:34:00
8 U6	AZ95187W07	0.8895	mg/L		0.095817			Ev	2019-07-31 18:36:18
9 U7	AZ95189W13	0.4942	mg/L		0.075023			Ev	2019-07-31 18:38:36
10 U8	AZ95189W13 MS	3.7402	mg/L		0.245775			Ev	2019-07-31 18:40:54
11 U9	AZ95189W13 MSD	3.8658	mg/L		0.252383			Ev	2019-07-31 18:43:13
12 U10	AZ95329W08	-0.0852	mg/L		0.044546			Ev	2019-07-31 18:45:31
CCV	CCV	2.7201	mg/L		0.192116			Ev	2019-07-31 18:47:50
CCB	CCB	0.0118	mg/L		0.049647			Ev	2019-07-31 18:50:09
13 U11	AZ95332W08	1.4891	mg/L		0.127362			Ev	2019-07-31 18:52:27
14 U12	AZ95334W08	0.4455	mg/L		0.072463			Ev	2019-07-31 18:54:46
15 U13	AZ95336W08	0.6697	mg/L		0.084259			Ev	2019-07-31 18:55:26
16 U14	AZ95338W08	0.4720	mg/L		0.073859			Ev	2019-07-31 18:56:31
17 U15	AZ95419W06	-0.1261ELL	mg/L		0.042394			Ev	2019-07-31 18:57:27
18 U16	AZ95421W06	0.3254	mg/L		0.066145			Ev	2019-07-31 18:58:23
19 U17	AZ95423W06	1.6689	mg/L		0.136820			Ev	2019-07-31 18:59:19
20 U18	AZ95511W08	0.3905	mg/L		0.069567			Ev	2019-07-31 19:00:16
21 U19	AZ95513W08	0.1628	mg/L		0.057590			Ev	2019-07-31 19:01:12
CCV	CCV	2.8221	mg/L		0.197480			Ev	2019-07-31 19:02:08
CCB	CCB	-0.1225	mg/L		0.042582			Ev	2019-07-31 19:03:05

Nitrate-N

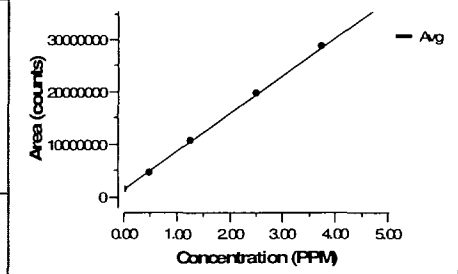
Test Results

Cup Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
3	U1 190730A BLK NO2 NO3 TOXN	-0.8112	mg/L		0.000000		x10.0000	Ev	2019-07-31 18:24:50
3	U1 190730A BLK NO2 NO3 TOXN				0.000000		x10.0000	Ev	2019-07-31 18:24:50
4	U2 190730B BLK NO2 NO3 TOXN	-0.6520	mg/L		0.000000		x10.0000	Ev	2019-07-31 18:27:07
4	U2 190730B BLK NO2 NO3 TOXN				0.000000		x10.0000	Ev	2019-07-31 18:27:07

TOTAL ORGANIC CARBON				
Method: WetChem	Units mg/L	Instrument: Tic Toc		
Analyte: TOC	QCG: 190801B			
Analyst: AR	Final Volume: 40mL			

Date	Time	Appl ID	[TOC]	Raw	% Recovery
06/11/19	17:42	QC blank	0.00	1316906.000	
06/11/19	18:20	Ical 1	0.50	4509403.000	
06/11/19	18:52	Ical 2	1.25	10661265.000	
06/11/19	19:23	Ical 3	2.50	19817176.000	
06/11/19	19:56	Ical 4	3.75	28801267.000	
06/11/19	20:28	Ical 5	5.00	37233293.000	
06/11/19	21:26	ICB	0.33	1187234.000	
06/11/19	22:00	ICV	2.72	19729462.000	108.6%

r^2= 0.9987



Date	Time	Appl ID	DF	Raw Result	SubSample Amount	Calc Conc	Result	QC True	% Recovery
2019-08-02	12:48 AM	CCV	1	22507593	40mL	2.734	2.73	2.50	109.4%
2019-08-02	01:23 AM	CCB	1	2951536	40mL	0.06	0.06		
2019-08-02	01:57 AM	190731B LCS	1	23658639	40mL	2.892	2.89	2.50	115.7%
2019-08-02	02:32 AM	190731B LCSD	1	23291430	40mL	2.841	2.84	2.50	113.6%
2019-08-02	03:07 AM	AZ95116W15	1	9916590	40mL	1.294	1.29		
2019-08-02	03:39 AM	AZ95117W14	1	18434184	40mL	2.466	2.47		
2019-08-02	04:11 AM	AZ95118W14	1	18889962	40mL	2.529	2.53		
2019-08-02	04:43 AM	AZ95166W15	*	56345900	40mL	7.683	#VALUE!		
2019-08-02	05:16 AM	AZ95167W15	*	75344281	40mL	10.297	#VALUE!		
2019-08-02	05:50 AM	AZ95168W15	1	28998872	40mL	3.92	3.92		
2019-08-02	06:22 AM	AZ95169W15	*	93414082	40mL	12.783	#VALUE!		
2019-08-02	06:55 AM	AZ95170W14	1	24253767	40mL	3.267	3.27		
2019-08-02	07:27 AM	AZ95171W14	1	17217128	40mL	2.299	2.30		
2019-08-02	07:59 AM	AZ95172W14	1	17517675	40mL	2.34	2.34		
2019-08-02	08:32 AM	AZ95172W14 DUP	1	17543115	40mL	2.343	2.34		
2019-08-02	09:04 AM	CCV	1	22687507	40mL	2.759	2.76	2.50	110.4%
2019-08-02	09:39 AM	CCB	1	2692446	40mL	0.012	0.01		
2019-08-02	10:13 AM	AZ95173W32	1	16139899	40mL	2.151	2.15		
2019-08-02	10:45 AM	AZ95173W32 DUP	1	16241658	40mL	2.164	2.16		
2019-08-02	11:17 AM	AZ95173W32 MS	1	35105273	40mL	4.76	4.76		
2019-08-02	11:49 AM	AZ95173W32 MSD	1	32655548	40mL	4.423	4.42		
2019-08-02	12:22 PM	AZ95187W05	1	5674047	40mL	0.71	0.71		
2019-08-02	12:53 PM	AZ95189W10	1	4242884	40mL	0.513	0.51		
2019-08-02	01:25 PM	AZ95233W15	1	35068590	40mL	4.755	4.76		
2019-08-02	01:58 PM	AZ95234W15	*	41893974	40mL	5.694	#VALUE!		
2019-08-02	02:31 PM	AZ95235W15	*	68966963	40mL	9.419	#VALUE!		
2019-08-02	03:04 PM	AZ95329W05	1	32225746	40mL	4.364	4.36		
2019-08-02	03:38 PM	CCV	1	22063142	40mL	2.672	2.67	2.50	106.9%
2019-08-02	04:13 PM	CCB	1	2617784	40mL	0.014	0.01		
2019-08-02	04:47 PM	AZ95332W06	1	13653729	40mL	1.808	1.81		
2019-08-02	05:19 PM	AZ95334W06	1	5252489	40mL	0.652	0.65		
2019-08-02	05:50 PM	AZ95336W05	1	5365224	40mL	0.668	0.67		
2019-08-02	09:43 PM	CCV	1	22188435	40mL	2.69	2.69	2.50	107.6%
2019-08-02	10:18 PM	CCB	1	2426978	40mL	0.014	0.01		

Method SM3500Fe		Units mg/L		Rev 2, 04-05-19		Instrument: Genis Spectrometer	
Analyte Fe2+		QCG: 190723		Wavelength: 510 nm		Units: mg/L	
Analyst fjr/HH		Final Volume: 50mL					
Date	Time	Appl ID	[Fe2+]	Absorbance	% Recovery		
06/28/19	12:48	ICB	0.00	0.000			
06/28/19	12:49	Ical 1	1.00	0.092	95.2%		
06/28/19	12:50	Ical 2	2.00	0.195	97.9%		
06/28/19	12:51	Ical 3	4.00	0.408	100.0%		
06/28/19	12:51	Ical 4	5.00	0.507	100.0%		
06/28/19	12:52	Ical 5	10.00	1.019	100.0%		
06/28/19	13:08	ICV	3.00	0.326	107.9%		
06/28/19	12:53	ICB	0.00	0.002			

Slope	0.102479592	Algorithm Check:	Appl ID	Absorbance	Result
Intercept	-0.005591837		ICV/LCS 190723A	0.302	3.00
Coefficient of Determination	0.999872044	Result = (Absorbance-Raw Blk-Intercept)/ Slope			
		Test:	FJR	07/23/19	3.00

Date	Time	Appl ID	DF	Raw Result	SubSample Amount	Raw BLK	Calc Conc	Result	QC True	% Recovery
07/23/19	7:05	CCV 4.0 190723	1	0.392	25mL		3.88	3.88	4.00	97.0%
07/23/19	7:05	CCB 190723	1	0.000	25mL		0.05	0.05		
07/23/19	7:06	ICV/LCS 190723A	1	0.302	25mL		3.00	3.00	3.00	100.0%
07/23/19	7:06	AZ95166W13	1	0.017	25mL		0.22	0.22		
07/23/19	7:06	AZ95167W13	1	0.274	25mL		2.73	2.73		
07/23/19	7:07	AZ95168W13	1	0.120	25mL		1.23	1.23		
07/23/19	7:07	AZ95169W13	1	0.101	25mL		1.04	1.04		
07/23/19	7:09	AZ95170W12	1	0.387	25mL		3.83	3.83		
07/23/19	7:09	AZ95171W12	1	0.005	25mL		0.10	0.10		
07/23/19	7:10	AZ95172W12	1	0.003	25mL		0.08	0.08		
07/23/19	7:10	AZ95173W24	1	0.004	25mL		0.09	0.09		
07/23/19	7:11	AZ95173W24 MS	1	0.303	25mL		3.01	3.01		
07/23/19	7:12	AZ95173W24 MSD	1	0.307	25mL		3.05	3.05		
07/23/19	7:12	CCV 4.0 190723	1	0.409	25mL		4.05	4.05	4.00	101.1%
07/23/19	7:13	CCB 190723	1	0.000	25mL		0.05	0.05		
07/24/19	16:23	CCV 4.0 190723	1	0.407	25mL		4.03	4.03	4.00	100.7%
07/25/19	16:25	CCB 190723	1	0.000	25mL		0.05	0.05		
07/26/19	16:26	AZ95189W15	1	0.003	25mL		0.08	0.08		
07/27/19	16:26	AZ95187W08	1	0.004	25mL		0.09	0.09		
07/28/19	16:26	CCV 4.0 190723	1	0.405	25mL		4.01	4.01		
07/29/19	16:27	CCB 190723	1	0.004	25mL		0.09	0.09		

Method SM3500Fe	Ferrous Iron	Rev 2, 04-05-19
Analyte Fe2+	Units mg/L	Instrument: Genesis Spectrometer
Analyst fjr	QCG: 190802	Wavelength: 510 nm
	Final Volume: 50mL	Units: mg/L

Date	Time	Appl ID	[Fe2+]	Absorbance	% Recovery
06/28/19	12:48	ICB	0.00	0.000	
06/28/19	12:49	Ical 1	1.00	0.092	95.2%
06/28/19	12:50	Ical 2	2.00	0.195	97.9%
06/28/19	12:51	Ical 3	4.00	0.408	100.9%
06/28/19	12:51	Ical 4	5.00	0.507	100.0%
06/28/19	12:52	Ical 5	10.00	1.019	100.0%
06/28/19	13:08	ICV	3.00	0.326	107.9%
06/28/19	12:53	ICB	0.00	0.002	

Slope	0.102479592	Algorithm Check: Appl ID: ICV/LCS 190802A Absorbance: 0.294 Result: 2.92 Result = (Absorbance-Raw Blk-Intercept)/ Slope Test: FJR 08/02/19 2.92
Intercept	-0.005591837	
Coefficient of Determination	0.999872044	

Date	Time	Appl ID	DF	Raw Result	SubSample Amount	Raw BLK	Calc Conc	Result	QC True	% Recovery
08/02/19	17:00	CCV 4.0 190802	1	0.411	25mL		4.07	4.07	4.00	101.6%
08/02/19	17:00	CCB 190802	1	0.000	25mL		0.05	0.05		
08/02/19	17:01	ICV/LCS 190802A	1	0.294	25mL		2.92	2.92	3.00	97.4%
08/02/19	17:01	AZ95187W08	1	0.010	25mL		0.15	0.15		
08/02/19	17:02	AZ95187W08 MS	1	0.324	25mL		3.22	3.22		
08/02/19	17:02	AZ95187W08 MSD	1	0.329	25mL		3.26	3.26		
08/02/19	17:02	CCV 4.0 190802	1	0.422	25mL		4.17	4.17	4.00	104.3%
08/02/19	17:03	CCB 190802	1	0.001	25mL		0.06	0.06		

Metrohm 814/809 Titrando Data

Sample ID	Analysis Date/Time	Method	Titration Volume					Total Alk	Unit	Sample Vol	N	Batch	Initials
			(to 8.3)	(total)	OH	CO3	HCO3						
AZ95189W11 MSD	2019-07-31 17:34:52 UTC-7	Alkalinity	0.000	7.312	0.00	0.00	301.25	301.25	mg/L	25 mL	0.0206	190731A	AR
AZ95189W11 MS	2019-07-31 17:27:26 UTC-7	Alkalinity	0.000	7.216	0.00	0.00	297.30	297.30	mg/L	25 mL	0.0206	190731A	AR
AZ95189W11 DUP	2019-07-31 17:18:36 UTC-7	Alkalinity	0.000	1.502	0.00	0.00	61.88	61.88	mg/L	25 mL	0.0206	190731A	AR
AZ95189W11	2019-07-31 17:10:05 UTC-7	Alkalinity	0.000	1.464	0.00	0.00	60.32	60.32	mg/L	25 mL	0.0206	190731A	AR
AZ95187W06	2019-07-31 17:02:05 UTC-7	Alkalinity	0.000	2.638	0.00	0.00	108.69	108.69	mg/L	25 mL	0.0206	190731A	AR
190731A LCSD	2019-07-31 15:08:22 UTC-7	Alkalinity	0.000	6.042	0.00	0.00	248.93	248.93	mg/L	25 mL	0.0206	190731A	AR
190731A LCS	2019-07-31 15:02:20 UTC-7	Alkalinity	0.000	6.112	0.00	0.00	251.81	251.81	mg/L	25 mL	0.0206	190731A	AR
190731A BLK	2019-07-31 14:55:21 UTC-7	Alkalinity	0.000	0.090	0.00	0.00	3.71	3.71	mg/L	25 mL	0.0206	190731A	AR

TDS Standard Prep										
Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Unit	Conc	Lot Number - QA Number	Prep/Opened	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc
Inorganic Spike(NaHCO3)	BDH	NA	NA	1575C510	10/18/18	08/14/20	PURCHASED	NA	NA	NA
Inorganic Spike Solution	BDH	Milligrams/Liters	4167mg/L	1575C510	03/25/19	03/25/20	3.5g	500mL	DI	4167mg/L

Tiamo Alkalinity Standard Prep										
Prep Date:						Prep'd By (Initials): AR				
Exp Date:										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Unit	Conc	Lot Number - QA Number	Prep/Opened	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc
Sulfuric Acid (H2SO4)	J.T.Baker	NA	NA	167828	NA	NA	PURCHASED	NA	NA	NA
0.10N Sulfuric Acid (H2SO4)	J.T.Baker	Normality	0.1N	167828	05/24/19	05/24/20	3ml	1L	DI	0.10N
0.02N Sulfuric Acid (H2SO4)	J.T.Baker	Normality	0.02N	167828	05/24/19	05/24/20	200mL	1L	DI	0.02N
Inorganic Spike(NaHCO3)	BDH	NA	NA	1575C510	10/18/18	08/14/20	PURCHASED	NA	NA	NA
Inorganic Spike Solution	BDH	Milligrams/Liters	250mg/L	1575C510	05/06/19	11/05/19	3.5g	500mL	DI	250mg/L
Standarizing Solution(NaCO3)	J.T.Baker	Normality	1N	178494	07/25/17	07/25/19	PURCHASED	NA	NA	NA

Standard Prep							
Prep Date	Ferrous Iron Standards		Prep'd By (Initials)		FJR		
Exp Date	06/28/19		06/15/19				
Stock Label	Supplier	Batch Number	Exp Date	Aliquot from Stock	Final Volume	Solvent	Ferrous Iron Concentration
Ferrous Ammonium Sulfate	J.T.Baker	0000184592	08/21/20	0.351	250mL	5ml H2SO4 (0000167828) Diluted with water	200ug/L
Ferrous Sulfate	Mallinckrodt	Lot 5056 KDRX	NA	0.250	250mL	5ml H2SO4 (0000167828) Diluted with water	200ug/L
Ferrous Iron CCV/LCS/MS/ICV			Prep'd By (Initials)		FJR		
Prep Date	See Injection Log						
Exp Date	24 Hours						
Initial Standard Information	Supplier	Batch Number	Exp Date	Final Standard Information			
Ferrous Iron CCV	J.T.Baker	0000184592	06/14/19	500uL	25mL	Deionized water	4mg/L
Ferrous Iron ICV/LCS	Mallinckrodt	Lot 5056 KDRX	06/14/19	375uL	25mL	Deionized water	3mg/L
Ferrous Iron Calibration Curve			Prep'd By (Initials)		FJR		
Prep Date	06/28/19		06/29/19				
Exp Date							
Final Standard Information							
Point Label	Supplier	Batch Number	Exp Date	Aliquot from Stock (mL)	Final Volume	Solvent	Ferrous Iron Concentration
CCB	J.T.Baker	0000184592	06/14/19	0	25mL	Deionized water	0mg/L
Ical 1	J.T.Baker	0000184592	06/14/19	0.125	25mL	Deionized water	1mg/L
Ical 2	J.T.Baker	0000184592	06/14/19	0.25	25mL	Deionized water	2mg/L
Ical 3	J.T.Baker	0000184592	06/14/19	0.5	25mL	Deionized water	4mg/L
Ical 4	J.T.Baker	0000184592	06/14/19	0.625	25mL	Deionized water	5mg/L
Ical 5	J.T.Baker	0000184592	06/14/19	1.25	25mL	Deionized water	10mg/L
ICV	Mallinckrodt	Lot 5056 KDRX	06/14/19	0.375	25mL	Deionized water	3mg/L

Reagent Prep					
Reagent	Chemical Lot #	Chemical	Chemical Expiration Date	Amount	Date Prep
Colorizer	0747C107	1,10-phenanthroline	na	0.207	07/26/19
		10% HCL conc	na	enough to dissolve	01/15/19
Buffer	Z28B018	Ammonia Acetate	na	249.2	06/28/19
	2018071399	Glacial Acetic Acid	06/27/20	700mL	

Nitrite

High Point @ 1.5 mg/L

0.2463 mL NO₂ Inorganic Ventures lot N2-NOX672889-40759 exp: 05/01/20
50 mL DI Water

CCV @ 0.75 mg/L

0.1232 mL NO₂ Inorganic Ventures lot N2-NOX672889-40759 exp: 05/01/20
50 mL DI Water

ICV/LCS @ 0.73 mg/L

0.120 mL NO₂ Inorganic Ventures lot M2-NOX660562-39802 exp: 10/23/19
50 mL DI Water

1 mg/L NO₂

400 uL of High point and 200 uL of DI made directly into a sample cup

Prep 07/26/19

Exp 08/02/19

EV

Nitrate/TOXN

High Point @ 6 mg/L

0.300 mL NO₃ O₂Si lot 880117-39577 exp: 2/21/20
50 mL DI Water

CCV @ 3.0 mg/L

0.150 mL NO₃ O₂Si lot 880117-39577 exp: 2/21/20
50 mL DI Water

ICV/LCS @ 3.0 mg/L

0.150 mL NO₃ Inorganic Ventures lot N2-NOX667147-39510 exp: 10/23/19
50 mL DI Water

1 mg/L NO₃

100 uL of High point and 500 uL of DI made directly into a sample cup

MS @ 0.73 mg/L NO₂ and 2.5 mg/L NO₃

0.120 mL NO₂ Inorganic Ventures lot M2-NOX660562-39802 exp: 10/23/19 and
0.125 mL NO₃ Inorganic Ventures lot N2-NOX667147-39510 exp: 10/23/19
Final volume 50 mL of sample

Prep 07/26/19

Exp 08/02/19

EV

EPA 353.2 Injection Log

Directory: I:\EVE\Export\2019\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	31 Jul 2019	17:08	Standard 1 TOXN/NO3		190731B NO	1.
2	31 Jul 2019	17:10	Standard 90 TOXN/NO3		190731B NO	1.
3	31 Jul 2019	17:12	Standard 91 TOXN/NO3		190731B NO	1.
4	31 Jul 2019	17:14	Standard 92 TOXN/NO3		190731B NO	1.
5	31 Jul 2019	17:17	Standard 93 TOXN/NO3		190731B NO	1.
6	31 Jul 2019	17:17	Standard 94 TOXN/NO3		190731B NO	1.
7	31 Jul 2019	17:18	Standard 0 TOXN/NO3		190731B NO	1.
10	31 Jul 2019	17:21	ICV NO3 TOXN		190731B NO	1.
11	31 Jul 2019	17:22	ICB NO2 NO3 TOXN		190731B NO	1.

EPA 353.2 Injection Log

Directory: I:\EVE\Export\2019\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
15	31 Jul 2019	18:20	CCV TOXN/NO3		190731B NO	1.
16	31 Jul 2019	18:22	CCB TOXN/NO3		190731B NO	1.
19	31 Jul 2019	18:29	190731A BLK TOXN/NO3		190731B NO	1.
20	31 Jul 2019	18:31	190731A LCS TOXN		190731B NO	1.
21	31 Jul 2019	18:34	190731A LCSD TOXN		190731B NO	1.
22	31 Jul 2019	18:36	AZ95187W07 TOXN/NO3		190731B NO	1.
23	31 Jul 2019	18:38	AZ95189W13 TOXN/NO3		190731B NO	1.
24	31 Jul 2019	18:40	AZ95189W13 MS TOXN/NO3		190731B NO	1.
25	31 Jul 2019	18:43	AZ95189W13 MSD TOXN/NO3		190731B NO	1.
27	31 Jul 2019	18:47	CCV TOXN/NO3		190731B NO	1.
28	31 Jul 2019	18:50	CCB TOXN/NO3		190731B NO	1.

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908 North Temperance Ave. ▽ Clovis, CA 93611 ▽ Phone 559-275-2175 ▽ Fax 559-275-4422

Certification Number: CA1312
NELAP Certification number: CA00046
DoD-ELAP Certificate number: 4064.01

Data Validatable Report

August 26, 2019

AECOM
1001 Bishop Street, Suite 1600
Honolulu, Hawaii 96813

Attn: Margie Pascua

Title: Report of Data: Case 89593

Project: 60571032 CV18F0126 Red Hill Fuel Storage. HI

Contract #: Prime contract # for DoD: NAVY CLEAN N62742-17-F-1800, CV18F0126
Subcontract: 18S-22209-HI27

Dear Ms. Pascua:

Eleven water samples were received July 24, 2019. Written results for the requested analyses are being provided on this August 26, 2019.

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

If you have any questions or require further information, please contact your APPL Project Manager, Libby Cheeseborough, libby@applinc.com, at your convenience. Thank you for choosing APPL, Inc.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC and DoD QSM. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

Paula McCartney, Laboratory Director
APPL, Inc.

PM/lac
Enclosure
cc: File

Data Validation Package
for
60481245 CIV 0053 Red Hill Fuel Storage

APPL SDG 89593

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CASE NARRATIVE

Case Narrative

ARF: 89593

Project: 60571032 CV18F0126 Red Hill Fuel Storage. HI

Sample Receipt Information:

Eleven water samples were received July 24, 2019, at 2.9°C, 1.9°C, 3.4°C, 3.4°C, 2.4°C and 2.4°C. The sample group was assigned Analytical Request Form (ARF) number 89593.

Sample Preparation and Analysis Information:

For the EPA 8015B analysis, the samples were extracted according to EPA method 3520C. The sample extracts were silica gel cleaned according to APPL's SOP CLN004 and placed on hold.

For the EPA 8270D SIM analysis, the samples were extracted according to EPA method 3520C.

For the EPA 8270D Phenol analysis, the samples were extracted according to EPA method 3520C.

For the APPL SOP ANA2MEE analysis, the samples were extracted according to EPA method 3535.

For the EPA 8260B analysis, the samples were purged according to EPA method 5030B.

For the RSK-175 analysis, the samples were allowed to equilibrate for 10 minutes at 40°C and a portion of the headspace was analyzed.

For the EPA 9060A, 300.0, 353.2, SM 2320B, and SM 3500FeB analyses, the samples were prepared according to the methods.

Only the portion of the injection log relative to these samples is included. A full sequence log is available upon request. Measurement uncertainty can be reported upon request.

Analytical Exceptions, Deviations and Abnormalities.

EPA 8270D SIM: Manual integrations are performed in accordance with the SOP/ Chrysene was manually integrated in the ICAL. Before and after chromatograms are included in the package.

EPA 8270D Phenol: The surrogates recovered as follows: 2,4,6-tribromophenol recovered below the 44% limit at 37.4% in sample ERH846, 2-fluorophenol recovered above the 119% limit at 138% and phenol-d5 recovered above the 115% limit at 139% in sample ERH847.

Manual integrations are performed in accordance with the SOP/ 2,4,6-tribromophenol was manually integrated in one CCV. Before and after chromatograms are included in the package.

EPA 8260B-GRO: Sample ERH850 has obvious matrix and the surrogate is high as a result. No GRO was detected in this sample.

APPL SOP ANA2MEE: Manual integrations are performed in accordance with the SOP/ 1,4-DCB was manually integrated in the ICAL and CCVs. Before and after chromatograms are included in the package.

The LCSD recovered above the control limit. The samples were ND. The client was notified.

EPA 8260B: Sample ERH850 has obvious matrix and the surrogates are high as a result. No target compound was detected in the sample. The client was notified.

Sample ERH846 recovered Toluene d-8 at 86.6% due to heavier hydrocarbon interference. The acceptance criteria is 89%. The sample has no detected target compounds. The client was notified.

qryCOC_APPLCaseNarrativeReport

SDG	Received	Client ID	APPL ID	Collected DateTime	Matrix	Method	Method Description
89593	07/24/19	ERH845	AZ95328	07/23/19 9:15:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER
89593	07/24/19	ERH845	AZ95328	07/23/19 9:15:00 AM	WATER	EPA 8260-GAS	EPA 8260 with GAS
89593	07/24/19	ERH845	AZ95328	07/23/19 9:15:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER
89593	07/24/19	ERH845	AZ95328	07/23/19 9:15:00 AM	WATER	RSK 175	METHANE BY RSK 175
89593	07/24/19	ERH846	AZ95329	07/23/19 9:50:00 AM	WATER	SM 2320B	Wetlab 2320B - Water
89593	07/24/19	ERH846	AZ95329	07/23/19 9:50:00 AM	WATER	EPA 300.0	Wetlab 300.0 - Water
89593	07/24/19	ERH846	AZ95329	07/23/19 9:50:00 AM	WATER	SM3500FeB	Ferrous Iron
89593	07/24/19	ERH846	AZ95329	07/23/19 9:50:00 AM	WATER	EPA 353.2	EPA 353.2 - WATER
89593	07/24/19	ERH846	AZ95329	07/23/19 9:50:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER
89593	07/24/19	ERH846	AZ95329	07/23/19 9:50:00 AM	WATER	EPA 8270D	EPA 8270D WATER
89593	07/24/19	ERH846	AZ95329	07/23/19 9:50:00 AM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER
89593	07/24/19	ERH846	AZ95329	07/23/19 9:50:00 AM	WATER	EPA 8015B-eLL	EPA 8015B TPH LIQ-LIQ
89593	07/24/19	ERH846	AZ95329	07/23/19 9:50:00 AM	WATER	EPA 8260-GAS	EPA 8260 with GAS
89593	07/24/19	ERH846	AZ95329	07/23/19 9:50:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER
89593	07/24/19	ERH846	AZ95329	07/23/19 9:50:00 AM	WATER	RSK 175	METHANE BY RSK 175
89593	07/24/19	ERH846	AZ95329	07/23/19 9:50:00 AM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ
89593	07/24/19	ERH846	AZ95329	07/23/19 9:50:00 AM	WATER	SW846 9060A	9060A TOC
89593	07/24/19	ERH847	AZ95330	07/23/19 9:50:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER
89593	07/24/19	ERH847	AZ95330	07/23/19 9:50:00 AM	WATER	EPA 8270D	EPA 8270D WATER
89593	07/24/19	ERH847	AZ95330	07/23/19 9:50:00 AM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER
89593	07/24/19	ERH847	AZ95330	07/23/19 9:50:00 AM	WATER	EPA 8015B-eLL	EPA 8015B TPH LIQ-LIQ
89593	07/24/19	ERH847	AZ95330	07/23/19 9:50:00 AM	WATER	EPA 8260-GAS	EPA 8260 with GAS
89593	07/24/19	ERH847	AZ95330	07/23/19 9:50:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER
89593	07/24/19	ERH847	AZ95330	07/23/19 9:50:00 AM	WATER	RSK 175	METHANE BY RSK 175
89593	07/24/19	ERH847	AZ95330	07/23/19 9:50:00 AM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ
89593	07/24/19	ERH848	AZ95331	07/22/19 2:57:00 PM	WATER	EPA 8260B	EPA 8260B BTEX WATER
89593	07/24/19	ERH848	AZ95331	07/22/19 2:57:00 PM	WATER	EPA 8260-GAS	EPA 8260 with GAS
89593	07/24/19	ERH848	AZ95331	07/22/19 2:57:00 PM	WATER	EPA 8260B	EPA 8260B GRO WATER
89593	07/24/19	ERH848	AZ95331	07/22/19 2:57:00 PM	WATER	RSK 175	METHANE BY RSK 175
89593	07/24/19	ERH849	AZ95332	07/22/19 3:26:00 PM	WATER	SM 2320B	Wetlab 2320B - Water
89593	07/24/19	ERH849	AZ95332	07/22/19 3:26:00 PM	WATER	EPA 300.0	Wetlab 300.0 - Water
89593	07/24/19	ERH849	AZ95332	07/22/19 3:26:00 PM	WATER	SM3500FeB	Ferrous Iron
89593	07/24/19	ERH849	AZ95332	07/22/19 3:26:00 PM	WATER	EPA 353.2	EPA 353.2 - WATER
89593	07/24/19	ERH849	AZ95332	07/22/19 3:26:00 PM	WATER	EPA 8260B	EPA 8260B BTEX WATER
89593	07/24/19	ERH849	AZ95332	07/22/19 3:26:00 PM	WATER	EPA 8270D	EPA 8270D WATER
89593	07/24/19	ERH849	AZ95332	07/22/19 3:26:00 PM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER
89593	07/24/19	ERH849	AZ95332	07/22/19 3:26:00 PM	WATER	EPA 8015B-eLL	EPA 8015B TPH LIQ-LIQ
89593	07/24/19	ERH849	AZ95332	07/22/19 3:26:00 PM	WATER	EPA 8260-GAS	EPA 8260 with GAS
89593	07/24/19	ERH849	AZ95332	07/22/19 3:26:00 PM	WATER	EPA 8260B	EPA 8260B GRO WATER
89593	07/24/19	ERH849	AZ95332	07/22/19 3:26:00 PM	WATER	RSK 175	METHANE BY RSK 175
89593	07/24/19	ERH849	AZ95332	07/22/19 3:26:00 PM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ
89593	07/24/19	ERH849	AZ95332	07/22/19 3:26:00 PM	WATER	SW846 9060A	9060A TOC
89593	07/24/19	ERH850	AZ95333	07/23/19 9:30:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER
89593	07/24/19	ERH850	AZ95333	07/23/19 9:30:00 AM	WATER	EPA 8260-GAS	EPA 8260 with GAS
89593	07/24/19	ERH850	AZ95333	07/23/19 9:30:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER
89593	07/24/19	ERH850	AZ95333	07/23/19 9:30:00 AM	WATER	RSK 175	METHANE BY RSK 175
89593	07/24/19	ERH851	AZ95334	07/23/19 9:40:00 AM	WATER	SM 2320B	Wetlab 2320B - Water
89593	07/24/19	ERH851	AZ95334	07/23/19 9:40:00 AM	WATER	EPA 300.0	Wetlab 300.0 - Water
89593	07/24/19	ERH851	AZ95334	07/23/19 9:40:00 AM	WATER	SM3500FeB	Ferrous Iron
89593	07/24/19	ERH851	AZ95334	07/23/19 9:40:00 AM	WATER	EPA 353.2	EPA 353.2 - WATER
89593	07/24/19	ERH851	AZ95334	07/23/19 9:40:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER

qryCOC_APPLCaseNarrativeReport

89593	07/24/19	ERH851	AZ95334	07/23/19 9:40:00 AM	WATER	EPA 8270D	EPA 8270D WATER
89593	07/24/19	ERH851	AZ95334	07/23/19 9:40:00 AM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER
89593	07/24/19	ERH851	AZ95334	07/23/19 9:40:00 AM	WATER	EPA 8015B-eLL	EPA 8015B TPH LIQ-LIQ
89593	07/24/19	ERH851	AZ95334	07/23/19 9:40:00 AM	WATER	EPA 8260-GAS	EPA 8260 with GAS
89593	07/24/19	ERH851	AZ95334	07/23/19 9:40:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER
89593	07/24/19	ERH851	AZ95334	07/23/19 9:40:00 AM	WATER	RSK 175	METHANE BY RSK 175
89593	07/24/19	ERH851	AZ95334	07/23/19 9:40:00 AM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ
89593	07/24/19	ERH851	AZ95334	07/23/19 9:40:00 AM	WATER	SW846 9060A	9060A TOC
89593	07/24/19	ERH852	AZ95335	07/22/19 1:10:00 PM	WATER	EPA 8260B	EPA 8260B BTEX WATER
89593	07/24/19	ERH852	AZ95335	07/22/19 1:10:00 PM	WATER	EPA 8260-GAS	EPA 8260 with GAS
89593	07/24/19	ERH852	AZ95335	07/22/19 1:10:00 PM	WATER	EPA 8260B	EPA 8260B GRO WATER
89593	07/24/19	ERH852	AZ95335	07/22/19 1:10:00 PM	WATER	RSK 175	METHANE BY RSK 175
89593	07/24/19	ERH853	AZ95336	07/22/19 1:28:00 PM	WATER	SM 2320B	Wetlab 2320B - Water
89593	07/24/19	ERH853	AZ95336	07/22/19 1:28:00 PM	WATER	EPA 300.0	Wetlab 300.0 - Water
89593	07/24/19	ERH853	AZ95336	07/22/19 1:28:00 PM	WATER	SM3500FeB	Ferrous Iron
89593	07/24/19	ERH853	AZ95336	07/22/19 1:28:00 PM	WATER	EPA 353.2	EPA 353.2 - WATER
89593	07/24/19	ERH853	AZ95336	07/22/19 1:28:00 PM	WATER	EPA 8260B	EPA 8260B BTEX WATER
89593	07/24/19	ERH853	AZ95336	07/22/19 1:28:00 PM	WATER	EPA 8270D	EPA 8270D WATER
89593	07/24/19	ERH853	AZ95336	07/22/19 1:28:00 PM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER
89593	07/24/19	ERH853	AZ95336	07/22/19 1:28:00 PM	WATER	EPA 8015B-eLL	EPA 8015B TPH LIQ-LIQ
89593	07/24/19	ERH853	AZ95336	07/22/19 1:28:00 PM	WATER	EPA 8260-GAS	EPA 8260 with GAS
89593	07/24/19	ERH853	AZ95336	07/22/19 1:28:00 PM	WATER	EPA 8260B	EPA 8260B GRO WATER
89593	07/24/19	ERH853	AZ95336	07/22/19 1:28:00 PM	WATER	RSK 175	METHANE BY RSK 175
89593	07/24/19	ERH853	AZ95336	07/22/19 1:28:00 PM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ
89593	07/24/19	ERH853	AZ95336	07/22/19 1:28:00 PM	WATER	SW846 9060A	9060A TOC
89593	07/24/19	ERH854	AZ95337	07/22/19 1:45:00 PM	WATER	EPA 8260B	EPA 8260B BTEX WATER
89593	07/24/19	ERH854	AZ95337	07/22/19 1:45:00 PM	WATER	EPA 8260-GAS	EPA 8260 with GAS
89593	07/24/19	ERH854	AZ95337	07/22/19 1:45:00 PM	WATER	EPA 8260B	EPA 8260B GRO WATER
89593	07/24/19	ERH854	AZ95337	07/22/19 1:45:00 PM	WATER	RSK 175	METHANE BY RSK 175
89593	07/24/19	ERH855	AZ95338	07/22/19 2:15:00 PM	WATER	SM 2320B	Wetlab 2320B - Water
89593	07/24/19	ERH855	AZ95338	07/22/19 2:15:00 PM	WATER	EPA 300.0	Wetlab 300.0 - Water
89593	07/24/19	ERH855	AZ95338	07/22/19 2:15:00 PM	WATER	SM3500FeB	Ferrous Iron
89593	07/24/19	ERH855	AZ95338	07/22/19 2:15:00 PM	WATER	EPA 353.2	EPA 353.2 - WATER
89593	07/24/19	ERH855	AZ95338	07/22/19 2:15:00 PM	WATER	EPA 8260B	EPA 8260B BTEX WATER
89593	07/24/19	ERH855	AZ95338	07/22/19 2:15:00 PM	WATER	EPA 8270D	EPA 8270D WATER
89593	07/24/19	ERH855	AZ95338	07/22/19 2:15:00 PM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER
89593	07/24/19	ERH855	AZ95338	07/22/19 2:15:00 PM	WATER	EPA 8015B-eLL	EPA 8015B TPH LIQ-LIQ
89593	07/24/19	ERH855	AZ95338	07/22/19 2:15:00 PM	WATER	EPA 8260-GAS	EPA 8260 with GAS
89593	07/24/19	ERH855	AZ95338	07/22/19 2:15:00 PM	WATER	EPA 8260B	EPA 8260B GRO WATER
89593	07/24/19	ERH855	AZ95338	07/22/19 2:15:00 PM	WATER	RSK 175	METHANE BY RSK 175
89593	07/24/19	ERH855	AZ95338	07/22/19 2:15:00 PM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ
89593	07/24/19	ERH855	AZ95338	07/22/19 2:15:00 PM	WATER	SW846 9060A	9060A TOC

APPL Inc.
Abbreviations and Flags


FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
MI1	Manual integration: integration does not follow baseline
MI2	Manual integration: non-target peak interference
MI3	Manual integration: to split a peak that was integrated as one peak by the computer.
MI4	Manual integration: to integrate a split peak
MI5	Manual integration: the whole peak or part of the peak was not integrated
MI6	Manual integration: computer integrated wrong peak
MI7	Manual integration: other – (See case narrative)
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, e.g. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, e.g. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, e.g. asphaltene, waste oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, e.g. asphaltene, waste oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel
U	Not detected
Y	Percent difference between primary and confirmation column > 40%

**SAMPLE RECORDS MANAGEMENT
CHAIN OF CUSTODY,
ARF, CRF, AND
CLIENT COMMUNICATION**

APPL - Analysis Request Form

89593

Client: AECOM
 Address: 1001 Bishop Street, Suite 1600
Honolulu, HI 96813
 Attn: Margie Pascua
 Phone: 808-356-5373 Fax: 808-523-8950
 Job: 60571032 CV18F0126 Red Hill Fuel Storage
 PO #: 18S-22209-HI27 PO# 102604
 Chain of Custody (Y/N): Y # 070-075
 RAD Screen (Y/N): Y pH (Y/N): Y
 Turn Around Type: 1 WEEK




Received by: AAR 
 Date Received: 07/24/19 Time: 10:00
 Delivered by: FEDEX
 Shuttle Custody Seals (Y/N): Y Time Zone: -10
 Chest Temp(s): 2.9,1.9,3.4X2,2.4X2
 Color: VOA/C-BIk/NM-BIkTeal
 Samples Chilled until Placed in Refrig/Freezer: Y
 Project Manager: Libby Cheesebor
 QC Report Type: DVP4DOD/EQUIS/HI
 Due Date: 07/31/19

Comments:

PM: login and F1s to Margie.Pascua@aecom.com
AN: 7 day TAT for Form 1s; 21 day TAT for PKG STYLE 1; DOD v5.1; DOD Forms (LOQ/LOD database/DL)
8260: BTEX & TPH-G only; 8270 SIM: 1-methylnaphthalene, 2-methylnaphthalene & naphthalene only.
TPH D & O both with and w/o SGC, reverse surrogate for the SGC; analyze SGC if detections
RSK: Methane only; \$87DC53W5: report phenol only; \$87DMEEW5: 2-MEE (LCS Spk 80ppb).









FR: HC to LDC, 2 labeled CDs to Margie Pascua.
EDD: AECOM EQUiS EDD 2.5.3 Red Hill 87DMEE->3535A to Margie.Pascua@aecom.com & jecklund@lab-data.com

<p><u>Sample Distribution:</u> GC: 6-\$87DC53W5, 6-\$87DMEEW5, 6-\$DOC53W5LIQ, 6-\$SIM53LIQ51 Extractions: 6- LIQ003, 6- LIQ005, 6- MWE2MEE VOA: 11-\$86BTOTXDOD5W, 11-\$GASBL, 11-\$GRO86BW, 11-\$RSKMETH Wetlab: 5-\$232W(HCO3,CO3,ALK), 5-\$300W(CL,SO4), 5-\$35FE, 5-\$35OF(NO3), 5-\$TOCW53</p>	<p><u>Charges:</u></p>	<p><u>Invoice To:</u> ACCOUNTS PAYABLE 1001 Bishop Street, Ste 1600 USAPImaging@aecom.com mary.basano@aecom.com</p>
--	------------------------	---

Client ID	APPL ID	Sampled	Analyses Requested
1. ERH845	LCSD AZ95328W 	07/23/19 09:15	\$86BTOTXDOD5W, \$GASBL, \$GRO86BW, \$RSKMETH -- see comments
2. ERH846	LCSD AZ95329W 	07/23/19 09:50	\$232W(HCO3,CO3,ALK), \$300W(CL,SO4), \$35FE, \$35OF(NO3), \$86BTOTXDOD5W, \$87DC53W5, \$87DMEEW5, \$DOC53W5LIQ, \$GASBL, \$GRO86BW, \$RSKMETH, \$SIM53LIQ51, \$TOCW53 -- see comments
3. ERH847	LCSD AZ95330W 	07/23/19 09:50	\$86BTOTXDOD5W, \$87DC53W5, \$87DMEEW5, \$DOC53W5LIQ, \$GASBL, \$GRO86BW, \$RSKMETH, \$SIM53LIQ51 -- see comments

APPL - Analysis Request Form

89593

4. ERH848	LCSD	AZ95331W 	07/22/19 14:57	\$86BTOTXDOD5W, \$GASBL, \$GRO86BW, \$RSKMETH -- see comments
5. ERH849	LCSD	AZ95332W 	07/22/19 15:26	\$232W(HCO3,CO3,ALK), \$300W(CL,SO4), \$35FE, \$35OF(NO3), \$86BTOTXDOD5W, \$87DC53W5, \$87DMEEW5, \$DOC53W5LIQ, \$GASBL, \$GRO86BW, \$RSKMETH, \$SIM53LIQ51, \$TOCW53 -- see comments
6. ERH850	LCSD	AZ95333W 	07/23/19 09:30	\$86BTOTXDOD5W, \$GASBL, \$GRO86BW, \$RSKMETH -- see comments
7. ERH851	LCSD	AZ95334W 	07/23/19 09:40	\$232W(HCO3,CO3,ALK), \$300W(CL,SO4), \$35FE, \$35OF(NO3), \$86BTOTXDOD5W, \$87DC53W5, \$87DMEEW5, \$DOC53W5LIQ, \$GASBL, \$GRO86BW, \$RSKMETH, \$SIM53LIQ51, \$TOCW53 -- see comments
8. ERH852	LCSD	AZ95335W 	07/22/19 13:10	\$86BTOTXDOD5W, \$GASBL, \$GRO86BW, \$RSKMETH -- see comments
9. ERH853	LCSD	AZ95336W 	07/22/19 13:28	\$232W(HCO3,CO3,ALK), \$300W(CL,SO4), \$35FE, \$35OF(NO3), \$86BTOTXDOD5W, \$87DC53W5, \$87DMEEW5, \$DOC53W5LIQ, \$GASBL, \$GRO86BW, \$RSKMETH, \$SIM53LIQ51, \$TOCW53 -- see comments
10. ERH854	LCSD	AZ95337W 	07/22/19 13:45	\$86BTOTXDOD5W, \$GASBL, \$GRO86BW, \$RSKMETH -- see comments
11. ERH855	LCSD	AZ95338W 	07/22/19 14:15	\$232W(HCO3,CO3,ALK), \$300W(CL,SO4), \$35FE, \$35OF(NO3), \$86BTOTXDOD5W, \$87DC53W5, \$87DMEEW5, \$DOC53W5LIQ, \$GASBL, \$GRO86BW, \$RSKMETH, \$SIM53LIQ51, \$TOCW53 -- see comments

Note: All times, excluding sample collection times, are Pacific Time Zone unless noted otherwise. Collection times are in: -10 UTC



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CHAIN OF CUSTODY RECORD

689593

R3 @ to 4
2.5/2.4
3.0/3.4
2.0/2.4
2.0/2.4
1.5/1.9

C.O.C. 072

Report to: PLEASE PRINT
Company Name: AECOM Phone: 808-356-5373
Address: 1001 Bishop St, Suite 1600
Honolulu, HI 96813 Fax: 808-523-8950
Attn: Margie Pascua
Email: margie.pascua@aecom.com

Invoice to: PLEASE PRINT
Company Name: AECOM Phone: 808-529-7249
Address: 1001 Bishop St, Suite 1600
Honolulu, HI 96813 Fax: 808-523-8950
Attn: Mary Basano
Email: mary.basano@aecom.com; usapimaging@aecom.com

Project Name/Number CV18F0126 / 60571032		Sampler (Print) CE, DH, KL			Analysis Requested/Method Number															Date Shipped: <u>7/23/19</u>						
Purchase Order Number 102604		Sampler (Signature) MP jm for CE, DH, KL			No. of Containers	Matrix			8260C BTEX, TPH-g	8260C DCA	8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/o w/ SGT	8270DSIM PAHs short list	8270D Phenol, Phen	8270D 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane	SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N	SM2320B Alkalinity	300.0 Nitrate Sulfate, Chloride	300.0 Boron, Fluoride, Nitrate, Nitrite, Sulfate, Silica	3010 Total Cyanide	3060A TOC	Carrier: FedEx	
Sample Identification		Location				Aq	Sed.	Soil																	Waybill No.:		Comments:
ERH 848		Trip Blank			4	X			X							X										
ERH 849		RHMW03			17	X			X	X*	X	X	X	X	X	X	X	X	X	X	X	X	X			
					(M)																					
Shuttle Temperature: <u>10.9</u>		Turnaround Requested: Check one <input type="checkbox"/> Standard 2-3 wk <input checked="" type="checkbox"/> One week <input type="checkbox"/> 3 days <input type="checkbox"/> 24/48 Hrs. <input type="checkbox"/> Other: _____										Sample Disposal: <input type="checkbox"/> Return to client <input checked="" type="checkbox"/> Disposal by Lab (30-day retention)														
Relinquished by sampler: AECOM <u>Morgan Donohue</u>		Date	Time	Received by:			Relinquished by:			Date	Time	Received by:														
		<u>7/23</u>	<u>15:00</u>																							
Relinquished by:		Date	Time	Received by:			Relinquished by:			Date	Time	Received at lab by:														
										<u>7-24-19</u>	<u>1000</u>	<u>[Signature]</u>														



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CHAIN OF CUSTODY RECORD

C.O.C. 070

Report to: <u>PLEASE PRINT</u>	Invoice to: <u>PLEASE PRINT</u>
Company Name: <u>AECOM</u> Phone: <u>808-356-5373</u>	Company Name: <u>AECOM</u> Phone: <u>808-529-7249</u>
Address: <u>1001 Bishop St, Suite 1600</u> <u>Honolulu, HI 96813</u> Fax: <u>808-523-8950</u>	Address: <u>1001 Bishop St, Suite 1600</u> <u>Honolulu, HI 96813</u> Fax: <u>808-523-8950</u>
Attn: <u>Margie Pascua</u>	Attn: <u>Mary Basano</u>
Email: <u>margie.pascua@aecom.com</u>	Email: <u>mary.basano@aecom.com; usapimaging@aecom.com</u>

Project Name/Number	Sampler (Print)	Analysis Requested/Method Number												Date Shipped: <u>7/23/19</u>																
		No. of Containers	Matrix			8260C BTEX TPH-g	8260C DCA	8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/g w/ SGT	8270DSIM PAH's short list	8270D Phenol, PEG's	8270D 2-(2-methoxy ethoxy)-ethanol		RSK175M Methane	SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N	SM2320B Alkalinity	300.0 Nitrate Sulfate Chloride	3000 Phenolics/Electrode	3010 Total Carbon	SM4500-Fe Total Dissolved Silicon	9060A TOC	Carrier: <u>FedEx</u>	Waybill No.:	Comments:				
Ag	Sec.		Soil																											
CV18F0126 / 60571032	CE, DH, KL																													
Purchase Order Number 102604	Sampler (Signature) <i>MP Jr for CE, DH, KL</i>																													
Sample Identification	Location	Date Collected	Time Collected	Time Zone	No. of Containers	Ag	Sec.	Soil	8260C BTEX TPH-g	8260C DCA	8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/g w/ SGT	8270DSIM PAH's short list	8270D Phenol, PEG's	8270D 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane	SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N	SM2320B Alkalinity	300.0 Nitrate Sulfate Chloride	3000 Phenolics/Electrode	3010 Total Carbon	SM4500-Fe Total Dissolved Silicon	9060A TOC	Carrier: <u>FedEx</u>	Waybill No.:	Comments:		
ERH 845	Trip Blank	7/23	09:15	HST	4	X			X								X													
ERH 846	RHMW02	7/23	09:50	HST	4	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			see other color	
ERH 847	RHMW02	7/23	09:50	HST	11	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			No lead for these VOC's	

Shuttle Temperature:	Turnaround Requested: Check one <input type="checkbox"/> Standard 2-3 wk <input checked="" type="checkbox"/> One week <input type="checkbox"/> 3 days <input type="checkbox"/> 24/48 Hrs. <input type="checkbox"/> Other: _____	Sample Disposal: <input type="checkbox"/> Return to client <input checked="" type="checkbox"/> Disposal by Lab (30-day retention)
Relinquished by sampler: AECOM <i>Morgan Donohue</i>	Date: <u>7/23</u> Time: <u>15:00</u>	Received by:
Relinquished by:	Date: _____ Time: _____	Received at lab by: <i>[Signature]</i>



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CHAIN OF CUSTODY RECORD

C.O.C. 073

Report to: <u>PLEASE PRINT</u> Company Name: <u>AECOM</u> Phone: <u>808-356-5373</u> Address: <u>1001 Bishop St, Suite 1600</u> <u>Honolulu, HI 96813</u> Fax: <u>808-523-8950</u> Attn: <u>Margie Pascua</u> Email: <u>margie.pascua@aecom.com</u>	Invoice to: <u>PLEASE PRINT</u> Company Name: <u>AECOM</u> Phone: <u>808-529-7249</u> Address: <u>1001 Bishop St, Suite 1600</u> <u>Honolulu, HI 96813</u> Fax: <u>808-523-8950</u> Attn: <u>Mary Basano</u> Email: <u>mary.basano@aecom.com; usapimaging@aecom.com</u>
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Project Name/Number CV18F0126 / 60571032	Sampler (Print) ED, GM, TV					No. of Containers	Matrix			Analysis Requested/Method Number													Date Shipped: <u>7/23/19</u>					
	Purchase Order Number 102604	Sampler (Signature) MP for ED, GM, TV					Aq	Sed.	Soil	8260C BTEX,TPH-g	8260C DCA	8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/o w/ SGT	8270DSIM PAHs short list	8270D Phenol, PCBs	8270B 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane	SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N	SM2320B Alkalinity	300.0 Nitrate Sulfate Chloride	999.4 Benzimidazole	8010 Total Petroleum Hydrocarbon (TPH) by GC/MS	9060A SW-846 Lead, Cadmium, Silver, Zinc	9060A TOC	Carrier: FedEx	
		Waybill No.:																										
Comments:																												
Sample Identification	Location	Date Collected	Time Collected	Time Zone																								
ERH 890	Trip Blank	7/23	09:30	HST	4	X			X								X											
ERH 851	RHMW04	7/23	09:40	HST	17	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<div style="position: absolute; top: 50px; left: 40%; font-size: 2em;">MO 7/23</div>																												

*Analyze TPH w/SGT only if TPH-d/o detected.
 TPH-d/o & PAHs need liquid-liquid extraction.

Shuttle Temperature:	Turnaround Requested: Check one <input type="checkbox"/> Standard 2-3 wk <input checked="" type="checkbox"/> One week <input type="checkbox"/> 3 days <input type="checkbox"/> 24/48 Hrs. <input type="checkbox"/> Other: _____						Sample Disposal: <input type="checkbox"/> Return to client <input checked="" type="checkbox"/> Disposal by Lab (30-day retention)						
Relinquished by sampler: AECOM	Date	Time	Received by:			Relinquished by:			Date	Time	Received by:		
<u>Morgan Donohue</u>	<u>7/23</u>	<u>15:00</u>											
Relinquished by:	Date	Time	Received by:			Relinquished by:			Date	Time	Received at Lab by:		
									<u>7-24-19</u>	<u>1000</u>	<u>[Signature]</u>		



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CHAIN OF CUSTODY RECORD

C.O.C. 075

Report to: PLEASE PRINT

Company Name: AECOM Phone: 808-356-5373

Address: 1001 Bishop St, Suite 1600
Honolulu, HI 96813 Fax: 808-523-8950

Attn: Margie Pascua

Email: margie.pascua@aecom.com

Invoice to: PLEASE PRINT

Company Name: AECOM Phone: 808-529-7249

Address: 1001 Bishop St, Suite 1600
Honolulu, HI 96813 Fax: 808-523-8950

Attn: Mary Basano

Email: mary.basano@aecom.com; usapimaging@aecom.com

Project Name/Number CV18F0126 / 60571032	Sampler (Print) EB, GM, TV	Purchase Order Number 102604	Sampler (Signature) MP for EB, GM, TV	No. of Containers	Matrix		Analysis Requested/Method Number															Date Shipped: <u>7/23/19</u>							
							Aq	Sed.	Soil	8260C BTEX, TPH-g	8260C DCA	8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/o w/ SGT	8270DSIM PAHs short list	8270D Phenol, Fre	8270D 2-(2-methoxyethoxy)-ethanol	RSK175M Methane	SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N	SM2320B Alkalinity	300.0 Nitrate, Sulfate Chloride	8000-Bicamides/Phenols w/ 7646	8070 Total Oxymethacrylates	SM4590-Petroleum-Dissovlv Solics	9060A	TOC	Carrier: <u>FedEx</u>	
										Waybill No.:	Comments:																		
ERH854	TRIP Blank	7/22	13:45	HST	4	X			X																				
ERH855	RHM006	7/22	14:15	HST	1	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

Shuttle Temperature:

Turnaround Requested: Check one
 Standard 2-3 wk One week 3 days 24/48 Hrs. Other:

Sample Disposal:
 Return to client Disposal by Lab (30-day retention)

Relinquished by sampler: AECOM Date 7/23 Time 15:00
Morgan Bonohue

Relinquished by: Date 7-24-19 Time 1000

Received by: Received at lab by: *[Signature]*



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CHAIN OF CUSTODY RECORD
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 C.O.C. 071

Report to: PLEASE PRINT Company Name: <u>AECOM</u> Phone: <u>808-356-5373</u> Address: <u>1001 Bishop St, Suite 1600</u> <u>Honolulu, HI 96813</u> Fax: <u>808-523-8950</u> Attn: <u>Margie Pascua</u> Email: <u>margie.pascua@aecom.com</u>	Invoice to: PLEASE PRINT Company Name: <u>AECOM</u> Phone: <u>808-529-7249</u> Address: <u>1001 Bishop St, Suite 1600</u> <u>Honolulu, HI 96813</u> Fax: <u>808-523-8950</u> Attn: <u>Mary Basano</u> Email: <u>mary.basano@aecom.com; usapimaging@aecom.com</u>
---	---

Project Name/Number CV18F0126 / 60571032	Sampler (Print) CE, DH, KL			No. of Containers	Matrix			Analysis Requested/Method Number															Date Shipped: <u>7/23/19</u>			
	Purchase Order Number 102604	Sampler (Signature) MP for CE, DH, KL			Aq	Sed.	Soil	8260C BTEX, TPH-g	8260C DCA	8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/o w/ SGT	8270D SIM PAHs short list	8270D Phenol, TIC	8270D 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane	SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N	SM2320B Alkalinity	300.0 Nitrate Sulfate, Chloride	9000A Pesticides	9000B Metals	9000C PCBs	9000D TOC	Carrier: FedEx	
Sample Identification	Location	Date Collected	Time Collected	Time Zone																			Waybill No.:			
ER4846	RHMW02	7/23	09:50	HST	13 (MD)	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		Comments: See other order

Shuttle Temperature:	Turnaround Requested: Check one <input type="checkbox"/> Standard 2-3 wk <input checked="" type="checkbox"/> One week <input type="checkbox"/> 3 days <input type="checkbox"/> 24/48 Hrs. <input type="checkbox"/> Other: _____						Sample Disposal: <input type="checkbox"/> Return to client <input checked="" type="checkbox"/> Disposal by Lab (30-day retention)			
Relinquished by sampler: AECOM <u>Morgan Penolue</u>	Date <u>7/23</u>	Time <u>15:00</u>	Received by:		Relinquished by:		Date	Time	Received by:	
Relinquished by:	Date	Time	Received by:		Relinquished by:		Date <u>7-24-19</u>	Time <u>1000</u>	Received at lab by: <u>[Signature]</u>	



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CHAIN OF CUSTODY RECORD

C.O.C. 074

Report to: PLEASE PRINT	Invoice to: PLEASE PRINT
Company Name: <u>AECOM</u> Phone: <u>808-356-5373</u>	Company Name: <u>AECOM</u> Phone: <u>808-529-7249</u>
Address: <u>1001 Bishop St, Suite 1600</u> <u>Honolulu, HI 96813</u> Fax: <u>808-523-8950</u>	Address: <u>1001 Bishop St, Suite 1600</u> <u>Honolulu, HI 96813</u> Fax: <u>808-523-8950</u>
Attn: <u>Margie Pascua</u>	Attn: <u>Mary Basano</u>
Email: <u>margie.pascua@aecom.com</u>	Email: <u>mary.basano@aecom.com; usapimaging@aecom.com</u>

Project Name/Number <u>CV18F0126 / 60571032</u>	Sampler (Print) <u>CE, DH, KL</u>	No. of Containers	Matrix	Analysis Requested/Method Number														Date Shipped: <u>7/23/89</u>	
Purchase Order Number <u>102604</u>	Sampler (Signature) <u>MP for CE, DH, KL</u>			Aq	Sed.	Soil	8260C BTEX, TPH-g	8260C DCA	8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/o w/SGT	8270DSIM PAHs short list	8270D Phenol, Hex	8270D 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane	SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N	SM2320B Alkalinity	300.0 Nitrate Sulfate, Chloride	9060A TOC	Carrier: FedEx

Sample Identification	Location	Date Collected	Time Collected	Time Zone	No. of Containers	Aq	Sed.	Soil	8260C BTEX, TPH-g	8260C DCA	8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/o w/SGT	8270DSIM PAHs short list	8270D Phenol, Hex	8270D 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane	SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N	SM2320B Alkalinity	300.0 Nitrate Sulfate, Chloride	9060A TOC	Comments:	
ERH852	Tap Blank	7/22	13:10	HST		4	X			X								X						
ERH853	RHAWES	7/22	13:28	HST	4	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
mD 7/25																								

*Analyze TPH w/SGT only if TPH-d/o detected.
TPH-d/o & PAHs need liquid-liquid extraction.

Shuttle Temperature:	Turnaround Requested: Check one <input type="checkbox"/> Standard 2-3 wk <input checked="" type="checkbox"/> One week <input type="checkbox"/> 3 days <input type="checkbox"/> 24/48 Hrs. <input type="checkbox"/> Other: _____	Sample Disposal: <input type="checkbox"/> Return to client <input checked="" type="checkbox"/> Disposal by Lab (30-day retention)
Relinquished by sampler: <u>AECOM</u>	Date <u>7/23</u> Time <u>15:00</u>	Received by: _____ Date _____ Time _____
Relinquished by: <u>Morgan Perdue</u>	Date _____ Time _____	Received at lab by: <u>ML</u>

COOLER RECEIPT FORM

ARF: 89593

1) Project: 60571032 CV18F0126 Red Hill Fuel Storage Date Received: 07/24/19

2) Coolers: Number of Coolers: 6

3) YES Were custody seals present and intact? How many? 12 Name/Date on seal? not salvageable(Seals lost during bottle order)

4) YES Was there a shipping slip? Carrier name: FEDEX

5) Type of packing in cooler: X bubble wrap popcorn foam X plastic bags other X wet ice dry ice no ice gel ice

6) YES Were cooler temperatures acceptable?

7) Serial number of certified NIST thermometer use R# @ +0.4°C

8) Cooler temp(s): In °C. Thermometer Temp / Corrected Temp 1: 2.5°C/ 2.9°C 2: 3.0°C/ 3.4°C 3: 2.0°C/ 2.4°C 4: 2.0°C/ 2.4°C 5: 1.5°C/ 1.9°C 6: 3.0°C/ 3.4°C 7: 8: 9: 10: 11: 12:

Chain of custody:

9) YES Was a chain of custody received? 10) YES Were the custody papers complete/signed in the appropriate places?

Sample Labels:

11) YES Were all sample labels complete (sample ID, date/time of sampling, etc.)? 12) YES Did all container labels agree with custody papers?

Sample Containers:

13) YES Were all containers sealed in separate bags? 14) YES Did all containers arrive in good condition:(unbroken, no leakage, no cracked/broken lids)? 15) YES Were correct containers and preservatives used for the tests indicated? 16) YES Was a sufficient amount of sample sent for tests indicated? 17) Yes-NA Were bubbles present in volatile samples?

267/26 If yes, the following were received with air bubbles: Larger than a pea: Smaller than a pea: A295337wa-3, A295338wa-3/5

Preservation Hold time:

18) Yes Was a sufficient amount of holding time remaining to analyze the samples? 19) Yes Was the pH taken of all non-VOA preserved samples and written on the sample container? 20) Yes Was the pH of acid preserved non-VOA samples < 2? 21) NA Was the pH of sodium hydroxide preserved samples for Cyanide > 12 and Sulfide >9? 22) NO Were unpreserved VOA Vials received? 23) NA Are unpreserved VOA vials noted in the ADD TEST FIELD on the ARF?

pH strip lot number: 90B2031 Lab notified if pH was not adequate:

Notes/Deficiencies:

Personnel receiving samples: ZG Second reviewer: AA Personnel labeling samples: ZG Project manager notified: ZG Date/Time of notification 07/24/19 Name of client notified: Date/Time of notification

SAMPLE RESULTS

EPA 8015B TPH LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89593

Sample ID: ERH846

APPL ID: AZ95329

Sample Collection Date: 07/23/19

QCG: #DOC53-190727A-243221

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-eL	DIESEL (C10-C24)	2400 ++	40.0	25.00	13.07	ug/L	07/27/19	07/30/19
EPA 8015B-eL	OIL (C24-C40)	190	40.0	40.00	5.54	ug/L	07/27/19	07/30/19
EPA 8015B-eL	SURROGATE: OCTACOSANE (S)	104	60-142			%	07/27/19	07/30/19
EPA 8015B-eL	SURROGATE: ORTHO-TERPHENYL (S)	81.9	56-125			%	07/27/19	07/30/19

++(T6) The analyst has noted that the chromatogram of this sample is mainly a match to hydrocarbons within the range of diesel fuel.

Quant Method: DOC0617.M
Run #: 713262
Instrument: Apollo
Sequence: 190713
Dilution Factor: 1
Initials: BTI

Printed: 08/08/19 11:41:28 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH WATER L-L SGC

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH846

Sample Collection Date: 07/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89593

APPL ID: AZ95329

QCG: #DOC53-190727A1-243920

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-eL	DIESEL (C10-C24)	690 ++	40.0	25.00	13.07	ug/L	07/27/19	08/21/19
EPA 8015B-eL	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	07/27/19	08/21/19
EPA 8015B-eL	SURROGATE: (R) DECANOIC ACID (S)	0.0	0-1			%	07/27/19	08/21/19
EPA 8015B-eL	SURROGATE: OCTACOSANE (S)	110	60-142			%	07/27/19	08/21/19
EPA 8015B-eL	SURROGATE: ORTHO-TERPHENYL (S)	114	56-125			%	07/27/19	08/21/19

++(T6) The analyst has noted that the chromatogram of this sample is mainly a match to hydrocarbons within the range of diesel fuel.

Quant Method: DOC0617.M
Run #: 814153
Instrument: Apollo
Sequence: 190814
Dilution Factor: 1
Initials: BTI

Printed: 08/26/19 2:45:01 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH847

Sample Collection Date: 07/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89593

APPL ID: AZ95330

QCG: #DOC53-190727A-243221

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-eL	DIESEL (C10-C24)	2600 ++	40.0	25.00	13.07	ug/L	07/27/19	07/30/19
EPA 8015B-eL	OIL (C24-C40)	200	40.0	40.00	5.54	ug/L	07/27/19	07/30/19
EPA 8015B-eL	SURROGATE: OCTACOSANE (S)	109	60-142			%	07/27/19	07/30/19
EPA 8015B-eL	SURROGATE: ORTHO-TERPHENYL (S)	82.9	56-125			%	07/27/19	07/30/19

++(T6) The analyst has noted that the chromatogram of this sample is mainly a match to hydrocarbons within the range of diesel fuel.

Quant Method: DOC0617.M
Run #: 713263
Instrument: Apollo
Sequence: 190713
Dilution Factor: 1
Initials: BTI

Printed: 08/08/19 11:41:28 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH WATER L-L SGC

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89593
APPL ID: **AZ95330**
QCG: #DOC53-190727A1-243920

Sample ID: ERH847

Sample Collection Date: 07/23/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-eL	DIESEL (C10-C24)	480 ++	40.0	25.00	13.07	ug/L	07/27/19	08/21/19
EPA 8015B-eL	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	07/27/19	08/21/19
EPA 8015B-eL	SURROGATE: (R) DECANOIC ACID (S)	0.0	0-1			%	07/27/19	08/21/19
EPA 8015B-eL	SURROGATE: OCTACOSANE (S)	107	60-142			%	07/27/19	08/21/19
EPA 8015B-eL	SURROGATE: ORTHO-TERPHENYL (S)	108	56-125			%	07/27/19	08/21/19

++(T6) The analyst has noted that the chromatogram of this sample is mainly a match to hydrocarbons within the range of diesel fuel.

Quant Method: DOC0617.M
Run #: 814154
Instrument: Apollo
Sequence: 190814
Dilution Factor: 1
Initials: BTI

Printed: 08/26/19 2:45:01 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH LIQ-LIQ

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APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH849

Sample Collection Date: 07/22/19

ARF: 89593

APPL ID: AZ95332

QCG: #DOC53-190727A-243221

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-eL	DIESEL (C10-C24)	300 ++	40.0	25.00	13.07	ug/L	07/27/19	07/30/19
EPA 8015B-eL	OIL (C24-C40)	270	40.0	40.00	5.54	ug/L	07/27/19	07/30/19
EPA 8015B-eL	SURROGATE: OCTACOSANE (S)	126	60-142			%	07/27/19	07/30/19
EPA 8015B-eL	SURROGATE: ORTHO-TERPHENYL (S)	84.7	56-125			%	07/27/19	07/30/19

++(T3M) The analyst has noted that the chromatogram of this sample is mainly higher boiling hydrocarbons.

Quant Method: DOC0617.M
Run #: 713264
Instrument: Apollo
Sequence: 190713
Dilution Factor: 1
Initials: BTI

Printed: 08/08/19 11:41:28 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH WATER L-L SGC

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH849

Sample Collection Date: 07/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89593

APPL ID: AZ95332

QCG: #DOC53-190727A1-243920

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-eL	DIESEL (C10-C24)	25.00 U	40.0	25.00	13.07	ug/L	07/27/19	08/21/19
EPA 8015B-eL	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	07/27/19	08/21/19
EPA 8015B-eL	SURROGATE: (R) DECANOIC ACID (S)	0.0	0-1			%	07/27/19	08/21/19
EPA 8015B-eL	SURROGATE: OCTACOSANE (S)	114	60-142			%	07/27/19	08/21/19
EPA 8015B-eL	SURROGATE: ORTHO-TERPHENYL (S)	116	56-125			%	07/27/19	08/21/19

Quant Method: DOC0617.M
Run #: 814155
Instrument: Apollo
Sequence: 190814
Dilution Factor: 1
Initials: BTI

Printed: 08/26/19 2:45:01 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH LIQ-LIQ

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APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89593

Sample ID: ERH851

APPL ID: AZ95334

Sample Collection Date: 07/23/19

QCG: #DOC53-190727A-243221

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-eL	DIESEL (C10-C24)	25.00 U	40.0	25.00	13.07	ug/L	07/27/19	07/30/19
EPA 8015B-eL	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	07/27/19	07/30/19
EPA 8015B-eL	SURROGATE: OCTACOSANE (S)	101	60-142			%	07/27/19	07/30/19
EPA 8015B-eL	SURROGATE: ORTHO-TERPHENYL (S)	87.1	56-125			%	07/27/19	07/30/19

Quant Method: DOC0617.M
Run #: 713265
Instrument: Apollo
Sequence: 190713
Dilution Factor: 1
Initials: BTI

Printed: 08/08/19 11:41:28 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH LIQ-LIQ

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APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89593
APPL ID: **AZ95336**
QCG: #DOC53-190727A-243221

Sample ID: ERH853

Sample Collection Date: 07/22/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-eL	DIESEL (C10-C24)	25.00 U	40.0	25.00	13.07	ug/L	07/27/19	07/30/19
EPA 8015B-eL	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	07/27/19	07/30/19
EPA 8015B-eL	SURROGATE: OCTACOSANE (S)	97.2	60-142			%	07/27/19	07/30/19
EPA 8015B-eL	SURROGATE: ORTHO-TERPHENYL (S)	82.5	56-125			%	07/27/19	07/30/19

Quant Method: DOC0617.M
Run #: 713266
Instrument: Apollo
Sequence: 190713
Dilution Factor: 1
Initials: BTI

Printed: 08/08/19 11:41:28 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH LIQ-LIQ

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APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89593

Sample ID: ERH855

APPL ID: AZ95338

Sample Collection Date: 07/22/19

QCG: #DOC53-190727A-243221

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-eL	DIESEL (C10-C24)	25.00 U	40.0	25.00	13.07	ug/L	07/27/19	07/30/19
EPA 8015B-eL	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	07/27/19	07/30/19
EPA 8015B-eL	SURROGATE: OCTACOSANE (S)	96.3	60-142			%	07/27/19	07/30/19
EPA 8015B-eL	SURROGATE: ORTHO-TERPHENYL (S)	85.6	56-125			%	07/27/19	07/30/19

Quant Method: DOC0617.M
Run #: 713268
Instrument: Apollo
Sequence: 190713
Dilution Factor: 1
Initials: BTI

Printed: 08/08/19 11:41:29 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

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Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89593
APPL ID: **AZ95329**
QCG: #SIM53-190725A-242823

Sample ID: ERH846

Sample Collection Date: 07/23/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	12	0.2	0.10	0.04	ug/L	07/25/19	07/31/19
8270D-SIM	2-METHYLNAPHTHALENE	11	0.2	0.10	0.04	ug/L	07/25/19	07/31/19
8270D-SIM	NAPHTHALENE	33	0.2	0.10	0.04	ug/L	07/25/19	07/31/19
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	100	39-114			%	07/25/19	07/31/19
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	110	58-120			%	07/25/19	07/31/19

Quant Method: Y0717P.M
Run #: 0717Y306
Instrument: Yoda
Sequence: Y190717P
Dilution Factor: 1
Initials: MA

Printed: 07/31/19 3:56:49 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH847

Sample Collection Date: 07/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89593

APPL ID: AZ95330

QCG: #SIM53-190725A-242823

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	12	0.2	0.10	0.04	ug/L	07/25/19	07/30/19
8270D-SIM	2-METHYLNAPHTHALENE	11	0.2	0.10	0.04	ug/L	07/25/19	07/30/19
8270D-SIM	NAPHTHALENE	34	0.2	0.10	0.04	ug/L	07/25/19	07/30/19
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	104	39-114			%	07/25/19	07/30/19
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	112	58-120			%	07/25/19	07/30/19

Quant Method: Y0717P.M
Run #: 0717Y285
Instrument: Yoda
Sequence: Y190717P
Dilution Factor: 1
Initials: MA

Printed: 07/31/19 3:56:49 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

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908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89593

Sample ID: ERH849

APPL ID: AZ95332

Sample Collection Date: 07/22/19

QCG: #SIM53-190725A-242823

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/25/19	07/30/19
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/25/19	07/30/19
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/25/19	07/30/19
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	98.5	39-114			%	07/25/19	07/30/19
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	119	58-120			%	07/25/19	07/30/19

Quant Method: Y0717P.M
Run #: 0717Y286
Instrument: Yoda
Sequence: Y190717P
Dilution Factor: 1
Initials: MA

Printed: 07/31/19 3:56:49 PM

APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

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APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89593
APPL ID: **AZ95334**
QCG: #SIM53-190725A-242823

Sample ID: ERH851

Sample Collection Date: 07/23/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/25/19	07/30/19
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/25/19	07/30/19
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/25/19	07/30/19
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	101	39-114			%	07/25/19	07/30/19
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	114	58-120			%	07/25/19	07/30/19

Quant Method: Y0717P.M
Run #: 0717Y287
Instrument: Yoda
Sequence: Y190717P
Dilution Factor: 1
Initials: MA

Printed: 07/31/19 3:56:49 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH853

Sample Collection Date: 07/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89593

APPL ID: AZ95336

QCG: #SIM53-190725A-242823

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/25/19	07/30/19
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/25/19	07/30/19
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/25/19	07/30/19
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	99.4	39-114			%	07/25/19	07/30/19
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	108	58-120			%	07/25/19	07/30/19

Quant Method: Y0717P.M
Run #: 0717Y288
Instrument: Yoda
Sequence: Y190717P
Dilution Factor: 1
Initials: MA

Printed: 07/31/19 3:56:49 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

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APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89593

Sample ID: ERH855

APPL ID: AZ95338

Sample Collection Date: 07/22/19

QCG: #SIM53-190725A-242823

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/25/19	07/30/19
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/25/19	07/30/19
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/25/19	07/30/19
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	98.1	39-114			%	07/25/19	07/30/19
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	109	58-120			%	07/25/19	07/30/19

Quant Method: Y0717P.M
Run #: 0717Y289
Instrument: Yoda
Sequence: Y190717P
Dilution Factor: 1
Initials: MA

Printed: 07/31/19 3:56:49 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH846

Sample Collection Date: 07/23/19

ARF: 89593

APPL ID: AZ95329

QCG: #87DC5-190725A-242822

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	07/25/19	07/31/19
EPA 8270D	SURROGATE: 2,4,6-TRIBROMOPHENO	37.4 #	43-140			%	07/25/19	07/31/19
EPA 8270D	SURROGATE: 2-FLUOROBIPHENYL (S)	85.0	44-119			%	07/25/19	07/31/19
EPA 8270D	SURROGATE: 2-FLUOROPHENOL (S)	44.7	19-119			%	07/25/19	07/31/19
EPA 8270D	SURROGATE: NITROBENZENE-D5 (S)	85.1	44-120			%	07/25/19	07/31/19
EPA 8270D	SURROGATE: PHENOL-D6 (S)	63.8	10-115			%	07/25/19	07/31/19
EPA 8270D	SURROGATE: TERPHENYL-D14 (S)	78.9	50-134			%	07/25/19	07/31/19

= Recovery (or RPD) is outside QC limits.

Quant Method: Y0722NC.M
Run #: 0722Y151
Instrument: Yoda
Sequence: Y190722
Dilution Factor: 1
Initials: JPR

Printed: 07/31/19 3:56:44 PM

\\PPL-F1-SC-MCRes\MCPQL-REG MDLs-DO

EPA 8270D WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89593
APPL ID: **AZ95330**
QCG: #87DC5-190725A-242822

Sample ID: ERH847

Sample Collection Date: 07/23/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	07/25/19	07/29/19
EPA 8270D	SURROGATE: 2,4,6-TRIBROMOPHENO	102	43-140			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: 2-FLUORBIPHENYL (S)	87.4	44-119			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: 2-FLUOROPHENOL (S)	138 #	19-119			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: NITROBENZENE-D5 (S)	111	44-120			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: PHENOL-D6 (S)	139 #	10-115			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: TERPHENYL-D14 (S)	64.8	50-134			%	07/25/19	07/29/19

= Recovery (or RPD) is outside QC limits.

Quant Method: Y0722NC.M Run #: 0722Y136 Instrument: Yoda Sequence: Y190722 Dilution Factor: 1 Initials: JPR
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APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH849

Sample Collection Date: 07/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89593

APPL ID: AZ95332

QCG: #87DC5-190725A-242822

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	07/25/19	07/29/19
EPA 8270D	SURROGATE: 2,4,6-TRIBROMOPHENO	94.5	43-140			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: 2-FLUORBIPHENYL (S)	82.2	44-119			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: 2-FLUOROPHENOL (S)	86.7	19-119			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: NITROBENZENE-D5 (S)	89.6	44-120			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: PHENOL-D6 (S)	89.7	10-115			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: TERPHENYL-D14 (S)	73.7	50-134			%	07/25/19	07/29/19

Quant Method: Y0722NC.M
Run #: 0722Y137
Instrument: Yoda
Sequence: Y190722
Dilution Factor: 1
Initials: JPR

Printed: 08/02/19 2:33:11 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89593
APPL ID: **AZ95334**
QCG: #87DC5-190725A-242822

Sample ID: ERH851

Sample Collection Date: 07/23/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	07/25/19	07/29/19
EPA 8270D	SURROGATE: 2,4,6-TRIBROMOPHENO	94.8	43-140			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: 2-FLUORBIPHENYL (S)	83.7	44-119			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: 2-FLUOROPHENOL (S)	88.5	19-119			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: NITROBENZENE-D5 (S)	91.3	44-120			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: PHENOL-D6 (S)	90.6	10-115			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: TERPHENYL-D14 (S)	74.9	50-134			%	07/25/19	07/29/19

Quant Method: Y0722NC.M
Run #: 0722Y138
Instrument: Yoda
Sequence: Y190722
Dilution Factor: 1
Initials: JPR

Printed: 08/02/19 2:33:12 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH853

Sample Collection Date: 07/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89593

APPL ID: AZ95336

QCG: #87DC5-190725A-242822

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	07/25/19	07/29/19
EPA 8270D	SURROGATE: 2,4,6-TRIBROMOPHENO	91.0	43-140			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: 2-FLUORBIPHENYL (S)	80.0	44-119			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: 2-FLUOROPHENOL (S)	82.2	19-119			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: NITROBENZENE-D5 (S)	83.4	44-120			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: PHENOL-D6 (S)	84.7	10-115			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: TERPHENYL-D14 (S)	71.5	50-134			%	07/25/19	07/29/19

Quant Method: Y0722NC.M
Run #: 0722Y139
Instrument: Yoda
Sequence: Y190722
Dilution Factor: 1
Initials: JPR

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PPL-F1-SC-MCRes/MCPQL-REG MDLs-DO

EPA 8270D WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89593
APPL ID: **AZ95338**
QCG: #87DC5-190725A-242822

Sample ID: ERH855

Sample Collection Date: 07/22/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	07/25/19	07/29/19
EPA 8270D	SURROGATE: 2,4,6-TRIBROMOPHENO	94.1	43-140			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: 2-FLUORBIPHENYL (S)	82.1	44-119			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: 2-FLUOROPHENOL (S)	79.0	19-119			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: NITROBENZENE-D5 (S)	81.8	44-120			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: PHENOL-D6 (S)	81.4	10-115			%	07/25/19	07/29/19
EPA 8270D	SURROGATE: TERPHENYL-D14 (S)	72.7	50-134			%	07/25/19	07/29/19

Quant Method: Y0722NC.M
Run #: 0722Y140
Instrument: Yoda
Sequence: Y190722
Dilution Factor: 1
Initials: JPR

Printed: 07/31/19 3:56:44 PM

PPL-F1-SC-MCRes/MCPQL-REG MDLs-DO

EPA 8270D MODIFIED WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89593
APPL ID: **AZ95329**
QCG: #87DME-190726A-242855

Sample ID: ERH846
Sample Collection Date: 07/23/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	80.0 U	100	80.0	40.0	ug/L	07/26/19	07/30/19

Quant Method: LMEE0430.M
Run #: 0730L022
Instrument: Linus
Sequence: L190730M
Dilution Factor: 1
Initials: MA

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APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D MODIFIED WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH847

Sample Collection Date: 07/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89593

APPL ID: AZ95330

QCG: #87DME-190726A-242855

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	80.0 U	100	80.0	40.0	ug/L	07/26/19	07/30/19

Quant Method: LMEE0430.M
Run #: 0730L023
Instrument: Linus
Sequence: L190730M
Dilution Factor: 1
Initials: MA

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APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D MODIFIED WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH849

Sample Collection Date: 07/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89593

APPL ID: AZ95332

QCG: #87DME-190726A-242855

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	80.0 U	100	80.0	40.0	ug/L	07/26/19	07/30/19

Quant Method: LMEE0430.M
Run #: 0730L024
Instrument: Linus
Sequence: L190730M
Dilution Factor: 1
Initials: MA

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APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D MODIFIED WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH851

Sample Collection Date: 07/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89593

APPL ID: AZ95334

QCG: #87DME-190726A-242855

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	80.0 U	100	80.0	40.0	ug/L	07/26/19	07/30/19

Quant Method: LMEE0430.M
Run #: 0730L025
Instrument: Linus
Sequence: L190730M
Dilution Factor: 1
Initials: MA

Printed: 07/31/19 11:09:14 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D MODIFIED WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89593
APPL ID: **AZ95336**
QCG: #87DME-190726A-242855

Sample ID: ERH853
Sample Collection Date: 07/22/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	80.0 U	100	80.0	40.0	ug/L	07/26/19	07/30/19

Quant Method: LMEE0430.M
Run #: 0730L026
Instrument: Linus
Sequence: L190730M
Dilution Factor: 1
Initials: MA

Printed: 07/31/19 11:09:14 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D MODIFIED WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH855

Sample Collection Date: 07/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89593

APPL ID: AZ95338

QCG: #87DME-190726A-242855

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	80.0 U	100	80.0	40.0	ug/L	07/26/19	07/30/19

Quant Method: LMEE0430.M
Run #: 0730L027
Instrument: Linus
Sequence: L190730M
Dilution Factor: 1
Initials: MA

Printed: 07/31/19 11:09:14 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH845
Sample Collection Date: 07/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89593
APPL ID: AZ95328
QCG: #86BTO-190727BL-242776

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	07/28/19	07/28/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	07/28/19	07/28/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	07/28/19	07/28/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	07/28/19	07/28/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	107	81-118			%	07/28/19	07/28/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	88.5	85-114			%	07/28/19	07/28/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	110	80-119			%	07/28/19	07/28/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	98.8	89-112			%	07/28/19	07/28/19

Quant Method: L0724W.M
Run #: 0727L32
Instrument: Loki
Sequence: 190724
Dilution Factor: 1
Initials: DPO

Printed: 07/30/19 11:27:58 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89593
APPL ID: **AZ95329**
QCG: #86BTO-190727BL-242776

Sample ID: ERH846

Sample Collection Date: 07/23/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	07/28/19	07/28/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	07/28/19	07/28/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	07/28/19	07/28/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	07/28/19	07/28/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	102	81-118			%	07/28/19	07/28/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	92.4	85-114			%	07/28/19	07/28/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	108	80-119			%	07/28/19	07/28/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	86.6 #	89-112			%	07/28/19	07/28/19

= Recovery (or RPD) is outside QC limits.

Quant Method: L0724W.M
Run #: 0727L33
Instrument: Loki
Sequence: 190724
Dilution Factor: 1
Initials: DPO

Printed: 07/30/19 11:27:58 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89593

Sample ID: ERH847

APPL ID: AZ95330

Sample Collection Date: 07/23/19

QCG: #86BTO-190729BT-242802

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	07/29/19	07/29/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	07/29/19	07/29/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	07/29/19	07/29/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	07/29/19	07/29/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	94.7	81-118			%	07/29/19	07/29/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	95.4	85-114			%	07/29/19	07/29/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	95.2	80-119			%	07/29/19	07/29/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	94.5	89-112			%	07/29/19	07/29/19

Quant Method: T0726W.M
Run #: 0729T27
Instrument: Thor
Sequence: T190726
Dilution Factor: 1
Initials: DPO

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APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH848

Sample Collection Date: 07/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89593

APPL ID: AZ95331

QCG: #86BTO-190729BT-242802

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	07/29/19	07/29/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	07/29/19	07/29/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	07/29/19	07/29/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	07/29/19	07/29/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	102	81-118			%	07/29/19	07/29/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	97.2	85-114			%	07/29/19	07/29/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	106	80-119			%	07/29/19	07/29/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	99.8	89-112			%	07/29/19	07/29/19

Quant Method: T0726W.M
Run #: 0729T28
Instrument: Thor
Sequence: T190726
Dilution Factor: 1
Initials: DPO

Printed: 07/30/19 11:27:58 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89593
APPL ID: **AZ95332**
QCG: #86BTO-190729BT-242802

Sample ID: ERH849

Sample Collection Date: 07/22/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	07/29/19	07/29/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	07/29/19	07/29/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	07/29/19	07/29/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	07/29/19	07/29/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	105	81-118			%	07/29/19	07/29/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	105	85-114			%	07/29/19	07/29/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	108	80-119			%	07/29/19	07/29/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	108	89-112			%	07/29/19	07/29/19

Quant Method: T0726W.M
Run #: 0729T29
Instrument: Thor
Sequence: T190726
Dilution Factor: 1
Initials: DPO

Printed: 07/30/19 11:27:58 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH850

Sample Collection Date: 07/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89593

APPL ID: AZ95333

QCG: #86BTO-190729BT-242802

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	07/29/19	07/29/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	07/29/19	07/29/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	07/29/19	07/29/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	07/29/19	07/29/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	135 #	81-118			%	07/29/19	07/29/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	129 #	85-114			%	07/29/19	07/29/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	138 #	80-119			%	07/29/19	07/29/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	132 #	89-112			%	07/29/19	07/29/19

= Recovery (or RPD) is outside QC limits.

Quant Method: T0726W.M
Run #: 0729T30
Instrument: Thor
Sequence: T190726
Dilution Factor: 1
Initials: DPO

Printed: 07/30/19 11:27:58 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89593
APPL ID: **AZ95334**
QCG: #86BTO-190729BT-242802

Sample ID: ERH851

Sample Collection Date: 07/23/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	07/29/19	07/29/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	07/29/19	07/29/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	07/29/19	07/29/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	07/29/19	07/29/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	94.5	81-118			%	07/29/19	07/29/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	88.2	85-114			%	07/29/19	07/29/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	95.5	80-119			%	07/29/19	07/29/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	89.7	89-112			%	07/29/19	07/29/19

Quant Method: T0726W.M
Run #: 0729T31
Instrument: Thor
Sequence: T190726
Dilution Factor: 1
Initials: DPO

Printed: 07/30/19 11:27:58 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89593
APPL ID: **AZ95335**
QCG: #86BTO-190729BT-242802

Sample ID: ERH852

Sample Collection Date: 07/22/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	07/29/19	07/29/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	07/29/19	07/29/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	07/29/19	07/29/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	07/29/19	07/29/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	109	81-118			%	07/29/19	07/29/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	101	85-114			%	07/29/19	07/29/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	111	80-119			%	07/29/19	07/29/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	103	89-112			%	07/29/19	07/29/19

Quant Method: T0726W.M
Run #: 0729T32
Instrument: Thor
Sequence: T190726
Dilution Factor: 1
Initials: DPO

Printed: 07/30/19 11:27:58 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89593
APPL ID: **AZ95336**
QCG: #86BTO-190729BT-242802

Sample ID: ERH853

Sample Collection Date: 07/22/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	07/29/19	07/29/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	07/29/19	07/29/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	07/29/19	07/29/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	07/29/19	07/29/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	95.4	81-118			%	07/29/19	07/29/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	87.8	85-114			%	07/29/19	07/29/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	98.2	80-119			%	07/29/19	07/29/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	91.2	89-112			%	07/29/19	07/29/19

Quant Method: T0726W.M
Run #: 0729T33
Instrument: Thor
Sequence: T190726
Dilution Factor: 1
Initials: DPO

Printed: 07/30/19 11:27:58 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
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Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89593

Sample ID: ERH854

APPL ID: AZ95337

Sample Collection Date: 07/22/19

QCG: #86BTO-190729BT-242802

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	07/30/19	07/30/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	07/30/19	07/30/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	07/30/19	07/30/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	07/30/19	07/30/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	95.4	81-118			%	07/30/19	07/30/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	90.3	85-114			%	07/30/19	07/30/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	96.9	80-119			%	07/30/19	07/30/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	91.1	89-112			%	07/30/19	07/30/19

Quant Method: T0726W.M
Run #: 0729T34
Instrument: Thor
Sequence: T190726
Dilution Factor: 1
Initials: DPO

Printed: 07/30/19 11:27:58 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH855

Sample Collection Date: 07/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89593

APPL ID: AZ95338

QCG: #86BTO-190729BT-242802

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	07/30/19	07/30/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	07/30/19	07/30/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	07/30/19	07/30/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	07/30/19	07/30/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	91.5	81-118			%	07/30/19	07/30/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	88.0	85-114			%	07/30/19	07/30/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	93.5	80-119			%	07/30/19	07/30/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	90.9	89-112			%	07/30/19	07/30/19

Quant Method: T0726W.M
Run #: 0729T35
Instrument: Thor
Sequence: T190726
Dilution Factor: 1
Initials: DPO

Printed: 07/30/19 11:27:58 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89593
APPL ID: **AZ95328**
QCG: #GRO86-190727BL-242770

Sample ID: ERH845

Sample Collection Date: 07/23/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	07/28/19	07/28/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	88.5	85-114			%	07/28/19	07/28/19

Quant Method: LGAS716.M
Run #: 0727L32
Instrument: Loki
Sequence: 190724
Dilution Factor: 1
Initials: DPO

Printed: 07/30/19 10:45:43 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH846

Sample Collection Date: 07/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89593

APPL ID: AZ95329

QCG: #GRO86-190727BL-242770

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	79 ++	20	18.0	8.6	ug/L	07/28/19	07/28/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	92.4	85-114			%	07/28/19	07/28/19

++(G3) The analyst has noted that the chromatogram of this sample includes higher boiling hydrocarbons.

Quant Method: LGAS716.M
Run #: 0727L33
Instrument: Loki
Sequence: 190724
Dilution Factor: 1
Initials: DPO

Printed: 07/30/19 10:45:43 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH847

Sample Collection Date: 07/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89593

APPL ID: AZ95330

QCG: #GRO86-190729BT-242799

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	07/29/19	07/29/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	95.4	85-114			%	07/29/19	07/29/19

Quant Method: TGAS729.M
Run #: 0729T27
Instrument: Thor
Sequence: T190726
Dilution Factor: 1
Initials: DPO

Printed: 07/30/19 10:45:43 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH848
Sample Collection Date: 07/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89593
APPL ID: AZ95331
QCG: #GRO86-190729BT-242799

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	07/29/19	07/29/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	97.2	85-114			%	07/29/19	07/29/19

Quant Method: TGAS729.M
Run #: 0729T28
Instrument: Thor
Sequence: T190726
Dilution Factor: 1
Initials: DPO

Printed: 07/30/19 10:45:43 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH849

Sample Collection Date: 07/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89593

APPL ID: AZ95332

QCG: #GRO86-190729BT-242799

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	07/29/19	07/29/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	105	85-114			%	07/29/19	07/29/19

Quant Method: TGAS729.M
Run #: 0729T29
Instrument: Thor
Sequence: T190726
Dilution Factor: 1
Initials: DPO

Printed: 07/30/19 10:45:43 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89593
APPL ID: **AZ95333**
QCG: #GRO86-190729BT-242799

Sample ID: ERH850

Sample Collection Date: 07/23/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	07/29/19	07/29/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	129 #	85-114			%	07/29/19	07/29/19

= Recovery (or RPD) is outside QC limits.

Quant Method: TGAS729.M
Run #: 0729T30
Instrument: Thor
Sequence: T190726
Dilution Factor: 1
Initials: DPO

Printed: 07/30/19 10:45:43 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH851

Sample Collection Date: 07/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89593

APPL ID: AZ95334

QCG: #GRO86-190729BT-242799

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	07/29/19	07/29/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	88.2	85-114			%	07/29/19	07/29/19

Quant Method: TGAS729.M
Run #: 0729T31
Instrument: Thor
Sequence: T190726
Dilution Factor: 1
Initials: DPO

Printed: 07/30/19 10:45:43 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89593
APPL ID: **AZ95335**
QCG: #GRO86-190729BT-242799

Sample ID: ERH852
Sample Collection Date: 07/22/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	07/29/19	07/29/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	101	85-114			%	07/29/19	07/29/19

Quant Method: TGAS729.M
Run #: 0729T32
Instrument: Thor
Sequence: T190726
Dilution Factor: 1
Initials: DPO

Printed: 07/30/19 10:45:43 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH853

Sample Collection Date: 07/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89593

APPL ID: AZ95336

QCG: #GRO86-190729BT-242799

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	07/29/19	07/29/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	87.8	85-114			%	07/29/19	07/29/19

Quant Method: TGAS729.M
Run #: 0729T33
Instrument: Thor
Sequence: T190726
Dilution Factor: 1
Initials: DPO

Printed: 07/30/19 10:45:43 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH854

Sample Collection Date: 07/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89593

APPL ID: AZ95337

QCG: #GRO86-190729BT-242799

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	07/30/19	07/30/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	90.3	85-114			%	07/30/19	07/30/19

Quant Method: TGAS729.M
Run #: 0729T34
Instrument: Thor
Sequence: T190726
Dilution Factor: 1
Initials: DPO

Printed: 07/30/19 10:45:43 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
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Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89593
APPL ID: **AZ95338**
QCG: #GRO86-190729BT-242799

Sample ID: ERH855
Sample Collection Date: 07/22/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	07/30/19	07/30/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	88.0	85-114			%	07/30/19	07/30/19

Quant Method: TGAS729.M
Run #: 0729T35
Instrument: Thor
Sequence: T190726
Dilution Factor: 1
Initials: DPO

Printed: 07/30/19 10:45:44 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH845

Sample Collection Date: 07/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89593

APPL ID: AZ95328

QCG: #RSKME-190729A-242762

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	07/29/19	07/29/19

Quant Method: RSK0618.M
Run #: 19072903
Instrument: Rocky
Sequence: 190618
Dilution Factor: 1
Initials: CMO

Printed: 07/29/19 2:32:35 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH846

Sample Collection Date: 07/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89593

APPL ID: AZ95329

QCG: #RSKME-190729A-242762

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	2400 E	5.0	1.00	0.25	ug/L	07/29/19	07/29/19

E = The reported value exceeds linear range.

Quant Method: RSK0618.M
Run #: 19072904
Instrument: Rocky
Sequence: 190618
Dilution Factor: 1
Initials: CMO

Printed: 07/29/19 2:32:36 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE - Dilution

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH846

Sample Collection Date: 07/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89593

APPL ID: AZ95329

QCG: #RSKME-190729A-242762

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	4600	50.0	10.00	2.50	ug/L	07/29/19	07/29/19

Quant Method: RSK0618.M
Run #: 19072905
Instrument: Rocky
Sequence: 190618
Dilution Factor: 10
Initials: CMO

Printed: 07/29/19 2:32:36 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH847

Sample Collection Date: 07/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89593

APPL ID: AZ95330

QCG: #RSKME-190729A-242762

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	3000 E	5.0	1.00	0.25	ug/L	07/29/19	07/29/19

E = The reported value exceeds linear range.

Quant Method: RSK0618.M
Run #: 19072906
Instrument: Rocky
Sequence: 190618
Dilution Factor: 1
Initials: CMO

Printed: 07/29/19 2:32:36 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE - Dilution

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89593

Sample ID: ERH847

APPL ID: AZ95330

Sample Collection Date: 07/23/19

QCG: #RSKME-190729A-242762

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	4900	50.0	10.00	2.50	ug/L	07/29/19	07/29/19

Quant Method: RSK0618.M
Run #: 19072907
Instrument: Rocky
Sequence: 190618
Dilution Factor: 10
Initials: CMO

Printed: 07/29/19 2:32:36 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89593

Sample ID: ERH848

APPL ID: AZ95331

Sample Collection Date: 07/22/19

QCG: #RSKME-190729A-242762

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	5.2	5.0	1.00	0.25	ug/L	07/29/19	07/29/19

Quant Method: RSK0618.M
Run #: 19072908
Instrument: Rocky
Sequence: 190618
Dilution Factor: 1
Initials: CMO

Printed: 07/29/19 2:32:36 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89593
APPL ID: **AZ95332**
QCG: #RSKME-190729A-242762

Sample ID: ERH849

Sample Collection Date: 07/22/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	07/29/19	07/29/19

Quant Method: RSK0618.M
Run #: 19072909
Instrument: Rocky
Sequence: 190618
Dilution Factor: 1
Initials: CMO

Printed: 07/29/19 2:32:36 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH850

Sample Collection Date: 07/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89593

APPL ID: AZ95333

QCG: #RSKME-190729A-242762

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	07/29/19	07/29/19

Quant Method: RSK0618.M
Run #: 19072910
Instrument: Rocky
Sequence: 190618
Dilution Factor: 1
Initials: CMO

Printed: 07/29/19 2:32:36 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH851

Sample Collection Date: 07/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89593

APPL ID: AZ95334

QCG: #RSKME-190729A-242762

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	07/29/19	07/29/19

Quant Method: RSK0618.M
Run #: 19072911
Instrument: Rocky
Sequence: 190618
Dilution Factor: 1
Initials: CMO

Printed: 07/29/19 2:32:36 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH852

Sample Collection Date: 07/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89593

APPL ID: AZ95335

QCG: #RSKME-190729A-242762

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	07/29/19	07/29/19

Quant Method: RSK0618.M
Run #: 19072912
Instrument: Rocky
Sequence: 190618
Dilution Factor: 1
Initials: CMO

Printed: 07/29/19 2:32:36 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89593

Sample ID: ERH853

APPL ID: AZ95336

Sample Collection Date: 07/22/19

QCG: #RSKME-190729A-242762

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	07/29/19	07/29/19

Quant Method: RSK0618.M
Run #: 19072913
Instrument: Rocky
Sequence: 190618
Dilution Factor: 1
Initials: CMO

Printed: 07/29/19 2:32:36 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH854

Sample Collection Date: 07/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89593

APPL ID: AZ95337

QCG: #RSKME-190729A-242762

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	07/29/19	07/29/19

Quant Method: RSK0618.M
Run #: 19072914
Instrument: Rocky
Sequence: 190618
Dilution Factor: 1
Initials: CMO

Printed: 07/29/19 2:32:36 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH855

Sample Collection Date: 07/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89593

APPL ID: AZ95338

QCG: #RSKME-190729A-242762

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	07/29/19	07/29/19

Quant Method: RSK0618.M
Run #: 19072915
Instrument: Rocky
Sequence: 190618
Dilution Factor: 1
Initials: CMO

Printed: 07/29/19 2:32:36 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH846

Sample Collection Date: 07/23/19

APPL ID: AZ95329

ARF: 89593

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 300.0	CHLORIDE	43.6	1.0	0.20	0.08	mg/L	1	07/24/19	07/24/19
EPA 300.0	NITRATE	0.18 U	0.5	0.18	0.04	mg/L	1	07/24/19	07/24/19
EPA 300.0	SULFATE	0.57 J	1.0	0.20	0.09	mg/L	1	07/24/19	07/24/19

J = Estimated value.

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APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH849

Sample Collection Date: 07/22/19

APPL ID: AZ95332

ARF: 89593

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 300.0	CHLORIDE	51.7	1.0	0.20	0.08	mg/L	1	07/24/19	07/24/19
EPA 300.0	NITRATE	6.3	0.5	0.18	0.04	mg/L	1	07/24/19	07/24/19
EPA 300.0	SULFATE	51.0	1.0	0.20	0.09	mg/L	1	07/24/19	07/24/19

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APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

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Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH851

Sample Collection Date: 07/23/19

APPL ID: AZ95334

ARF: 89593

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 300.0	NITRATE	2.5	0.5	0.18	0.04	mg/L	1	07/24/19	07/24/19
EPA 300.0	SULFATE	10.6	1.0	0.20	0.09	mg/L	1	07/24/19	07/24/19
EPA 300.0	CHLORIDE	74.0	5.0	1.00	0.40	mg/L	5	07/24/19	07/24/19

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APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
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Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH853

Sample Collection Date: 07/22/19

APPL ID: AZ95336

ARF: 89593

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 300.0	NITRATE	3.3	0.5	0.18	0.04	mg/L	1	07/24/19	07/24/19
EPA 300.0	CHLORIDE	141	5.0	1.00	0.40	mg/L	5	07/24/19	07/24/19
EPA 300.0	SULFATE	120	5.0	1.00	0.45	mg/L	5	07/24/19	07/24/19

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APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

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Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH855

Sample Collection Date: 07/22/19

APPL ID: AZ95338

ARF: 89593

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 300.0	NITRATE	2.0	0.5	0.18	0.04	mg/L	1	07/24/19	07/24/19
EPA 300.0	CHLORIDE	443	20.0	4.00	1.60	mg/L	20	07/24/19	07/24/19
EPA 300.0	SULFATE	96.1	20.0	4.00	1.80	mg/L	20	07/24/19	07/24/19

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APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH846

Sample Collection Date: 07/23/19

APPL ID: AZ95329

ARF: 89593

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 353.2	NITRATE-NITRITE-N	0.090 U	0.10	0.090	0.028	mg/L	1	07/31/19	07/31/19
SM 2320B	BICARBONATE AS CaCO ₃	212	2.0	1.70	0.85	mg/L	1	07/31/19	07/31/19
SM 2320B	CARBONATE AS CaCO ₃	1.70 U	2.0	1.70	0.85	mg/L	1	07/31/19	07/31/19
SM 2320B	TOTAL ALKALINITY AS CaCO ₃	212	2.0	1.70	0.85	mg/L	1	07/31/19	07/31/19
SM3500FeB	FERROUS IRON	2.5	1.0	0.32	0.16	mg/L	1	07/24/19	07/24/19
SW846 9060A	TOTAL ORGANIC CARBON	4.4	0.93	0.350	0.130	mg/L	1	08/02/19	08/02/19

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APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
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Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH849

Sample Collection Date: 07/22/19

APPL ID: AZ95332

ARF: 89593

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 300.0	CHLORIDE	51.7	1.0	0.20	0.08	mg/L	1	07/24/19	07/24/19
EPA 300.0	NITRATE	6.3	0.5	0.18	0.04	mg/L	1	07/24/19	07/24/19
EPA 300.0	SULFATE	51.0	1.0	0.20	0.09	mg/L	1	07/24/19	07/24/19
EPA 353.2	NITRATE-NITRITE-N	1.5	0.10	0.090	0.028	mg/L	1	07/31/19	07/31/19
SM 2320B	BICARBONATE AS CaCO ₃	305	2.0	1.70	0.85	mg/L	1	07/29/19	07/29/19
SM 2320B	CARBONATE AS CaCO ₃	1.70 U	2.0	1.70	0.85	mg/L	1	07/29/19	07/29/19
SM 2320B	TOTAL ALKALINITY AS CaCO ₃	305	2.0	1.70	0.85	mg/L	1	07/29/19	07/29/19
SM3500FeB	FERROUS IRON	0.32 U	1.0	0.32	0.16	mg/L	1	07/24/19	07/24/19
SW846 9060A	TOTAL ORGANIC CARBON	1.8	0.93	0.350	0.130	mg/L	1	08/02/19	08/02/19

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APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH851

Sample Collection Date: 07/23/19

APPL ID: AZ95334

ARF: 89593

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 353.2	NITRATE-NITRITE-N	0.45	0.10	0.090	0.028	mg/L	1	07/31/19	07/31/19
SM 2320B	BICARBONATE AS CaCO ₃	76.8	2.0	1.70	0.85	mg/L	1	07/31/19	07/31/19
SM 2320B	CARBONATE AS CaCO ₃	1.70 U	2.0	1.70	0.85	mg/L	1	07/31/19	07/31/19
SM 2320B	TOTAL ALKALINITY AS CaCO ₃	76.8	2.0	1.70	0.85	mg/L	1	07/31/19	07/31/19
SM3500FeB	FERROUS IRON	0.17 J	1.0	0.32	0.16	mg/L	1	07/24/19	07/24/19
SW846 9060A	TOTAL ORGANIC CARBON	0.65 J	0.93	0.350	0.130	mg/L	1	08/02/19	08/02/19

J = Estimated value.

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APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH853

Sample Collection Date: 07/22/19

APPL ID: AZ95336

ARF: 89593

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 353.2	NITRATE-NITRITE-N	0.67	0.10	0.090	0.028	mg/L	1	07/31/19	07/31/19
SM 2320B	BICARBONATE AS CaCO ₃	16.4	2.0	1.70	0.85	mg/L	1	07/31/19	07/31/19
SM 2320B	CARBONATE AS CaCO ₃	1.70 U	2.0	1.70	0.85	mg/L	1	07/31/19	07/31/19
SM 2320B	TOTAL ALKALINITY AS CaCO ₃	16.4	2.0	1.70	0.85	mg/L	1	07/31/19	07/31/19
SM3500FeB	FERROUS IRON	0.32 U	1.0	0.32	0.16	mg/L	1	07/24/19	07/24/19
SW846 9060A	TOTAL ORGANIC CARBON	0.67 J	0.93	0.350	0.130	mg/L	1	08/02/19	08/02/19

J = Estimated value.

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APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH855

Sample Collection Date: 07/22/19

APPL ID: AZ95338

ARF: 89593

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 353.2	NITRATE-NITRITE-N	0.47	0.10	0.090	0.028	mg/L	1	07/31/19	07/31/19
SM 2320B	BICARBONATE AS CaCO ₃	106	2.0	1.70	0.85	mg/L	1	07/31/19	07/31/19
SM 2320B	CARBONATE AS CaCO ₃	1.70 U	2.0	1.70	0.85	mg/L	1	07/31/19	07/31/19
SM 2320B	TOTAL ALKALINITY AS CaCO ₃	106	2.0	1.70	0.85	mg/L	1	07/31/19	07/31/19
SM3500FeB	FERROUS IRON	0.32 U	1.0	0.32	0.16	mg/L	1	07/24/19	07/24/19
SW846 9060A	TOTAL ORGANIC CARBON	0.83 J	0.93	0.350	0.130	mg/L	1	08/01/19	08/03/19

J = Estimated value.

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APPL-F1-SC-NoMC-REG MDLs

QC FORMS

EPA 8015B-eLL

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/30/19

Matrix: WATER

Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: OCTACOSANE (S)			SURROGATE: ORTHO-TERPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190727A-BLK	Blank	60-142	106		56-125	81.7	
190727A-LCS	Lab Control Spike	60-142	124		56-125	98.8	
190727A-LCSD	Lab Control SpikeD	60-142	140		56-125	98.9	
AZ95329	ERH846	60-142	104		56-125	81.9	
AZ95330	ERH847	60-142	109		56-125	82.9	
AZ95332	ERH849	60-142	126		56-125	84.7	
AZ95334	ERH851	60-142	101		56-125	87.1	
AZ95336	ERH853	60-142	97.2		56-125	82.5	
AZ95338	ERH855	60-142	96.3		56-125	85.6	

Comments: Batch: #DOC53-190727A

Printed: 08/08/19 11:41:06 AM
Form 2 & 8, Surrogate Recovery Summary

EPA 8015B-eLL

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 08/21/19

Matrix: WATER

Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: ORTHO-TERPHENYL (S)					
		Limits	Result	Qualifier	Limits	Result	Qualifier
190727A1-BLK	Blank	56-125	107				
190727A1-LCS	Lab Control Spike	56-125	106				
190727A1-LCSD	Lab Control SpikeD	56-125	107				
AZ95329	ERH846	56-125	114				
AZ95330	ERH847	56-125	108				
AZ95332	ERH849	56-125	116				

Comments: Batch: #DOC53-190727A1

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Form 2 & 8, Surrogate Recovery Summary

EPA 8015B-eL

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/30/19

Matrix: WATER

Instrument: Apollo

Blank ID: 190727A-BLK

Time Analyzed: 1838

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190727A-BLK	Blank	713254	07/30/19 1838
190727A-LCS	Lab Control Spike	713255	07/30/19 1858
190727A-LCSD	Lab Control Spiked	713256	07/30/19 1917
AZ95329	ERH846	713262	07/30/19 2117
AZ95330	ERH847	713263	07/30/19 2137
AZ95332	ERH849	713264	07/30/19 2157
AZ95334	ERH851	713265	07/30/19 2217
AZ95336	ERH853	713266	07/30/19 2237
AZ95338	ERH855	713268	07/30/19 2316

Comments: Batch: #DOC53-190727A

Printed: 08/08/19 11:41:27 AM
Form 4, Blank Summary

EPA 8015B-eL

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 08/21/19

Matrix: WATER

Instrument: Apollo

Blank ID: 190727A1-BLK

Time Analyzed: 0026

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190727A1-BLK	Blank	814150	08/21/19 0026
190727A1-LCS	Lab Control Spike	814151	08/21/19 0045
190727A1-LCSD	Lab Control SpikeD	814152	08/21/19 0105
AZ95329	ERH846	814153	08/21/19 0125
AZ95330	ERH847	814154	08/21/19 0145
AZ95332	ERH849	814155	08/21/19 0205

Comments: Batch: #DOC53-190727A1

Method Blank
EPA 8015B TPH LIQ-LIQ

Blank Name/QCG: **190727W-95189 - 243221**
Batch ID: #DOC53-190727A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	DIESEL (C10-C24)	25.00 U	40.0	25.00	13.07	ug/L	07/27/19	07/30/19
BLANK	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	07/27/19	07/30/19
BLANK	SURROGATE: OCTACOSANE (S)	106	60-142			%	07/27/19	07/30/19
BLANK	SURROGATE: ORTHO-TERPHEN	81.7	56-125			%	07/27/19	07/30/19

Quant Method:DOC0617.M
Run #:713254
Instrument:Apollo
Sequence:190713
Initials:BTI

GC SC-Blank-REG MDLs-DOD
Printed: 08/08/19 11:41:06 AM

Method Blank
EPA 8015B TPH WATER L-L SGC

Blank Name/QCG: **190727W-95329 - 243920**
Batch ID: #DOC53-190727A1

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	DIESEL (C10-C24)	25.00 U	40.0	25.00	13.07	ug/L	07/27/19	08/21/19
BLANK	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	07/27/19	08/21/19
BLANK	SURROGATE: (R) DECANOIC AC	0.0	0-1			%	07/27/19	08/21/19
BLANK	SURROGATE: OCTACOSANE (S)	105	60-142			%	07/27/19	08/21/19
BLANK	SURROGATE: ORTHO-TERPHEN	107	56-125			%	07/27/19	08/21/19

Quant Method: DOC0617.M
Run #: 814150
Instrument: Apollo
Sequence: 190814
Initials: BTI

GC SC-Blank-REG MDLs-DOD
Printed: 08/26/19 2:44:37 PM

EPA 8015B-eL

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/30/19

Matrix: WATER

Instrument: Apollo

LCS ID: 190727A-LCS

Time Analyzed: 1858

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190727A-BLK	Blank	713254	07/30/19 1838
190727A-LCS	Lab Control Spike	713255	07/30/19 1858
190727A-LCSD	Lab Control Spiked	713256	07/30/19 1917
AZ95329	ERH846	713262	07/30/19 2117
AZ95330	ERH847	713263	07/30/19 2137
AZ95332	ERH849	713264	07/30/19 2157
AZ95334	ERH851	713265	07/30/19 2217
AZ95336	ERH853	713266	07/30/19 2237
AZ95338	ERH855	713268	07/30/19 2316

Comments: Batch: #DOC53-190727A

Printed: 08/08/19 11:41:27 AM
Form 4, LCS Summary

EPA 8015B-eL

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 08/21/19

Matrix: WATER

Instrument: Apollo

LCS ID: 190727A1-LCS

Time Analyzed: 0045

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190727A1-BLK	Blank	814150	08/21/19 0026
190727A1-LCS	Lab Control Spike	814151	08/21/19 0045
190727A1-LCSD	Lab Control SpikeD	814152	08/21/19 0105
AZ95329	ERH846	814153	08/21/19 0125
AZ95330	ERH847	814154	08/21/19 0145
AZ95332	ERH849	814155	08/21/19 0205

Comments: Batch: #DOC53-190727A1

Printed: 08/26/19 2:45:00 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8015B TPH LIQ-LIQ

APPL ID: 190727W-95189 LCS - 243221
 Batch ID: #DOC53-190727A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
DIESEL (C10-C24)	1250	1140	1140	91.2	91.2	36-132	0.0	30
OIL (C24-C40)	1250	1190	1260	95.2	101	41-113	5.7	30
SURROGATE: OCTACOSANE (S)	75.0	92.7	105	124	140	60-142		
SURROGATE: ORTHO-TERPHENYL (S)	75.0	74.1	74.2	98.8	98.9	56-125		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	DOC0617.M	DOC0617.M
Extraction Date :	07/27/19	07/27/19
Analysis Date :	07/30/19	07/30/19
Instrument :	Apollo	Apollo
Run :	713255	713256
Initials :	BTI	

Laboratory Control Spike Recoveries

EPA 8015B TPH WATER L-L SGC

APPL ID: 190727W-95329 LCS - 243920
 Batch ID: #DOC53-190727A1

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
DIESEL (C10-C24)	1250	1220	1240	97.6	99.2	36-132	1.6	30
OIL (C24-C40)	1250	1210	1230	96.8	98.4	41-113	1.6	30
<hr/>								
SURROGATE: (R) DECANOIC ACID (S)	10.00	0	0	0.0	0.0	0-1		
SURROGATE: OCTACOSANE (S)	75.0	79.2	79.3	106	106	60-142		
SURROGATE: ORTHO-TERPHENYL (S)	75.0	79.8	80.1	106	107	56-125		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	DOC0617.M	DOC0617.M
Extraction Date :	07/27/19	07/27/19
Analysis Date :	08/21/19	08/21/19
Instrument :	Apollo	Apollo
Run :	814151	814152
Initials :	BTI	

8270D-SIM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/30/19

Matrix: WATER

Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: 2-METHYLNAPHTHALENE-D10 (S)			SURROGATE: FLUORANTHENE-D10 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190725A-BLK	Blank	39-114	99.7		58-120	118	
190725A-LCS	Lab Control Spike	39-114	105		58-120	110	
190725A-LCSD	Lab Control Spiked	39-114	99.5		58-120	105	
AZ95330	ERH847	39-114	104		58-120	112	
AZ95332	ERH849	39-114	98.5		58-120	119	
AZ95334	ERH851	39-114	101		58-120	114	
AZ95336	ERH853	39-114	99.4		58-120	108	
AZ95338	ERH855	39-114	98.1		58-120	109	
AZ95329	ERH846	39-114	100		58-120	110	

Comments: Batch: #SIM53-190725A

Printed: 07/31/19 3:57:11 PM
Form 2 & 8, Surrogate Recovery Summary

8270D-SIM

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/30/19

Matrix: WATER

Instrument: Yoda

Blank ID: 190725A-BLK

Time Analyzed: 1034

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190725A-BLK	Blank	0717Y273	07/30/19 1034
190725A-LCS	Lab Control Spike	0717Y280	07/30/19 1327
190725A-LCSD	Lab Control SpikeD	0717Y281	07/30/19 1350
AZ95330	ERH847	0717Y285	07/30/19 1526
AZ95332	ERH849	0717Y286	07/30/19 1550
AZ95334	ERH851	0717Y287	07/30/19 1613
AZ95336	ERH853	0717Y288	07/30/19 1636
AZ95338	ERH855	0717Y289	07/30/19 1715
AZ95329	ERH846	0717Y306	07/31/19 1512

Comments: Batch: #SIM53-190725A

Printed: 07/31/19 3:57:12 PM
Form 4, Blank Summary

Method Blank
EPA 8270D SIM LIQ-LIQ

Blank Name/QCG: **190725W-95189 - 242823**
Batch ID: #SIM53-190725A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/25/19	07/30/19
BLANK	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/25/19	07/30/19
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/25/19	07/30/19
BLANK	SURROGATE: 2-METHYLNAPHT	99.7	39-114			%	07/25/19	07/30/19
BLANK	SURROGATE: FLUORANTHENE-	118	58-120			%	07/25/19	07/30/19

Quant Method: Y0717P.M
Run #: 0717Y273
Instrument: Yoda
Sequence: Y190717P
Initials: MA

GC SC-Blank-REG MDLs-DOD
Printed: 07/31/19 3:56:47 PM

8270D-SIM

Form 4

LCS Summary

Lab Name: APPL, Inc.
Case No: 89593
Matrix: WATER
LCS ID: 190725A-LCS

SDG No: 89593
Date Analyzed: 07/30/19
Instrument: Yoda
Time Analyzed: 1327

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190725A-BLK	Blank	0717Y273	07/30/19 1034
190725A-LCS	Lab Control Spike	0717Y280	07/30/19 1327
190725A-LCSD	Lab Control SpikeD	0717Y281	07/30/19 1350
AZ95330	ERH847	0717Y285	07/30/19 1526
AZ95332	ERH849	0717Y286	07/30/19 1550
AZ95334	ERH851	0717Y287	07/30/19 1613
AZ95336	ERH853	0717Y288	07/30/19 1636
AZ95338	ERH855	0717Y289	07/30/19 1715
AZ95329	ERH846	0717Y306	07/31/19 1512

Comments: Batch: #SIM53-190725A

Laboratory Control Spike Recoveries

EPA 8270D SIM LIQ-LIQ

APPL ID: 190725W-95189 LCS - 242823
 Batch ID: #SIM53-190725A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1-METHYLNAPHTHALENE	6.25	3.97	3.75	63.5	60.0	41-115	5.7	20
2-METHYLNAPHTHALENE	6.25	4.87	4.68	77.9	74.9	39-114	4.0	20
NAPHTHALENE	6.25	4.52	4.25	72.3	68.0	43-114	6.2	20
<hr/>								
SURROGATE: 2-METHYLNAPHTHALEN	6.25	6.57	6.22	105	99.5	39-114		
SURROGATE: FLUORANTHENE-D10 (S)	6.25	6.87	6.57	110	105	58-120		
<hr/>								

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	Y0717P.M	Y0717P.M
Extraction Date :	07/25/19	07/25/19
Analysis Date :	07/30/19	07/30/19
Instrument :	Yoda	Yoda
Run :	0717Y280	0717Y281
Initials :	MA	

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: _____
Matrix: Soil
ID: 0717Y002.D

SDG No: _____
Date Analyzed: 07/17/19
Instrument: Yoda
Time Analyzed: 9:34

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	0.1 SIM 07/10/19	0717Y003.D	07/17/19 9:51
2	0.2 SIM 07/10/19	0717Y004.D	07/17/19 10:14
3	0.5 SIM 07/10/19	0717Y005.D	07/17/19 10:38
4	1.0 SIM 07/10/19	0717Y006.D	07/17/19 11:01
5	5.0 SIM 07/10/19	0717Y007.D	07/17/19 11:25
6	10 SIM 07/10/19	0717Y008.D	07/17/19 11:48
7	50 SIM 07/10/19	0717Y009.D	07/17/19 12:11
8	100 SIM 07/10/19	0717Y010.D	07/17/19 12:35
9	SS SIM 07/10/19	0717Y012.D	07/17/19 13:32
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

m/e

51 10 - 80% of mass 198	<u>25.9</u>
68 0 - 2% of mass 69	<u>0.0</u>
70 0 - 2% of mass 69	<u>0.5</u>
127 10 - 80% of mass 198	<u>42.1</u>
197 0 - 2% of mass 198	<u>0.0</u>
198 100 - 100% of mass 198	<u>100.0</u>
199 5 - 9% of mass 198	<u>6.7</u>
275 10 - 60% of mass 198	<u>34.0</u>
365 1 - 100% of mass 198	<u>4.6</u>
441 0.01 - 24% of mass 442	<u>16.2</u>
442 50 - 500% of mass 198	<u>178.7</u>
443 17 - 23% of mass 442	<u>19.8</u>

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: 89593
 Matrix: Water
 ID: 0717Y271.D

SDG No: 89593
 Date Analyzed: 7/30/2019
 Instrument: Yoda
 Time Analyzed: 9:50

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	Blank	190725A BLK 1/800	0717Y273.D	7/30/2019 10:34
2	Lab Control Spike	190725A LCS-2 1/800	0717Y280.D	7/30/2019 13:27
3	Lab Control SpikeD	190725A LCSD-2 1/800	0717Y281.D	7/30/2019 13:50
4	ERH847	AZ95330W16 1/800	0717Y285.D	7/30/2019 15:26
5	ERH849	AZ95332W16 1/800	0717Y286.D	7/30/2019 15:50
6	ERH851	AZ95334W16 1/800	0717Y287.D	7/30/2019 16:13
7	ERH853	AZ95336W16 1/800	0717Y288.D	7/30/2019 16:36
8	ERH855	AZ95338W16 1/800	0717Y289.D	7/30/2019 17:15
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e

51 10 - 80% of mass 198	25.5
68 0 - 2% of mass 69	0.0
70 0 - 2% of mass 69	0.0
127 10 - 80% of mass 198	42.9
197 0 - 2% of mass 198	0.0
198 100 - 100% of mass 198	100.0
199 5 - 9% of mass 198	6.6
275 10 - 60% of mass 198	33.0
365 1 - 100% of mass 198	4.6
441 0.01 - 24% of mass 442	11.5
442 50 - 500% of mass 198	195.9
443 17 - 23% of mass 442	19.8

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: 89593
 Matrix: Water
 ID: 0717Y304.D

SDG No: 89593
 Date Analyzed: 7/31/2019
 Instrument: Yoda
 Time Analyzed: 14:35

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	ERH846	AZ95329W16 1/800	0717Y306.D	7/31/2019 15:12
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e

51 10 - 80% of mass 198	<u>26.5</u>
68 0 - 2% of mass 69	<u>0.0</u>
70 0 - 2% of mass 69	<u>0.6</u>
127 10 - 80% of mass 198	<u>43.6</u>
197 0 - 2% of mass 198	<u>0.0</u>
198 100 - 100% of mass 198	<u>100.0</u>
199 5 - 9% of mass 198	<u>6.8</u>
275 10 - 60% of mass 198	<u>32.7</u>
365 1 - 100% of mass 198	<u>4.3</u>
441 0.01 - 24% of mass 442	<u>16.5</u>
442 50 - 500% of mass 198	<u>180.9</u>
443 17 - 23% of mass 442	<u>19.5</u>

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89593
 Lab File ID (Standard): 0717Y272.D Date Analyzed: 07/30/19
 Instrument ID: Yoda Time Analyzed: 10:06
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

	Napthalene-D8(IS)		Acenaphthene-D10(IS)		Phenanthrene-D10(IS)		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12 HOUR STD	72290	4.53	38053	6.66	79844	8.41	
UPPER LIMIT	144580	4.70	76106	6.83	159688	8.58	
LOWER LIMIT	36145	4.36	19027	6.49	39922	8.24	
SAMPLE NO.							
01	190725A BLK 1/800	72894	4.53	40606	6.66	83470	8.42
02	190725A LCS-2 1/800	69733	4.52	38363	6.66	87976	8.42
03	190725A LCSD-2 1/800	75112	4.52	40135	6.66	93783	8.41
04	AZ95332W16 1/800	74812	4.53	40425	6.66	80809	8.42
05	AZ95334W16 1/800	73611	4.52	41007	6.67	83384	8.43
06	AZ95336W16 1/800	74777	4.52	41055	6.66	85675	8.43
07	AZ95338W16 1/800	74010	4.53	39943	6.68	83256	8.43
08	5.0 SIM 07/10/19 (2)	70226	4.52	37941	6.66	77708	8.43
09	5.0 SIM 07/10/19 (2)	58657	4.53	31984	6.66	63332	8.42
10	AZ95329W16 1/800	82724	4.52	49658	6.66	98406	8.42
11	5.0 SIM 07/10/19 (1)	82076	4.53	43132	6.66	90418	8.41
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89593
 Lab File ID (Standard): 0717Y272.D Date Analyzed: 07/30/19
 Instrument ID: Yoda Time Analyzed: 10:06
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

	Chrysene-D12(IS)		Perylene-D12(IS)		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12 HOUR STD	107147	11.68	115550	14.21		
UPPER LIMIT	214294	11.85	231100	14.38		
LOWER LIMIT	53574	11.51	57775	14.04		
SAMPLE NO.						
01	190725A BLK 1/800	119346	11.70	121130	14.22	
02	190725A LCS-2 1/800	125618	11.68	133560	14.21	
03	190725A LCSD-2 1/800	124961	11.68	87220	14.21	
04	AZ95332W16 1/800	113649	11.69	123491	14.21	
05	AZ95334W16 1/800	115013	11.69	125614	14.21	
06	AZ95336W16 1/800	117272	11.69	124501	14.21	
07	AZ95338W16 1/800	113232	11.70	121325	14.22	
08	5.0 SIM 07/10/19 (2)	109277	11.68	118202	14.21	
09	5.0 SIM 07/10/19 (2)	87323	11.68	95940	14.21	
10	AZ95329W16 1/800	137520	11.69	154613	14.20	
11	5.0 SIM 07/10/19 (1)	123322	11.68	131754	14.21	
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

EPA 8270D

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/29/19

Matrix: WATER

Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: 2,4,6-TRIBROMOPHENOL (S)			SURROGATE: 2-FLUORBIPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190725A-BLK	Blank	43-140	93.5		44-119	77.7	
190725A-LCS	Lab Control Spike	43-140	94.4		44-119	80.0	
190725A-LCSD	Lab Control SpikeD	43-140	94.0		44-119	78.5	
AZ95330	ERH847	43-140	102		44-119	87.4	
AZ95332	ERH849	43-140	94.5		44-119	82.2	
AZ95334	ERH851	43-140	94.8		44-119	83.7	
AZ95336	ERH853	43-140	91.0		44-119	80.0	
AZ95338	ERH855	43-140	94.1		44-119	82.1	
AZ95329	ERH846	43-140	37.4	#	44-119	85.0	

Comments: Batch: #87DC5-190725A

= Recovery outside of Control Limits on Sample.

Printed: 07/31/19 3:56:53 PM

Form 2 & 8, Surrogate Recovery Summary

EPA 8270D

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/29/19

Matrix: WATER

Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: 2-FLUOROPHENOL			SURROGATE: NITROBENZENE-D5		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190725A-BLK	Blank	19-119	79.3		44-120	88.5	
190725A-LCS	Lab Control Spike	19-119	82.4		44-120	86.4	
190725A-LCSD	Lab Control SpikeD	19-119	82.0		44-120	84.0	
AZ95330	ERH847	19-119	138	#	44-120	111	
AZ95332	ERH849	19-119	86.7		44-120	89.6	
AZ95334	ERH851	19-119	88.5		44-120	91.3	
AZ95336	ERH853	19-119	82.2		44-120	83.4	
AZ95338	ERH855	19-119	79.0		44-120	81.8	
AZ95329	ERH846	19-119	44.7		44-120	85.1	

Comments: Batch: #87DC5-190725A

= Recovery outside of Control Limits on Sample.

Printed: 07/31/19 3:56:53 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8270D

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/29/19

Matrix: WATER

Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: PHENOL-D6 (S)			SURROGATE: TERPHENYL-D14 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190725A-BLK	Blank	10-115	79.9		50-134	71.3	
190725A-LCS	Lab Control Spike	10-115	80.8		50-134	77.2	
190725A-LCSD	Lab Control SpikeD	10-115	81.6		50-134	75.7	
AZ95330	ERH847	10-115	139	#	50-134	64.8	
AZ95332	ERH849	10-115	89.7		50-134	73.7	
AZ95334	ERH851	10-115	90.6		50-134	74.9	
AZ95336	ERH853	10-115	84.7		50-134	71.5	
AZ95338	ERH855	10-115	81.4		50-134	72.7	
AZ95329	ERH846	10-115	63.8		50-134	78.9	

Comments: Batch: #87DC5-190725A

= Recovery outside of Control Limits on Sample.

Printed: 07/31/19 3:56:53 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8270D

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/29/19

Matrix: WATER

Instrument: Yoda

Blank ID: 190725A-BLK

Time Analyzed: 1431

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190725A-BLK	Blank	0722Y127	07/29/19 1431
190725A-LCS	Lab Control Spike	0722Y128	07/29/19 1500
190725A-LCSD	Lab Control SpikeD	0722Y129	07/29/19 1527
AZ95330	ERH847	0722Y136	07/29/19 1843
AZ95332	ERH849	0722Y137	07/29/19 1911
AZ95334	ERH851	0722Y138	07/29/19 1939
AZ95336	ERH853	0722Y139	07/29/19 2006
AZ95338	ERH855	0722Y140	07/29/19 2035
AZ95329	ERH846	0722Y151	07/31/19 1341

Comments: Batch: #87DC5-190725A

Printed: 07/31/19 3:57:00 PM
Form 4, Blank Summary

Method Blank
EPA 8270D WATER

Blank Name/QCG: **190725W-95189 - 242822**
Batch ID: #87DC5-190725A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	07/25/19	07/29/19
BLANK	SURROGATE: 2,4,6-TRIBROMOP	93.5	43-140			%	07/25/19	07/29/19
BLANK	SURROGATE: 2-FLUORBIPHENY	77.7	44-119			%	07/25/19	07/29/19
BLANK	SURROGATE: 2-FLUOROPHENO	79.3	19-119			%	07/25/19	07/29/19
BLANK	SURROGATE: NITROBENZENE-	88.5	44-120			%	07/25/19	07/29/19
BLANK	SURROGATE: PHENOL-D6 (S)	79.9	10-115			%	07/25/19	07/29/19
BLANK	SURROGATE: TERPHENYL-D14 (	71.3	50-134			%	07/25/19	07/29/19

Quant Method: Y0722NC.M
Run #: 0722Y127
Instrument: Yoda
Sequence: Y190722
Initials: JPR

GC SC-Blank-REG MDLs-DOD
Printed: 07/31/19 3:57:20 PM

EPA 8270D

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/29/19

Matrix: WATER

Instrument: Yoda

LCS ID: 190725A-LCS

Time Analyzed: 1500

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190725A-BLK	Blank	0722Y127	07/29/19 1431
190725A-LCS	Lab Control Spike	0722Y128	07/29/19 1500
190725A-LCSD	Lab Control SpikeD	0722Y129	07/29/19 1527
AZ95330	ERH847	0722Y136	07/29/19 1843
AZ95332	ERH849	0722Y137	07/29/19 1911
AZ95334	ERH851	0722Y138	07/29/19 1939
AZ95336	ERH853	0722Y139	07/29/19 2006
AZ95338	ERH855	0722Y140	07/29/19 2035
AZ95329	ERH846	0722Y151	07/31/19 1341

Comments: Batch: #87DC5-190725A

Printed: 07/31/19 3:57:35 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8270D WATER

APPL ID: **190725W-95189 LCS - 242822**
 Batch ID: #87DC5-190725A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
PHENOL	62.5	56.0	54.9	89.6	87.8	10-115	2.0	20
SURROGATE: 2,4,6-TRIBROMOPHENOL	250	236	235	94.4	94.0	43-140		
SURROGATE: 2-FLUOROBIPHENYL (S)	125	100	98.1	80.0	78.5	44-119		
SURROGATE: 2-FLUOROPHENOL (S)	250	206	205	82.4	82.0	19-119		
SURROGATE: NITROBENZENE-D5 (S)	125	108	105	86.4	84.0	44-120		
SURROGATE: PHENOL-D6 (S)	250	202	204	80.8	81.6	10-115		
SURROGATE: TERPHENYL-D14 (S)	125	96.5	94.6	77.2	75.7	50-134		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	Y0722NC.M	Y0722NC.M
Extraction Date :	07/25/19	07/25/19
Analysis Date :	07/29/19	07/29/19
Instrument :	Yoda	Yoda
Run :	0722Y128	0722Y129
Initials :	JPR	

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: 89593
 Matrix: Water
 ID: 0722Y119.D

SDG No: 89593
 Date Analyzed: 07/29/19
 Instrument: Yoda
 Time Analyzed: 9:07

Client Sample No.	APPL ID.	File ID.	Date Analyzed	
1	50ug/ml 8270 07/12/1	0722Y121.D	07/29/19 10:45	
2	Blank	190725A BLK 1/800	0722Y127.D	07/29/19 14:31
3	Lab Control Spike	190725A LCS-1 1/800	0722Y128.D	07/29/19 15:00
4	Lab Control SpikeD	190725A LCSD-1 1/800	0722Y129.D	07/29/19 15:27
5	ERH847	AZ95330W16 1/800	0722Y136.D	07/29/19 18:43
6	ERH849	AZ95332W16 1/800	0722Y137.D	07/29/19 19:11
7	ERH851	AZ95334W16 1/800	0722Y138.D	07/29/19 19:39
8	ERH853	AZ95336W16 1/800	0722Y139.D	07/29/19 20:06
9	ERH855	AZ95338W16 1/800	0722Y140.D	07/29/19 20:35
10	50ug/ml 8270 07/12/1	0722Y141.D	07/29/19 21:03	
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e

51 9.95 - 80.04% of mass 198	28.1
68 0 - 2% of mass 69	0.0
70 0 - 2% of mass 69	0.5
127 10 - 80% of mass 198	44.5
197 0 - 2% of mass 198	0.0
198 100 - 100% of mass 198	100.0
199 5 - 9% of mass 198	6.9
275 10 - 60% of mass 198	32.4
365 1 - 100% of mass 198	4.2
441 0.01 - 24% of mass 442	16.3
442 50 - 500% of mass 198	177.6
443 15 - 24% of mass 442	19.6

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: 89593
 Matrix: Water
 ID: 0722Y143.D

SDG No: 89593
 Date Analyzed: 07/31/19
 Instrument: Yoda
 Time Analyzed: 9:45

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	50ug/ml 8270 07/12/1	0722Y144.D	07/31/19 10:06
2	ERH846	AZ95329W16 1/800	07/31/19 13:41
3	50ug/ml 8270 07/12/1	0722Y152.D	07/31/19 14:08
4			
5			
6			
7			
8			
9			
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11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

m/e

51 9.95 - 80.04% of mass 198	<u>25.1</u>
68 0 - 2% of mass 69	<u>0.0</u>
70 0 - 2% of mass 69	<u>0.3</u>
127 10 - 80% of mass 198	<u>41.5</u>
197 0 - 2% of mass 198	<u>0.0</u>
198 100 - 100% of mass 198	<u>100.0</u>
199 5 - 9% of mass 198	<u>6.7</u>
275 10 - 60% of mass 198	<u>31.9</u>
365 1 - 100% of mass 198	<u>4.1</u>
441 0.01 - 24% of mass 442	<u>15.8</u>
442 50 - 500% of mass 198	<u>186.9</u>
443 15 - 24% of mass 442	<u>19.3</u>

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: _____
 Matrix: Soil
 ID: 0722Y002.D

SDG No: _____
 Date Analyzed: 07/22/19
 Instrument: Yoda
 Time Analyzed: 13:46

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	4ug/ml 8270 07/12/19	0722Y003.D	07/22/19 14:01
2	5ug/ml 8270 07/12/19	0722Y004.D	07/22/19 14:29
3	10ug/ml 8270 07/12/1	0722Y005.D	07/22/19 14:57
4	20ug/ml 8270 07/12/1	0722Y006.D	07/22/19 15:25
5	40ug/ml 8270 07/12/1	0722Y007.D	07/22/19 15:53
6	50ug/ml 8270 07/12/1	0722Y008.D	07/22/19 16:21
7	60ug/ml 8270 07/12/1	0722Y009.D	07/22/19 16:49
8	80ug/ml 8270 07/12/1	0722Y010.D	07/22/19 17:17
9	100ug/ml 8270 07/12/1	0722Y011.D	07/22/19 17:45
10	SS 8270 07/12/19	0722Y012.D	07/22/19 18:13
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

m/e

51 9.95 - 80.04% of mass 198	<u>26.6</u>
68 0 - 2% of mass 69	<u>0.0</u>
70 0 - 2% of mass 69	<u>0.5</u>
127 10 - 80% of mass 198	<u>42.2</u>
197 0 - 2% of mass 198	<u>0.0</u>
198 100 - 100% of mass 198	<u>100.0</u>
199 5 - 9% of mass 198	<u>6.7</u>
275 10 - 60% of mass 198	<u>32.8</u>
365 1 - 100% of mass 198	<u>4.2</u>
441 0.01 - 24% of mass 442	<u>16.1</u>
442 50 - 500% of mass 198	<u>176.3</u>
443 15 - 24% of mass 442	<u>19.5</u>

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89593
 Lab File ID (Standard): 0722Y121.D Date Analyzed: 07/29/19
 Instrument ID: Yoda Time Analyzed: 10:45
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

		1,4-dichlorobenzene-D4(IS)		Naphthalene-D8(IS)		Acenaphthene-D10(IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	283867	5.01	1092760	6.49	603872	8.53
	UPPER LIMIT	567734	5.18	2185520	6.66	1207744	8.70
	LOWER LIMIT	141934	4.84	546380	6.32	301936	8.36
	SAMPLE NO.						
01	190725A BLK 1/800	277806	5.00	1158340	6.47	692778	8.52
02	190725A LCS-1 1/800	276356	5.00	1135470	6.47	688835	8.52
03	190725A LCSD-1 1/800	277066	5.00	1172430	6.47	702341	8.52
04	AZ95330W16 1/800	171528	5.00	915271	6.47	633436	8.51
05	AZ95332W16 1/800	264900	5.00	1144160	6.47	690478	8.52
06	AZ95334W16 1/800	260815	5.00	1127380	6.47	678139	8.51
07	AZ95336W16 1/800	271451	5.00	1204640	6.47	700026	8.51
08	AZ95338W16 1/800	285353	5.00	1231020	6.48	681694	8.52
09	50ug/ml 8270 07/12/19 (338373	5.00	1326300	6.48	741640	8.52
10							
11							
12							
13							
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15							
16							
17							
18							
19							
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21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc.Contract: Review

Lab Code: _____

SDG No.: 89593Lab File ID (Standard): 0722Y121.DDate Analyzed: 07/29/19Instrument ID: YodaTime Analyzed: 10:45

GC Column: _____

ID: _____ Heated Purge: (Y/N) _____

	Phenanthrene-D10(IS)		Chrysene-D12(IS)		Perylene-D12(IS)							
	AREA	#	RT	#	AREA	#		RT	#			
12 HOUR STD	1210710		10.28		1108200		13.40		1284640		15.15	
UPPER LIMIT	2421420		10.45		2216400		13.57		2569280		15.32	
LOWER LIMIT	605355		10.11		554100		13.23		642320		14.98	
SAMPLE												
NO.												
01	190725A BLK 1/800	1407710		10.27	1400270		13.38		1506560		15.14	
02	190725A LCS-1 1/800	1424540		10.27	1320110		13.39		1532800		15.14	
03	190725A LCSD-1 1/800	1425790		10.27	1330410		13.39		1539580		15.14	
04	AZ95330W16 1/800	1287040		10.27	1303310		13.39		1402900		15.14	
05	AZ95332W16 1/800	1382830		10.27	1352500		13.38		1468030		15.14	
06	AZ95334W16 1/800	1339010		10.27	1345260		13.39		1444980		15.14	
07	AZ95336W16 1/800	1391420		10.27	1376420		13.39		1477660		15.14	
08	AZ95338W16 1/800	1359880		10.26	1342140		13.38		1454540		15.14	
09	50ug/ml 8270 07/12/19 (1527030		10.27	1382390		13.39		1619110		15.15	
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20												
21												
22												

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = -50% of internal standard area.

RT UPPER LIMIT = +0.17 minutes of internal standard RT

RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89593
 Lab File ID (Standard): 0722Y144.D Date Analyzed: 07/31/19
 Instrument ID: Yoda Time Analyzed: 10:06
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

		1,4-dichlorobenzene-D4(IS)		Napthalene-D8(IS)		Acenaphthene-D10(IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		284528	4.98	1113620	6.43	617105	8.47
UPPER LIMIT		569056	5.15	2227240	6.60	1234210	8.64
LOWER LIMIT		142264	4.81	556810	6.26	308553	8.30
SAMPLE NO.							
01	AZ95329W16 1/800	258494	4.97	1104480	6.43	649624	8.47
02	50ug/ml 8270 07/12/19 (344780	4.97	1360980	6.44	775495	8.46
03							
04							
05							
06							
07							
08							
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11							
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13							
14							
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16							
17							
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20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89593
 Lab File ID (Standard): 0722Y144.D Date Analyzed: 07/31/19
 Instrument ID: Yoda Time Analyzed: 10:06
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

		Phenanthrene-D10(IS)		Chrysene-D12(IS)		Perylene-D12(IS)			
		AREA	#	RT	#	AREA	#	RT	#
12 HOUR STD		1249580		10.21		1159350		13.32	
UPPER LIMIT		2499160		10.38		2318700		13.49	
LOWER LIMIT		624790		10.04		579675		13.15	
SAMPLE NO.									
01	AZ95329W16 1/800	1279980		10.21		1264850		13.31	
02	50ug/ml 8270 07/12/19 (1581680		10.21		1455180		13.32	
03									
04									
05									
06									
07									
08									
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11									
12									
13									
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21									
22									

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

EPA 8270D

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/30/19

Matrix: WATER

Instrument: Linus

Blank ID: 190726A-BLK

Time Analyzed: 1645

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190726A-BLK	Blank	0730L014	07/30/19 1645
190726A-LCS	Lab Control Spike	0730L015	07/30/19 1709
190726A-LCSD	Lab Control SpikeD	0730L016	07/30/19 1732
AZ95329	ERH846	0730L022	07/30/19 1951
AZ95330	ERH847	0730L023	07/30/19 2015
AZ95332	ERH849	0730L024	07/30/19 2038
AZ95334	ERH851	0730L025	07/30/19 2101
AZ95336	ERH853	0730L026	07/30/19 2124
AZ95338	ERH855	0730L027	07/30/19 2147

Comments: Batch: #87DME-190726A

Printed: 07/31/19 11:09:18 AM
Form 4, Blank Summary

Method Blank
EPA 8270D MODIFIED WATER

Blank Name/QCG: **190726W-95189 - 242855**
Batch ID: #87DME-190726A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	2-(2-METHOXYETHOXY)-ETHAN	80.0 U	100	80.0	40.0	ug/L	07/26/19	07/30/19

Quant Method: LMEE0430.M
Run #: 0730L014
Instrument: Linus
Sequence: L190730M
Initials: MA

GC SC-Blank-REG MDLs-DOD
Printed: 07/31/19 11:09:12 AM

EPA 8270D

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/30/19

Matrix: WATER

Instrument: Linus

LCS ID: 190726A-LCS

Time Analyzed: 1709

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190726A-BLK	Blank	0730L014	07/30/19 1645
190726A-LCS	Lab Control Spike	0730L015	07/30/19 1709
190726A-LCSD	Lab Control SpikeD	0730L016	07/30/19 1732
AZ95329	ERH846	0730L022	07/30/19 1951
AZ95330	ERH847	0730L023	07/30/19 2015
AZ95332	ERH849	0730L024	07/30/19 2038
AZ95334	ERH851	0730L025	07/30/19 2101
AZ95336	ERH853	0730L026	07/30/19 2124
AZ95338	ERH855	0730L027	07/30/19 2147

Comments: Batch: #87DME-190726A

Printed: 07/31/19 11:09:18 AM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8270D MODIFIED WATER

APPL ID: 190726W-95189 LCS - 242855
 Batch ID: #87DME-190726A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
2-(2-METHOXYETHOXY)-ETHANOL	80.0	103	121	129	151 #	30-130	16.1	20

= Recovery is outside QC limits.

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	LMEE0430.M	LMEE0430.M
Extraction Date :	07/26/19	07/26/19
Analysis Date :	07/30/19	07/30/19
Instrument :	Linus	Linus
Run :	0730L015	0730L016
Initials :	MA	

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 89593
Matrix: Water
ID: 0730L013.D

SDG No: 89593
Date Analyzed: 7/30/2019
Instrument: Linus
Time Analyzed: 16:20

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	Blank	190726A BLK 2/500	0730L014.D	7/30/2019 16:45
2	Lab Control Spike	190726A LCS-1 2/500	0730L015.D	7/30/2019 17:09
3	Lab Control SpikeD	190726A LCSD-1 2/500	0730L016.D	7/30/2019 17:32
4	ERH846	AZ95329W11 2/500	0730L022.D	7/30/2019 19:51
5	ERH847	AZ95330W10 2/500	0730L023.D	7/30/2019 20:15
6	ERH849	AZ95332W11 2/500	0730L024.D	7/30/2019 20:38
7	ERH851	AZ95334W10 2/500	0730L025.D	7/30/2019 21:01
8	ERH853	AZ95336W10 2/500	0730L026.D	7/30/2019 21:24
9	ERH855	AZ95338W11 2/500	0730L027.D	7/30/2019 21:47
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e

51 10 - 80% of mass 198	12.6
68 0 - 2% of mass 69	0.0
69 100 - 100% of mass 69	100.0
70 0 - 2% of mass 69	0.3
127 10 - 80% of mass 198	33.4
197 0 - 2% of mass 198	0.0
198 100 - 100% of mass 198	100.0
199 5 - 9% of mass 198	6.7
275 10 - 60% of mass 198	33.7
365 1 - 100% of mass 198	4.5
441 0.01 - 24% of mass 442	15.4
442 50 - 500% of mass 198	221.2
443 15 - 24% of mass 442	19.5

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89593
 Lab File ID (Standard): 0730L007.D Date Analyzed: 07/30/19
 Instrument ID: Linus Time Analyzed: 14:04
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

	1,4-dichlorobenzene-D4(IS)		Napthalene-D8(IS)		Acenaphthene-D10(IS)		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12 HOUR STD	1382830	6.13	4970140	7.05	3606290	8.42	
UPPER LIMIT	2765660	6.30	9940280	7.22	7212580	8.59	
LOWER LIMIT	691415	5.96	2485070	6.88	1803145	8.25	
SAMPLE NO.							
01	190726A BLK 2/500	1336800	6.14	4953760	7.06	3582060	8.42
02	190726A LCS-1 2/500	1275340	6.14	4717280	7.06	3276410	8.42
03	190726A LCSD-1 2/500	1099450	6.14	4328760	7.06	3177080	8.42
04	AZ95329W11 2/500	783866	6.12	4804350	7.05	3415250	8.42
05	AZ95330W10 2/500	771078	6.13	4594530	7.05	3434410	8.42
06	AZ95332W11 2/500	1322010	6.14	4958930	7.06	3554640	8.42
07	AZ95334W10 2/500	906314	6.13	5119730	7.05	3426170	8.42
08	AZ95336W10 2/500	1368350	6.14	5192780	7.06	3305490	8.42
09	AZ95338W11 2/500	1294820	6.14	4352420	7.06	3457230	8.42
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89593
 Lab File ID (Standard): 0730L007.D Date Analyzed: 07/30/19
 Instrument ID: Linus Time Analyzed: 14:04
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

	Phenanthrene-D10(IS)		Chrysene-D12(IS)		Perylene-D12(IS)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	7424400	9.59	7867430	11.88	7875030	13.64
UPPER LIMIT	14848800	9.76	15734860	12.05	15750060	13.81
LOWER LIMIT	3712200	9.42	3933715	11.71	3937515	13.47
SAMPLE NO.						
01 190726A BLK 2/500	8123030	9.59	8906230	11.90	9831220	13.67
02 190726A LCS-1 2/500	7472320	9.59	8004560	11.88	8866060	13.64
03 190726A LCSD-1 2/500	7321660	9.59	7997470	11.88	10753500	13.64
04 AZ95329W11 2/500	7636360	9.59	8712550	11.90	9638790	13.67
05 AZ95330W10 2/500	7729870	9.59	8390380	11.89	8549250	13.65
06 AZ95332W11 2/500	8107460	9.59	9246190	11.89	10472900	13.65
07 AZ95334W10 2/500	7788130	9.59	8761120	11.88	9756770	13.64
08 AZ95336W10 2/500	7899110	9.59	7913650	11.88	9713510	13.64
09 AZ95338W11 2/500	7810540	9.59	7310320	11.88	8160860	13.64
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/27/19

Matrix: WATER

Instrument: Loki

APPL ID.	Client Sample No.	SURROGATE: 1,2-DICHLOROETHANE-D4 (S)			SURROGATE: 4-BROMOFLUOROBENZENE (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190727BL-LCS	Lab Control Spike	81-118	93.6		85-114	100	
190727BL-LCSD	Lab Control SpikeD	81-118	92.8		85-114	108	
190727BL-BLK	Blank	81-118	101		85-114	97.7	
AZ95328	ERH845	81-118	107		85-114	88.5	
AZ95329	ERH846	81-118	102		85-114	92.4	

Comments: Batch: #86BTO-190727BL

Printed: 07/30/19 11:27:31 AM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/27/19

Matrix: WATER

Instrument: Loki

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190727BL-LCS	Lab Control Spike	80-119	98.4		89-112	93.2	
190727BL-LCSD	Lab Control Spiked	80-119	100		89-112	97.2	
190727BL-BLK	Blank	80-119	107		89-112	100.0	
AZ95328	ERH845	80-119	110		89-112	98.8	
AZ95329	ERH846	80-119	108		89-112	86.6	#

Comments: Batch: #86BTO-190727BL

= Recovery outside of Control Limits on Sample.

Printed: 07/30/19 11:27:31 AM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/29/19

Matrix: WATER

Instrument: Thor

APPL ID.	Client Sample No.	SURROGATE: 1,2-DICHLOROETHANE-D4 (S)			SURROGATE: 4-BROMOFLUOROBENZENE (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190729BT-LCS	Lab Control Spike	81-118	98.8		85-114	98.0	
190729BT-LCSD	Lab Control SpikeD	81-118	94.0		85-114	89.6	
190729BT-BLK	Blank	81-118	93.8		85-114	90.7	
AZ95330	ERH847	81-118	94.7		85-114	95.4	
AZ95331	ERH848	81-118	102		85-114	97.2	
AZ95332	ERH849	81-118	105		85-114	105	
AZ95333	ERH850	81-118	135	#	85-114	129	#
AZ95334	ERH851	81-118	94.5		85-114	88.2	
AZ95335	ERH852	81-118	109		85-114	101	
AZ95336	ERH853	81-118	95.4		85-114	87.8	
AZ95337	ERH854	81-118	95.4		85-114	90.3	
AZ95338	ERH855	81-118	91.5		85-114	88.0	

Comments: Batch: #86BTO-190729BT

= Recovery outside of Control Limits on Sample.

Printed: 07/30/19 11:27:31 AM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/29/19

Matrix: WATER

Instrument: Thor

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190729BT-LCS	Lab Control Spike	80-119	99.2		89-112	97.6	
190729BT-LCSD	Lab Control SpikeD	80-119	96.4		89-112	90.0	
190729BT-BLK	Blank	80-119	93.9		89-112	93.4	
AZ95330	ERH847	80-119	95.2		89-112	94.5	
AZ95331	ERH848	80-119	106		89-112	99.8	
AZ95332	ERH849	80-119	108		89-112	108	
AZ95333	ERH850	80-119	138	#	89-112	132	#
AZ95334	ERH851	80-119	95.5		89-112	89.7	
AZ95335	ERH852	80-119	111		89-112	103	
AZ95336	ERH853	80-119	98.2		89-112	91.2	
AZ95337	ERH854	80-119	96.9		89-112	91.1	
AZ95338	ERH855	80-119	93.5		89-112	90.9	

Comments: Batch: #86BTO-190729BT

= Recovery outside of Control Limits on Sample.

Printed: 07/30/19 11:27:32 AM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/27/19

Matrix: WATER

Instrument: Loki

Blank ID: 190727BL-BLK

Time Analyzed: 2148

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190727BL-LCS	Lab Control Spike	0727L21	07/27/19 1924
190727BL-LCSD	Lab Control SpikeD	0727L22	07/27/19 1953
190727BL-BLK	Blank	0727L26	07/27/19 2148
AZ95328	ERH845	0727L32	07/28/19 0040
AZ95329	ERH846	0727L33	07/28/19 0109

Comments: Batch: #86BTO-190727BL

Printed: 07/30/19 11:27:56 AM
Form 4, Blank Summary

Method Blank
EPA 8260B BTEX WATER

Blank Name/QCG: **190727W-95189 - 242776**
Batch ID: #86BTO-190727BL

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	07/27/19	07/27/19
BLANK	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	07/27/19	07/27/19
BLANK	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	07/27/19	07/27/19
BLANK	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	07/27/19	07/27/19
BLANK	SURROGATE: 1,2-DICHLOROET	101	81-118			%	07/27/19	07/27/19
BLANK	SURROGATE: 4-BROMOFLUORO	97.7	85-114			%	07/27/19	07/27/19
BLANK	SURROGATE: DIBROMOFLUOR	107	80-119			%	07/27/19	07/27/19
BLANK	SURROGATE: TOLUENE-D8 (S)	100.0	89-112			%	07/27/19	07/27/19

Quant Method: GROE0716.M
Run #: 0727L26
Instrument: Loki
Sequence: 190724
Initials: DPO

GC SC-Blank-REG MDLs-DOD
Printed: 07/30/19 11:27:30 AM

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/29/19

Matrix: WATER

Instrument: Thor

Blank ID: 190729BT-BLK

Time Analyzed: 2024

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190729BT-LCS	Lab Control Spike	0729T21	07/29/19 1803
190729BT-LCSD	Lab Control SpikeD	0729T22	07/29/19 1831
190729BT-BLK	Blank	0729T26	07/29/19 2024
AZ95330	ERH847	0729T27	07/29/19 2052
AZ95331	ERH848	0729T28	07/29/19 2120
AZ95332	ERH849	0729T29	07/29/19 2148
AZ95333	ERH850	0729T30	07/29/19 2216
AZ95334	ERH851	0729T31	07/29/19 2244
AZ95335	ERH852	0729T32	07/29/19 2312
AZ95336	ERH853	0729T33	07/29/19 2340
AZ95337	ERH854	0729T34	07/30/19 0008
AZ95338	ERH855	0729T35	07/30/19 0037

Comments: Batch: #86BTO-190729BT

Printed: 07/30/19 11:27:56 AM
Form 4, Blank Summary

Method Blank
EPA 8260B BTEX WATER

Blank Name/QCG: **190729W-95330 - 242802**
Batch ID: #86BTO-190729BT

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	07/29/19	07/29/19
BLANK	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	07/29/19	07/29/19
BLANK	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	07/29/19	07/29/19
BLANK	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	07/29/19	07/29/19
BLANK	SURROGATE: 1,2-DICHLOROET	93.8	81-118			%	07/29/19	07/29/19
BLANK	SURROGATE: 4-BROMOFLUORO	90.7	85-114			%	07/29/19	07/29/19
BLANK	SURROGATE: DIBROMOFLUOR	93.9	80-119			%	07/29/19	07/29/19
BLANK	SURROGATE: TOLUENE-D8 (S)	93.4	89-112			%	07/29/19	07/29/19

Quant Method: T0726W.M
Run #: 0729T26
Instrument: Thor
Sequence: T190726
Initials: DPO

GC SC-Blank-REG MDLs-DOD
Printed: 07/30/19 11:27:30 AM

EPA 8260B

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/27/19

Matrix: WATER

Instrument: Loki

LCS ID: 190727BL-LCS

Time Analyzed: 1924

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190727BL-LCS	Lab Control Spike	0727L21	07/27/19 1924
190727BL-LCSD	Lab Control Spiked	0727L22	07/27/19 1953
190727BL-BLK	Blank	0727L26	07/27/19 2148
AZ95328	ERH845	0727L32	07/28/19 0040
AZ95329	ERH846	0727L33	07/28/19 0109

Comments: Batch: #86BTO-190727BL

Laboratory Control Spike Recoveries

EPA 8260B BTEX WATER

APPL ID: 190727W-95189 LCS - 242776
 Batch ID: #86BTO-190727BL

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
BENZENE	10.00	9.08	10.9	90.8	109	79-120	18.2	20
ETHYLBENZENE	10.00	9.12	10.4	91.2	104	79-121	13.1	20
TOLUENE	10.00	9.48	10.9	94.8	109	80-121	13.9	20
XYLENES (TOTAL)	30.0	26.8	31.1	89.3	104	79-121	14.9	20

SURROGATE: 1,2-DICHLOROETHANE-D	25.0	23.4	23.2	93.6	92.8	81-118		
SURROGATE: 4-BROMOFLUOROBENZE	25.0	25.0	26.9	100	108	85-114		
SURROGATE: DIBROMOFLUOROMETH	25.0	24.6	25.1	98.4	100	80-119		
SURROGATE: TOLUENE-D8 (S)	25.0	23.3	24.3	93.2	97.2	89-112		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	L0724W.M	L0724W.M
Extraction Date :	07/27/19	07/27/19
Analysis Date :	07/27/19	07/27/19
Instrument :	Loki	Loki
Run :	0727L21	0727L22
Initials :	DPO	

EPA 8260B

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/29/19

Matrix: WATER

Instrument: Thor

LCS ID: 190729BT-LCS

Time Analyzed: 1803

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190729BT-LCS	Lab Control Spike	0729T21	07/29/19 1803
190729BT-LCSD	Lab Control Spiked	0729T22	07/29/19 1831
190729BT-BLK	Blank	0729T26	07/29/19 2024
AZ95330	ERH847	0729T27	07/29/19 2052
AZ95331	ERH848	0729T28	07/29/19 2120
AZ95332	ERH849	0729T29	07/29/19 2148
AZ95333	ERH850	0729T30	07/29/19 2216
AZ95334	ERH851	0729T31	07/29/19 2244
AZ95335	ERH852	0729T32	07/29/19 2312
AZ95336	ERH853	0729T33	07/29/19 2340
AZ95337	ERH854	0729T34	07/30/19 0008
AZ95338	ERH855	0729T35	07/30/19 0037

Comments: Batch: #86BTO-190729BT

Printed: 07/30/19 11:27:57 AM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8260B BTEX WATER

APPL ID: 190729W-95330 LCS - 242802
 Batch ID: #86BTO-190729BT

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
BENZENE	10.00	10.4	10.6	104	106	79-120	1.9	20
ETHYLBENZENE	10.00	10.3	10.5	103	105	79-121	1.9	20
TOLUENE	10.00	10.6	10.6	106	106	80-121	0.0	20
XYLENES (TOTAL)	30.0	32.3	31.6	108	105	79-121	2.2	20

SURROGATE: 1,2-DICHLOROETHANE-D	25.0	24.7	23.5	98.8	94.0	81-118		
SURROGATE: 4-BROMOFLUOROBENZE	25.0	24.5	22.4	98.0	89.6	85-114		
SURROGATE: DIBROMOFLUOROMETH	25.0	24.8	24.1	99.2	96.4	80-119		
SURROGATE: TOLUENE-D8 (S)	25.0	24.4	22.5	97.6	90.0	89-112		

Comments: _____

	<u>SPK</u>	<u>DUP</u>
Quant Method :	T0726W.M	T0726W.M
Extraction Date :	07/29/19	07/29/19
Analysis Date :	07/29/19	07/29/19
Instrument :	Thor	Thor
Run :	0729T21	0729T22
Initials :	DPO	

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: _____
 Matrix: Water
 ID: _____

SDG No: _____
 Date Analyzed: 7/24/2019
 Instrument: Loki
 Time Analyzed: 13:52

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	0.3ug/L VOC STD 07/2	0724L15.D	7/24/2019 15:18
2	0.5ug/L VOC STD 07/2	0724L16.D	7/24/2019 15:47
3	1.0ug/L VOC STD 07/2	0724L17.D	7/24/2019 16:16
4	2.0ug/L VOC STD 07/2	0724L18.D	7/24/2019 16:45
5	5.0ug/L VOC STD 07/2	0724L19.D	7/24/2019 17:14
6	10ug/L VOC STD 07/24	0724L20.D	7/24/2019 17:42
7	20ug/L VOC STD 07/24	0724L21.D	7/24/2019 18:11
8	40ug/L VOC STD 07/24	0724L22.D	7/24/2019 18:40
9	100ug/L VOC STD 07/2	0724L23.D	7/24/2019 19:09
10	SS 10ug/L VOC STD 07	0724L26.D	7/24/2019 20:36
11	SS 30ug/L VOC STD 07	0724L27.D	7/24/2019 21:04
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

m/e

50 15.0 - 40.0% of mass 95	<u>15.3</u>
75 30.0 - 60.0% of mas 95	<u>43.6</u>
95 Base peak, 100% relative abundance	<u>100.0</u>
96 5.0 - 9.0% of mass 95	<u>7.5</u>
173 Less than 2.0% of mass 174	<u>0.0</u>
174 50.0 - 100.0% of mass 95	<u>110.7</u>
175 5.0 - 9.0% of mass 174	<u>7.4</u>
176 95.0 - 101.0% of mass 174	<u>95.5</u>
177 5.0 - 9.0% of mass 176	<u>6.4</u>

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 89593
Matrix: Water
ID: 0727L19.D

SDG No: 89593
Date Analyzed: 7/27/2019
Instrument: Loki
Time Analyzed: 18:26

Client Sample No.	APPL ID.	File ID.	Date Analyzed	
1	Lab Control Spike	190727B LCS 10ug/L	0727L21.D	7/27/2019 19:24
2	Lab Control SpikeD	190727B LCSD 10ug/L	0727L22.D	7/27/2019 19:53
3	Blank	190727B BLK	0727L26.D	7/27/2019 21:48
4	ERH845	AZ95328W01	0727L32.D	7/28/2019 0:40
5	ERH846	AZ95329W01	0727L33.D	7/28/2019 1:09
6		Ending CCV 10ug/L 07	0727L40.D	7/28/2019 4:31
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e

50 15 - 40% of mass 95	14.6
75 30 - 60% of mass 95	44.8
95 100 - 100% of mass 95	100.0
96 5 - 9% of mass 95	7.4
173 0 - 2% of mass 174	0.0
174 50 - 200% of mass 95	111.3
175 5 - 9% of mass 174	8.6
176 94.95 - 101% of mass 174	98.7
177 5 - 9% of mass 176	6.1

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: _____
 Matrix: Water
 ID: _____

SDG No: _____
 Date Analyzed: 7/26/2019
 Instrument: Thor
 Time Analyzed: 11:50

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	0.3ug/L VOC STD 07/2	0726T04.D	7/26/2019 13:35
2	0.5ug/L VOC STD 07/2	0726T05.D	7/26/2019 14:03
3	1.0ug/L VOC STD 07/2	0726T06.D	7/26/2019 14:31
4	2.0ug/L VOC STD 07/2	0726T07.D	7/26/2019 14:59
5	5.0ug/L VOC STD 07/2	0726T08.D	7/26/2019 15:27
6	10ug/L VOC STD 07/26	0726T09.D	7/26/2019 15:55
7	20ug/L VOC STD 07/26	0726T10.D	7/26/2019 16:24
8	100ug/L VOC STD 07/2	0726T12.D	7/26/2019 17:20
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

m/e

50 15.0 - 40.0% of mass 95	<u>15.4</u>
75 30.0 - 60.0% of mas 95	<u>47.4</u>
95 Base peak, 100% relative abundance	<u>100.0</u>
96 5.0 - 9.0% of mass 95	<u>7.1</u>
173 Less than 2.0% of mass 174	<u>0.4</u>
174 50.0 - 100.0% of mass 95	<u>102.3</u>
175 5.0 - 9.0% of mass 174	<u>7.6</u>
176 95.0 - 101.0% of mass 174	<u>99.4</u>
177 5.0 - 9.0% of mass 176	<u>6.2</u>

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: 89593
 Matrix: Water
 ID: 0729T16.D

SDG No: 89593
 Date Analyzed: 7/29/2019
 Instrument: Thor
 Time Analyzed: 15:42

Client Sample No.	APPL ID.	File ID.	Date Analyzed	
1	Lab Control Spike	190729B CCV/LCS 10ug	0729T21.D	7/29/2019 18:03
2	Lab Control SpikeD	190729B LCSD 10ug/L	0729T22.D	7/29/2019 18:31
3	Blank	190729B BLK	0729T26.D	7/29/2019 20:24
4	ERH847	AZ95330W02	0729T27.D	7/29/2019 20:52
5	ERH848	AZ95331W01	0729T28.D	7/29/2019 21:20
6	ERH849	AZ95332W01	0729T29.D	7/29/2019 21:48
7	ERH850	AZ95333W01	0729T30.D	7/29/2019 22:16
8	ERH851	AZ95334W01	0729T31.D	7/29/2019 22:44
9	ERH852	AZ95335W01	0729T32.D	7/29/2019 23:12
10	ERH853	AZ95336W01	0729T33.D	7/29/2019 23:40
11	ERH854	AZ95337W01	0729T34.D	7/30/2019 0:08
12	ERH855	AZ95338W01	0729T35.D	7/30/2019 0:37
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e

50 15 - 40% of mass 95	<u>16.6</u>
75 30 - 60% of mass 95	<u>47.2</u>
95 100 - 100% of mass 95	<u>100.0</u>
96 5 - 9% of mass 95	<u>6.7</u>
173 0 - 2% of mass 174	<u>0.0</u>
174 50 - 200% of mass 95	<u>103.0</u>
175 5 - 9% of mass 174	<u>7.6</u>
176 95 - 101% of mass 174	<u>98.9</u>
177 5 - 9% of mass 176	<u>6.7</u>

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89593
 Lab File ID (Standard): 0727L20.D Date Analyzed: 07/27/19
 Instrument ID: Loki Time Analyzed: 18:55
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

	Fluorobenzene (IS)		Chlorobenzene-D5 (IS)		1,4-Dichlorobenzene-D (IS)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	191296	5.71	181568	9.24	108024	11.79
UPPER LIMIT	382592	5.88	363136	9.41	216048	11.96
LOWER LIMIT	95648	5.54	90784	9.07	54012	11.62
SAMPLE NO.						
01 190727B LCS 10ug/L	203648	5.71	188800	9.24	109992	11.79
02 190727B LCSD 10ug/L	194944	5.71	180992	9.24	111920	11.79
03 190727B BLK	177664	5.71	161600	9.24	83280	11.79
04 AZ95328W01	172672	5.71	161280	9.24	78696	11.79
05 AZ95329W01	164096	5.71	167680	9.24	96248	11.79
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89593
 Lab File ID (Standard): 0729T21.D Date Analyzed: 07/29/19
 Instrument ID: Thor Time Analyzed: 18:03
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

	Fluorobenzene (IS)		Chlorobenzene-D5 (IS)		1,4-Dichlorobenzene-D (IS)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	451456	5.50	442240	8.79	235968	11.11
UPPER LIMIT	902912	5.67	884480	8.96	471936	11.28
LOWER LIMIT	225728	5.33	221120	8.62	117984	10.94
SAMPLE NO.						
01 190729B LCSD 10ug/L	463424	5.50	467712	8.79	249856	11.11
02 190729B BLK	451072	5.50	438912	8.79	234496	11.11
03 AZ95330W02	443136	5.50	430720	8.79	237632	11.11
04 AZ95331W01	482368	5.50	468800	8.79	244352	11.11
05 AZ95332W01	453568	5.50	433664	8.79	229760	11.11
06 AZ95333W01	441216	5.50	444480	8.79	225856	11.11
07 AZ95334W01	454400	5.50	458304	8.79	234880	11.11
08 AZ95335W01	438400	5.50	442240	8.79	222144	11.11
09 AZ95336W01	439680	5.50	443712	8.79	220160	11.11
10 AZ95337W01	451904	5.50	454272	8.79	232704	11.11
11 AZ95338W01	464000	5.50	454080	8.79	233216	11.11
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/27/19

Matrix: WATER

Instrument: Loki

APPL ID.	Client Sample No.	SURROGATE: 4-BROMOFLUOROBENZENE (S)			Limits	Result	Qualifier
		Limits	Result	Qualifier			
190727BL-LCS	Lab Control Spike	85-114	100				
190727BL-LCSD	Lab Control Spiked	85-114	101				
190727BL-BLK	Blank	85-114	97.7				
AZ95328	ERH845	85-114	88.5				
AZ95329	ERH846	85-114	92.4				

Comments: Batch: #GRO86-190727BL

Printed: 07/30/19 10:45:16 AM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/29/19

Matrix: WATER

Instrument: Thor

APPL ID.	Client Sample No.	SURROGATE: 4-BROMOFLUOROBENZENE (S)			Limits	Result	Qualifier
		Limits	Result	Qualifier			
190729BT-LCS	Lab Control Spike	85-114	91.2				
190729BT-LCSD	Lab Control SpikeD	85-114	90.4				
190729BT-BLK	Blank	85-114	90.7				
AZ95330	ERH847	85-114	95.4				
AZ95331	ERH848	85-114	97.2				
AZ95332	ERH849	85-114	105				
AZ95333	ERH850	85-114	129	#			
AZ95334	ERH851	85-114	88.2				
AZ95335	ERH852	85-114	101				
AZ95336	ERH853	85-114	87.8				
AZ95337	ERH854	85-114	90.3				
AZ95338	ERH855	85-114	88.0				

Comments: Batch: #GRO86-190729BT

= Recovery outside of Control Limits on Sample.

Printed: 07/30/19 10:45:17 AM

Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/27/19

Matrix: WATER

Instrument: Loki

Blank ID: 190727BL-BLK

Time Analyzed: 2148

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190727BL-LCS	Lab Control Spike	0727L24	07/27/19 2050
190727BL-LCSD	Lab Control SpikeD	0727L25	07/27/19 2119
190727BL-BLK	Blank	0727L26	07/27/19 2148
AZ95328	ERH845	0727L32	07/28/19 0040
AZ95329	ERH846	0727L33	07/28/19 0109

Comments: Batch: #GRO86-190727BL

Printed: 07/30/19 10:45:41 AM
Form 4, Blank Summary

Method Blank
EPA 8260B GRO WATER

Blank Name/QCG: **190727W-95189 - 242770**
Batch ID: #GRO86-190727BL

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	07/27/19	07/27/19
BLANK	SURROGATE: 4-BROMOFLUORO	97.7	85-114			%	07/27/19	07/27/19

Quant Method: LGAS716.M
Run #: 0727L26
Instrument: Loki
Sequence: 190724
Initials: DPO

GC SC-Blank-REG MDLs-DOD
Printed: 07/30/19 10:45:16 AM

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/29/19

Matrix: WATER

Instrument: Thor

Blank ID: 190729BT-BLK

Time Analyzed: 2024

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190729BT-LCS	Lab Control Spike	0729T18	07/29/19 1639
190729BT-LCSD	Lab Control SpikeD	0729T19	07/29/19 1707
190729BT-BLK	Blank	0729T26	07/29/19 2024
AZ95330	ERH847	0729T27	07/29/19 2052
AZ95331	ERH848	0729T28	07/29/19 2120
AZ95332	ERH849	0729T29	07/29/19 2148
AZ95333	ERH850	0729T30	07/29/19 2216
AZ95334	ERH851	0729T31	07/29/19 2244
AZ95335	ERH852	0729T32	07/29/19 2312
AZ95336	ERH853	0729T33	07/29/19 2340
AZ95337	ERH854	0729T34	07/30/19 0008
AZ95338	ERH855	0729T35	07/30/19 0037

Comments: Batch: #GRO86-190729BT

Printed: 07/30/19 10:45:42 AM
Form 4, Blank Summary

Method Blank
EPA 8260B GRO WATER

Blank Name/QCG: **190729W-95330 - 242799**
Batch ID: #GRO86-190729BT

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	07/29/19	07/29/19
BLANK	SURROGATE: 4-BROMOFLUORO	90.7	85-114			%	07/29/19	07/29/19

Quant Method: TGAS729.M
Run #: 0729T26
Instrument: Thor
Sequence: T190726
Initials: DPO

GC SC-Blank-REG MDLs-DOD
Printed: 07/30/19 10:45:16 AM

EPA 8260B

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/27/19

Matrix: WATER

Instrument: Loki

LCS ID: 190727BL-LCS

Time Analyzed: 2050

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190727BL-LCS	Lab Control Spike	0727L24	07/27/19 2050
190727BL-LCSD	Lab Control SpikeD	0727L25	07/27/19 2119
190727BL-BLK	Blank	0727L26	07/27/19 2148
AZ95328	ERH845	0727L32	07/28/19 0040
AZ95329	ERH846	0727L33	07/28/19 0109

Comments: Batch: #GRO86-190727BL

Printed: 07/30/19 10:45:42 AM
Form 4, LCS Summary

Laboratory Control Spike Recoveries
EPA 8260B GRO WATER

APPL ID: 190727W-95189 LCS - 242770
 Batch ID: #GRO86-190727BL

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
GASOLINE RANGE ORGANICS	300	273	293	91.0	97.7	78-122	7.1	20
SURROGATE: 4-BROMOFLUOROBENZE	25.0	25.1	25.3	100	101	85-114		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	LGAS716.M	LGAS716.M
Extraction Date :	07/27/19	07/27/19
Analysis Date :	07/27/19	07/27/19
Instrument :	Loki	Loki
Run :	0727L24	0727L25
Initials :	DPO	

EPA 8260B

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/29/19

Matrix: WATER

Instrument: Thor

LCS ID: 190729BT-LCS

Time Analyzed: 1639

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190729BT-LCS	Lab Control Spike	0729T18	07/29/19 1639
190729BT-LCSD	Lab Control SpikeD	0729T19	07/29/19 1707
190729BT-BLK	Blank	0729T26	07/29/19 2024
AZ95330	ERH847	0729T27	07/29/19 2052
AZ95331	ERH848	0729T28	07/29/19 2120
AZ95332	ERH849	0729T29	07/29/19 2148
AZ95333	ERH850	0729T30	07/29/19 2216
AZ95334	ERH851	0729T31	07/29/19 2244
AZ95335	ERH852	0729T32	07/29/19 2312
AZ95336	ERH853	0729T33	07/29/19 2340
AZ95337	ERH854	0729T34	07/30/19 0008
AZ95338	ERH855	0729T35	07/30/19 0037

Comments: Batch: #GRO86-190729BT

Printed: 07/30/19 10:45:42 AM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8260B GRO WATER

APPL ID: 190729W-95330 LCS - 242799
 Batch ID: #GRO86-190729BT

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
GASOLINE RANGE ORGANICS	300	262	251	87.3	83.7	78-122	4.3	20
SURROGATE: 4-BROMOFLUOROBENZE	25.0	22.8	22.6	91.2	90.4	85-114		

Comments: _____

	<u>SPK</u>	<u>DUP</u>
Quant Method :	TGAS729.M	TGAS729.M
Extraction Date :	07/29/19	07/29/19
Analysis Date :	07/29/19	07/29/19
Instrument :	Thor	Thor
Run :	0729T18	0729T19
Initials :	DPO	

RSK 175

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/29/19

Matrix: WATER

Instrument: Rocky

Blank ID: 190729A-BLK

Time Analyzed: 1352

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190729A-LCS	Lab Control Spike	19072900	07/29/19 1338
190729A-LCSD	Lab Control Spiked	19072901	07/29/19 1343
190729A-BLK	Blank	19072902	07/29/19 1352
AZ95328	ERH845	19072903	07/29/19 1354
AZ95329	ERH846	19072904	07/29/19 1356
AZ95329	ERH846	19072905	07/29/19 1359
AZ95330	ERH847	19072906	07/29/19 1401
AZ95330	ERH847	19072907	07/29/19 1404
AZ95331	ERH848	19072908	07/29/19 1406
AZ95332	ERH849	19072909	07/29/19 1409
AZ95333	ERH850	19072910	07/29/19 1411
AZ95334	ERH851	19072911	07/29/19 1413
AZ95335	ERH852	19072912	07/29/19 1415
AZ95336	ERH853	19072913	07/29/19 1417
AZ95337	ERH854	19072914	07/29/19 1419
AZ95338	ERH855	19072915	07/29/19 1421

Comments: Batch: #RSKME-190729A

Printed: 07/29/19 2:32:28 PM
Form 4, Blank Summary

Method Blank
METHANE

Blank Name/QCG: 190729W-95328 - 242762

Batch ID: #RSKME-190729A

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	METHANE	1.00 U	5.0	1.00	0.25	ug/L	07/29/19	07/29/19

Quant Method:RSK0618.M
Run #:19072902
Instrument:Rocky
Sequence:190618
Initials:CMO

GC SC-Blank-REG MDLs-DOD
Printed: 07/29/19 2:32:39 PM

RSK 175

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/29/19

Matrix: WATER

Instrument: Rocky

LCS ID: 190729A-LCS

Time Analyzed: 1338

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190729A-LCS	Lab Control Spike	19072900	07/29/19 1338
190729A-LCSD	Lab Control Spiked	19072901	07/29/19 1343
190729A-BLK	Blank	19072902	07/29/19 1352
AZ95328	ERH845	19072903	07/29/19 1354
AZ95329	ERH846	19072904	07/29/19 1356
AZ95329	ERH846	19072905	07/29/19 1359
AZ95330	ERH847	19072906	07/29/19 1401
AZ95330	ERH847	19072907	07/29/19 1404
AZ95331	ERH848	19072908	07/29/19 1406
AZ95332	ERH849	19072909	07/29/19 1409
AZ95333	ERH850	19072910	07/29/19 1411
AZ95334	ERH851	19072911	07/29/19 1413
AZ95335	ERH852	19072912	07/29/19 1415
AZ95336	ERH853	19072913	07/29/19 1417
AZ95337	ERH854	19072914	07/29/19 1419
AZ95338	ERH855	19072915	07/29/19 1421

Comments: Batch: #RSKME-190729A

Printed: 07/29/19 2:32:26 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

METHANE

APPL ID: 190729W-95328 LCS - 242762
 Batch ID: #RSKME-190729A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
METHANE	83.4	78.3	68.9	93.9	82.6	72-125	12.8	30

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	RSK0618.M	RSK0618.M
Extraction Date :	07/29/19	07/29/19
Analysis Date :	07/29/19	07/29/19
Instrument :	Rocky	Rocky
Run :	19072900	19072901
Initials :	CMO	

EPA 300.0

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/24/19

Matrix: WATER

Instrument: Charlie

Blank ID: 190724A2-BLK

Time Analyzed: 0909

APPL ID.	Client Sample No.	File ID.	Date Analyzed
AZ95336	ERH853	10	07/24/19 1559
AZ95338	ERH855	11	07/24/19 1606
AZ95332	ERH849	12	07/24/19 1614
AZ95334	ERH851	17	07/24/19 1703
AZ95336	ERH853	18	07/24/19 1710
AZ95338	ERH855	19	07/24/19 1717
190724A2-BLK	Blank	2	07/24/19 0909
190724A2-LCS	Lab Control Spike	3	07/24/19 0916
190724A2-LCSD	Lab Control SpikeD	4	07/24/19 0924
AZ95334	ERH851	8	07/24/19 1543
AZ95329	ERH846	9	07/24/19 1551

Comments: Batch: #300W-190724A2

Printed: 08/07/19 4:27:47 PM
Form 4, Blank Summary

WETLAB BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
EPA 300.0	CHLORIDE	0.20 U	1.0	0.20	0.08	mg/L	07/24/19	07/24/19	#300W-190724A2-AZ95329
EPA 300.0	NITRATE	0.18 U	0.5	0.18	0.04	mg/L	07/24/19	07/24/19	#300W-190724A2-AZ95329
EPA 300.0	SULFATE	0.20 U	1.0	0.20	0.09	mg/L	07/24/19	07/24/19	#300W-190724A2-AZ95329

Wetlab SC-Blank-REG MDLs
Printed: 08/07/19 4:27:27 PM

EPA 300.0

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/24/19

Matrix: WATER

Instrument: Charlie

LCS ID: 190724A2-LCS

Time Analyzed: 0916

APPL ID.	Client Sample No.	File ID.	Date Analyzed
AZ95336	ERH853	10	07/24/19 1559
AZ95338	ERH855	11	07/24/19 1606
AZ95332	ERH849	12	07/24/19 1614
AZ95334	ERH851	17	07/24/19 1703
AZ95336	ERH853	18	07/24/19 1710
AZ95338	ERH855	19	07/24/19 1717
190724A2-BLK	Blank	2	07/24/19 0909
190724A2-LCS	Lab Control Spike	3	07/24/19 0916
190724A2-LCSD	Lab Control SpikeD	4	07/24/19 0924
AZ95334	ERH851	8	07/24/19 1543
AZ95329	ERH846	9	07/24/19 1551

Comments: Batch: #300W-190724A2

Printed: 08/07/19 4:27:47 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries
WETLAB

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
EPA 300.0	CHLORIDE	25.0	25.0	25.0	100	100	0.0	20	90-110	07/24/19	07/24/19	07/24/19	07/24/19	#300W-190724A2-AZ9532
EPA 300.0	NITRATE	22.1	22.1	22.1	100	100	0.0	20	90-110	07/24/19	07/24/19	07/24/19	07/24/19	#300W-190724A2-AZ9532
EPA 300.0	SULFATE	25.0	24.6	24.7	98.4	98.8	0.41	20	90-110	07/24/19	07/24/19	07/24/19	07/24/19	#300W-190724A2-AZ9532

Comments: _____

EPA 353.2

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/31/19

Matrix: WATER

Instrument: EVE

Blank ID: 190731A-BLK

Time Analyzed: 1829

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190731A-BLK	Blank	19	07/31/19 1829
190731A-LCS	Lab Control Spike	20	07/31/19 1831
190731A-LCSD	Lab Control SpikeD	21	07/31/19 1834
AZ95329	ERH846	26	07/31/19 1845
AZ95332	ERH849	29	07/31/19 1852
AZ95334	ERH851	30	07/31/19 1854
AZ95336	ERH853	31	07/31/19 1855
AZ95338	ERH855	32	07/31/19 1856

Comments: Batch: #35OF-190731A

Printed: 08/07/19 4:33:33 PM
Form 4, Blank Summary

SM 2320B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/29/19

Matrix: WATER

Instrument: Tiamo

Blank ID: 190729A-BLK

Time Analyzed: 2228

APPL ID.	Client Sample No.	File ID.	Date Analyzed
AZ95332	ERH849	15	07/29/19 2358
190729A-BLK	Blank	3	07/29/19 2228
190729A-LCS	Lab Control Spike	4	07/29/19 2231
190729A-LCSD	Lab Control Spiked	5	07/29/19 2237

Comments: Batch: #232W-190729A

Printed: 08/07/19 4:33:33 PM
Form 4, Blank Summary

SM 2320B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/31/19

Matrix: WATER

Instrument: Tiamo

Blank ID: 190731B-BLK

Time Analyzed: 1928

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190731B-BLK	Blank	1	07/31/19 1928
190731B-LCS	Lab Control Spike	2	07/31/19 1931
190731B-LCSD	Lab Control SpikeD	3	07/31/19 1937
AZ95329	ERH846	4	07/31/19 1944
AZ95334	ERH851	5	07/31/19 1958
AZ95336	ERH853	6	07/31/19 2009
AZ95338	ERH855	7	07/31/19 2017

Comments: Batch: #232W-190731B

Printed: 08/07/19 4:33:33 PM
Form 4, Blank Summary

SM3500FeB

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/24/19

Matrix: WATER

Instrument: Manual Spec

Blank ID: 190724B-BLK

Time Analyzed: 1627

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190724B-BLK	Blank	29	07/24/19 1627
190724B-LCS	Lab Control Spike	30	07/24/19 1628
190724B-LCSD	Lab Control SpikeD	31	07/24/19 1629
AZ95329	ERH846	32	07/24/19 1630
AZ95332	ERH849	33	07/24/19 1631
AZ95334	ERH851	34	07/24/19 1632
AZ95336	ERH853	35	07/24/19 1633
AZ95338	ERH855	36	07/24/19 1633
190724B-MS	Matrix Spike	37	07/24/19 1634
190724B-MSD	Matrix SpikeD	38	07/24/19 1635

Comments: Batch: #35FE-190724B

Printed: 08/07/19 4:33:33 PM
Form 4, Blank Summary

SW846 9060A

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 08/02/19

Matrix: WATER

Instrument: TICTOC

Blank ID: 190731B-BLK

Time Analyzed: 0123

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190731B-LCSD	Lab Control Spiked	10	08/02/19 0232
AZ95329	ERH846	33	08/02/19 1504
AZ95332	ERH849	36	08/02/19 1647
AZ95334	ERH851	37	08/02/19 1719
AZ95336	ERH853	38	08/02/19 1750
190731B-BLK	Blank	8	08/02/19 0123
190731B-LCS	Lab Control Spike	9	08/02/19 0157

Comments: Batch: #TOCW5-190731B

Printed: 08/07/19 4:33:33 PM
Form 4, Blank Summary

SW846 9060A

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 08/02/19

Matrix: WATER

Instrument: TICTOC

Blank ID: 190731C-BLK

Time Analyzed: 2218

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190731C-BLK	Blank	48	08/02/19 2218
190731C-LCS	Lab Control Spike	49	08/02/19 2253
190731C-LCSD	Lab Control SpikeD	50	08/02/19 2329
AZ95338	ERH855	51	08/03/19 0004

Comments: Batch: #TOCW5-190731C

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Form 4, Blank Summary

WETLAB BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
SM 2320B	BICARBONATE AS	1.2 J	2.0	1.70	0.85	mg/L	07/31/19	07/31/19	#232W-190731B-AZ95329
SM 2320B	CARBONATE AS C	1.70 U	2.0	1.70	0.85	mg/L	07/31/19	07/31/19	#232W-190731B-AZ95329
SM 2320B	TOTAL ALKALINITY	1.2 J	2.0	1.70	0.85	mg/L	07/31/19	07/31/19	#232W-190731B-AZ95329
SM3500Fe	FERROUS IRON	0.32 U	1.0	0.32	0.16	mg/L	07/24/19	07/24/19	#35FE-190724B-AZ95329
EPA 353.2	NITRATE-NITRITE-	0.090 U	0.10	0.090	0.028	mg/L	07/31/19	07/31/19	#35OF-190731A-AZ95189
SW846 90	TOTAL ORGANIC C	0.350 U	0.93	0.350	0.130	mg/L	08/02/19	08/02/19	#TOCW5-190731B-AZ95187
SM 2320B	TOTAL ALKALINITY	3.5	2.0	1.70	0.85	mg/L	07/29/19	07/29/19	#232W-190729A-AZ94826
SW846 90	TOTAL ORGANIC C	0.350 U	0.93	0.350	0.130	mg/L	08/01/19	08/02/19	#TOCW5-190731C-AZ95338

Wetlab SC-Blank-REG MDLs
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EPA 353.2

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/31/19

Matrix: WATER

Instrument: EVE

LCS ID: 190731A-LCS

Time Analyzed: 1831

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190731A-BLK	Blank	19	07/31/19 1829
190731A-LCS	Lab Control Spike	20	07/31/19 1831
190731A-LCSD	Lab Control SpikeD	21	07/31/19 1834
AZ95329	ERH846	26	07/31/19 1845
AZ95332	ERH849	29	07/31/19 1852
AZ95334	ERH851	30	07/31/19 1854
AZ95336	ERH853	31	07/31/19 1855
AZ95338	ERH855	32	07/31/19 1856

Comments: Batch: #35OF-190731A

Printed: 08/07/19 4:33:33 PM
Form 4, LCS Summary

SM 2320B

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/29/19

Matrix: WATER

Instrument: Tiamo

LCS ID: 190729A-LCS

Time Analyzed: 2231

APPL ID.	Client Sample No.	File ID.	Date Analyzed
AZ95332	ERH849	15	07/29/19 2358
190729A-BLK	Blank	3	07/29/19 2228
190729A-LCS	Lab Control Spike	4	07/29/19 2231
190729A-LCSD	Lab Control Spiked	5	07/29/19 2237

Comments: Batch: #232W-190729A

Printed: 08/07/19 4:33:33 PM
Form 4, LCS Summary

SM 2320B

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/31/19

Matrix: WATER

Instrument: Tiamo

LCS ID: 190731B-LCS

Time Analyzed: 1931

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190731B-BLK	Blank	1	07/31/19 1928
190731B-LCS	Lab Control Spike	2	07/31/19 1931
190731B-LCSD	Lab Control Spiked	3	07/31/19 1937
AZ95329	ERH846	4	07/31/19 1944
AZ95334	ERH851	5	07/31/19 1958
AZ95336	ERH853	6	07/31/19 2009
AZ95338	ERH855	7	07/31/19 2017

Comments: Batch: #232W-190731B

Printed: 08/07/19 4:33:33 PM
Form 4, LCS Summary

SM3500FeB

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 07/24/19

Matrix: WATER

Instrument: Manual Spec

LCS ID: 190724B-LCS

Time Analyzed: 1628

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190724B-BLK	Blank	29	07/24/19 1627
190724B-LCS	Lab Control Spike	30	07/24/19 1628
190724B-LCSD	Lab Control SpikeD	31	07/24/19 1629
AZ95329	ERH846	32	07/24/19 1630
AZ95332	ERH849	33	07/24/19 1631
AZ95334	ERH851	34	07/24/19 1632
AZ95336	ERH853	35	07/24/19 1633
AZ95338	ERH855	36	07/24/19 1633
190724B-MS	Matrix Spike	37	07/24/19 1634
190724B-MSD	Matrix SpikeD	38	07/24/19 1635

Comments: Batch: #35FE-190724B

Printed: 08/07/19 4:33:33 PM
Form 4, LCS Summary

SW846 9060A

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89593

Case No: 89593

Date Analyzed: 08/02/19

Matrix: WATER

Instrument: TICTOC

LCS ID: 190731B-LCS

Time Analyzed: 0157

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190731B-LCSD	Lab Control Spiked	10	08/02/19 0232
AZ95329	ERH846	33	08/02/19 1504
AZ95332	ERH849	36	08/02/19 1647
AZ95334	ERH851	37	08/02/19 1719
AZ95336	ERH853	38	08/02/19 1750
190731B-BLK	Blank	8	08/02/19 0123
190731B-LCS	Lab Control Spike	9	08/02/19 0157

Comments: Batch: #TOCW5-190731B

Printed: 08/07/19 4:33:33 PM
Form 4, LCS Summary

SW846 9060A

Form 4

LCS Summary

Lab Name: APPL, Inc.
Case No: 89593
Matrix: WATER
LCS ID: 190731C-LCS

SDG No: 89593
Date Analyzed: 08/02/19
Instrument: TICTOC
Time Analyzed: 2253

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190731C-BLK	Blank	48	08/02/19 2218
190731C-LCS	Lab Control Spike	49	08/02/19 2253
190731C-LCSD	Lab Control SpikeD	50	08/02/19 2329
AZ95338	ERH855	51	08/03/19 0004

Comments: Batch: #TOCW5-190731C

Printed: 08/07/19 4:33:33 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

WETLAB

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
EPA 353.2	NITRATE-NITRITE-N	3.00	2.76	2.91	92.0	97.0	5.3	20	90-110	07/31/19	07/31/19	07/31/19	07/31/19	#35OF-190731A-AZ95189
SM 2320B	BICARBONATE AS CaCO3	250	247	252	98.8	101	2.0	20	90-110	07/31/19	07/31/19	07/31/19	07/31/19	#232W-190731B-AZ95329
SM 2320B	TOTAL ALKALINITY AS CA	250	247	252	98.8	101	2.0	20	90-110	07/31/19	07/31/19	07/31/19	07/31/19	#232W-190731B-AZ95329
SM3500Fe	FERROUS IRON	3.00	3.11	3.03	104	101	2.6	20	80-120	07/24/19	07/24/19	07/24/19	07/24/19	#35FE-190724B-AZ95329
SW846 90	TOTAL ORGANIC CARBO	2.50	2.89	2.84	116 #	114 #	1.7	20	90-110	08/02/19	08/02/19	08/02/19	08/02/19	#TOCW5-190731B-AZ951

= Recovery is outside QC limits.

Comments:

Laboratory Control Spike Recoveries

WETLAB

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
SM 2320B	TOTAL ALKALINITY AS CA	250	251	250	100	100	0.40	20	90-110	07/29/19	07/29/19	07/29/19	07/29/19	#232W-190729A-AZ94826

Comments:

Laboratory Control Spike Recoveries

WETLAB

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
SW846 90	TOTAL ORGANIC CARBO	2.50	2.68	2.67	107	107	0.37	20	90-110	08/01/19	08/02/19	08/01/19	08/02/19	#TOCW5-190731C-AZ953

Comments:

Matrix Spike Recoveries

WETLAB

APPL ID: 190724W-95329 MS - 242656

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample ID: AZ95329
Client ID: ERH846

Method	Compound Name	Spike Lvl mg/L	Matrix Res mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recovery	DUP % Recovery	RPD	RPD Recovery Max	RPD Recovery Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group	QC Sample
SM3500Fe	FERROUS IRON	3.00	2.5	5.43	5.51	97.7	100	1.5	20	80-120	07/24/19	07/24/19	07/24/19	07/24/19	242656	AZ95329

Comments:

**ORGANICS
Calibration Data**

TPH Extractables
DOC0617

Form 6
Initial Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Initial Cal. Date: 06/17/19

Matrix: Water

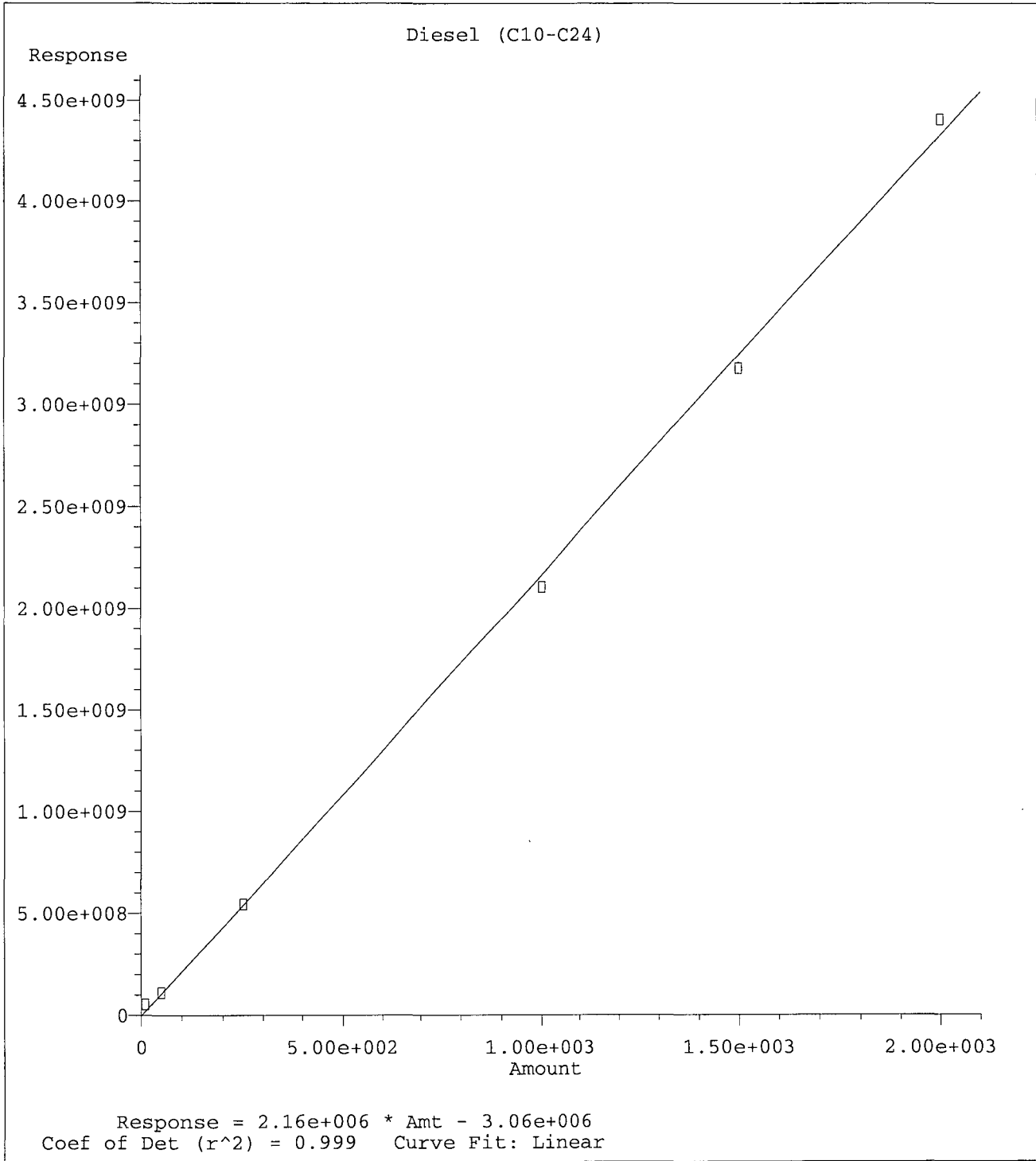
Instrument: Apollo

Initials: BJ

617003.D 617004.D 617005.D 617006.D 617007.D 617008.D

	Compound	1	2	3	4	5	6						Avg	%RSD	Type	r ²	Q
1	HATML Diesel (C10-C24)	2690303	1116857	1087632	1051285	1058686	1101324						1351015	49	HATM	0.999	
2	HBTM Motor Oil (C24-C40)	1266274	913149	865251	811199	794482	848774						916522	19	HBTM		
3	SA Ortho-Terphenyl(S)	2130750	1828574	1896892	1721330	1622234	1705036						1817469	10.0	SA		
4	SCI Decanoic Acid(S)	150177	314603	492470	537134	542807	560663						432987	38	SG	0.999	UAC
5	SA Octacosane(S)	2220335	1730219	1828557	1673992	1654539	1933989						1840272	12	SA		314
6																	
7																	
8																	
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Method Name: G:\APOLLO\DATA\190617\DOC0617.M
Calibration Table Last Updated: Wed Jul 17 09:56:49 2019

Data File : G:\APOLLO\DATA\190617\617003.D Vial: 3
 Acq On : 6-17-19 16:40:59 Operator: DP
 Sample : Diesel/Motor Oil - 1 6/17/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:02 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

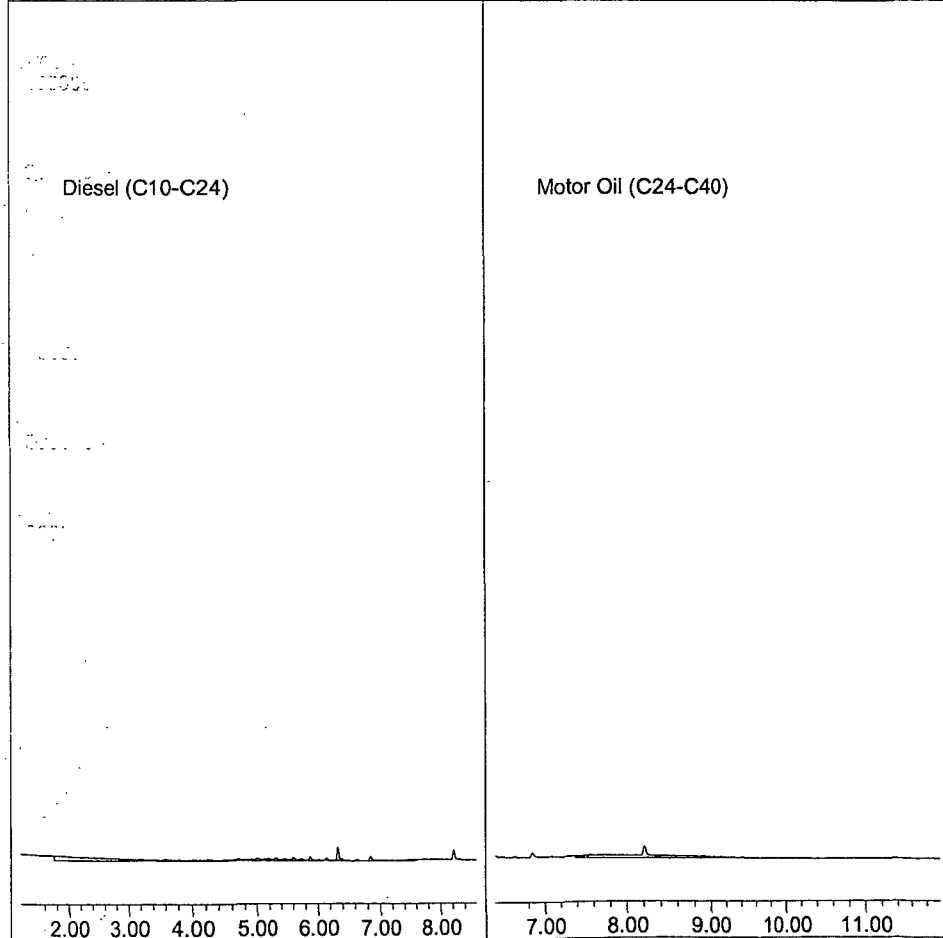
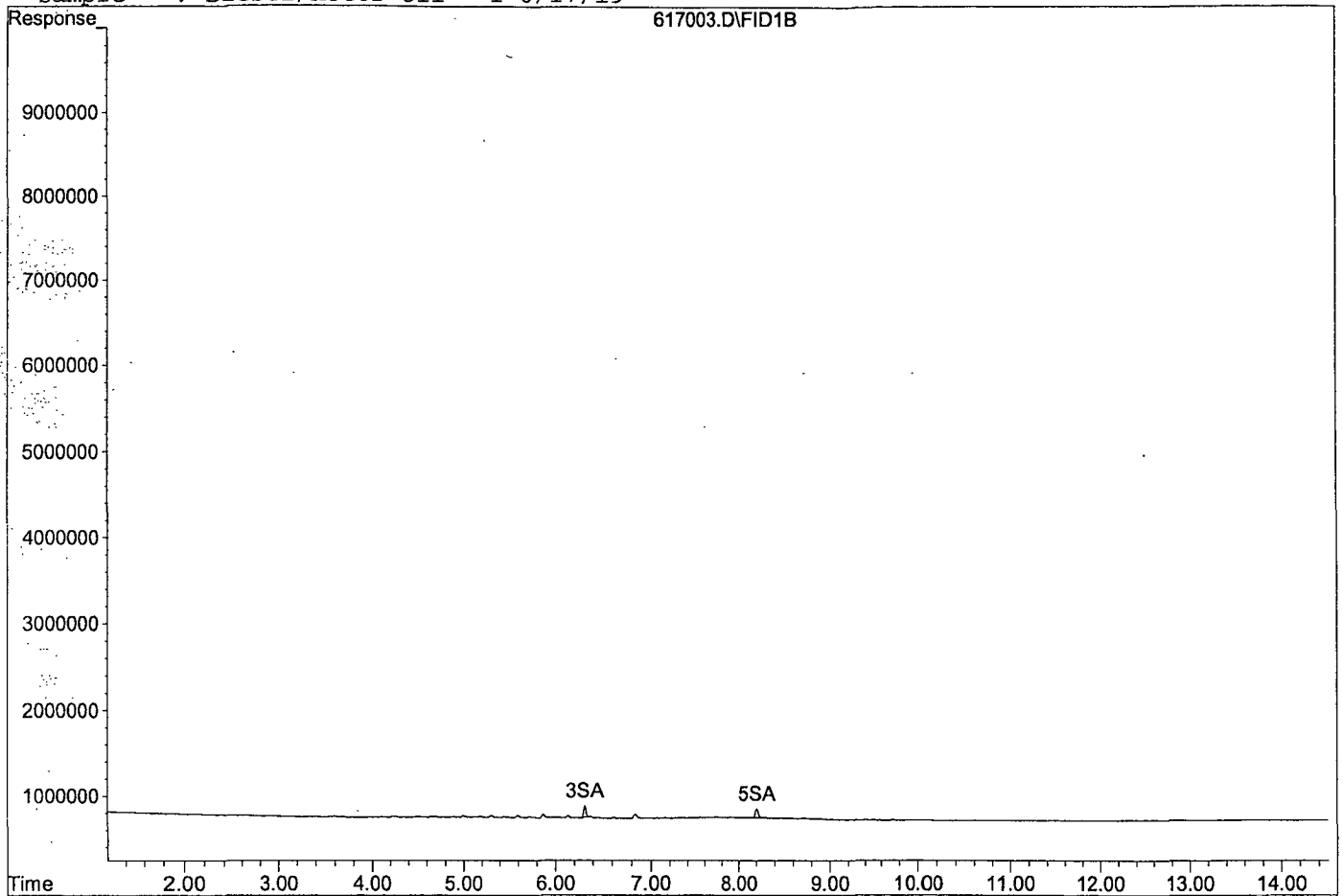
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.32	2130750	0.586 ppb
Surrogate Spike 37.500		Recovery =	1.56%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.21	2220335	0.603 ppb
Surrogate Spike 37.500		Recovery =	1.61%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	53806066	26.270 ppb
2) HBTM Motor Oil (C24-C40)	9.16	25325476	13.816 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190617\617003.D
Sample : Diesel/Motor Oil - 1 6/17/19



Data File : G:\APOLLO\DATA\190617\617004.D Vial: 4
 Acq On : 6-17-19 17:00:17 Operator: DP
 Sample : Diesel/Motor Oil - 2 6/17/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:02 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

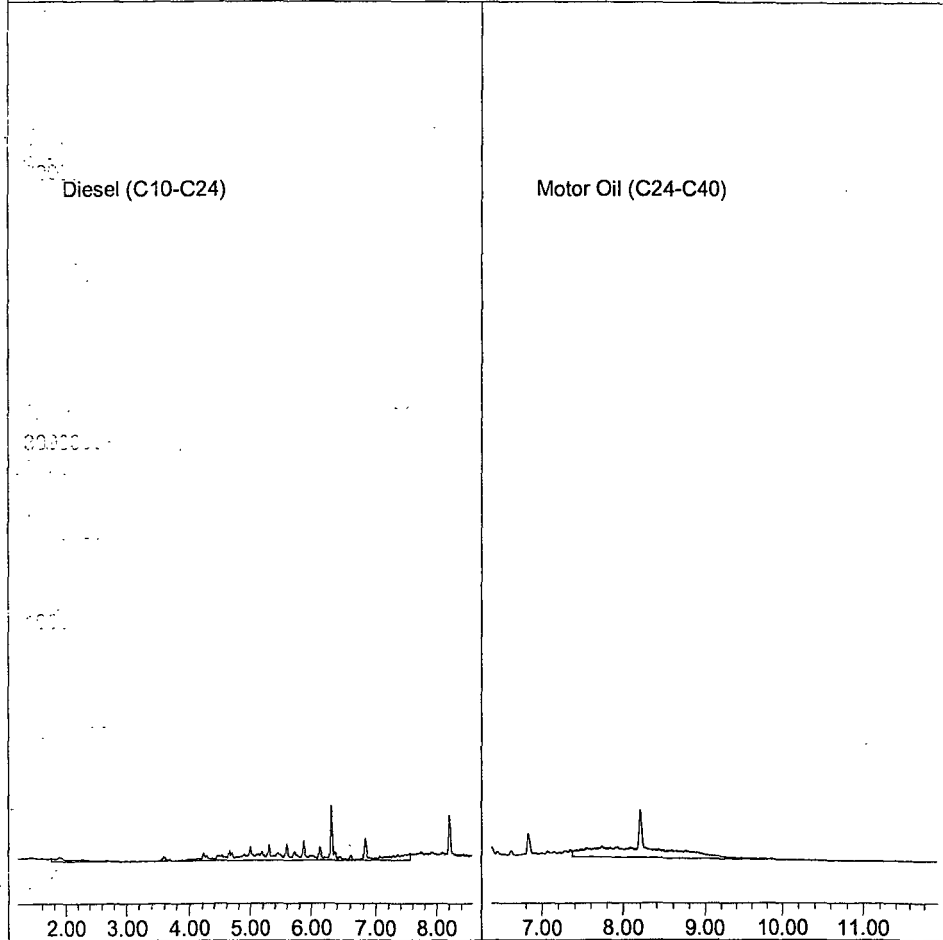
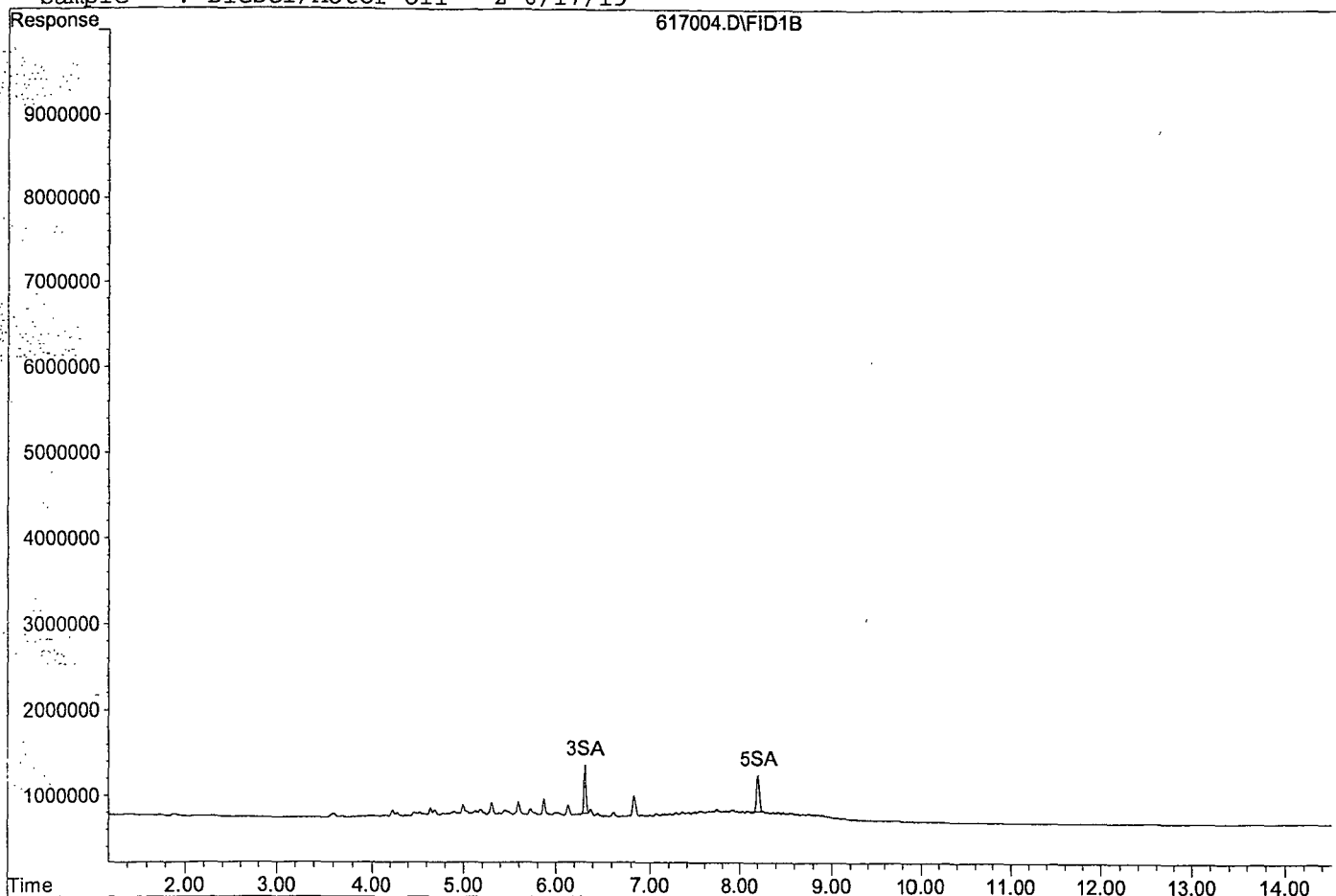
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.32	9142868	2.515 ppb
Surrogate Spike 37.500		Recovery =	6.71%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.21	8651097	2.350 ppb
Surrogate Spike 37.500		Recovery =	6.27%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	111685733	53.009 ppb
2) HBTM Motor Oil (C24-C40)	9.16	91314932	49.816 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190617\617004.D
Sample : Diesel/Motor Oil - 2 6/17/19



Data File : G:\APOLLO\DATA\190617\617005.D Vial: 5
 Acq On : 6-17-19 17:20:24 Operator: DP
 Sample : Diesel/Motor Oil - 3 6/17/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:02 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

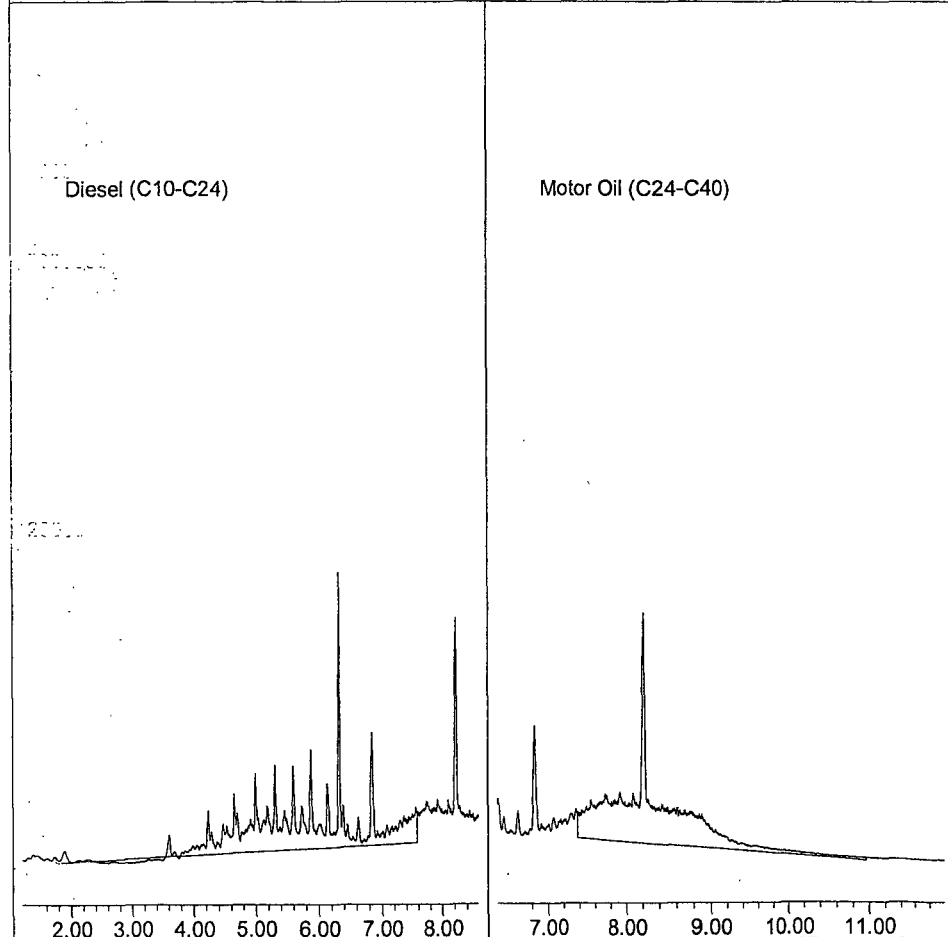
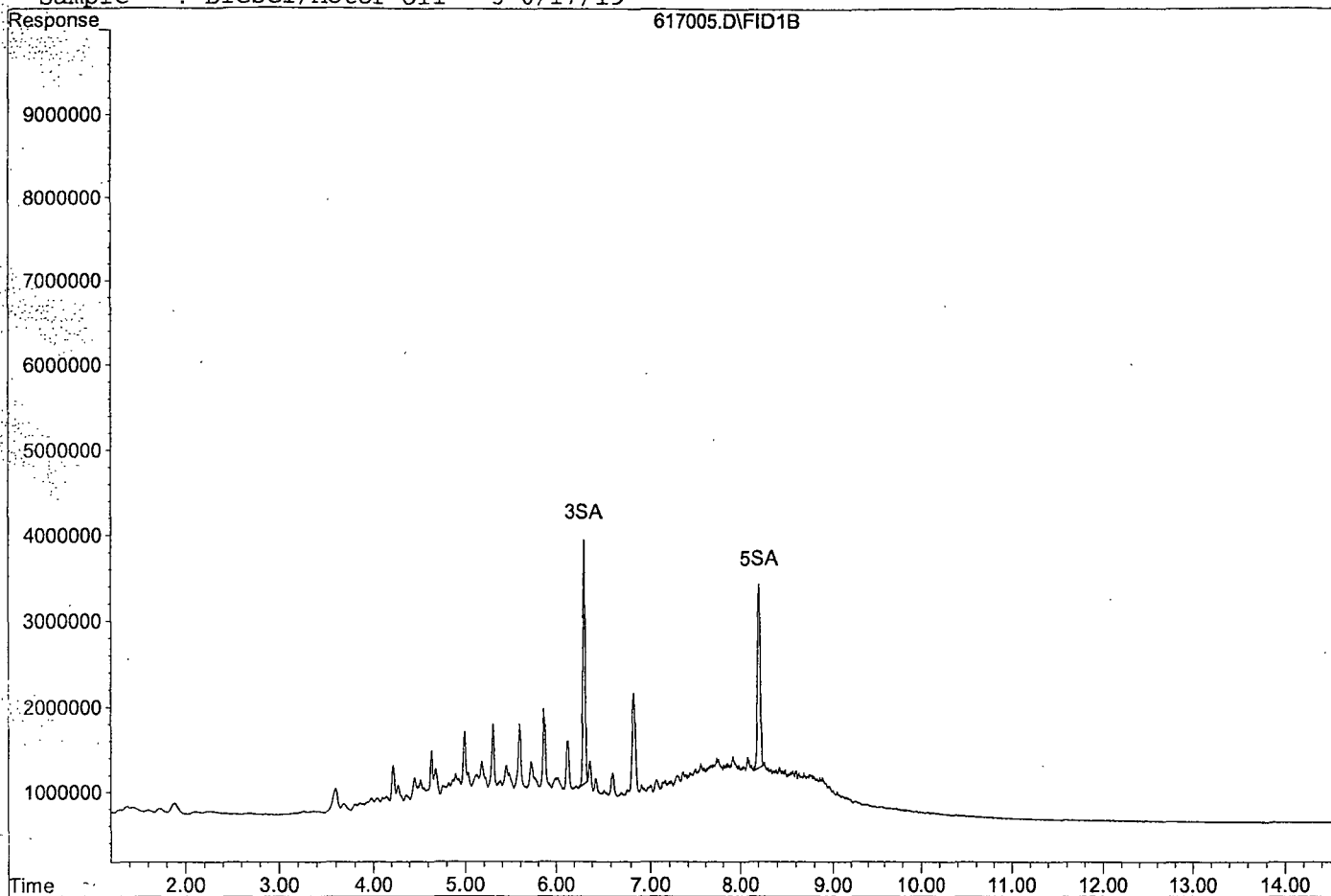
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.32	47422311	13.046 ppb
Surrogate Spike 37.500		Recovery =	34.79%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.21	45713919	12.420 ppb
Surrogate Spike 37.500		Recovery =	33.12%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	543816041	252.647 ppb
2) HBTM Motor Oil (C24-C40)	9.16	432625605	236.015 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190617\617005.D
Sample : Diesel/Motor Oil - 3 6/17/19



Data File : G:\APOLLO\DATA\190617\617006.D Vial: 6
 Acq On : 6-17-19 17:40:33 Operator: DP
 Sample : Diesel/Motor Oil - 4 6/17/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:03 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

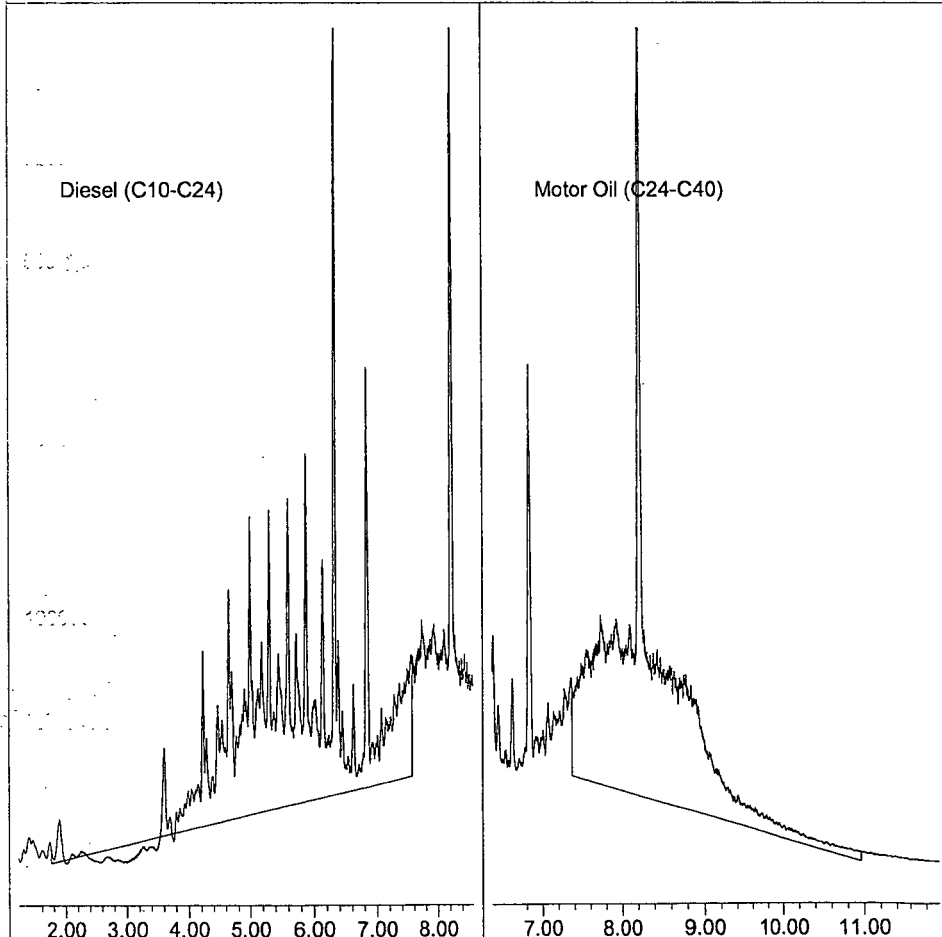
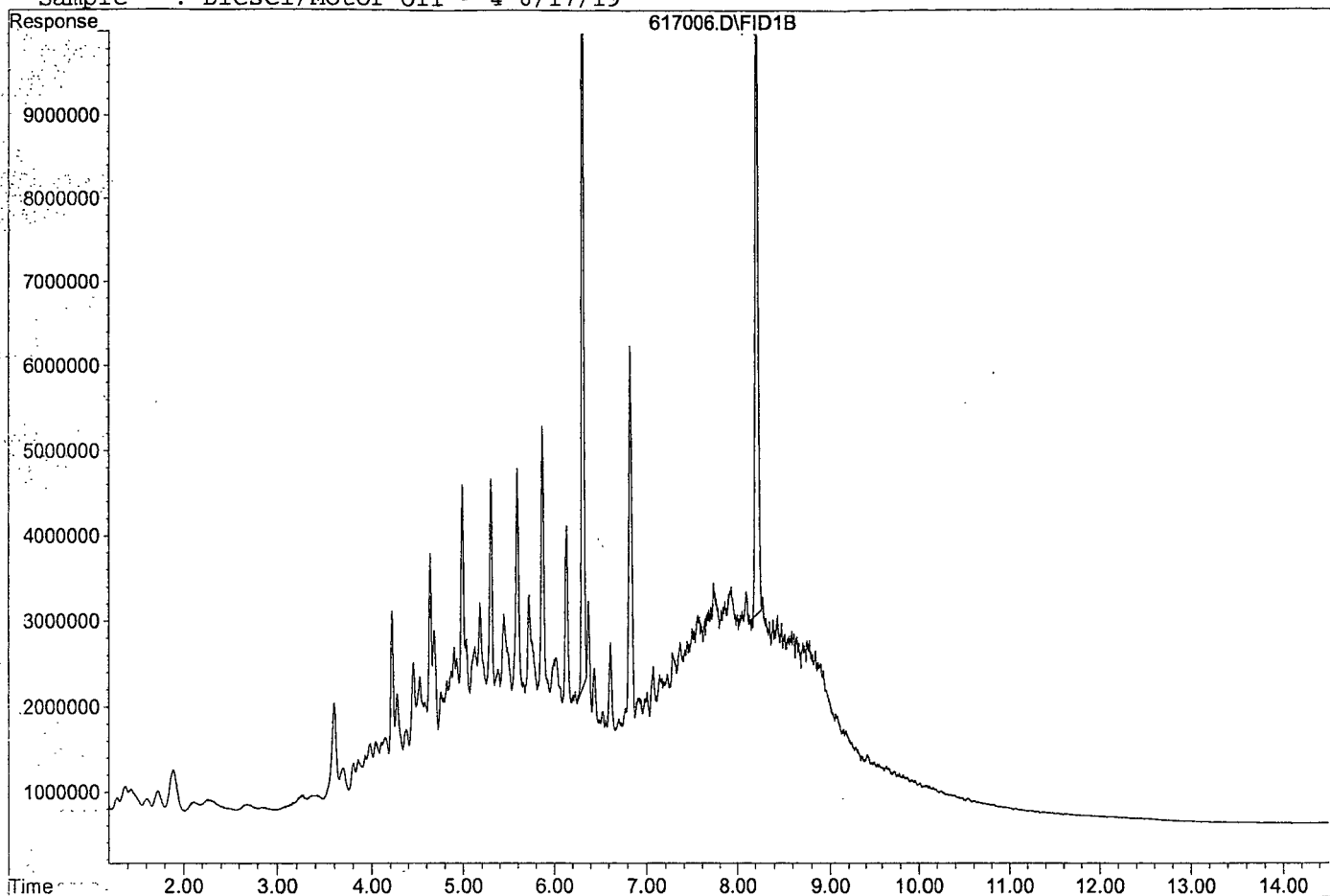
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.33	172133037	47.355 ppb
Surrogate Spike 37.500		Recovery =	126.28%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.22	167399224	45.482 ppb
Surrogate Spike 37.500		Recovery =	121.29%
Target Compounds			
1) HATM-Diesel (C10-C24)	4.66	2102569494	972.770 ppb
2) HBTM-Motor Oil (C24-C40)	9.16	1622398534	885.085 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190617\617006.D
Sample : Diesel/Motor Oil - 4 6/17/19



Data File : G:\APOLLO\DATA\190617\617007.D Vial: 7
 Acq On : 6-17-19 18:00:01 Operator: DP
 Sample : Diesel/Motor Oil - 5 6/17/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:03 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

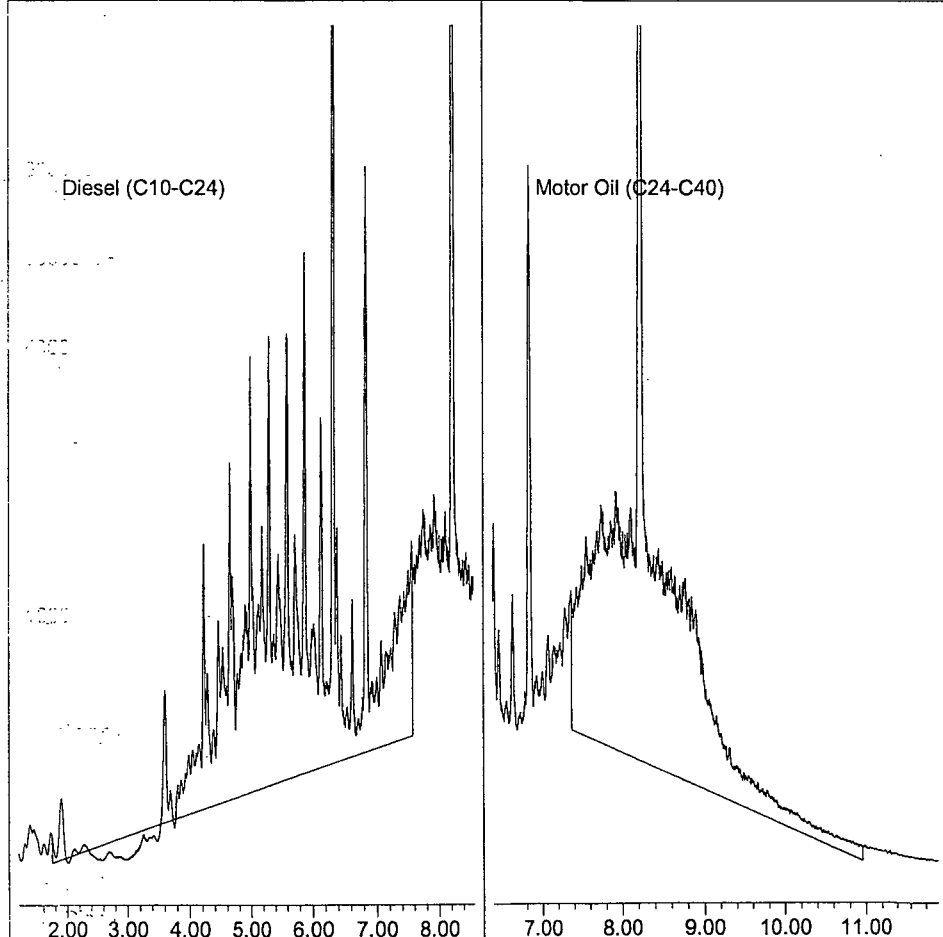
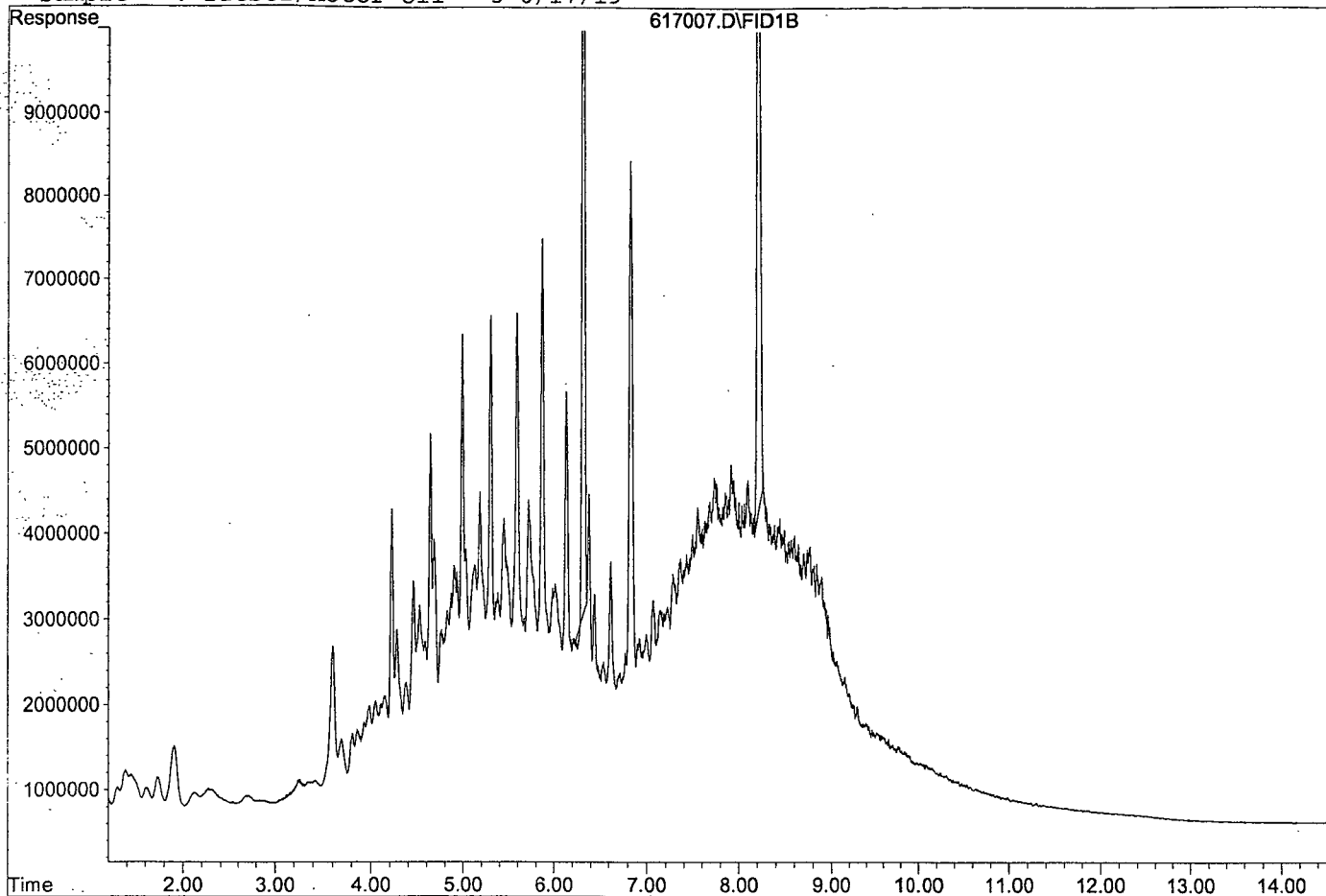
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.33	243335035	66.943 ppb
Surrogate Spike 37.500		Recovery =	178.51%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.23	248180866	67.430 ppb
Surrogate Spike 37.500		Recovery =	179.81%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	3176057733	1468.706 ppb
2) HBTM Motor Oil (C24-C40)	9.16	2383445329	1300.267 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190617\617007.D

Sample : Diesel/Motor Oil - 5 6/17/19



Data File : G:\APOLLO\DATA\190617\617008.D Vial: 8
 Acq On : 6-17-19 18:20:06 Operator: DP
 Sample : Diesel/Motor Oil - 6 6/17/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:02 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

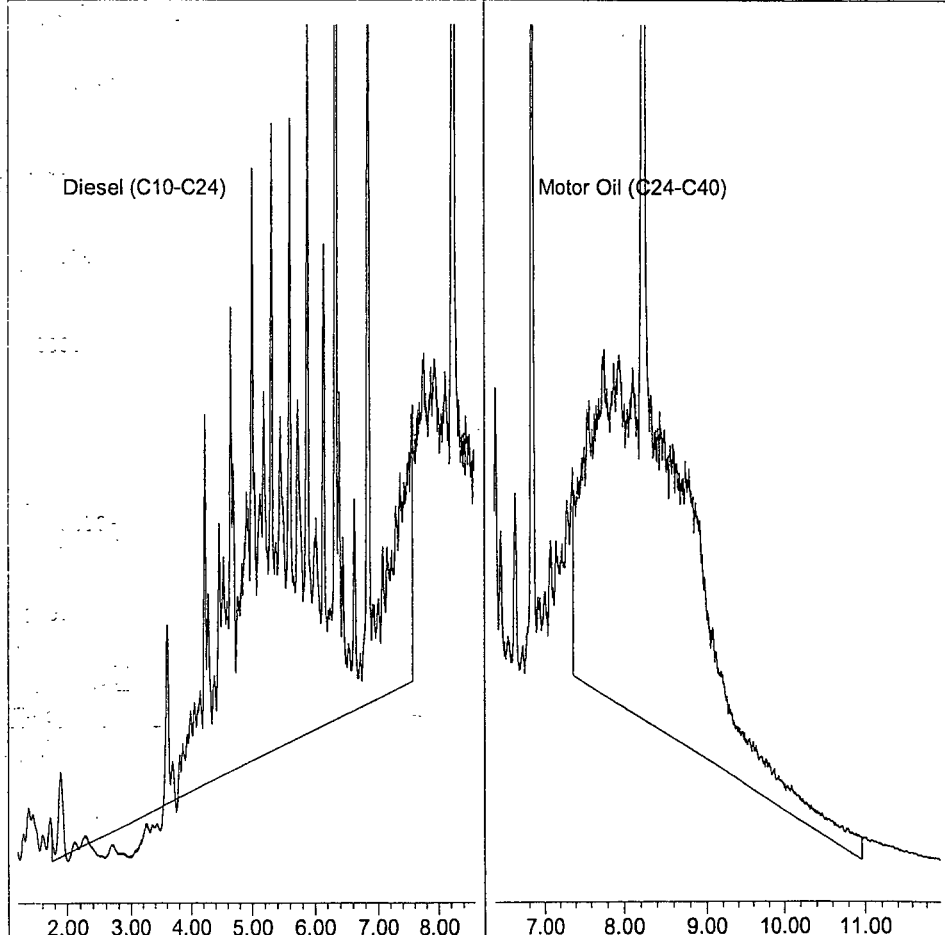
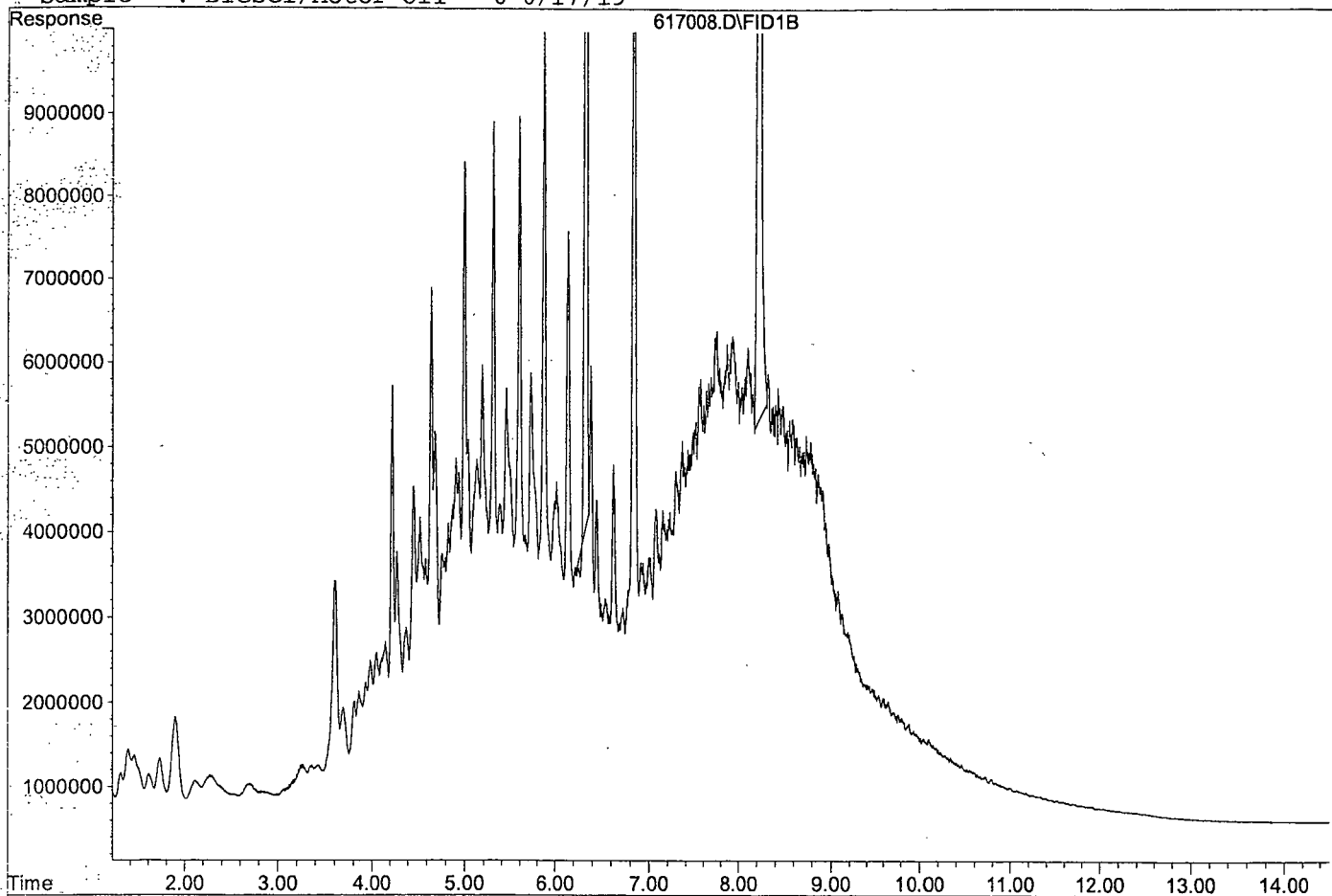
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.34	341007115	93.814 ppb
Surrogate Spike 37.500		Recovery =	250.17%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.23	386797753	105.093 ppb
Surrogate Spike 37.500		Recovery =	280.25%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	4405297136	2036.598 ppb
2) HBTM-Motor Oil (C24-C40)	9.16	3395096242	1852.164 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190617\617008.D

Sample : Diesel/Motor Oil - 6/6/17/19



TPH Extractables
DOC0617

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: Water

SDG No: _____
Date Analyzed: 06/17/19
Instrument: Apollo
Initial Cal. Date: 06/17/19
Data File: 617009.D

	Compound	MEAN	CCRF	%D		%Drift
1	HATM Diesel (C10-C24)	1351010	1018430	25	HATML	5.3
2	HBTM Motor Oil (C24-C40)	916522	873901	4.7	HBTM	
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
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25						
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30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40	Average			14.9		

Data File : G:\APOLLO\DATA\190617\617009.D Vial: 9
 Acq On : 6-17-19 18:39:28 Operator: DP
 Sample : Diesel/Motor Oil Second Source 1/15/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:21 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

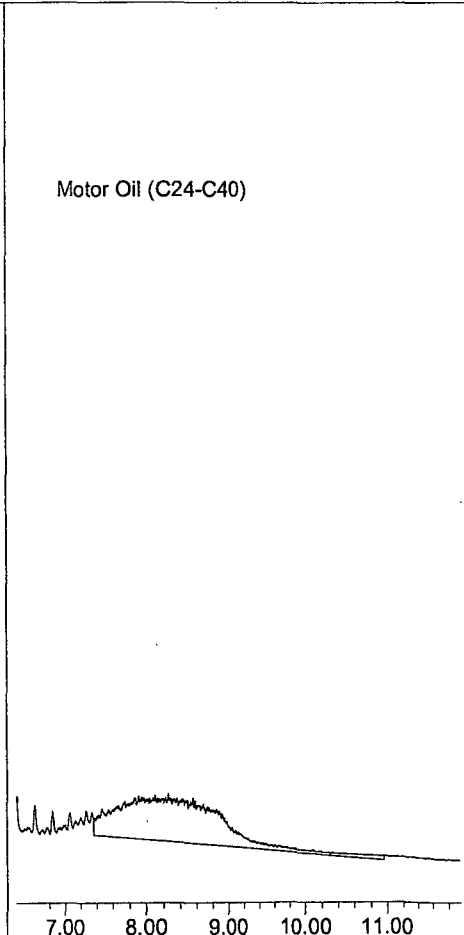
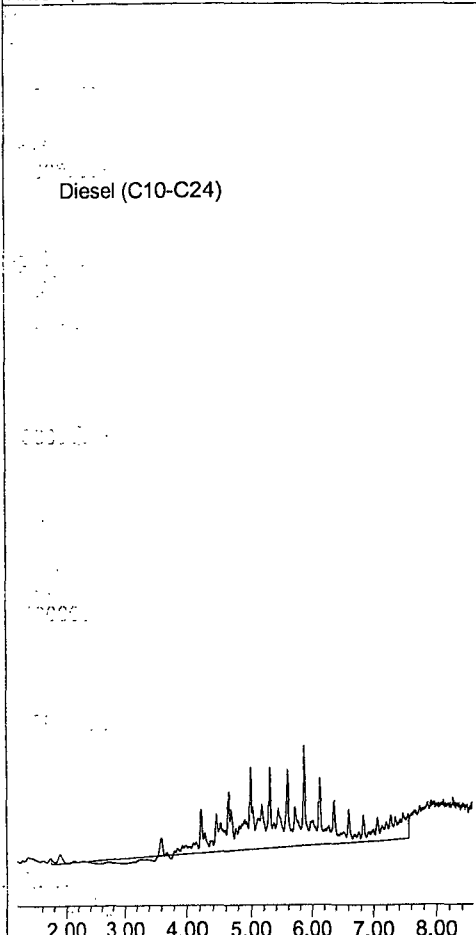
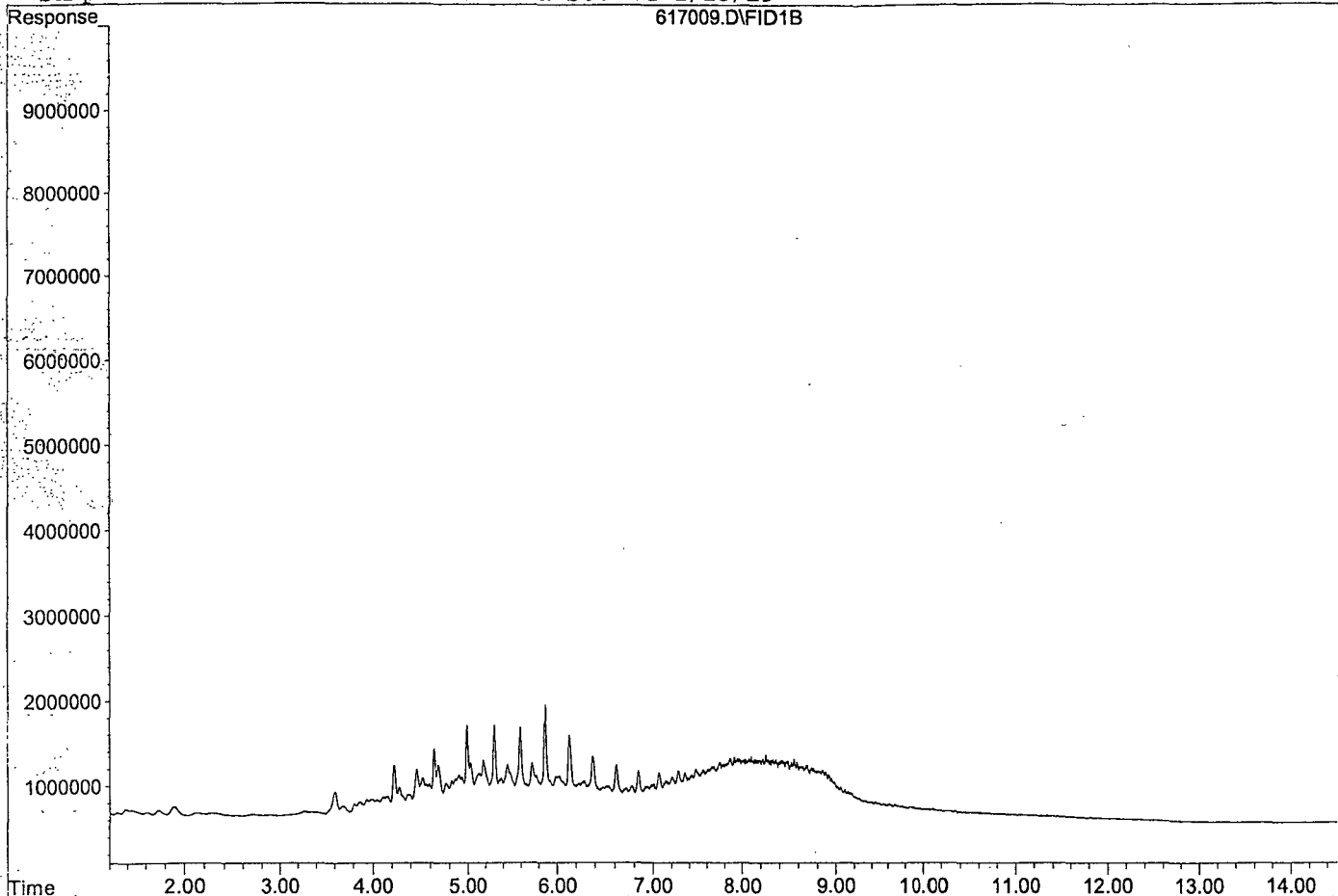
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
4) SC Decanoic Acid(S)	0.00	0	N.D.	ppb d
Surrogate Spike 24.000		Recovery =	0.00%	
5) SA Octacosane(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
Target Compounds				
1) HATM Diesel (C10-C24)	4.66	509215791	236.663	ppb
2) HBTM Motor Oil (C24-C40)	9.16	436950596	238.374	ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190617\617009.D

Sample : Diesel/Motor Oil Second Source 1/15/19



Data File : G:\APOLLO\DATA\190411\411009.D Vial: 9
 Acq On : 4-11-19 15:57:31 Operator: DP
 Sample : Decanoic Acid - 1 4/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:04 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

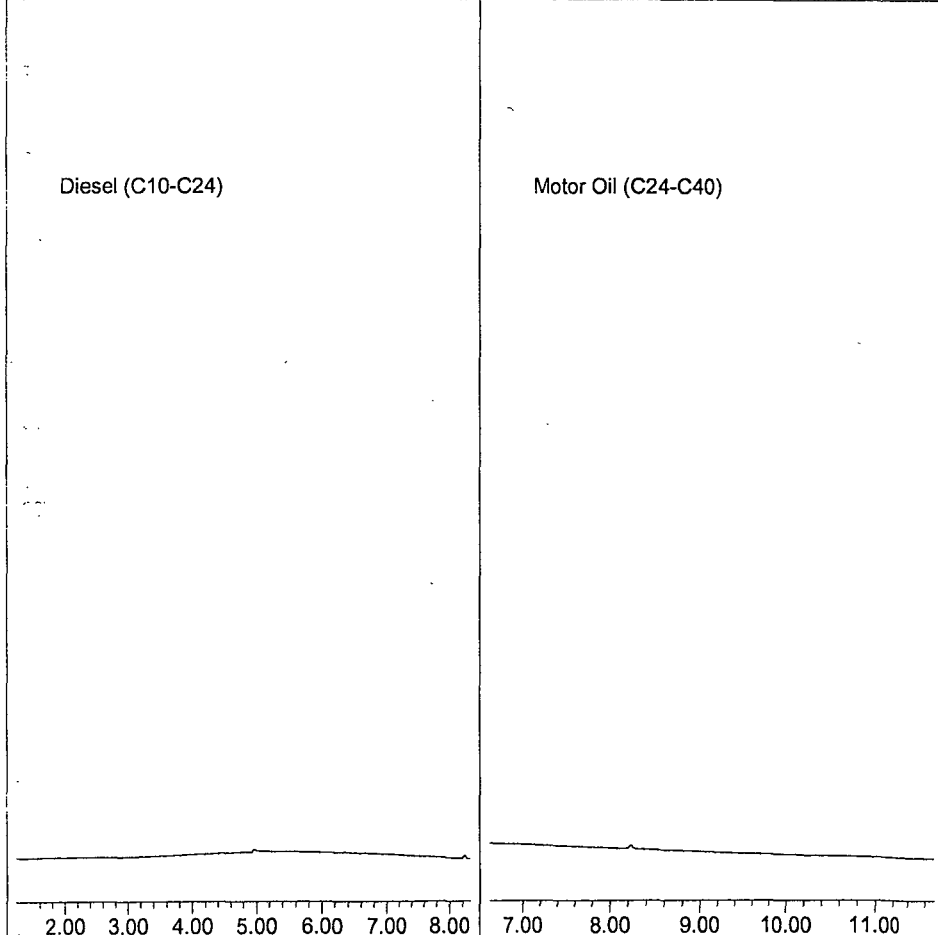
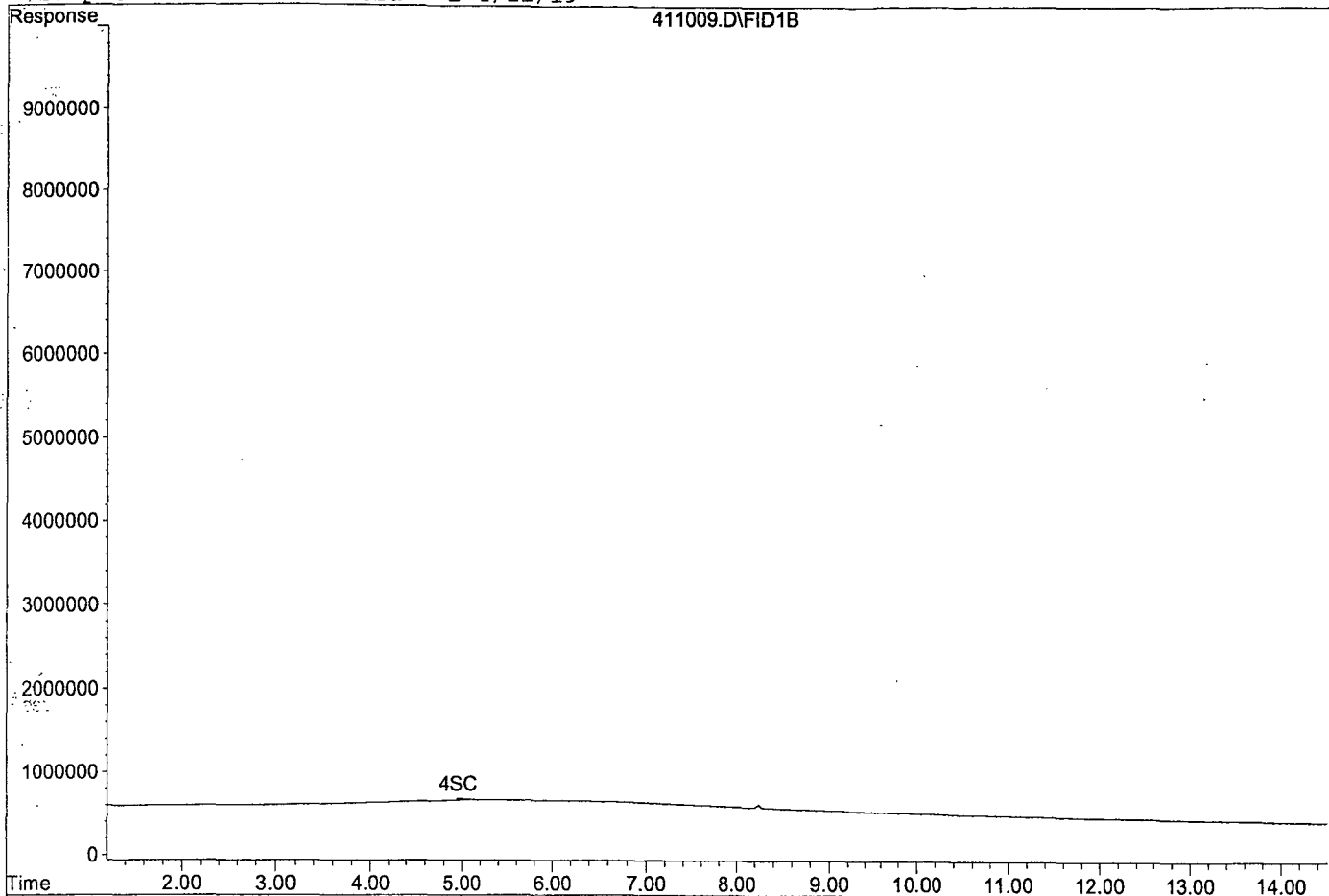
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
4) SC Decanoic Acid(S)	4.95	901062	3.555	ppb m
Surrogate Spike 24.000		Recovery =	14.81%	
5) SA Octacosane(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
Target Compounds				
Target Compounds				
1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb

Quantitation Report

Data File: G:\APOLLO\DATA\190411\411009.D

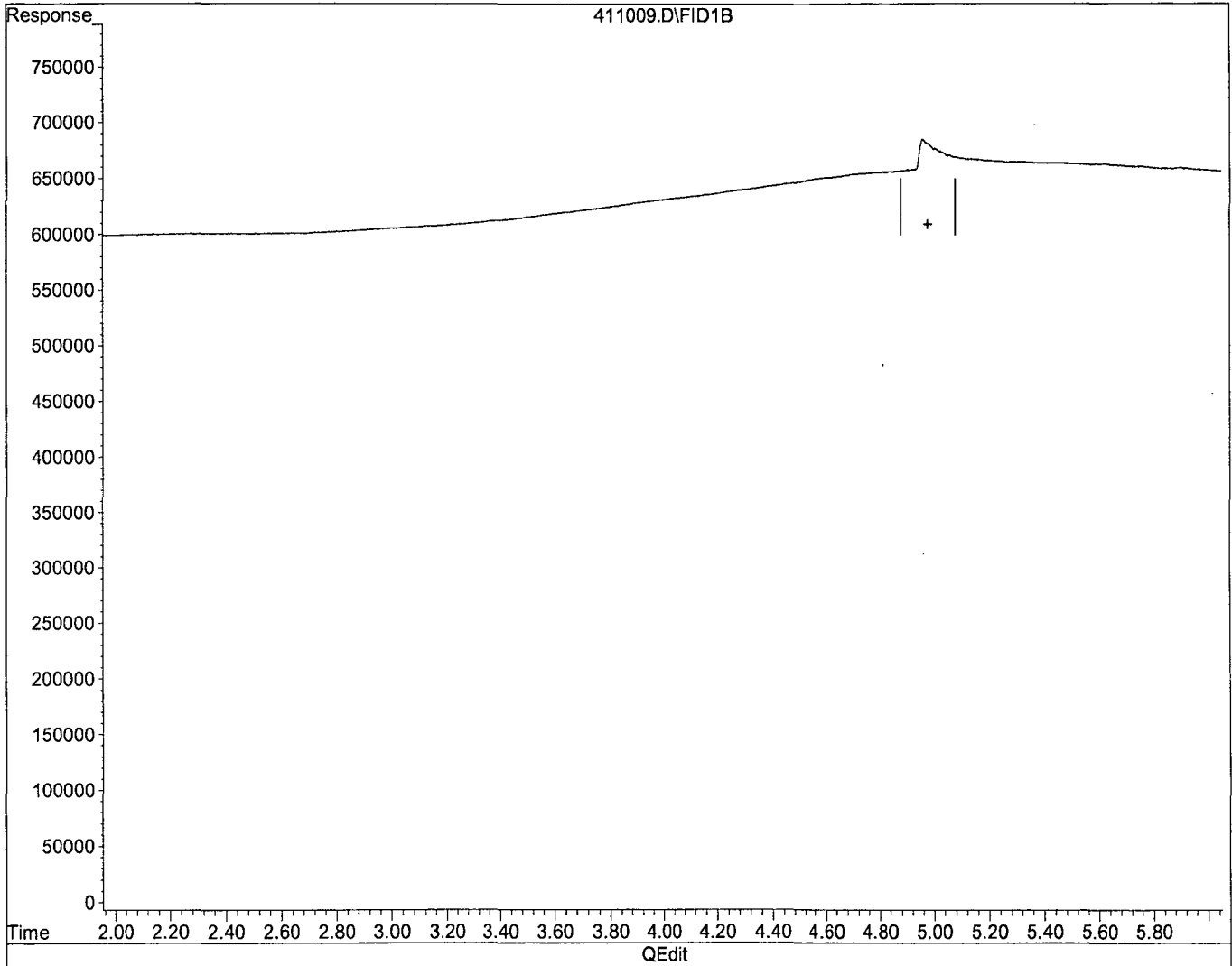
Sample : Decanoic Acid - 1 4/11/19



Quantitation Report

Data File : G:\APOLLO\DATA\190411\411009.D Vial: 9
Acq On : 4-11-19 15:57:31 Operator: DP
Sample : Decanoic Acid - 1 4/11/19 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Jul 17 10:01 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Jul 17 09:56:49 2019
Response via : Multiple Level Calibration

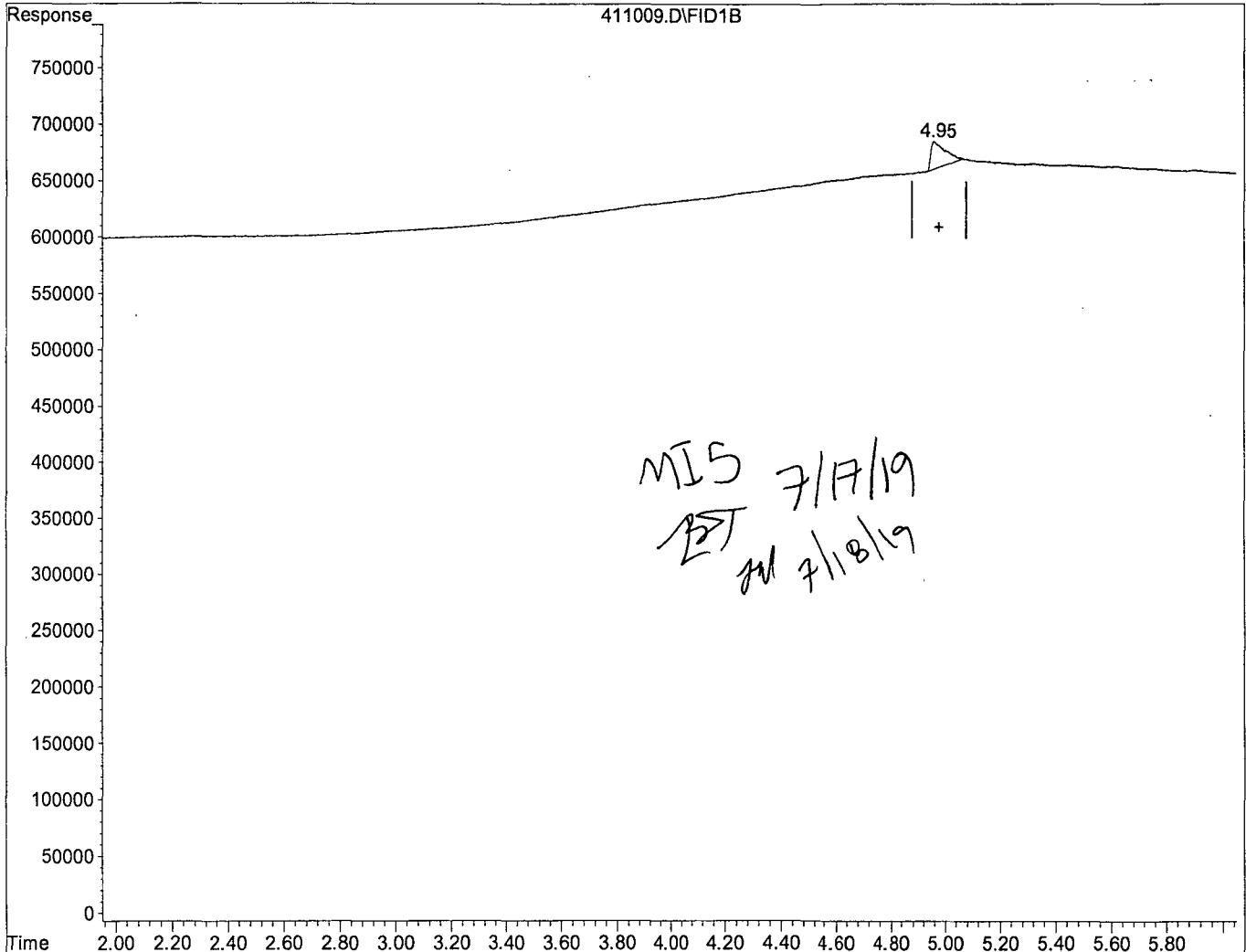


(4) Decanoic Acid(S) (SC)
4.96min -2.682ppb
response -6352807

Quantitation Report

Data File : G:\APOLLO\DATA\190411\411009.D Vial: 9
Acq On : 4-11-19 15:57:31 Operator: DP
Sample : Decanoic Acid - 1 4/11/19 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Jul 17 10:01 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Jul 17 09:56:49 2019
Response via : Multiple Level Calibration



(4) Decanoic Acid(S) (SC)

4.95min 3.555ppb m

response 901062

QEdit

Data File : G:\APOLLO\DATA\190411\411010.D Vial: 10
 Acq On : 4-11-19 16:16:26 Operator: DP
 Sample : Decanoic Acid - 2 4/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:04 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

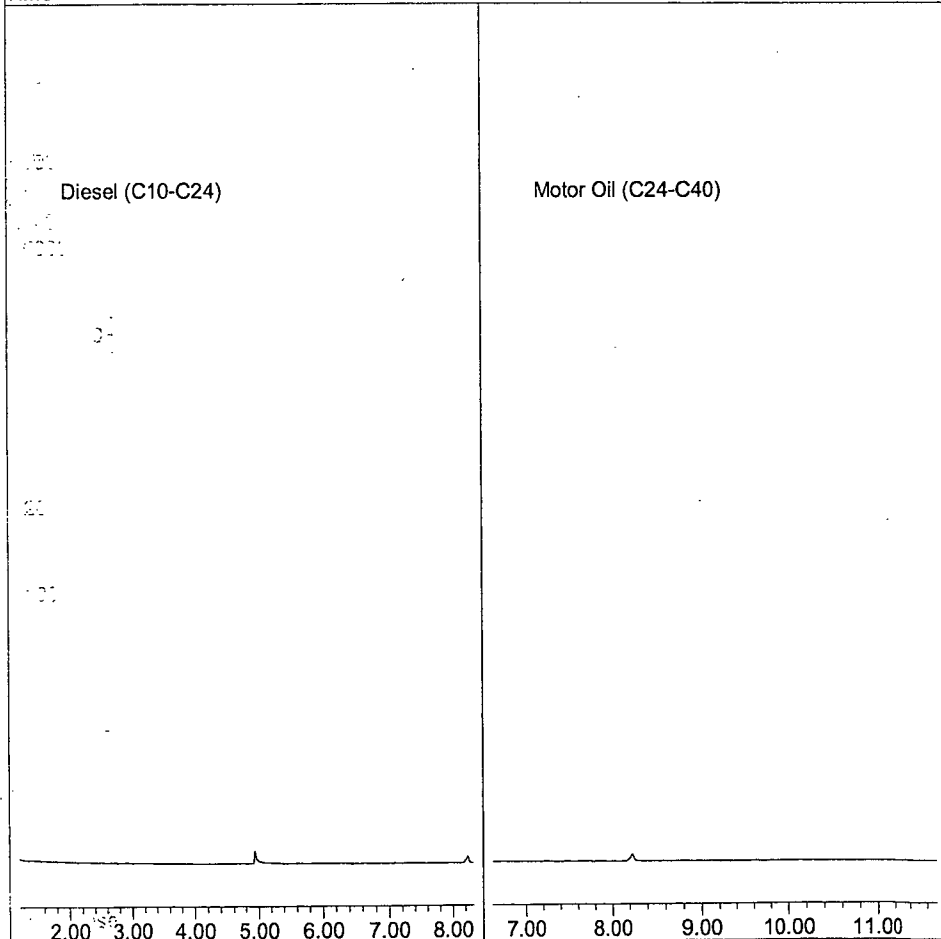
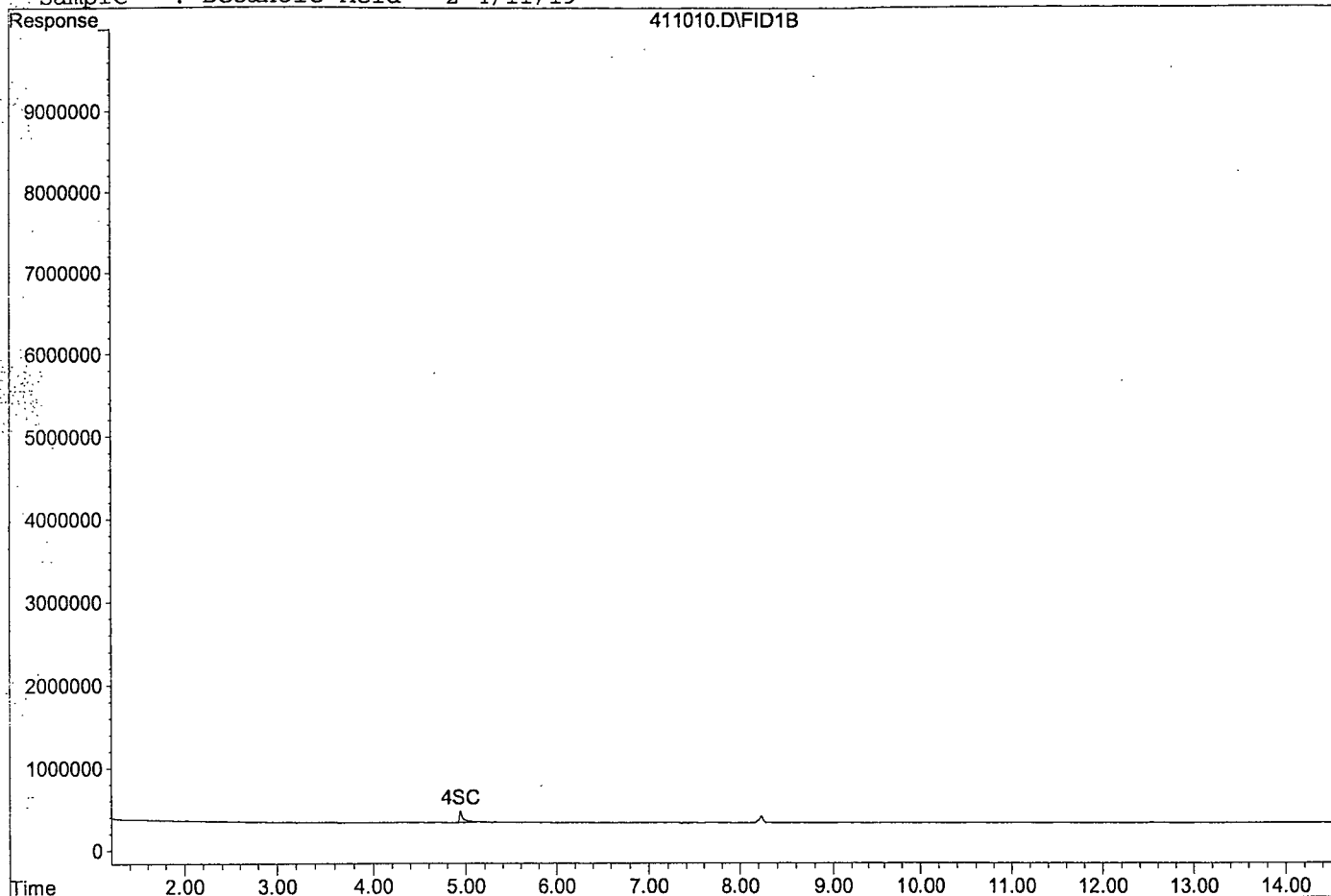
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
4) SC Decanoic Acid(S)	4.94	3775239	6.027	ppb
Surrogate Spike 24.000		Recovery =	25.11%	
5) SA Octacosane(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
Target Compounds				
Target Compounds				
1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb

Quantitation Report

Data File: G:\APOLLO\DATA\190411\411010.D

Sample : Decanoic Acid - 2 4/11/19



Data File : G:\APOLLO\DATA\190411\411011.D Vial: 11
 Acq On : 4-11-19 16:36:04 Operator: DP
 Sample : Decanoic Acid - 3 4/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:04 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

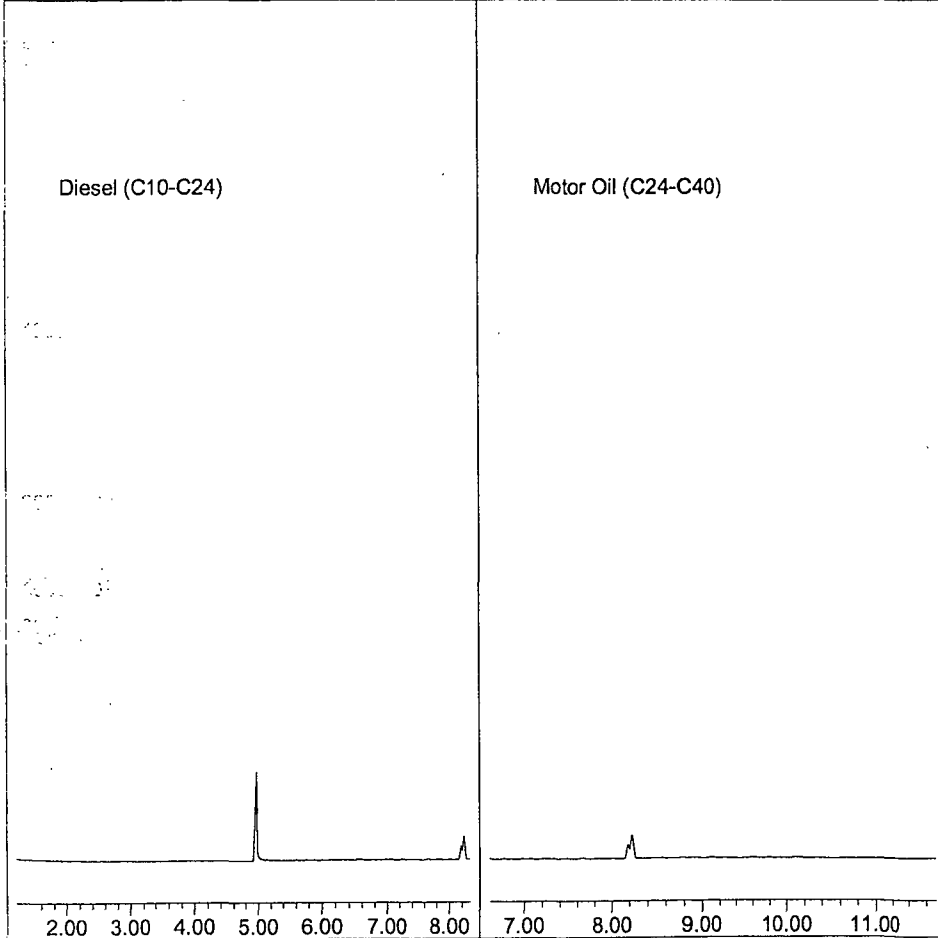
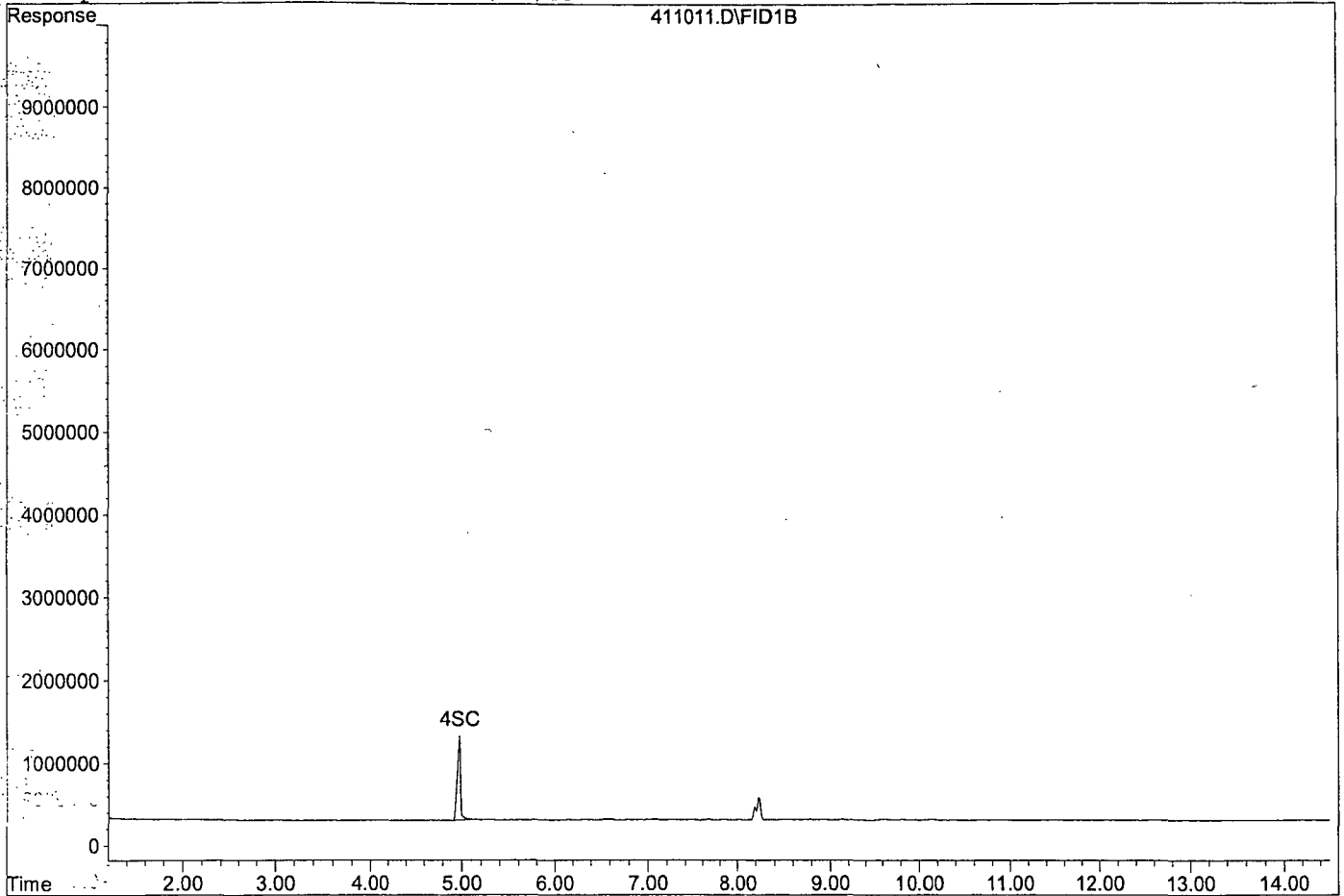
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
4) SC Decanoic Acid(S)	4.97	23638982	23.106	ppb
Surrogate Spike 24.000		Recovery =	96.28%	
5) SA Octacosane(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
Target Compounds				
Target Compounds				
1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb

Quantitation Report

Data File: G:\APOLLO\DATA\190411\411011.D

Sample : Decanoic Acid - 3 4/11/19



Data File : G:\APOLLO\DATA\190411\411012.D Vial: 12
 Acq On : 4-11-19 16:55:47 Operator: DP
 Sample : Decanoic Acid - 4 4/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:04 2019 Quant Results File: DOC0617.RES

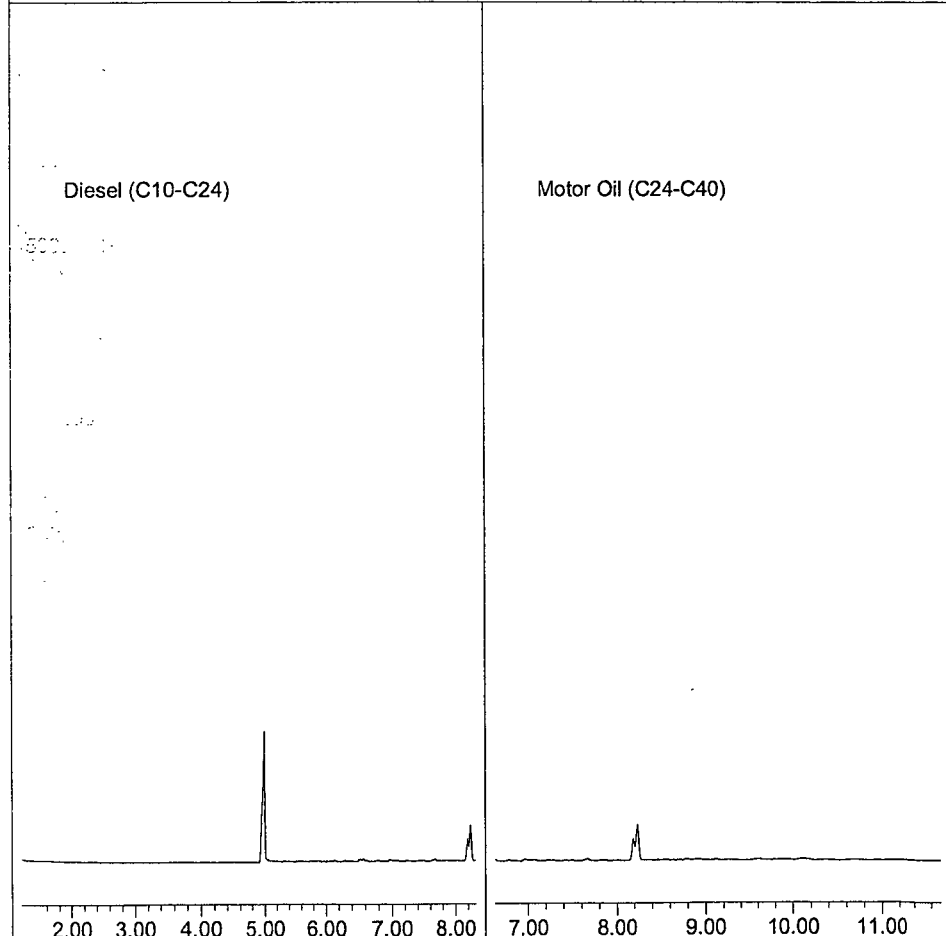
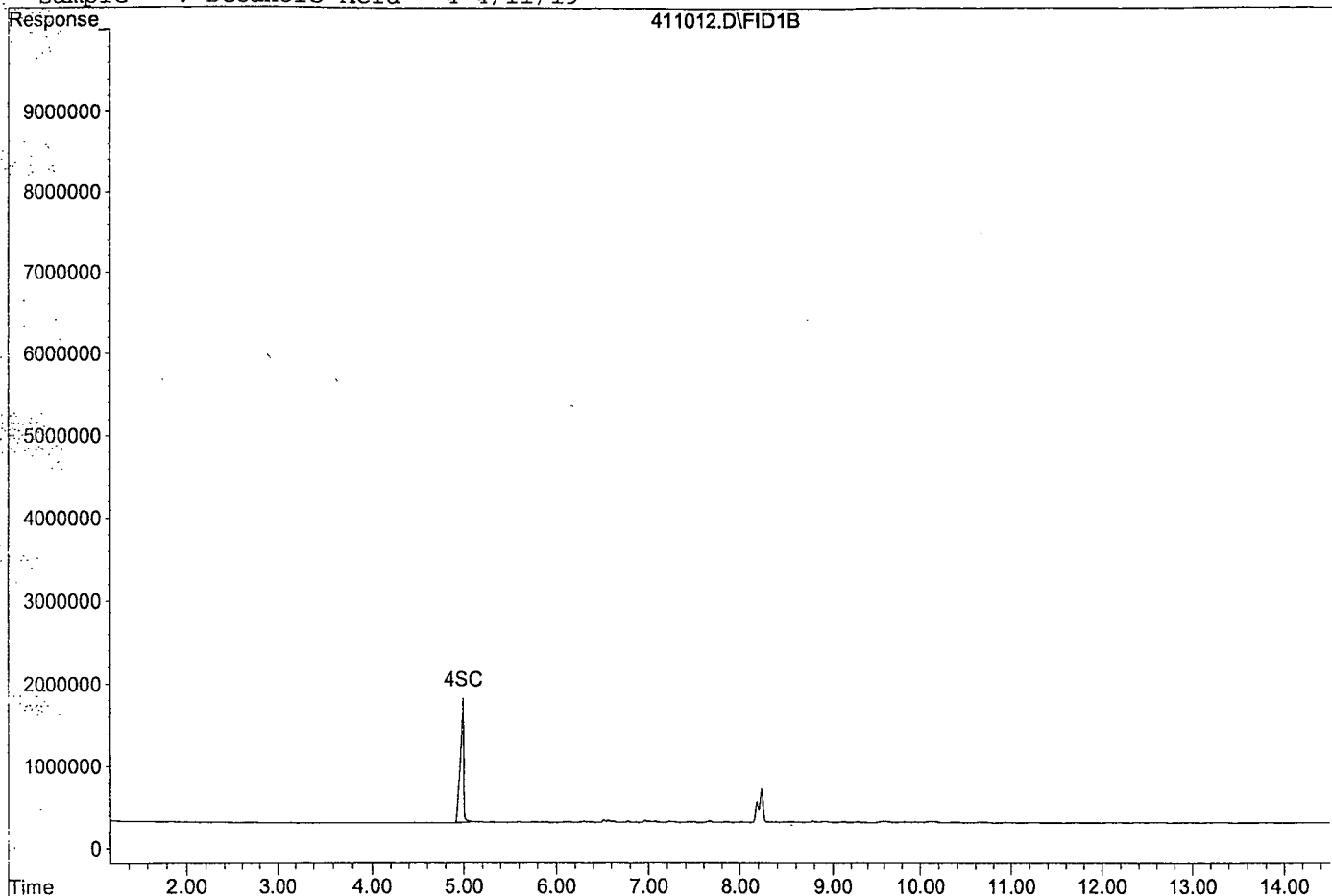
Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
4) SC Decanoic Acid(S)	4.99	38673628	36.034	ppb
Surrogate Spike 24.000		Recovery =	150.14%	
5) SA Octacosane(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
Target Compounds				
Target Compounds				
1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb

Quantitation Report

Data File: G:\APOLLO\DATA\190411\411012.D
Sample : Decanoic Acid - 4 4/11/19



Data File : G:\APOLLO\DATA\190411\411013.D Vial: 13
 Acq On : 4-11-19 17:15:26 Operator: DP
 Sample : Decanoic Acid - 5 4/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:04 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
----------	------	----------	------	-------

System Monitoring Compounds

3) SA Ortho-Terphenyl(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
4) SC Decanoic Acid(S)	5.00	52115206	47.592	ppb
Surrogate Spike 24.000		Recovery =	198.30%	
5) SA Octacosane(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	

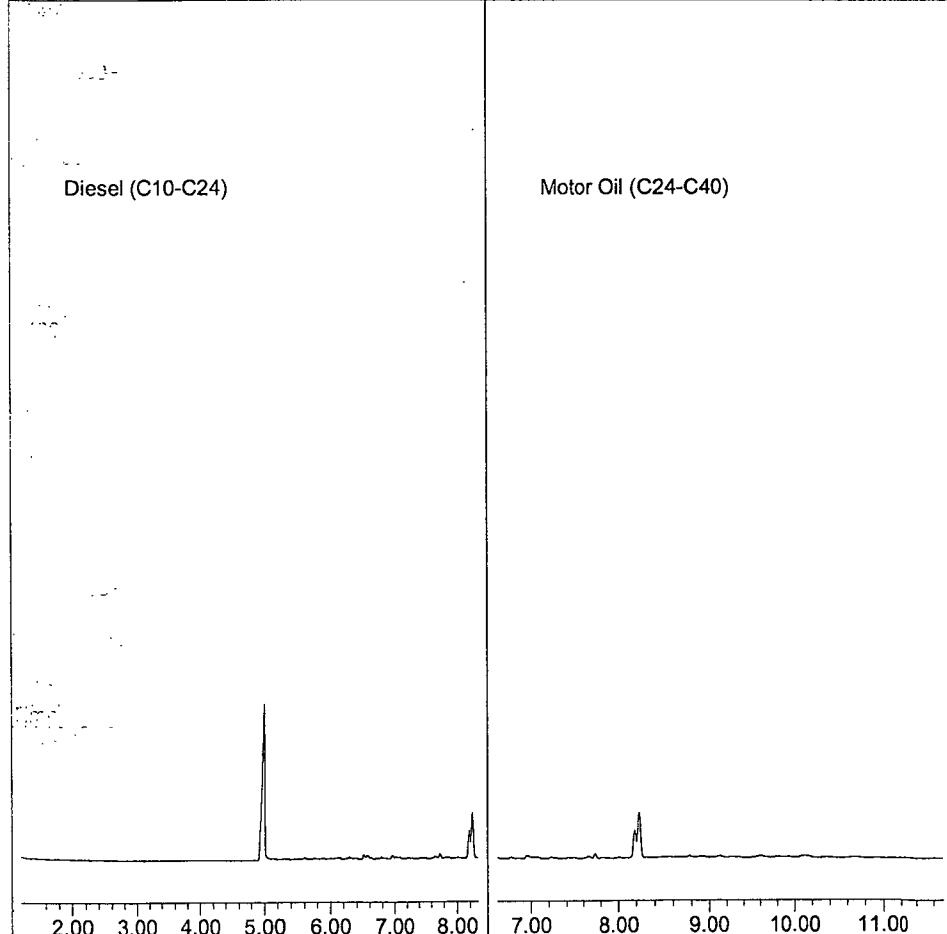
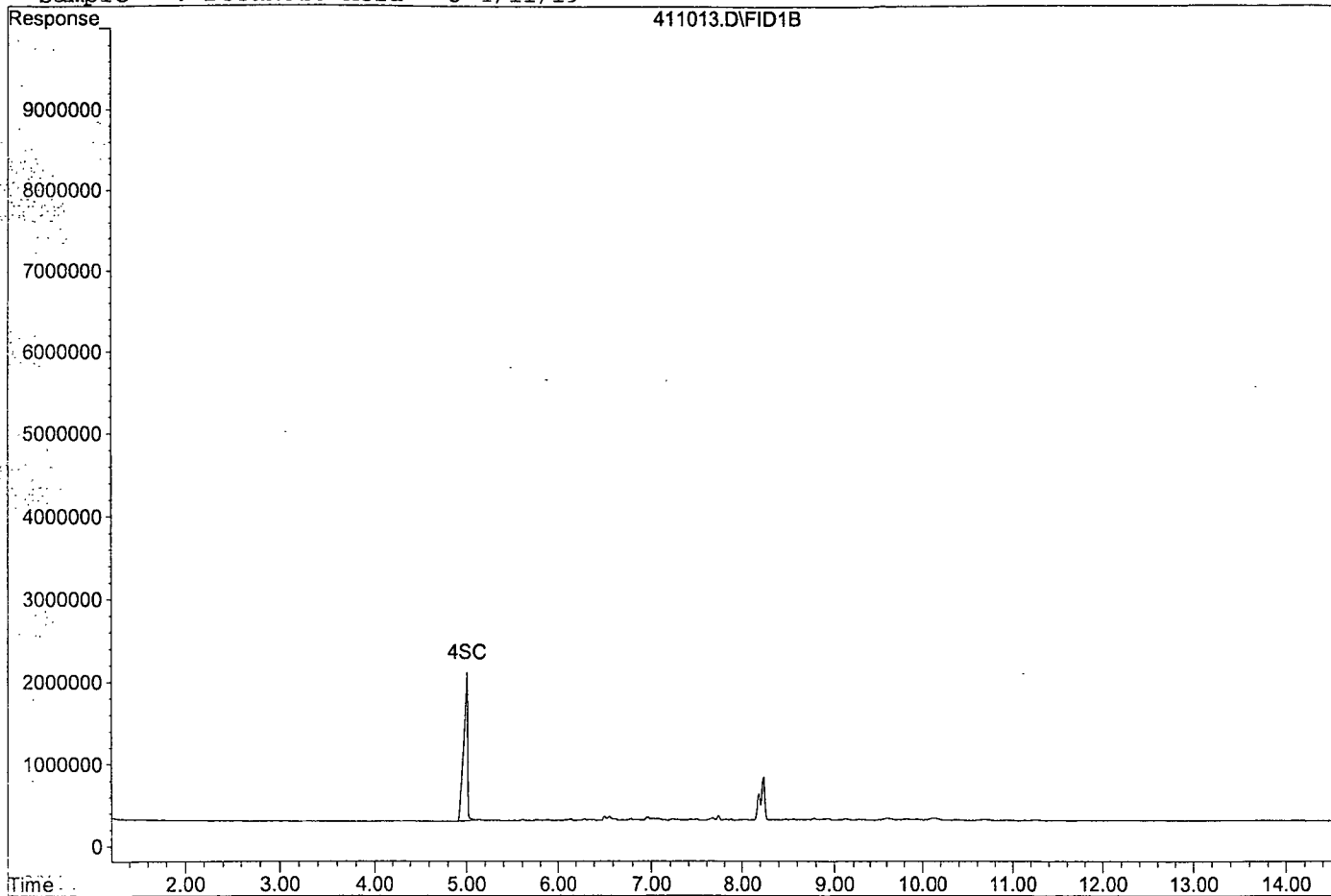
Target Compounds

Target Compounds

1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb

Data File: G:\APOLLO\DATA\190411\411013.D

Sample : Decanoic Acid - 5 4/11/19



Data File : G:\APOLLO\DATA\190411\411014.D Vial: 14
 Acq On : 4-11-19 17:35:11 Operator: DP
 Sample : Decanoic Acid - 6 4/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:05 2019 Quant Results File: DOC0617.RES

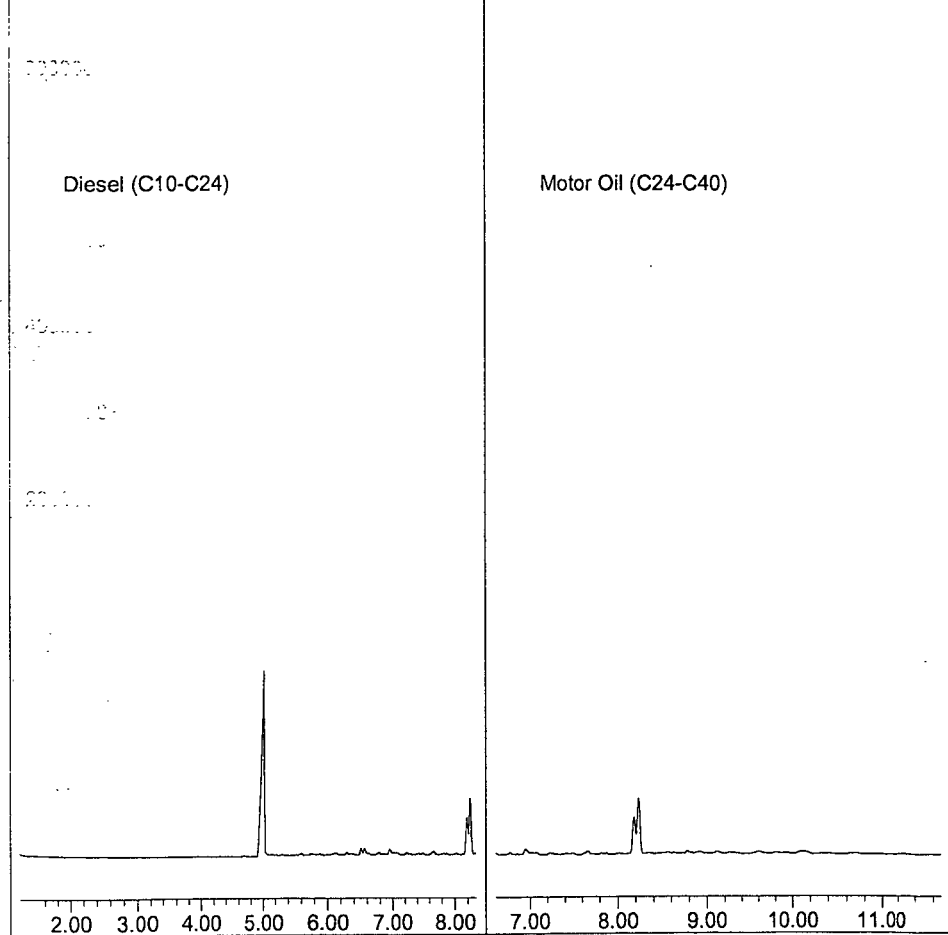
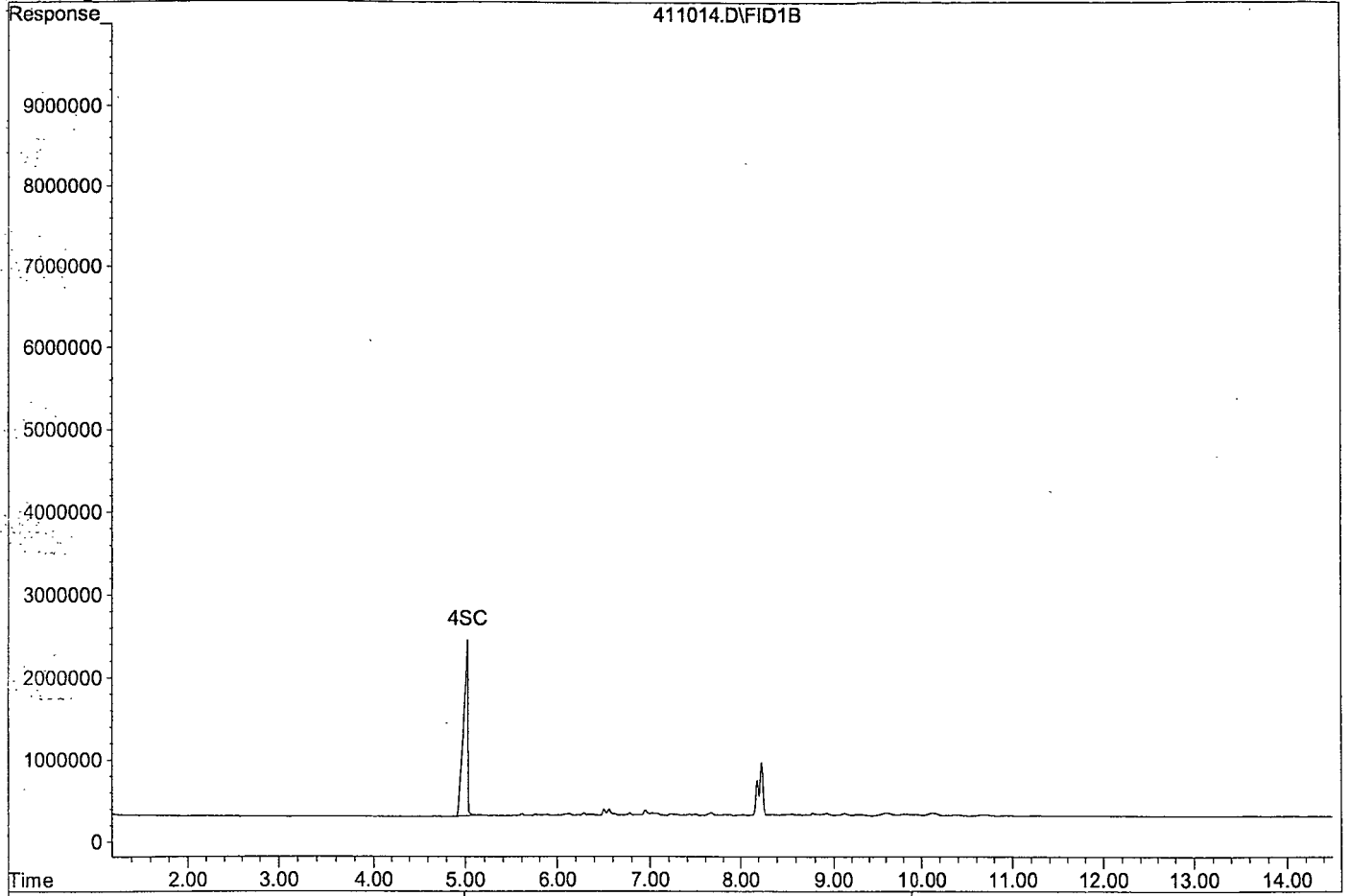
Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
4) SC Decanoic Acid(S)	5.02	67279572	60.631	ppb
Surrogate Spike 24.000		Recovery =	252.63%	
5) SA Octacosane(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
Target Compounds				
Target Compounds				
1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb

Data File: G:\APOLLO\DATA\190411\411014.D

Sample : Decanoic Acid - 6 4/11/19



TPH Extractables
DEC0807

Form 6
Initial Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Initial Cal. Date: 08/07/19

Matrix: Water

Instrument: Apollo

Initials: BT/aw

801053.D 801054.D 801055.D 801056.D 801057.D 801058.D

		Compound	1	2	3	4	5	6					Avg	%RSD	Type	r^2	Q
1	SC	Decanoic Acid(S)	614469	822134	962351	1063708	1051839	1094018					934753	20	SC		
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
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34																	
35																	

0.566466

Data File : G:\APOLLO\DATA\190801\801053.D Vial: 53
 Acq On : 8-7-19 16:40:26 Operator: DP
 Sample : Decanoic Acid-1 8/07/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 8 12:58 2019 Quant Results File: DEC0807.RES

Method : G:\APOLLO\DATA\190801\DEC0807.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Thu Aug 08 12:58:08 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

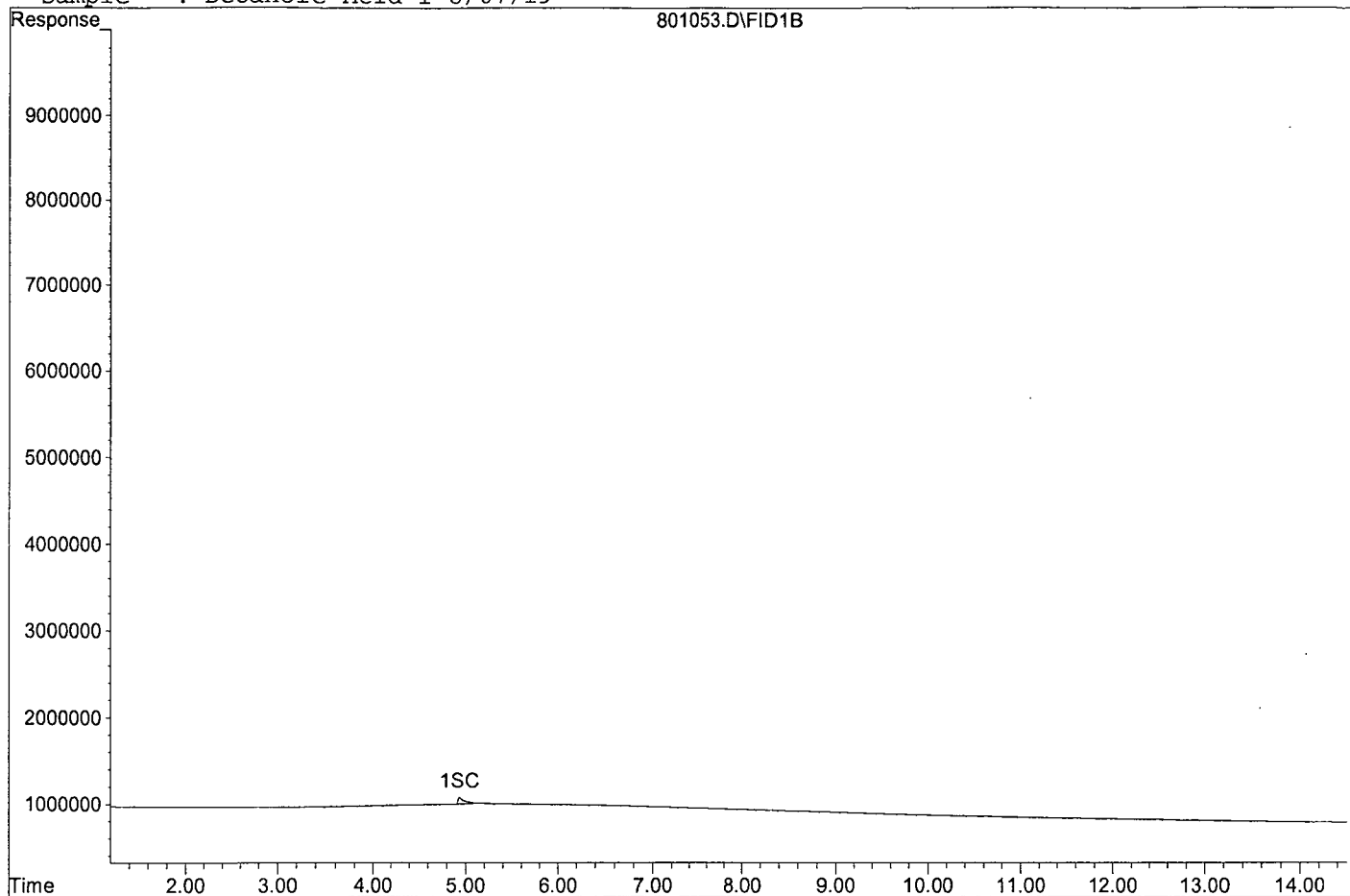
System Monitoring Compounds			
1) SC Decanoic Acid(S)	4.93	3686815	1.972 ppb
Surrogate Spike 24.000		Recovery =	8.22%

Target Compounds

Target Compounds

Data File: G:\APOLLO\DATA\190801\801053.D

Sample : Decanoic Acid-1 8/07/19



Data File : G:\APOLLO\DATA\190801\801054.D Vial: 54
 Acq On : 8-7-19 16:59:26 Operator: DP
 Sample : Decanoic Acid-2 8/07/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 8 12:58 2019 Quant Results File: DEC0807.RES

Method : G:\APOLLO\DATA\190801\DEC0807.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Thu Aug 08 12:58:08 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) SC Decanoic Acid(S)	4.93f	9865604	5.277 ppb
Surrogate Spike 24.000	Recovery	=	21.99%

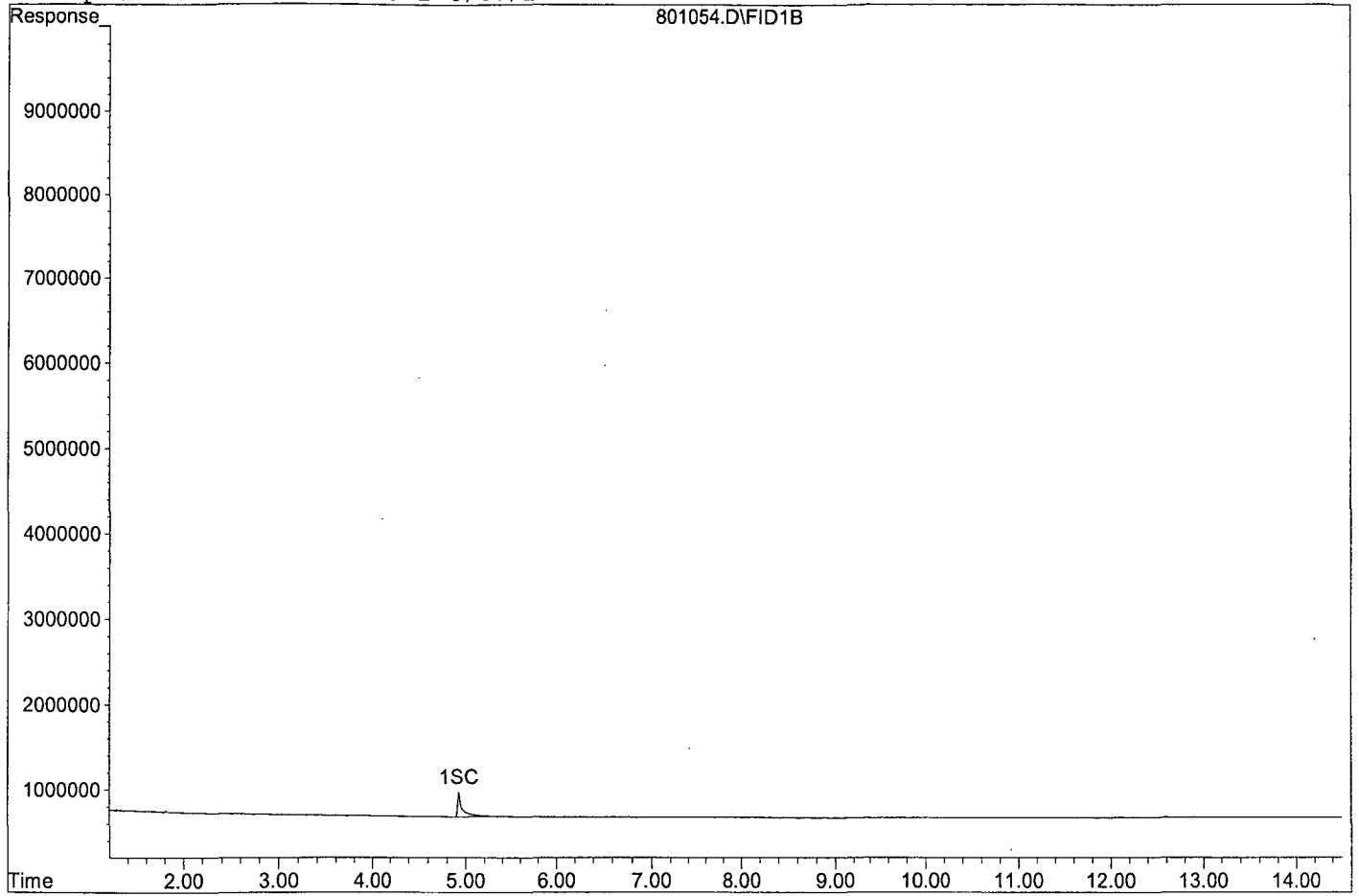
Target Compounds

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190801\801054.D

Sample : Decanoic Acid-2 8/07/19



Data File : G:\APOLLO\DATA\190801\801055.D Vial: 55
 Acq On : 8-7-19 17:19:24 Operator: DP
 Sample : Decanoic Acid-3 8/07/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 8 12:58 2019 Quant Results File: DEC0807.RES

Method : G:\APOLLO\DATA\190801\DEC0807.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Thu Aug 08 12:58:08 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

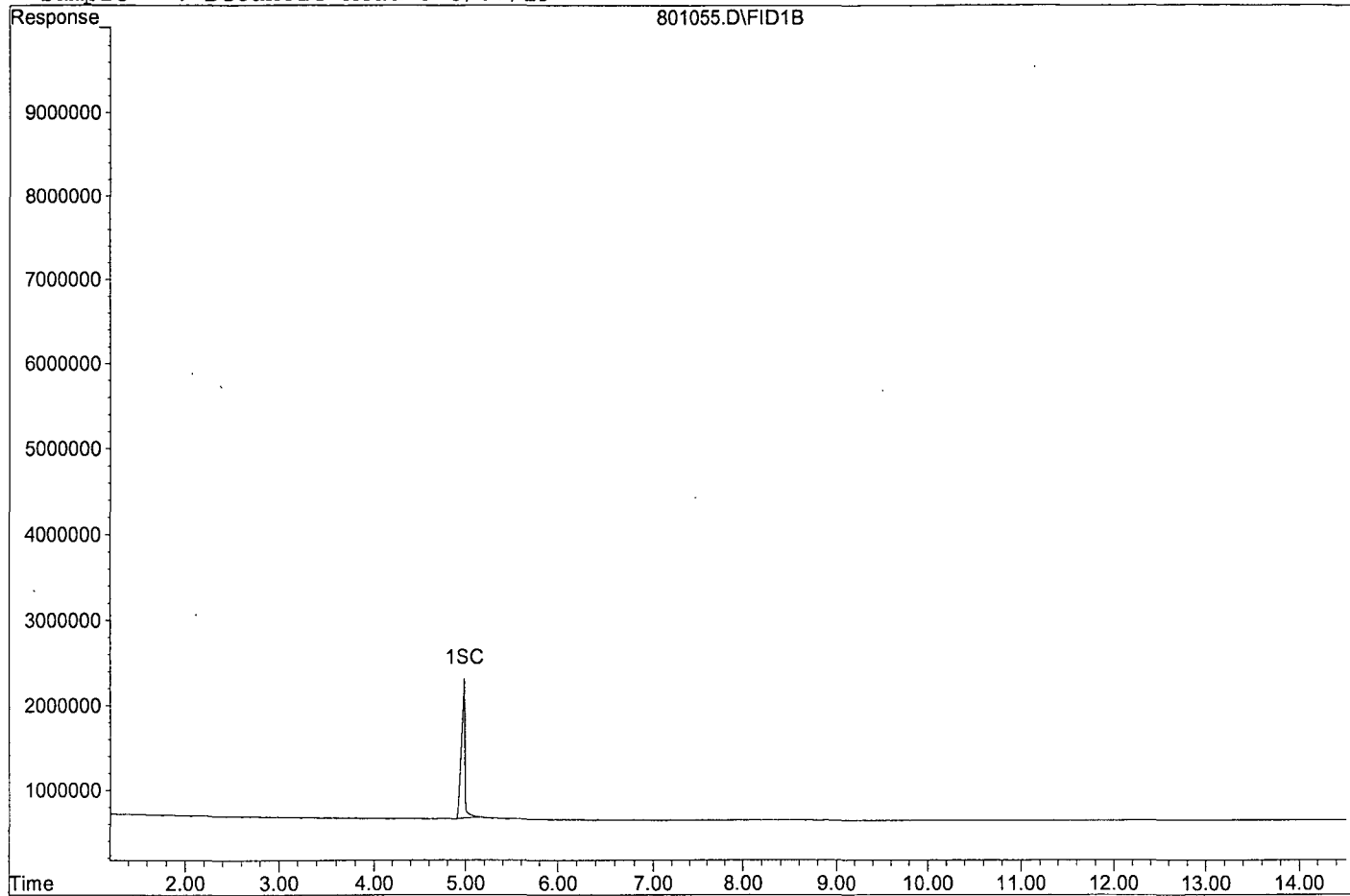
System Monitoring Compounds			
1) SC Decanoic Acid(S)	4.98	46192838	24.709 ppb
Surrogate Spike 24.000		Recovery =	102.95%

Target Compounds

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190801\801055.D
Sample : Decanoic Acid-3 8/07/19



Data File : G:\APOLLO\DATA\190801\801056.D Vial: 56
 Acq On : 8-7-19 17:38:43 Operator: DP
 Sample : Decanoic Acid-4 8/07/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 8 12:58 2019 Quant Results File: DEC0807.RES

Method : G:\APOLLO\DATA\190801\DEC0807.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Thu Aug 08 12:58:08 2019
 Response via : Multiple Level Calibration

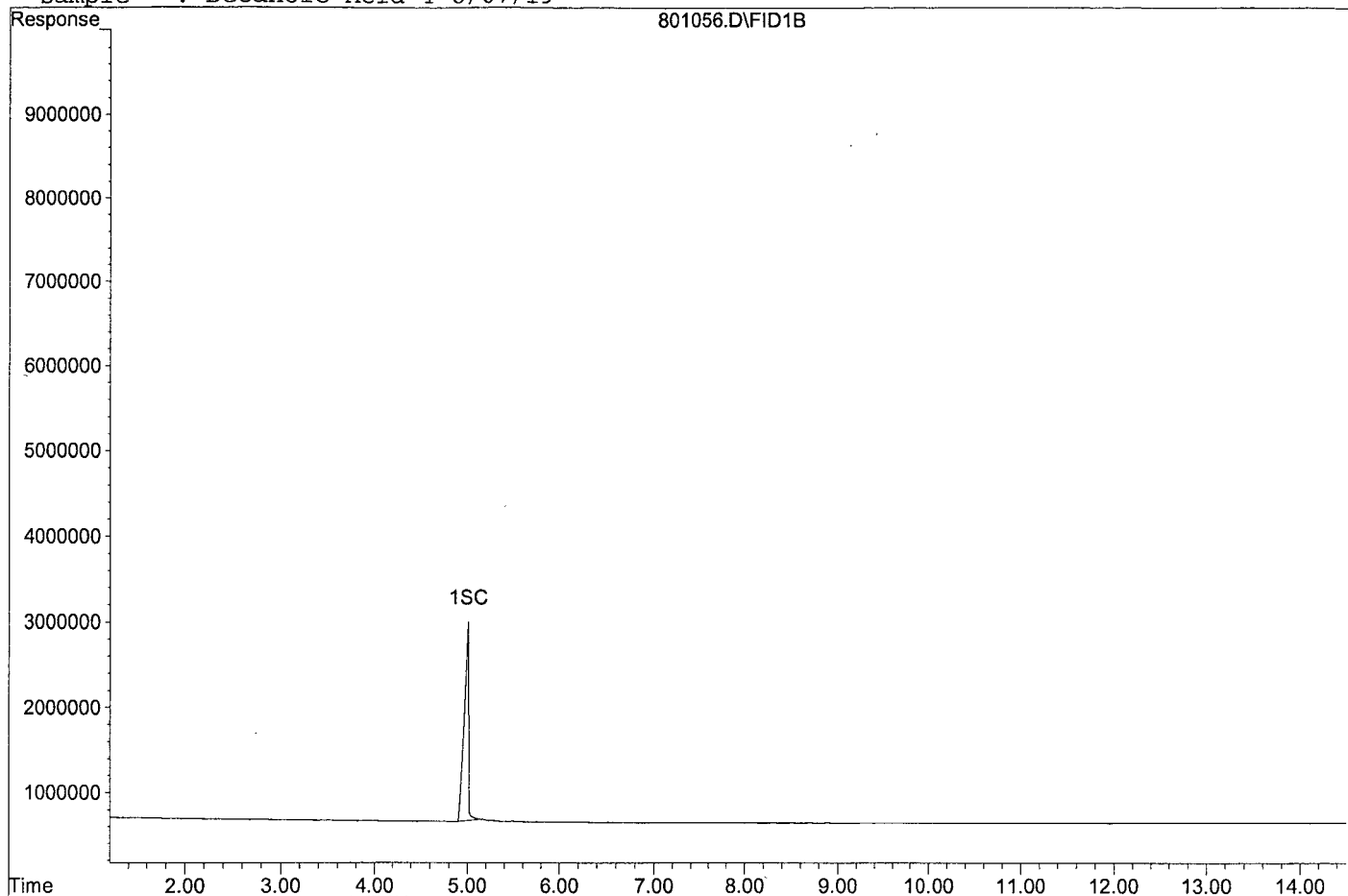
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) SC Decanoic Acid(S)	5.00	76586998	40.966 ppb
Surrogate Spike 24.000		Recovery =	170.69%
Target Compounds			
Target Compounds			

Data File: G:\APOLLO\DATA\190801\801056.D

Sample : Decanoic Acid-4 8/07/19



Data File : G:\APOLLO\DATA\190801\801057.D Vial: 57
 Acq On : 8-7-19 17:58:50 Operator: DP
 Sample : Decanoic Acid-5 8/07/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 8 12:58 2019 Quant Results File: DEC0807.RES

Method : G:\APOLLO\DATA\190801\DEC0807.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Thu Aug 08 12:58:08 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

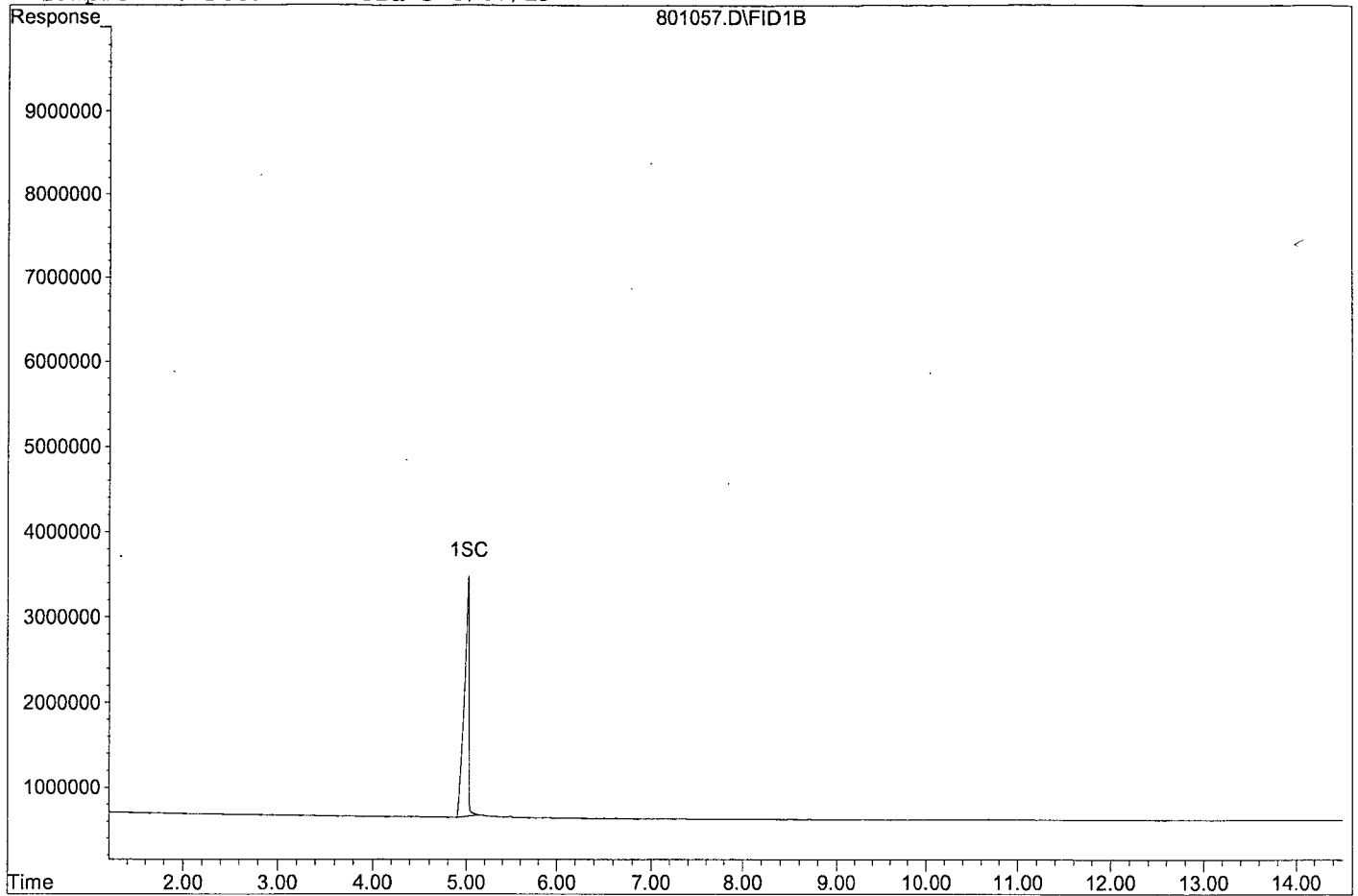
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) SC Decanoic Acid(S)	5.02	100976566	54.012 ppb
Surrogate Spike 24.000		Recovery =	225.05%

Target Compounds

Target Compounds

Data File: G:\APOLLO\DATA\190801\801057.D

Sample : Decanoic Acid-5 8/07/19



Data File : G:\APOLLO\DATA\190801\801058.D Vial: 58
 Acq On : 8-7-19 18:18:48 Operator: DP
 Sample : Decanoic Acid-6 8/07/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 8 12:59 2019 Quant Results File: DEC0807.RES

Method : G:\APOLLO\DATA\190801\DEC0807.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Thu Aug 08 12:58:08 2019
 Response via : Multiple Level Calibration

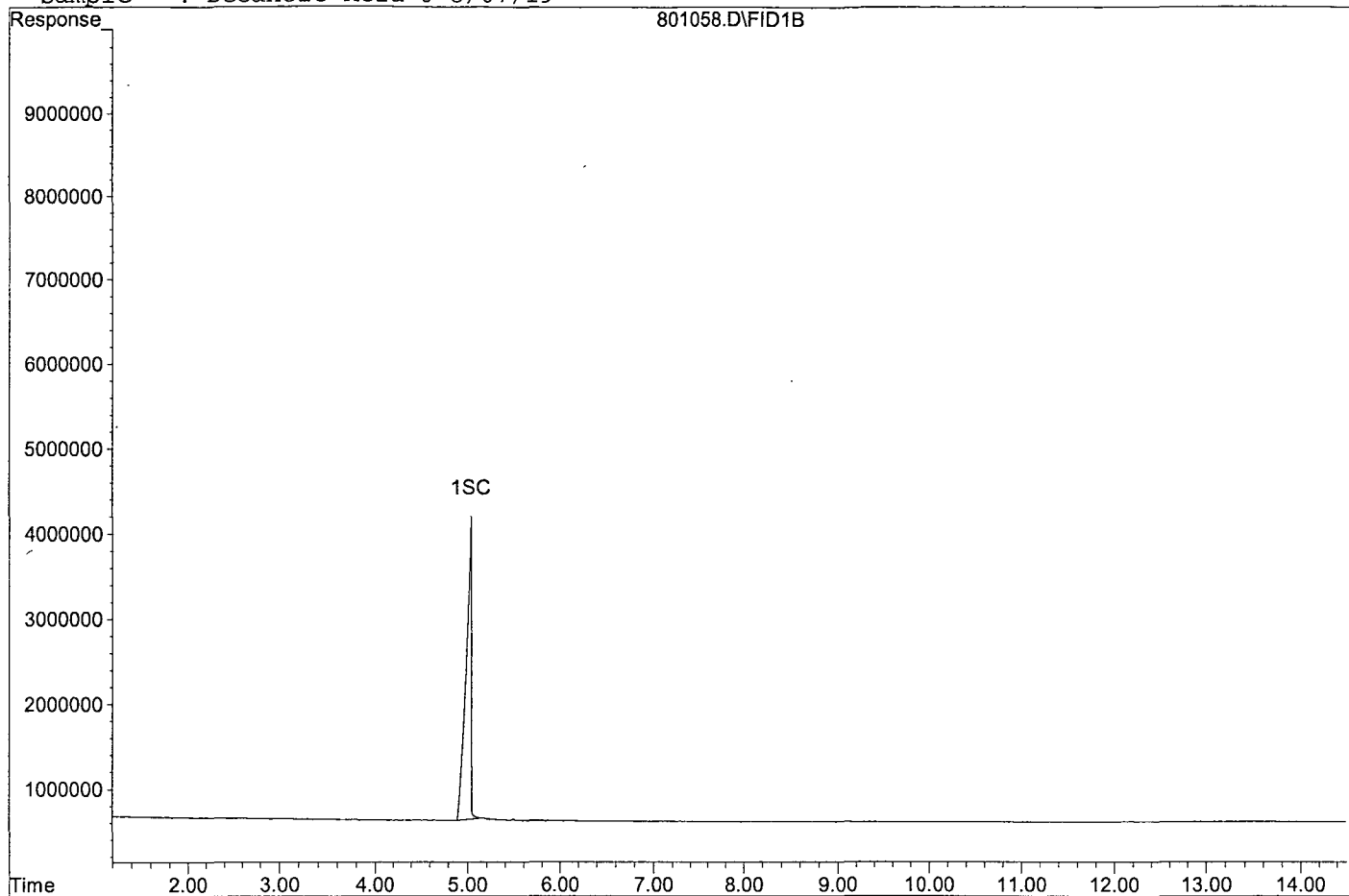
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) SC Decanoic Acid(S)	5.04f	131282160	70.223 ppb
Surrogate Spike 24.000		Recovery =	292.60%
Target Compounds .			
Target Compounds			

Data File: G:\APOLLO\DATA\190801\801058.D

Sample : Decanoic Acid-6 8/07/19



TPH Extractables
DOC0617

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: Water

SDG No: 89593
Date Analyzed: 07/30/19
Instrument: Apollo
Initial Cal. Date: 06/17/19
Data File: 713253.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C24)	1351010	1044610	23	HATML	2.9
2	HBTM	Motor Oil (C24-C40)	916522	836579	8.7	HBTM	
3	SA	Ortho-Terphenyl(S)	1817470	1794810	1.2	SA	
4	SA	Octacosane(S)	1840270	1768300	3.9	SA	
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40	Average				9.2		

Data File : G:\APOLLO\DATA\190713\713253.D Vial: 53
 Acq On : 7-30-19 18:18:15 Operator: DP
 Sample : Diesel/Motor Oil CCV 7/19/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 8 10:04 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

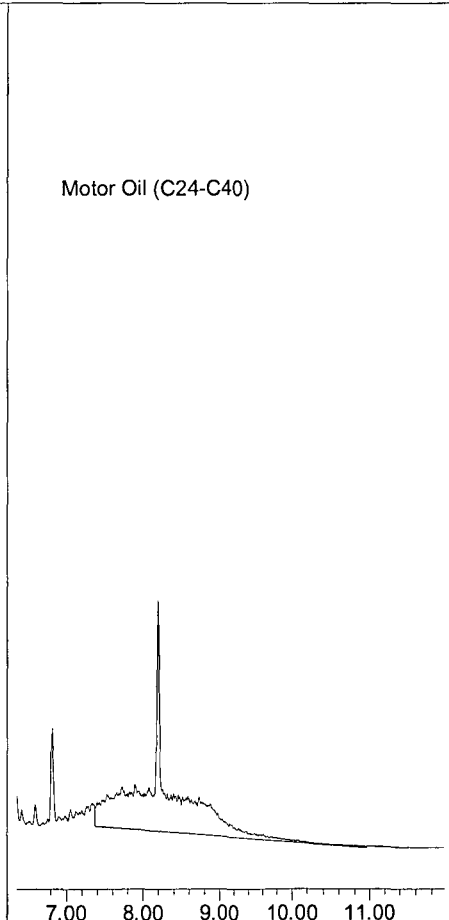
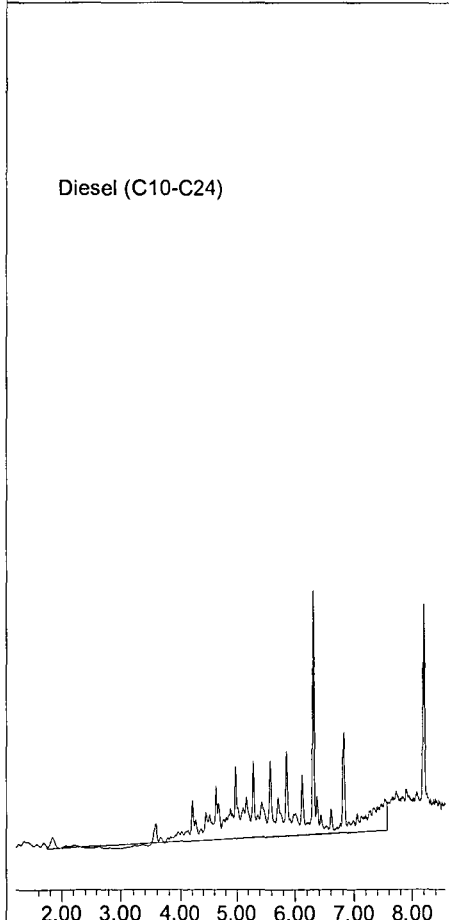
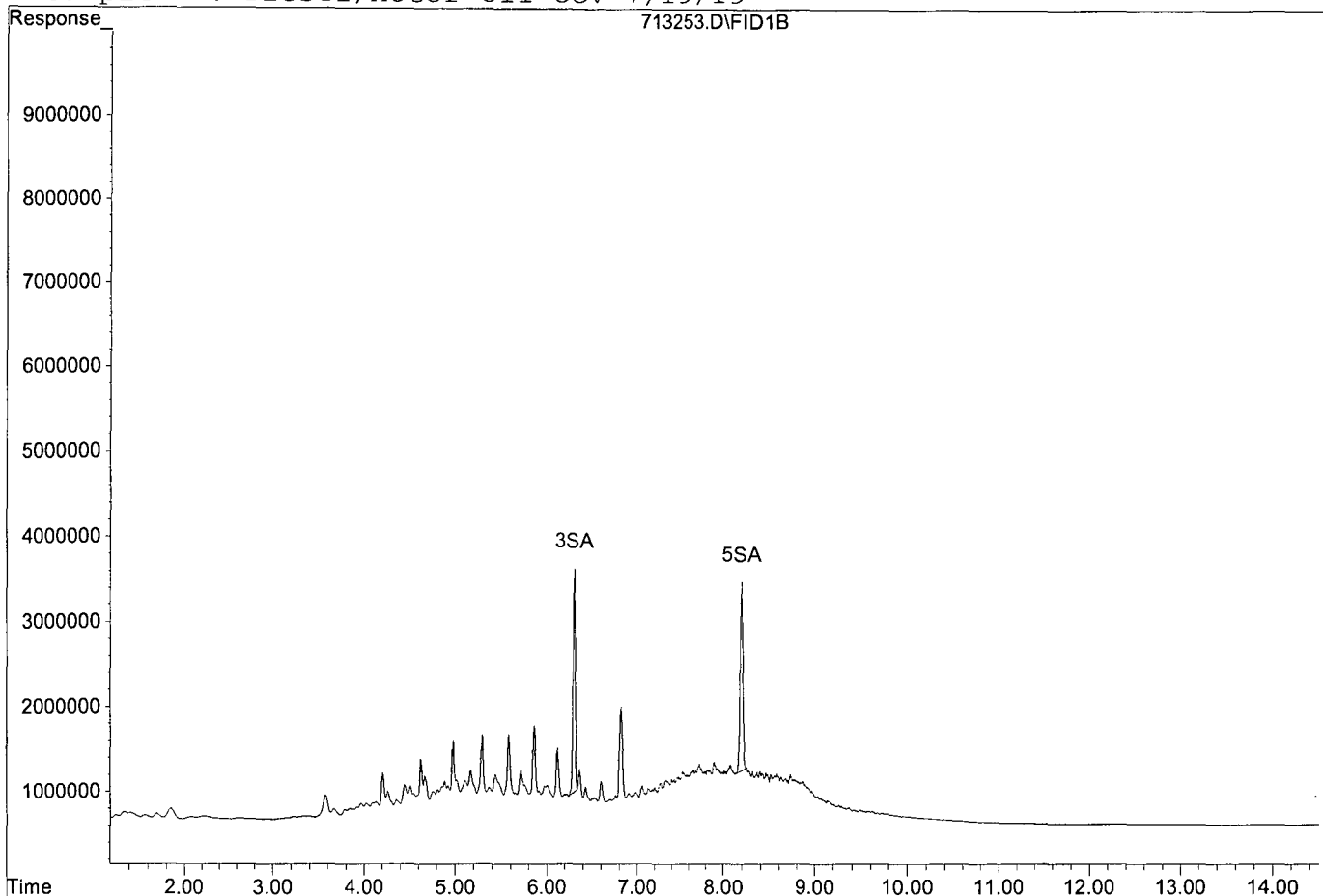
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	44870308	12.344 ppb
Surrogate Spike 37.500		Recovery =	32.92%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.20	44207443	12.011 ppb
Surrogate Spike 37.500		Recovery =	32.03%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	522304180	242.709 ppb
2) HBTM Motor Oil (C24-C40)	9.16	418289464	228.194 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190713\713253.D
Sample : Diesel/Motor Oil CCV 7/19/19



TPH Extractables
DOC0617

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: 89593

Case No: _____

Date Analyzed: 07/30/19

Matrix: Water

Instrument: Apollo

Initial Cal. Date: 06/17/19

Data File: 713267.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C24)	1351010	1065300	21	HATML	1.0
2	HBTM	Motor Oil (C24-C40)	916522	837632	8.6	HBTM	
3	SA	Ortho-Terphenyl(S)	1817470	1831690	0.78	SA	
4	SA	Octacosane(S)	1840270	1800810	2.1	SA	
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Average

8.1

Data File : G:\APOLLO\DATA\190713\713267.D Vial: 67
 Acq On : 7-30-19 22:57:31 Operator: DP
 Sample : Diesel/Motor Oil CCV 7/19/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 8 10:07 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

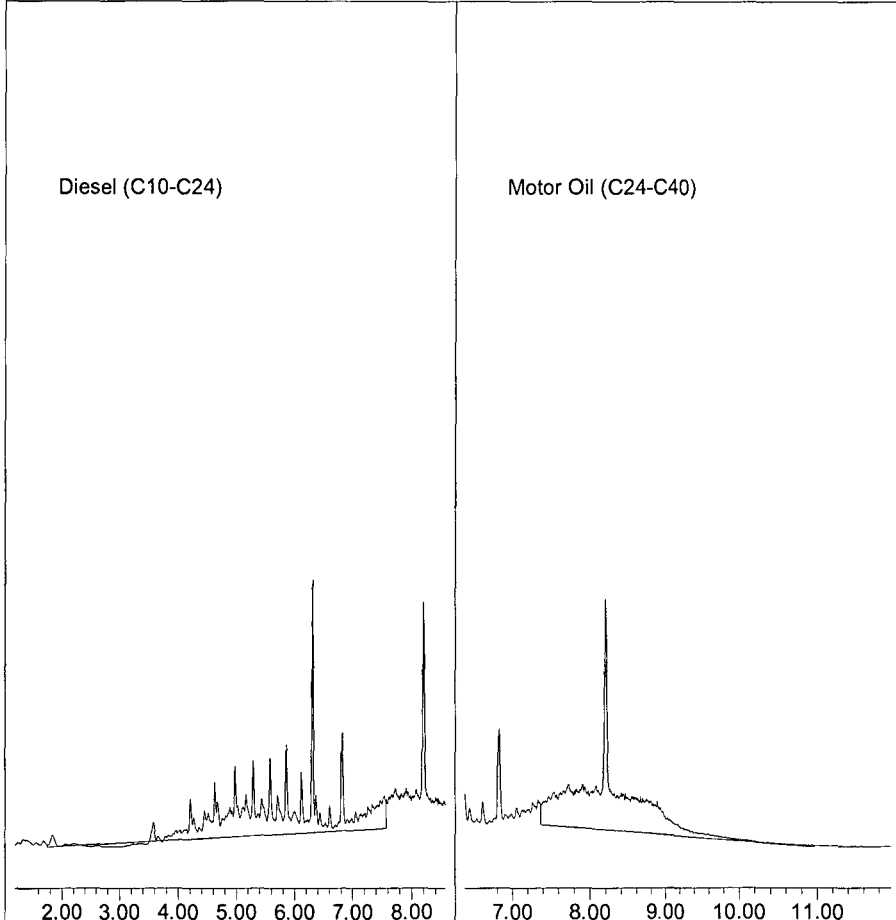
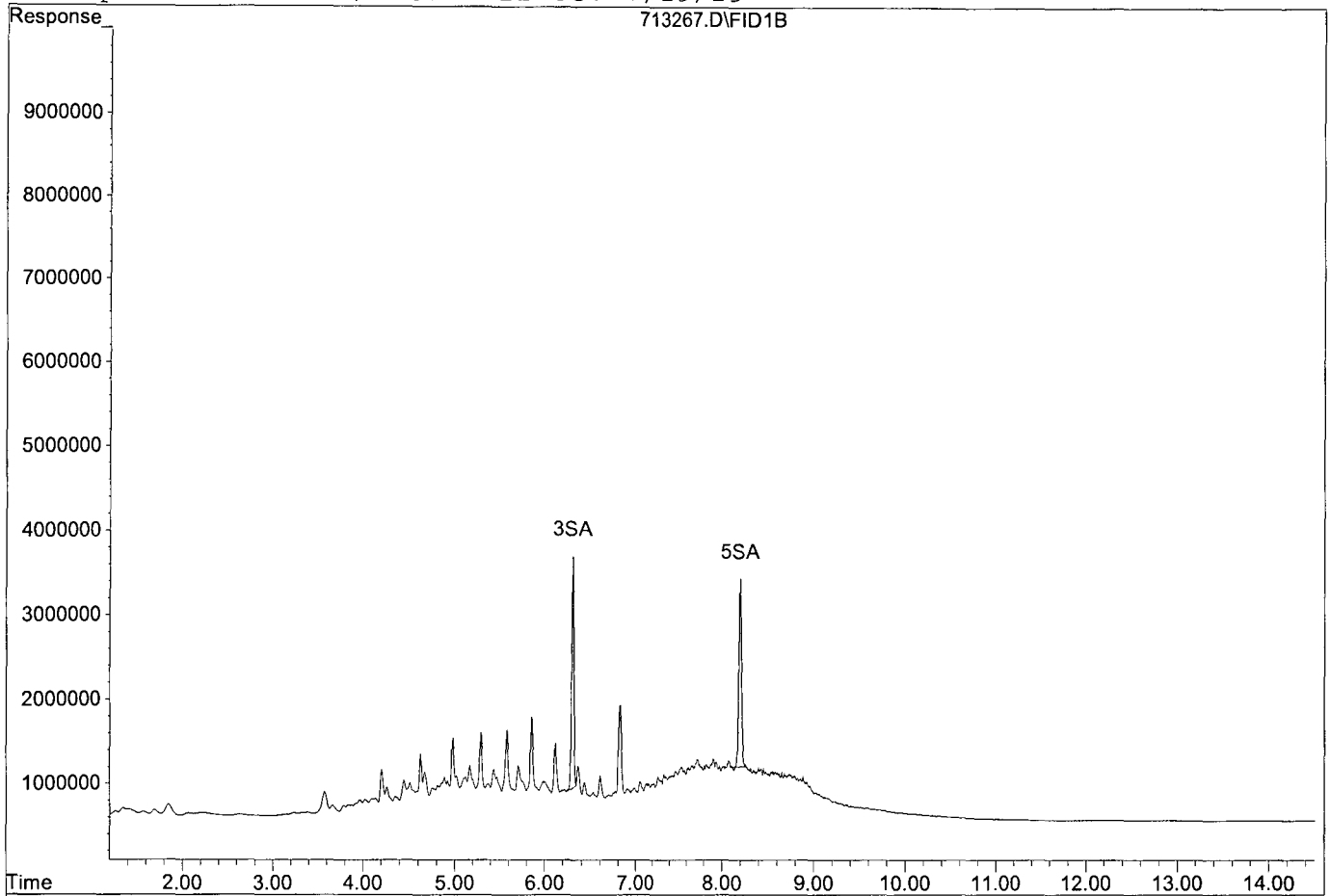
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	45792223	12.598 ppb
Surrogate Spike 37.500		Recovery =	33.59%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.20	45020171	12.232 ppb
Surrogate Spike 37.500		Recovery =	32.62%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	532650231	247.489 ppb
2) HBTM Motor Oil (C24-C40)	9.16	418815878	228.481 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190713\713267.D
Sample : Diesel/Motor Oil CCV 7/19/19



TPH Extractables
DOC0617

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: 89593

Case No: _____

Date Analyzed: 07/31/19

Matrix: Water

Instrument: Apollo

Initial Cal. Date: 06/17/19

Data File: 713273.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C24)	1351010	1138660	16	HATML	5.8
2	HBTM	Motor Oil (C24-C40)	916522	862519	5.9	HBTM	
3	SA	Ortho-Terphenyl(S)	1817470	1845530	1.5	SA	
4	SA	Octacosane(S)	1840270	1855300	0.82	SA	
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Average

6.1

Data File : G:\APOLLO\DATA\190713\713273.D Vial: 73
 Acq On : 7-31-19 0:55:55 Operator: DP
 Sample : Diesel/Motor Oil CCV 7/19/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 8 10:13 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

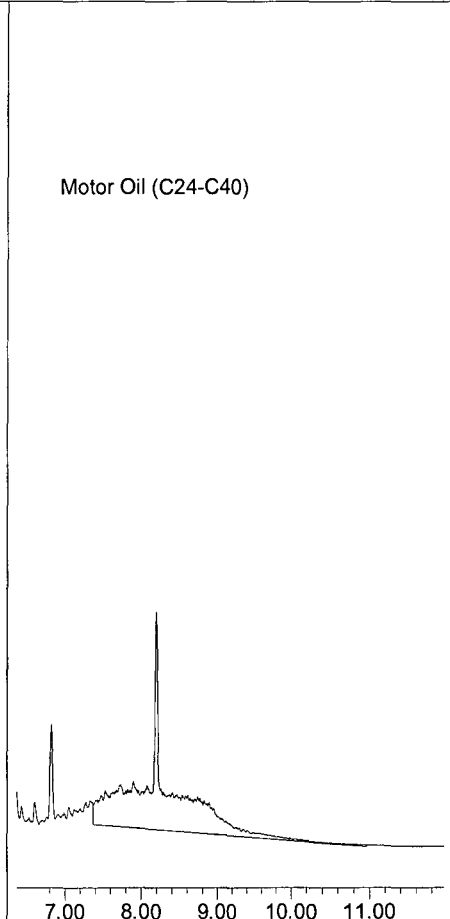
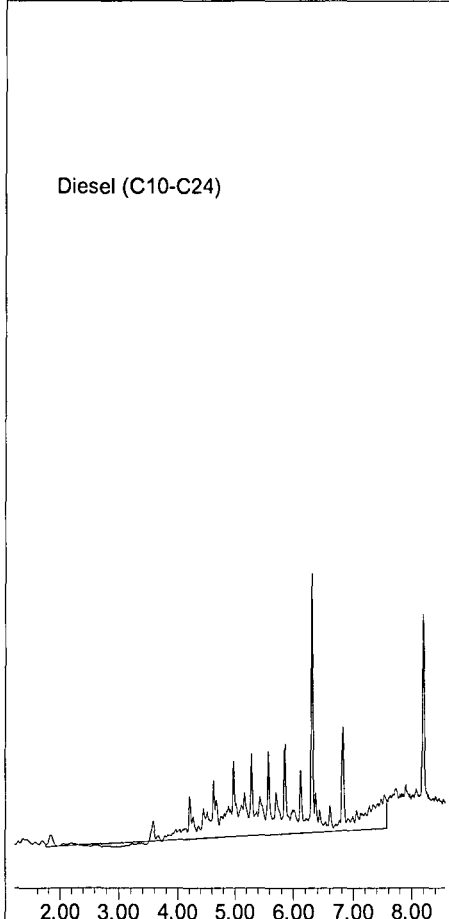
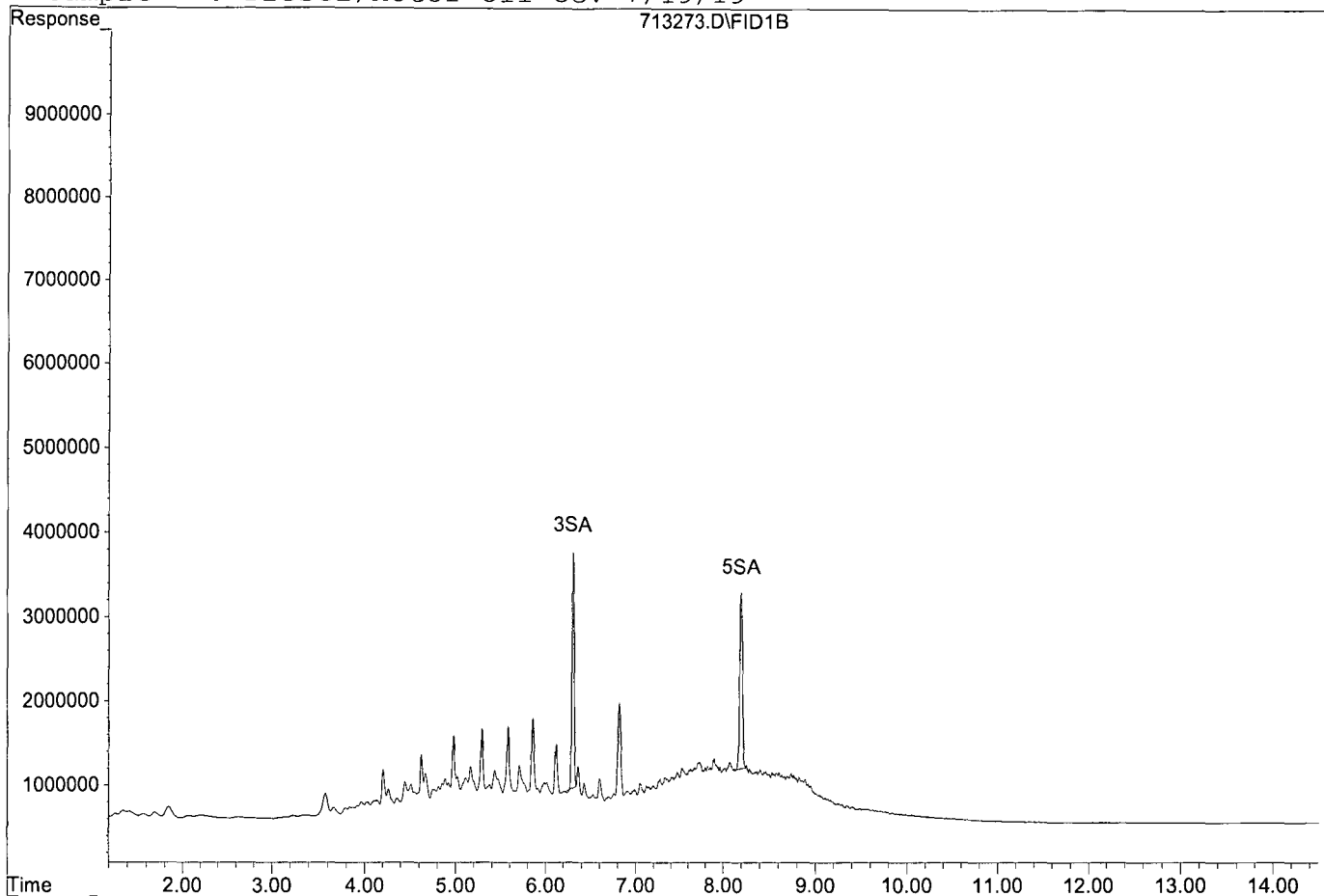
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	46138196	12.693 ppb
Surrogate Spike 37.500		Recovery =	33.85%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.20	46382473	12.602 ppb
Surrogate Spike 37.500		Recovery =	33.61%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	569329768	264.434 ppb
2) HBTM Motor Oil (C24-C40)	9.16	431259677	235.270 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190713\713273.D
Sample : Diesel/Motor Oil CCV 7/19/19



TPH Extractables
DOC0617

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: 89593

Case No: _____

Date Analyzed: 08/20/19

Matrix: Water

Instrument: Apollo

Initial Cal. Date: 06/17/19

Data File: 814148.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C24)	1351010	1251700	7.4	HATML	16
2	HBTM	Motor Oil (C24-C40)	916522	953724	4.1	HBTM	
3	SA	Ortho-Terphenyl(S)	1817470	2034020	12	SA	
4	SA	Octacosane(S)	1840270	2064850	12	SA	
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Average

8.9

Data File : G:\APOLLO\DATA\190814\814148.D Vial: 48
 Acq On : 8-20-19 23:46:53 Operator: DP
 Sample : Diesel/Motor Oil CCV 8/08/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 26 13:59 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190801\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Mon Aug 12 12:39:32 2019
 Response via : Multiple Level Calibration

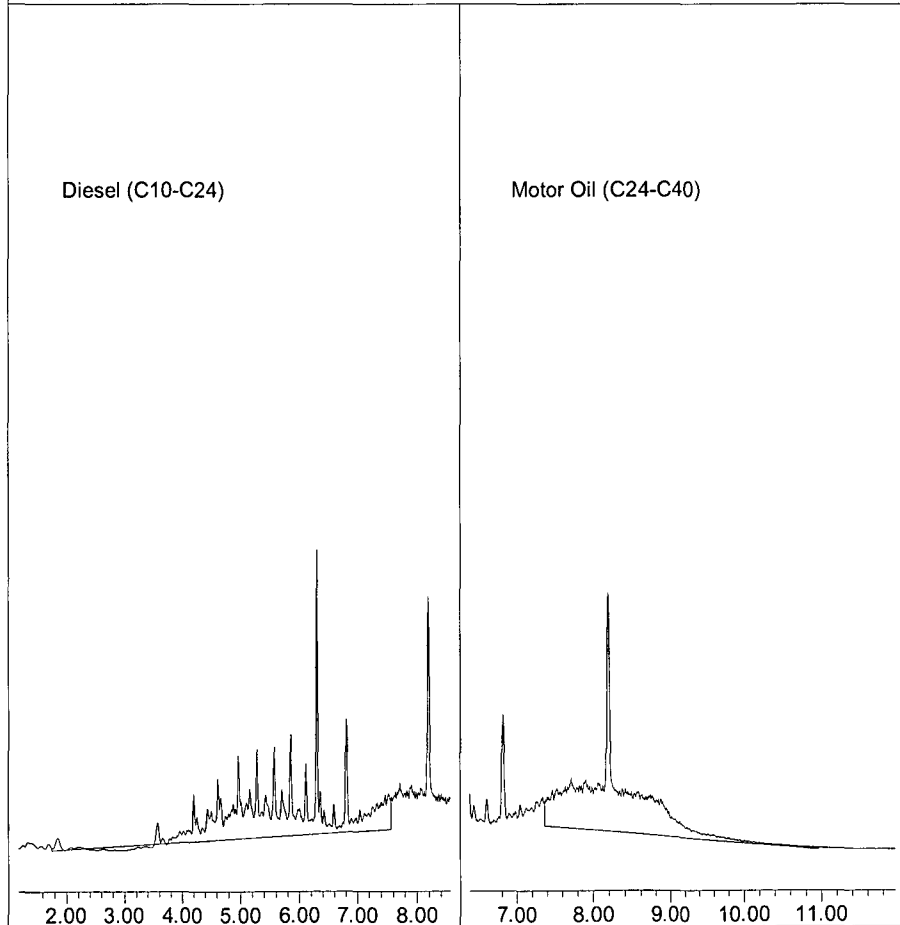
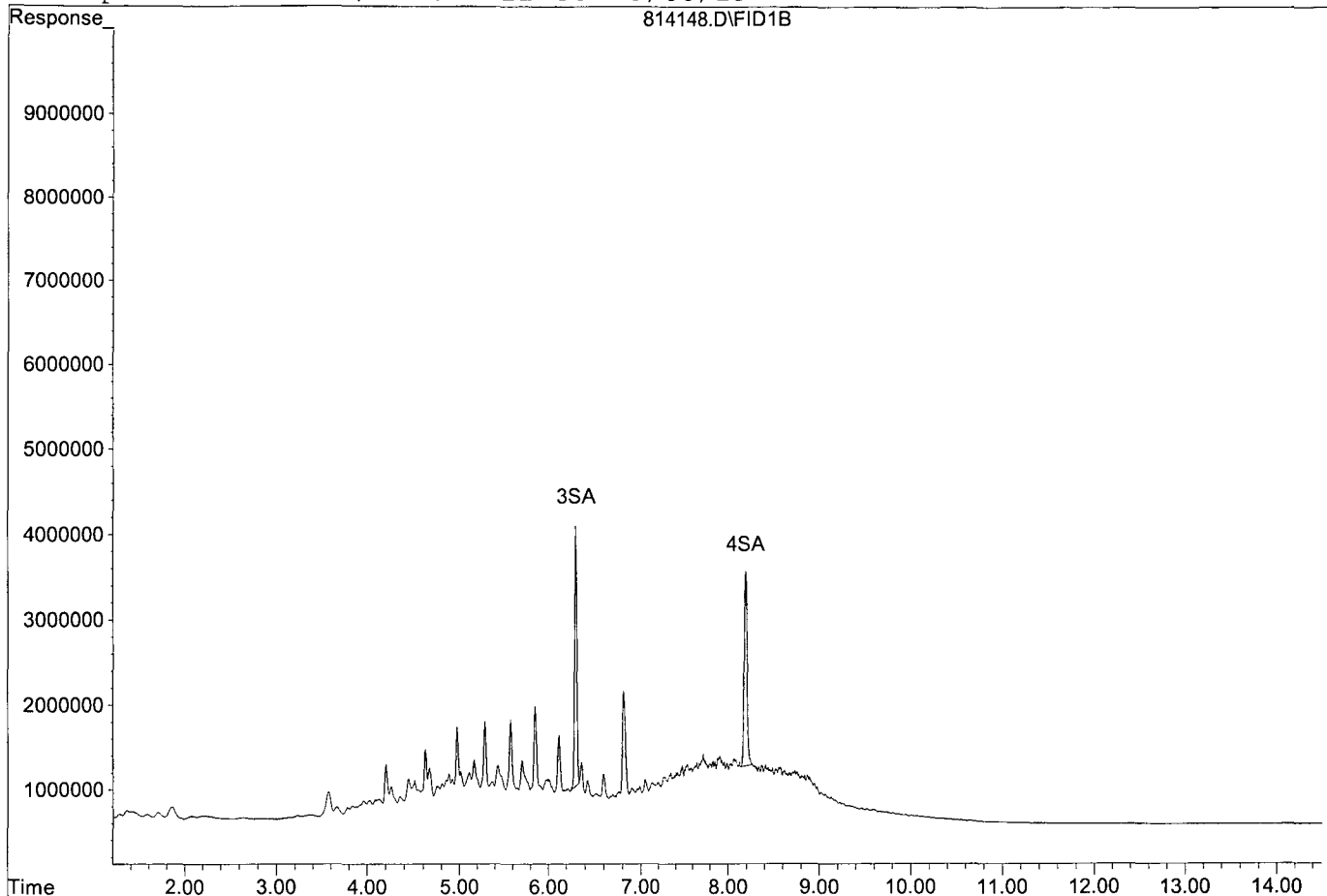
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.30	50850413	13.989 ppb
Surrogate Spike 30.000		Recovery =	46.63%
4) SA Octacosane(S)	8.19	51621139	14.025 ppb
Surrogate Spike 30.000		Recovery =	46.75%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	625852074	290.547 ppb
2) HBTM Motor Oil (C24-C40)	9.16	476861879	260.148 ppb
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\190814\814148.D
Sample : Diesel/Motor Oil CCV 8/08/19



TPH Extractables
DEC0807

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: 89593

Case No: _____

Date Analyzed: 08/21/19

Matrix: Water

Instrument: Apollo

Initial Cal. Date: 08/07/19

Data File: 814149.D

		Compound	MEAN	CCRF	%D	%Drift
1	SC	Decanoic Acid(S)	934753	1057380	13	SC
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Average

13.0

Data File : G:\APOLLO\DATA\190814\814149.D Vial: 49
 Acq On : 8-21-19 0:06:46 Operator: DP
 Sample : Decanoic Acid CCV 8/07/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 26 13:58 2019 Quant Results File: DEC0807.RES

Method : G:\APOLLO\DATA\190814\DEC0807.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Tue Aug 20 09:03:40 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

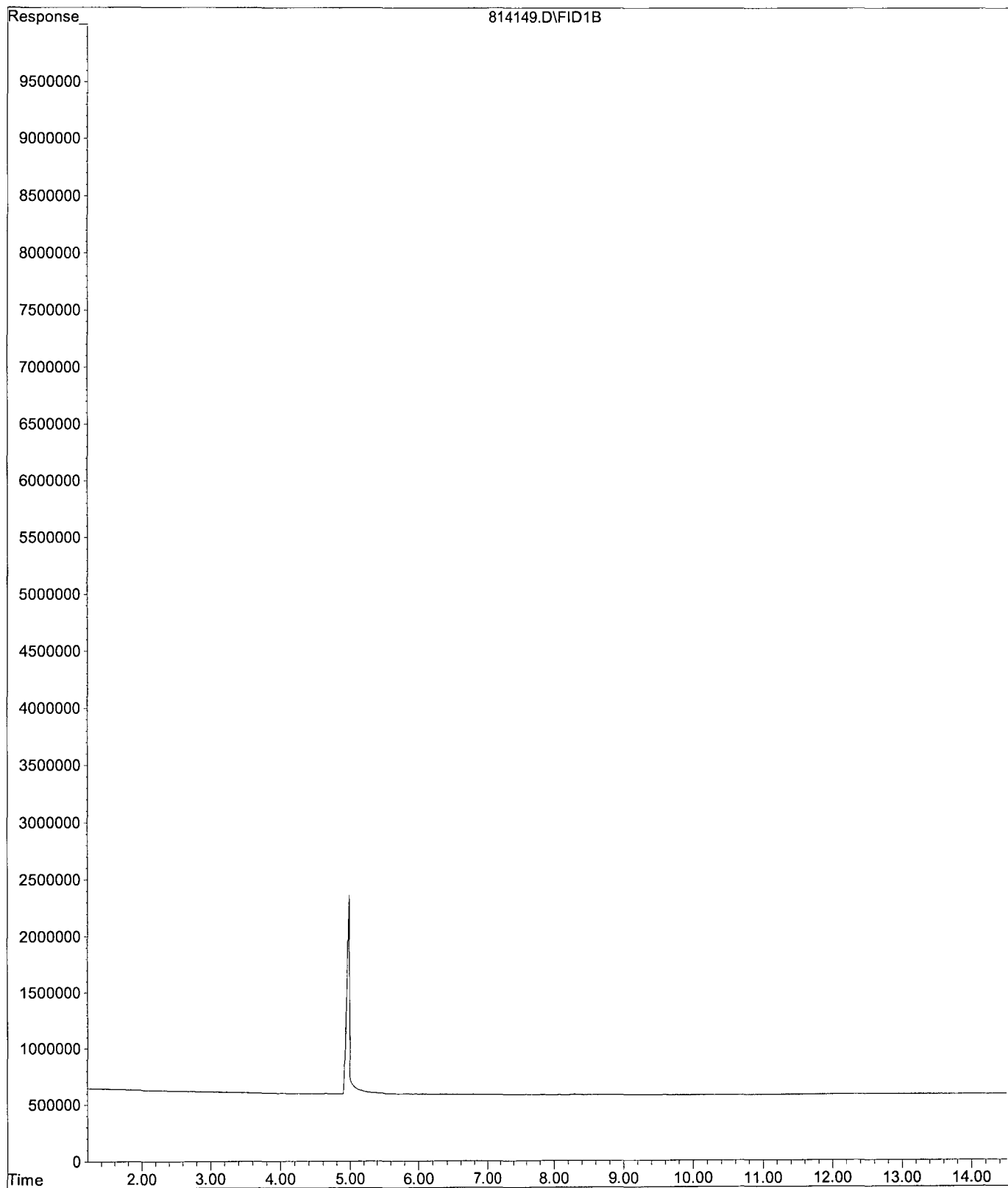
System Monitoring Compounds			
1) SC Decanoic Acid(S)	4.98	50754095	27.148 ppb
Surrogate Spike 24.000		Recovery =	113.12%

Target Compounds

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.
 814149.D DEC0807.M Mon Aug 26 15:38:57 2019

File : G:\APOLLO\DATA\190814\814149.D
Operator : DP
Acquired : 8-21-19 0:06:46 using AcqMethod TPHSN.M
Instrument : Apollo
Sample Name: Decanoic Acid CCV 8/07/19
Misc Info : water
Vial Number: 49



TPH Extractables
DOC0617

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: 89593

Case No: _____

Date Analyzed: 08/21/19

Matrix: Water

Instrument: Apollo

Initial Cal. Date: 06/17/19

Data File: 814158.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C24)	1351010	1246430	7.7	HATML	16
2	HBTM	Motor Oil (C24-C40)	916522	1003960	9.5	HBTM	
3	SA	Ortho-Terphenyl(S)	1817470	2089980	15	SA	
4	SA	Octacosane(S)	1840270	2106500	14	SA	
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Average

11.6

Data File : G:\APOLLO\DATA\190814\814158.D Vial: 58
 Acq On : 8-21-19 3:04:13 Operator: DP
 Sample : Diesel/Motor Oil CCV 8/08/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 26 15:27 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190801\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Mon Aug 12 12:39:32 2019
 Response via : Multiple Level Calibration

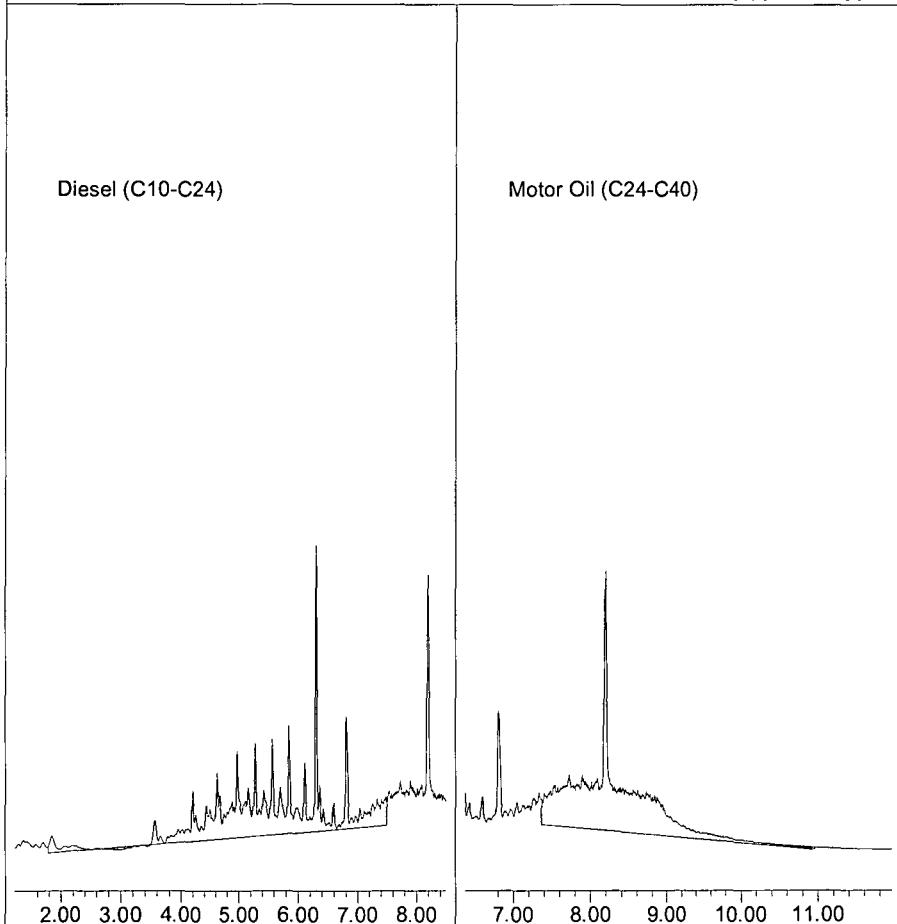
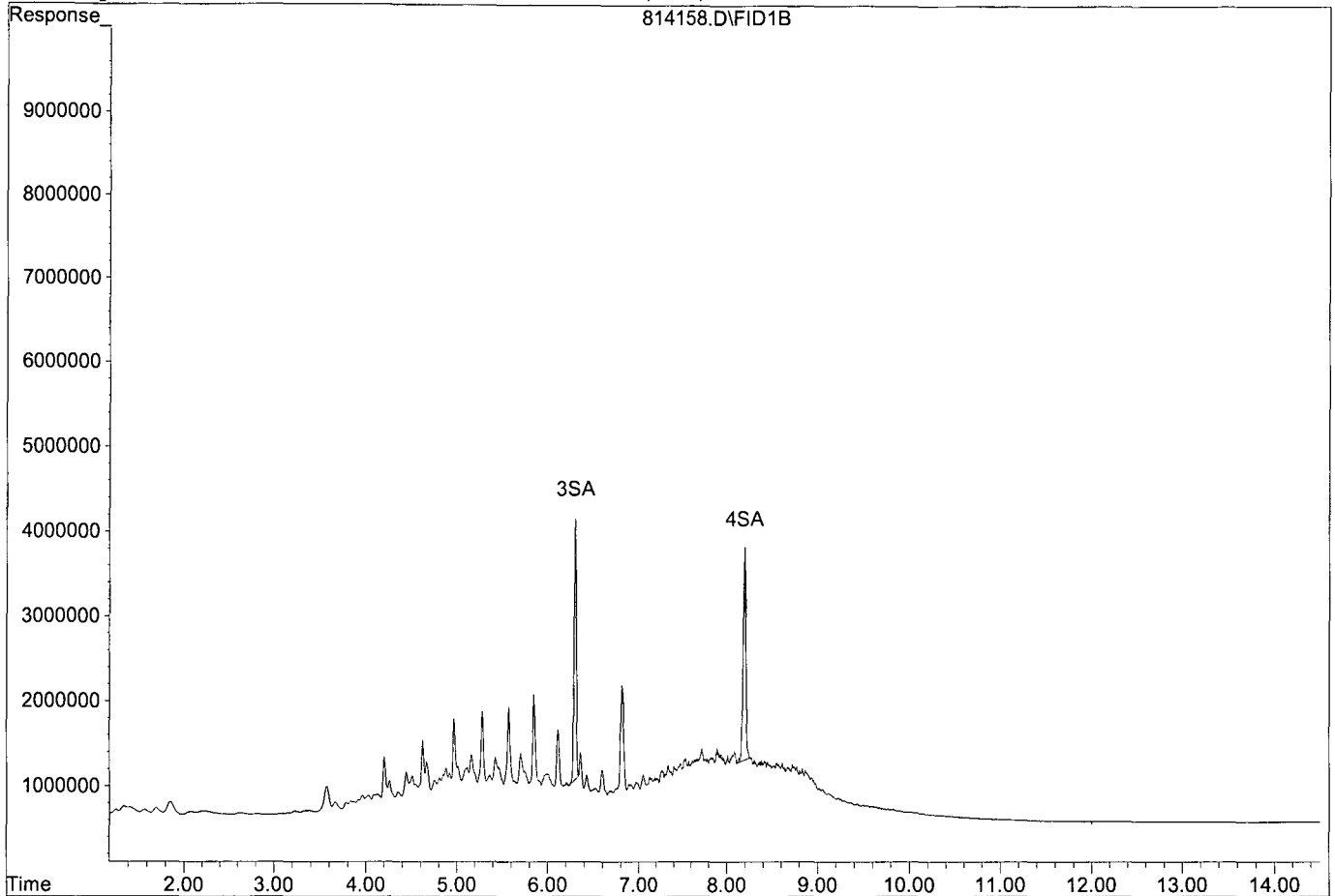
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.30	52249438	14.374 ppb
Surrogate Spike 30.000		Recovery =	47.91%
4) SA Octacosane(S)	8.19	52662624	14.308 ppb
Surrogate Spike 30.000		Recovery =	47.69%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	623216443	289.329 ppb
2) HBTM Motor Oil (C24-C40)	9.16	501979549	273.850 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190814\814158.D
Sample : Diesel/Motor Oil CCV 8/08/19



TPH Extractables
DEC0807

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: 89593

Case No: _____

Date Analyzed: 08/21/19

Matrix: Water

Instrument: Apollo

Initial Cal. Date: 08/07/19

Data File: 814159.D

		Compound	MEAN	CCRF	%D	%Drift
1	SC	Decanoic Acid(S)	934753	1023880	9.5	SC
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
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23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						

Average

9.5

Data File : G:\APOLLO\DATA\190814\814159.D Vial: 59
Acq On : 8-21-19 3:24:06 Operator: DP
Sample : Decanoic Acid CCV 8/07/19 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 26 14:02 2019 Quant Results File: DEC0807.RES

Method : G:\APOLLO\DATA\190814\DEC0807.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Tue Aug 20 09:03:40 2019
Response via : Multiple Level Calibration

Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units

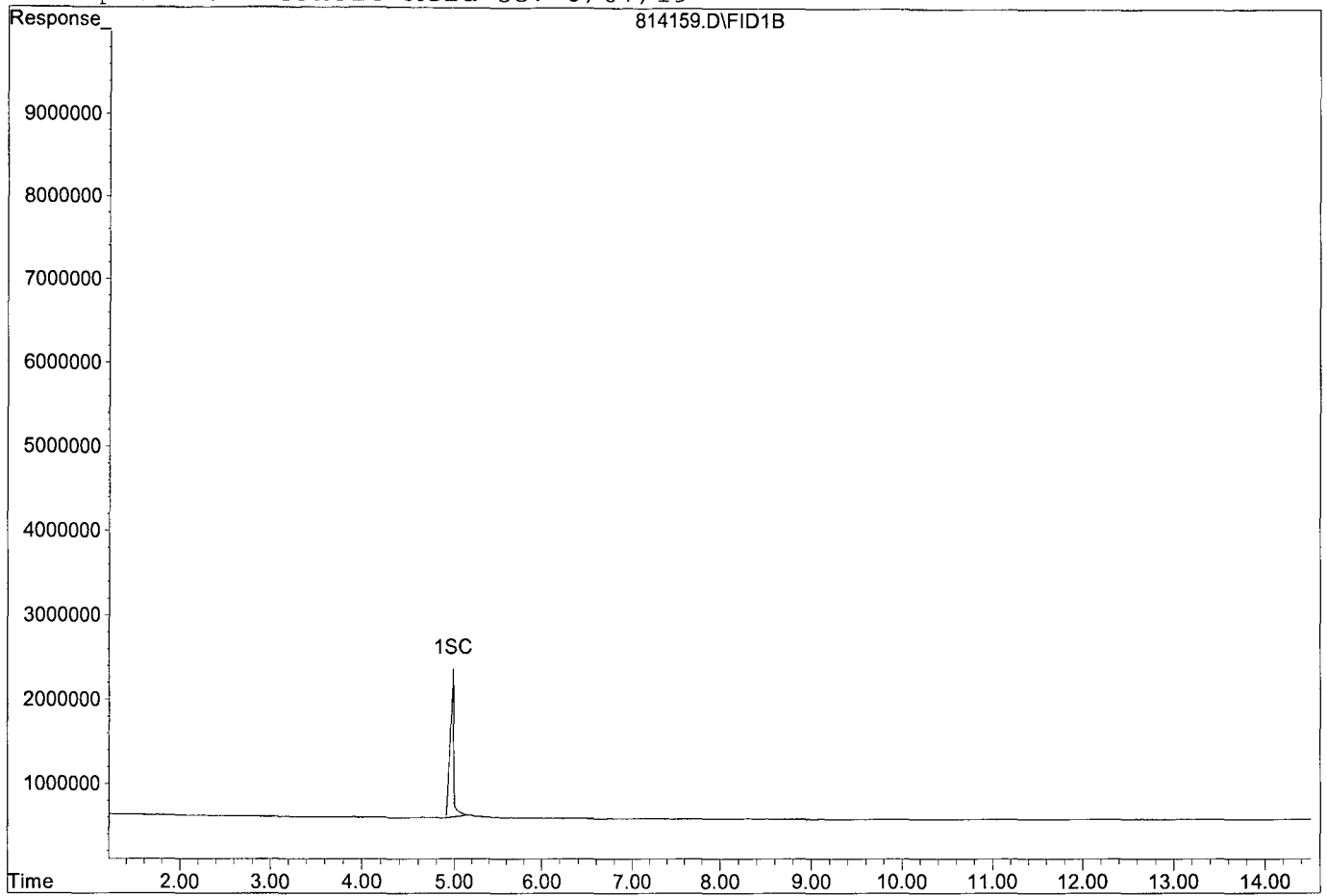
System Monitoring Compounds			
1) SC Decanoic Acid(S)	4.98	49146130	26.288 ppb
Surrogate Spike 24.000		Recovery =	109.53%

Target Compounds

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190814\814159.D
Sample : Decanoic Acid CCV 8/07/19



ORGANICS
Raw Data

Data File : G:\APOLLO\DATA\190713\713262.D Vial: 62
 Acq On : 7-30-19 21:17:53 Operator: DP
 Sample : AZ95329W12 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 8 10:02 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

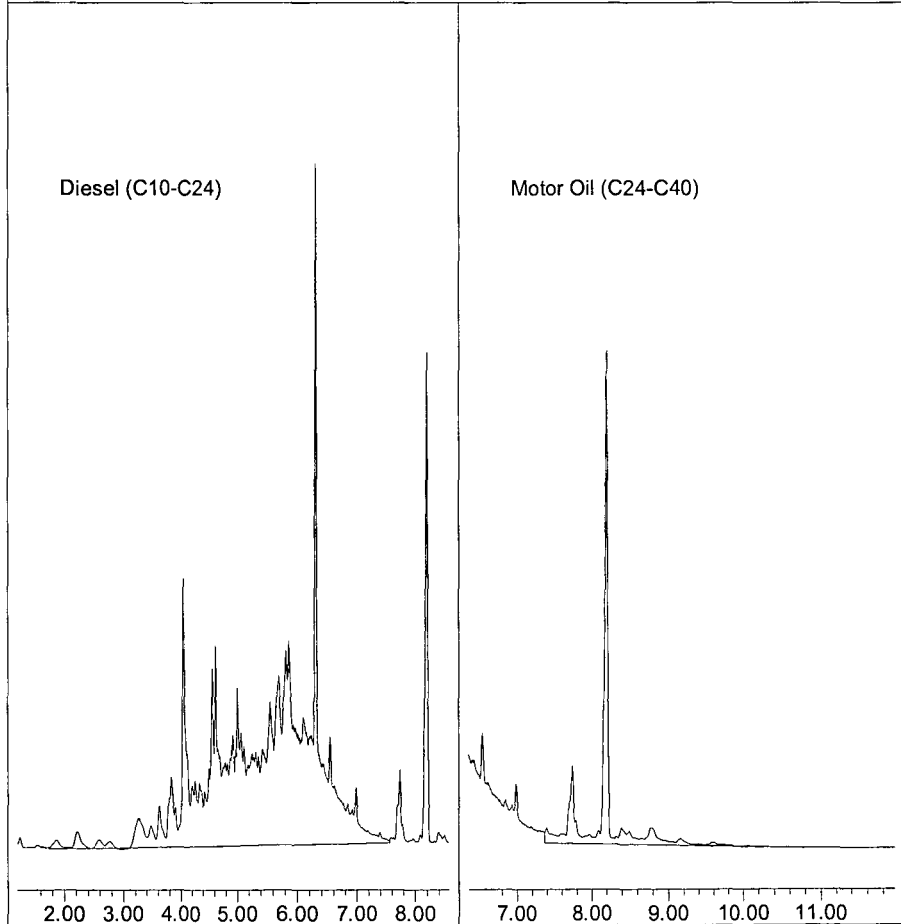
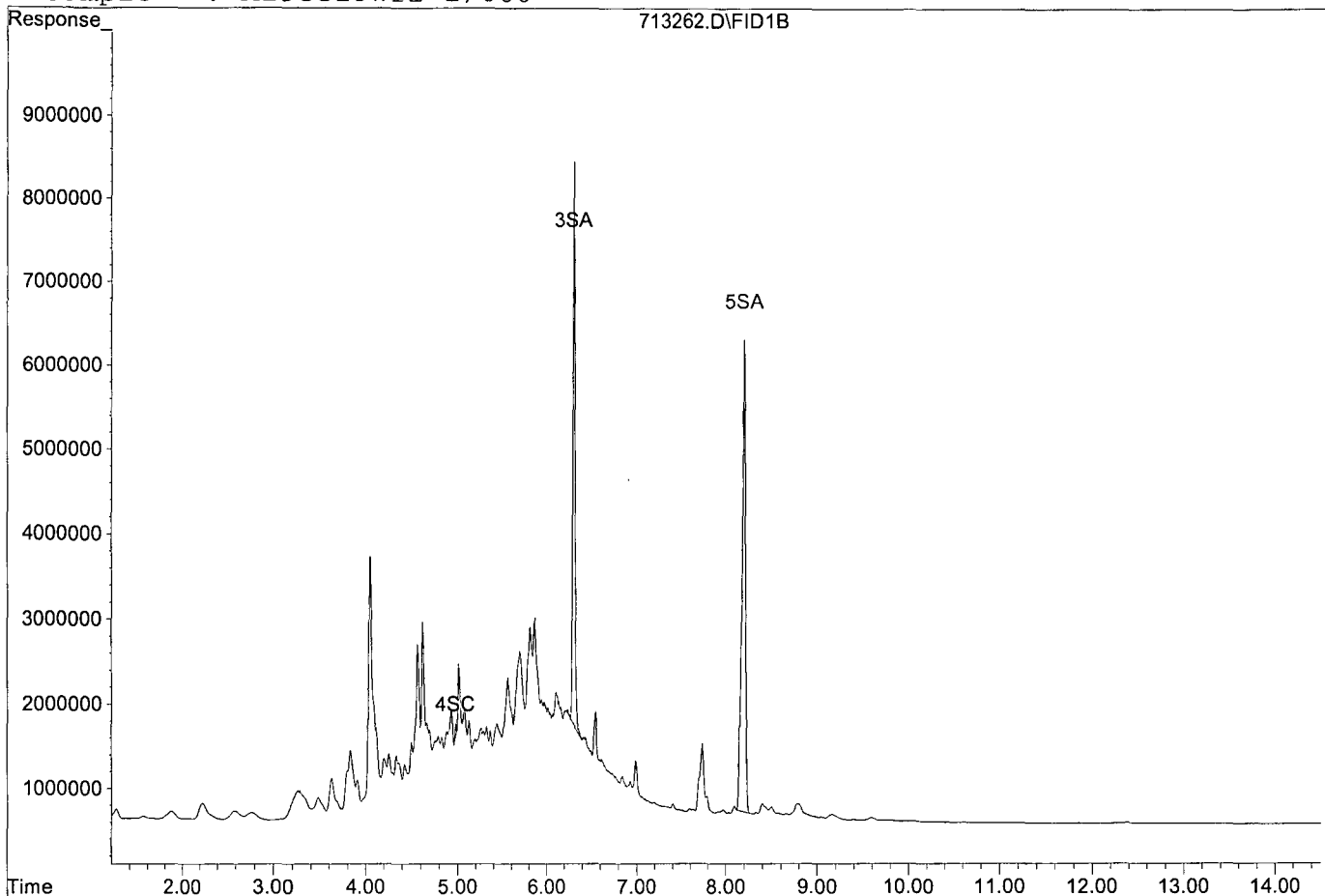
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	111612879	76.764 ppb
Surrogate Spike 93.750		Recovery =	81.88%
4) SC Decanoic Acid(S)	4.98	1242825	9.682 ppb
Surrogate Spike 60.000		Recovery =	16.14%
5) SA Octacosane(S)	8.20	143895406	97.741 ppb
Surrogate Spike 93.750		Recovery =	104.26%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	2062024537	2385.096 ppb
2) HBTM Motor Oil (C24-C40)	9.16	142809999	194.772 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190713\713262.D
Sample : AZ95329W12 2/800



Data File : G:\APOLLO\DATA\190713\713263.D Vial: 63
 Acq On : 7-30-19 21:37:51 Operator: DP
 Sample : AZ95330W12 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 8 10:02 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

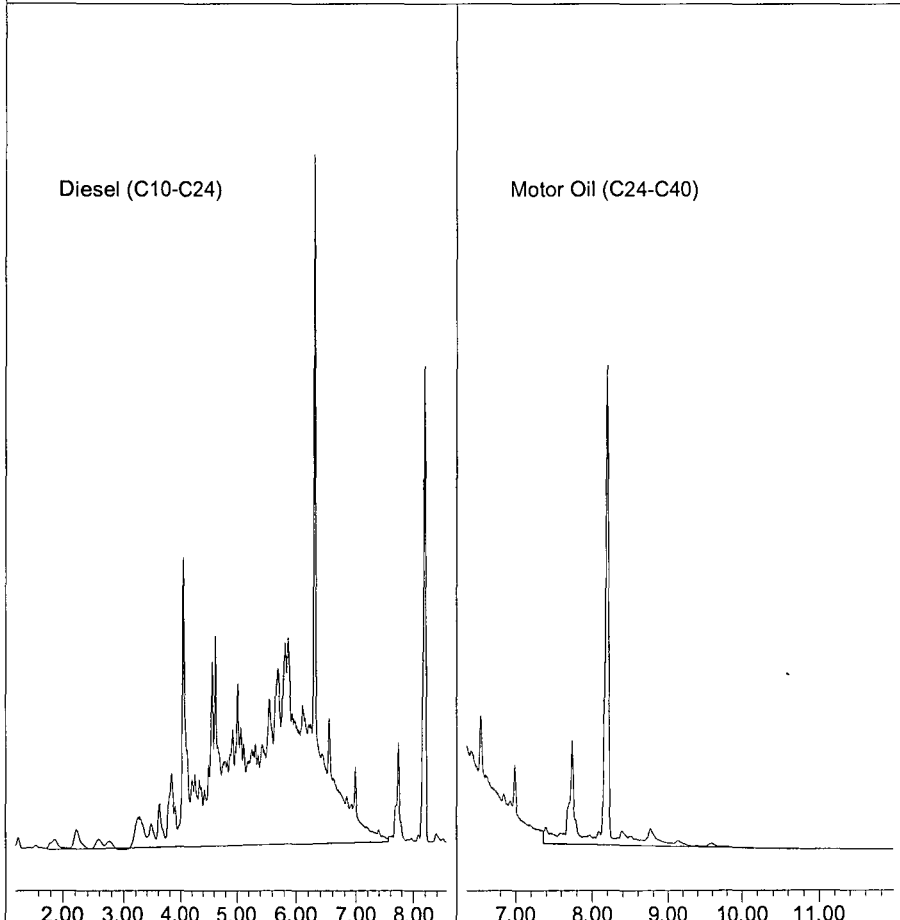
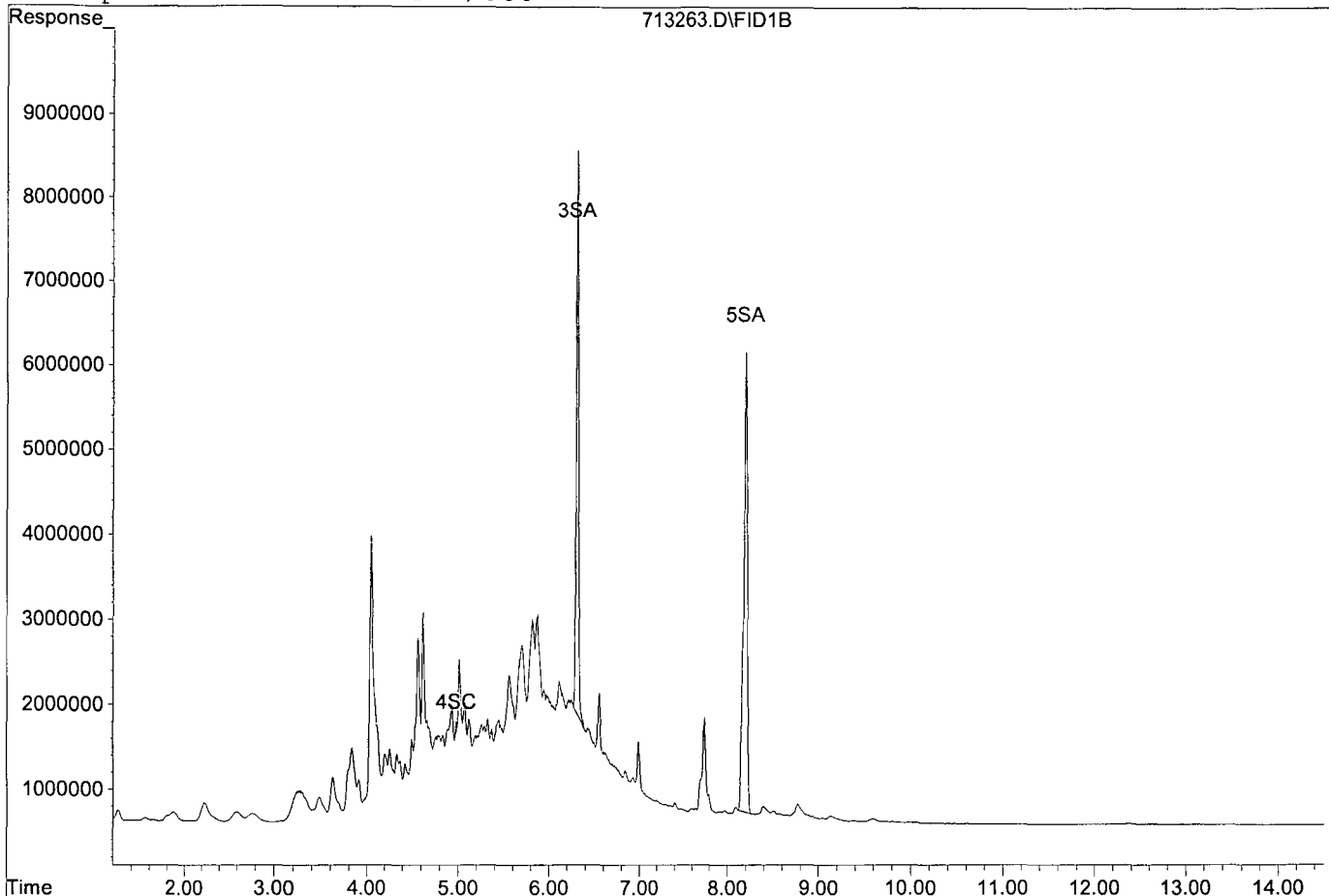
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	113035377	77.742 ppb
Surrogate Spike 93.750		Recovery =	82.92%
4) SC Decanoic Acid(S)	4.98	1036057	9.238 ppb
Surrogate Spike 60.000		Recovery =	15.40%
5) SA Octacosane(S)	8.20	150894316	102.495 ppb
Surrogate Spike 93.750		Recovery =	109.33%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	2209601595	2555.543 ppb
2) HBTM Motor Oil (C24-C40)	9.16	146118409	199.284 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190713\713263.D
Sample : AZ95330W12 2/800



Data File : G:\APOLLO\DATA\190713\713264.D Vial: 64
 Acq On : 7-30-19 21:57:49 Operator: DP
 Sample : AZ95332W13 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 8 10:02 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

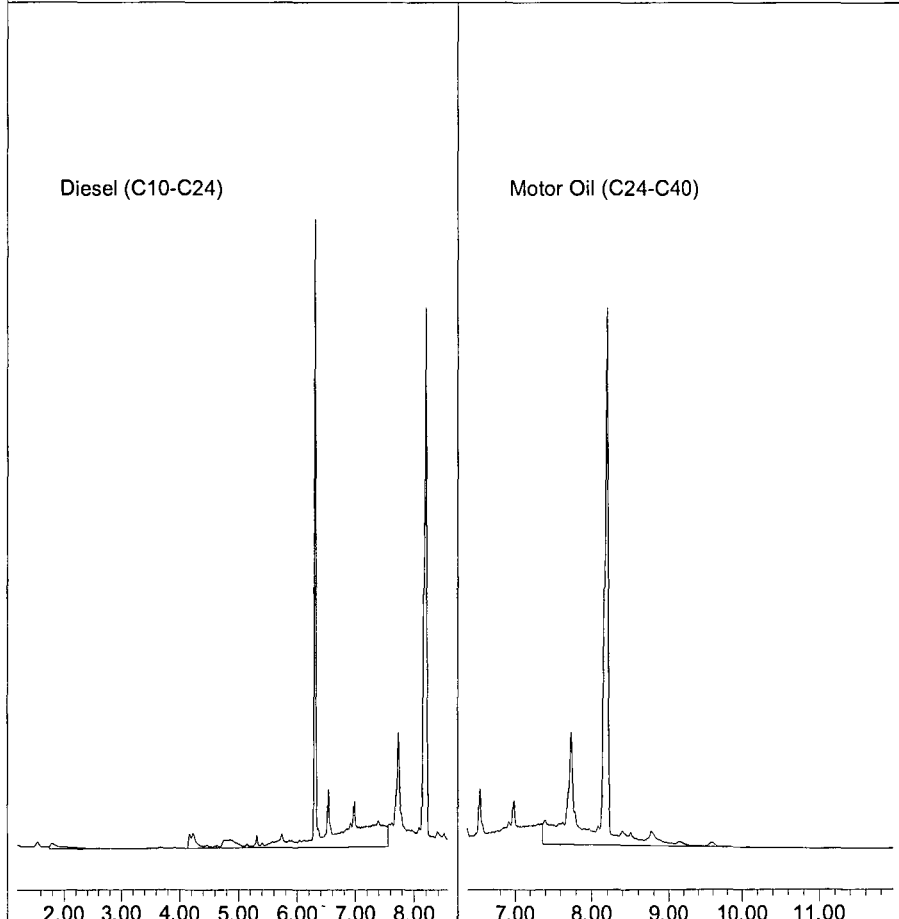
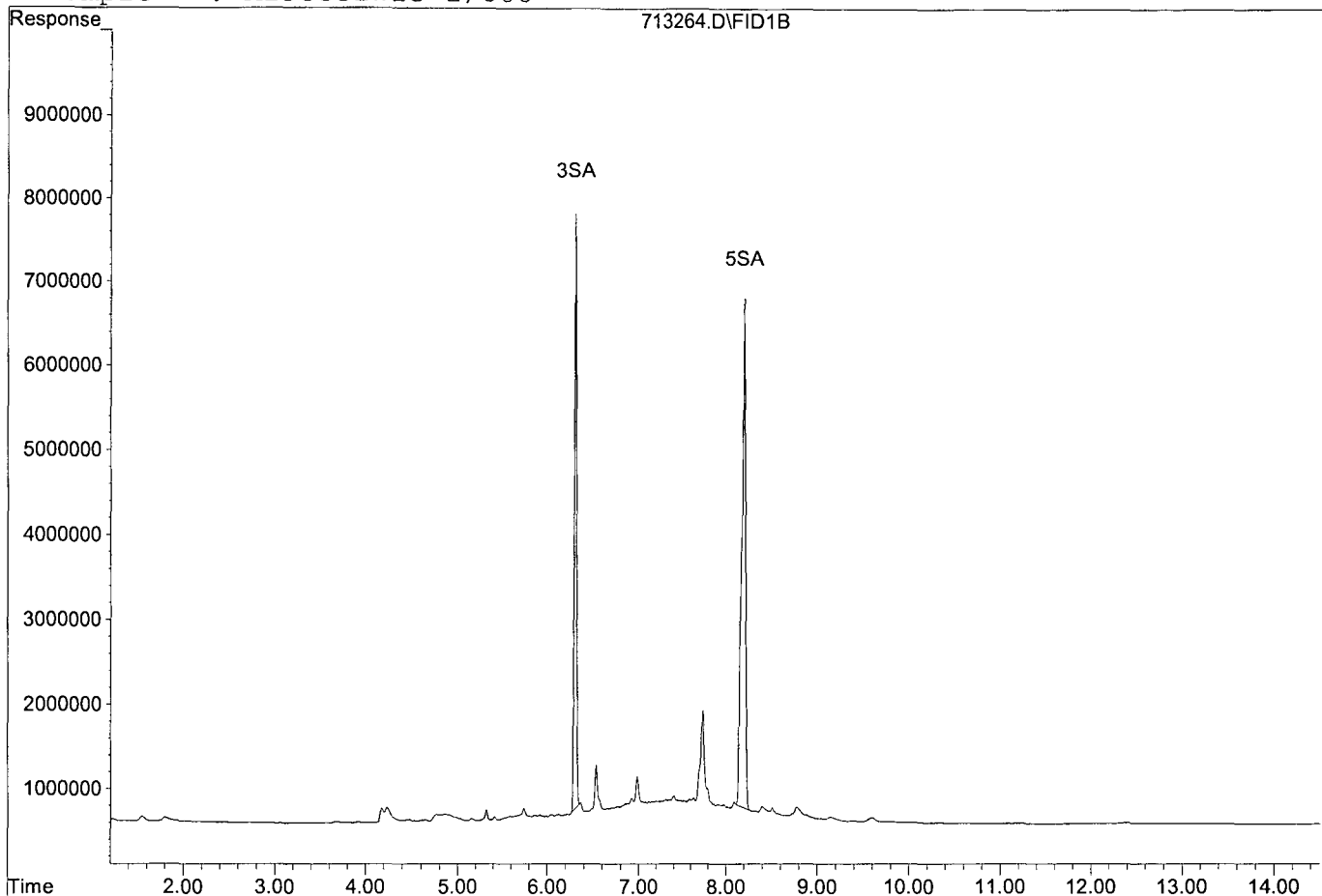
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	115426278	79.387 ppb
Surrogate Spike 93.750		Recovery =	84.68%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb
Surrogate Spike 60.000		Recovery =	0.00%
5) SA Octacosane(S)	8.20	173252272	117.681 ppb
Surrogate Spike 93.750		Recovery =	125.53%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	258421247	301.997 ppb
2) HBTM Motor Oil (C24-C40)	9.16	194710996	265.557 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190713\713264.D
Sample : AZ95332W13 2/800



Data File : G:\APOLLO\DATA\190713\713265.D Vial: 65
 Acq On : 7-30-19 22:17:37 Operator: DP
 Sample : AZ95334W14 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 8 10:57 2019 Quant Results File: DOC0617.RES

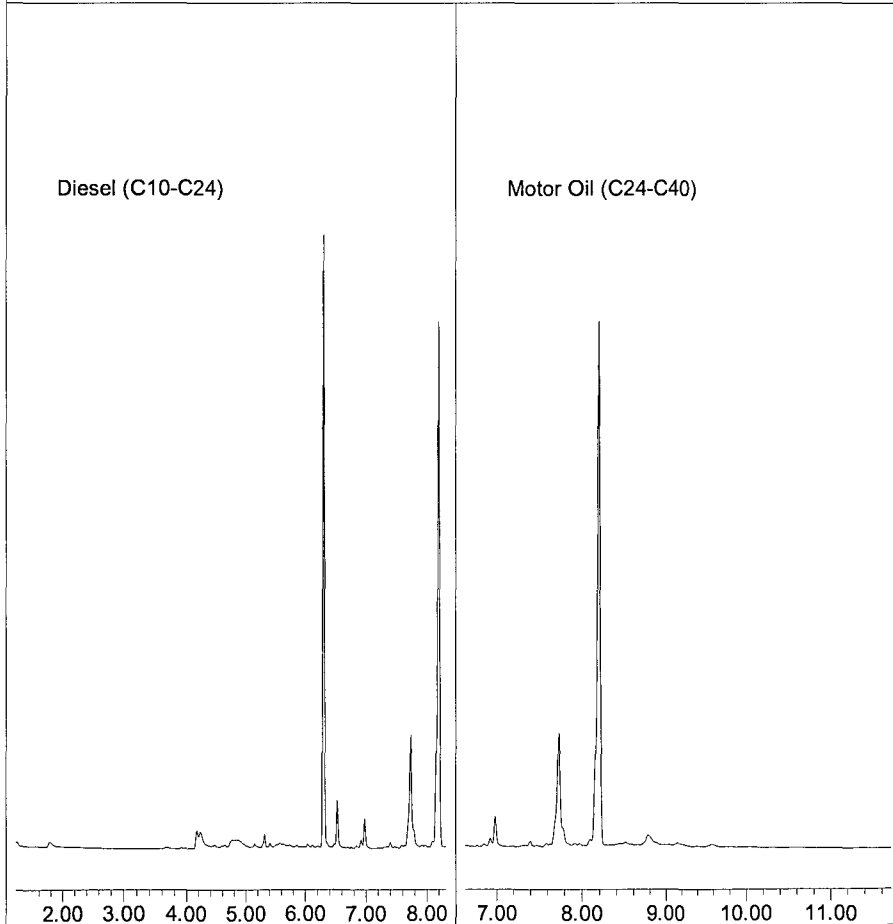
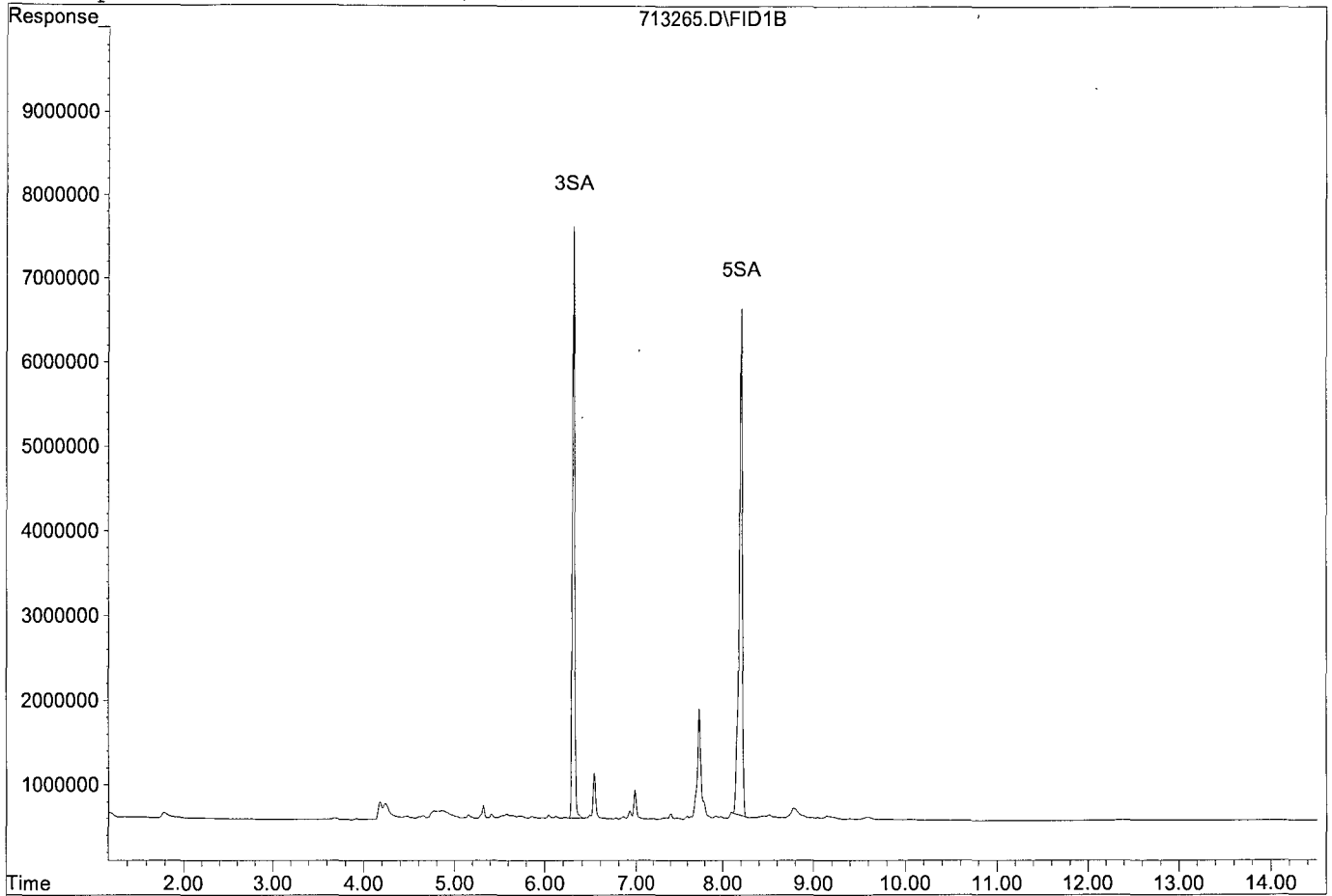
Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	6.31	118764251	81.682	ppb
Surrogate Spike 93.750		Recovery =	87.13%	
4) SC Decanoic Acid(S)	0.00	0	N.D.	ppb
Surrogate Spike 60.000		Recovery =	0.00%	
5) SA Octacosane(S)	8.20	138878072	94.333	ppb
Surrogate Spike 93.750		Recovery =	100.62%	
Target Compounds				
Target Compounds				
1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb

Quantitation Report

Data File: G:\APOLLO\DATA\190713\713265.D
Sample : AZ95334W14 2/800



Data File : G:\APOLLO\DATA\190713\713266.D Vial: 66
 Acq On : 7-30-19 22:37:39 Operator: DP
 Sample : AZ95336W14 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 8 10:58 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

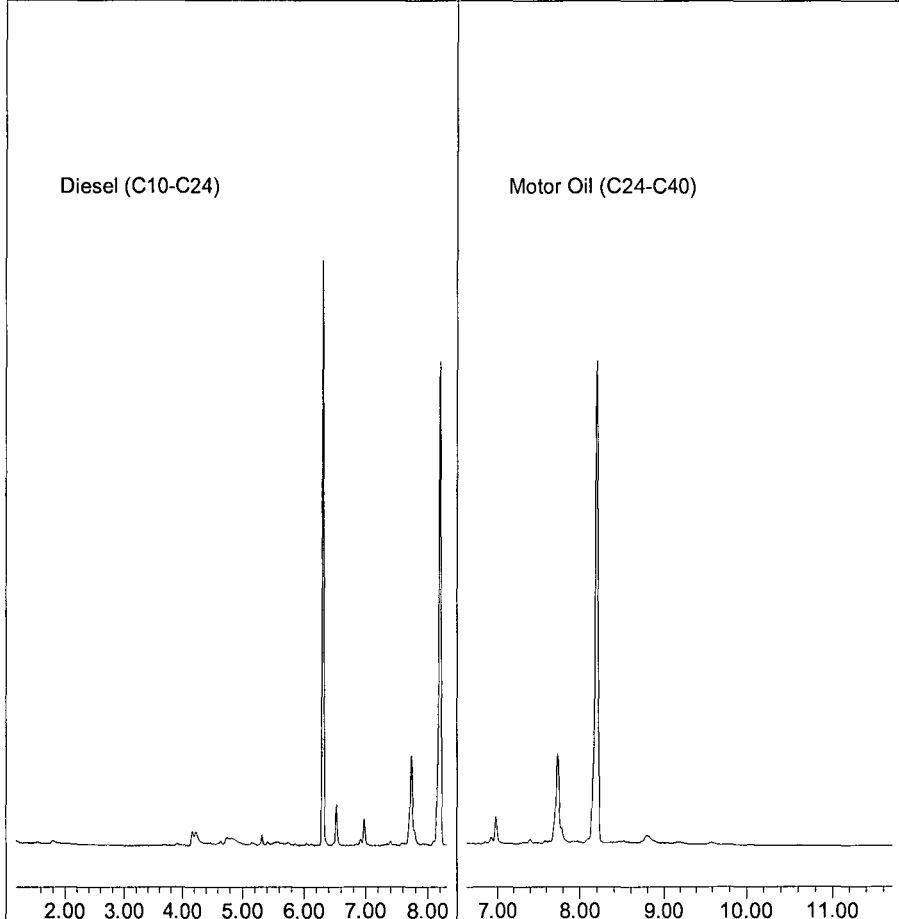
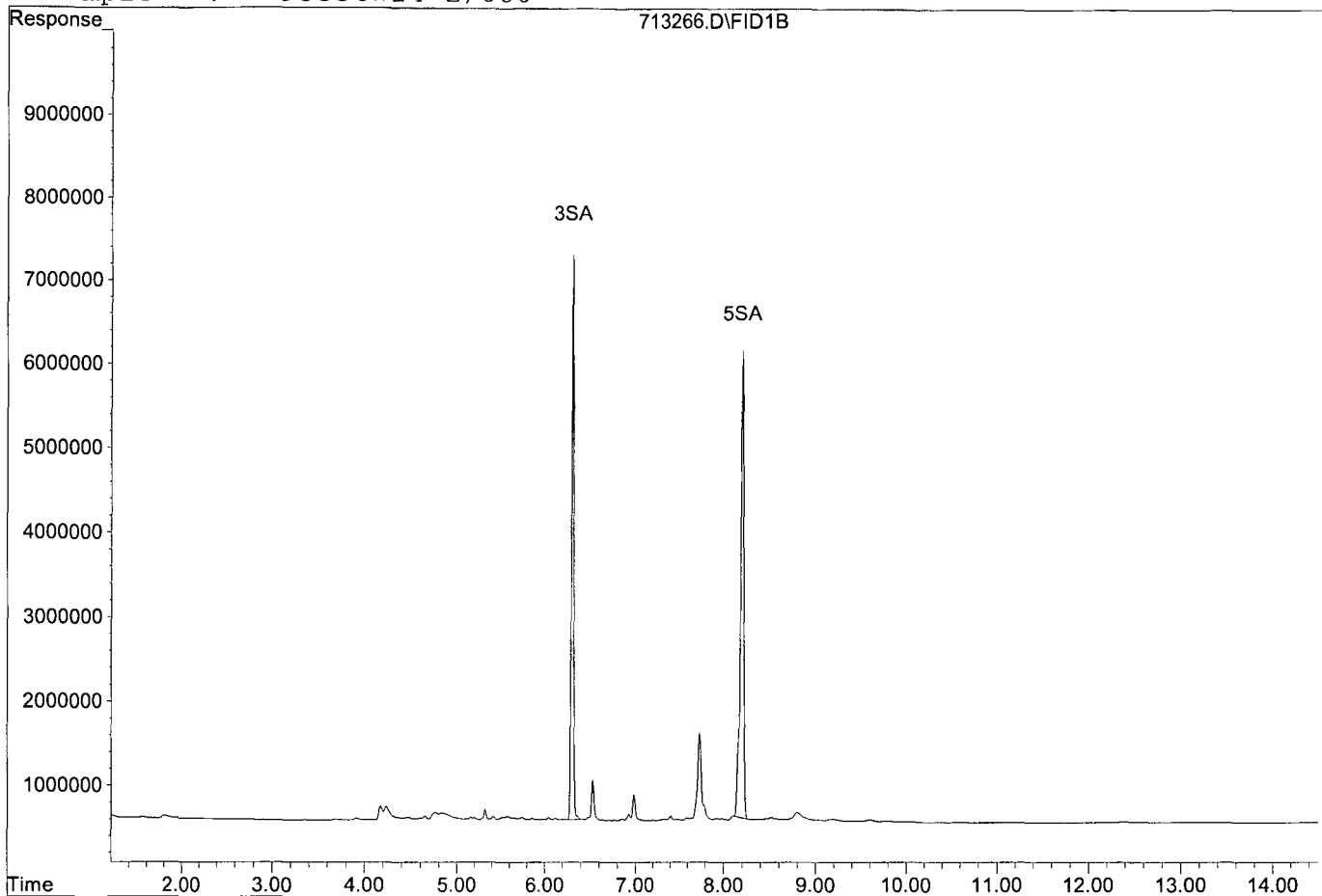
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units

System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	6.31	112476621	77.358	ppb
Surrogate Spike 93.750		Recovery =	82.52%	
4) SC Decanoic Acid(S)	0.00	0	N.D.	ppb
Surrogate Spike 60.000		Recovery =	0.00%	
5) SA Octacosane(S)	8.20	134139271	91.114	ppb
Surrogate Spike 93.750		Recovery =	97.19%	
Target Compounds				
Target Compounds				
1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb

Data File: G:\APOLLO\DATA\190713\713266.D

Sample : AZ95336W14 2/800



Data File : G:\APOLLO\DATA\190713\713268.D Vial: 68
 Acq On : 7-30-19 23:16:43 Operator: DP
 Sample : AZ95338W12 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 8 10:58 2019 Quant Results File: DOC0617.RES

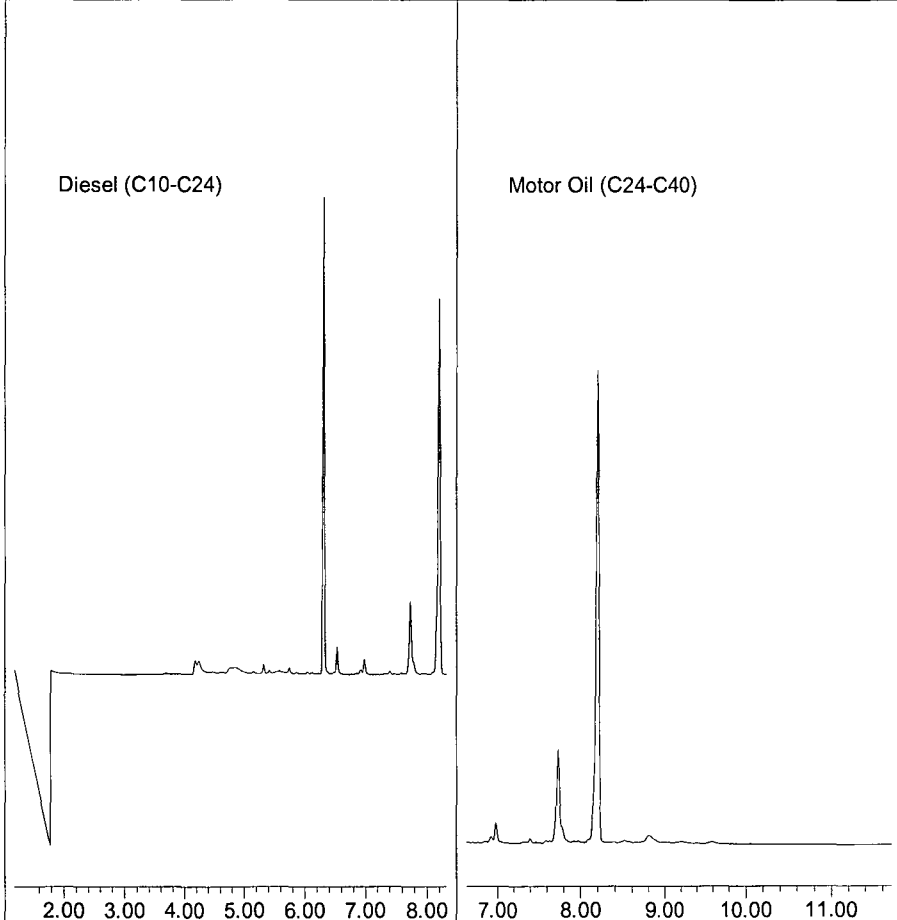
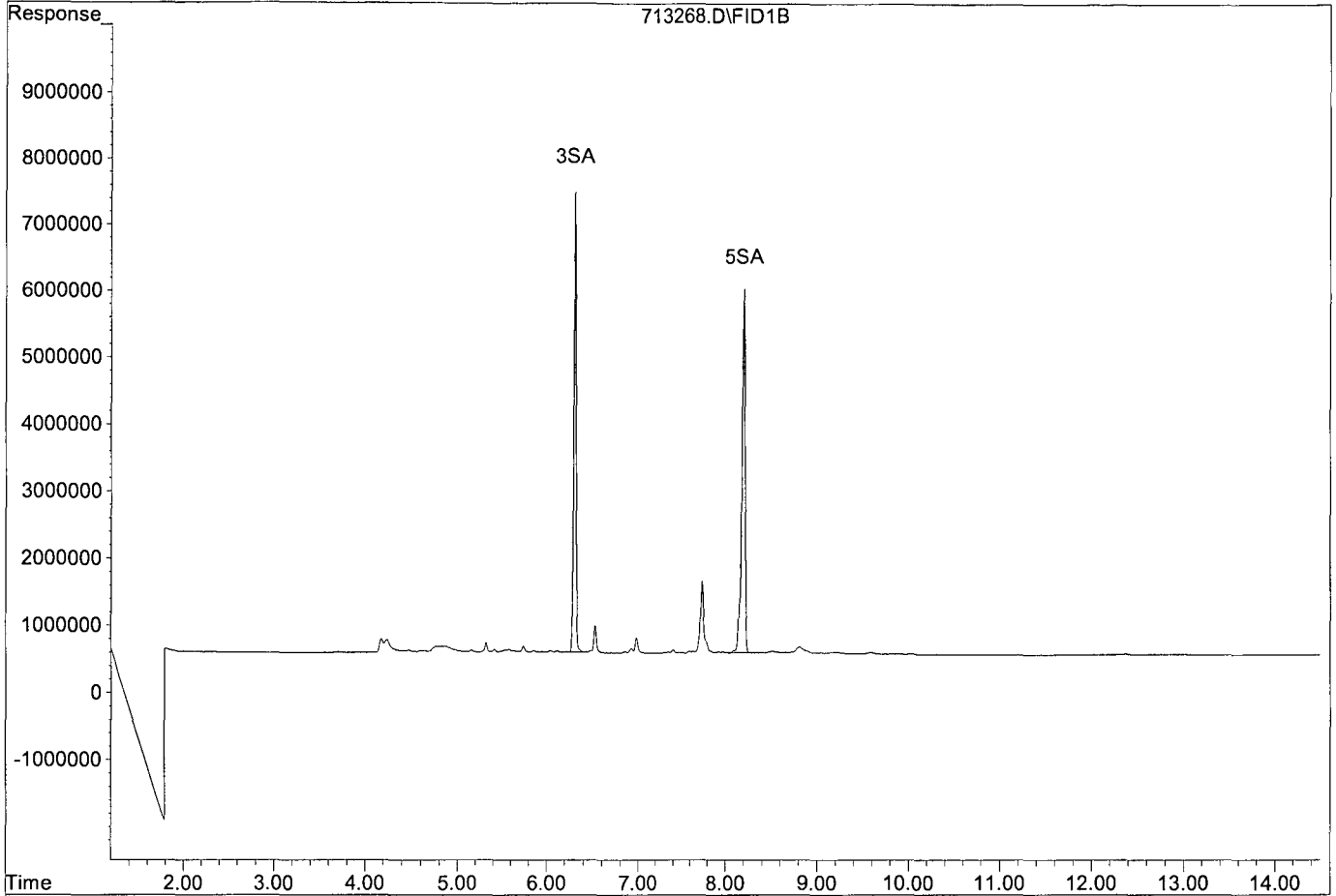
Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	6.31	116729551	80.283	ppb
Surrogate Spike 93.750		Recovery =	85.64%	
4) SC Decanoic Acid(S)	0.00	0	N.D.	ppb
Surrogate Spike 60.000		Recovery =	0.00%	
5) SA Octacosane(S)	8.20	132858305	90.244	ppb
Surrogate Spike 93.750		Recovery =	96.26%	
Target Compounds				
Target Compounds				
1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb

Quantitation Report

Data File: G:\APOLLO\DATA\190713\713268.D
Sample : AZ95338W12 2/800



Data File : G:\APOLLO\DATA\190814\814153.D Vial: 53
 Acq On : 8-21-19 1:25:13 Operator: DP
 Sample : AZ95329W12 2/800 SGC Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 26 14:07 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190814\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Mon Aug 12 12:39:32 2019
 Response via : Multiple Level Calibration

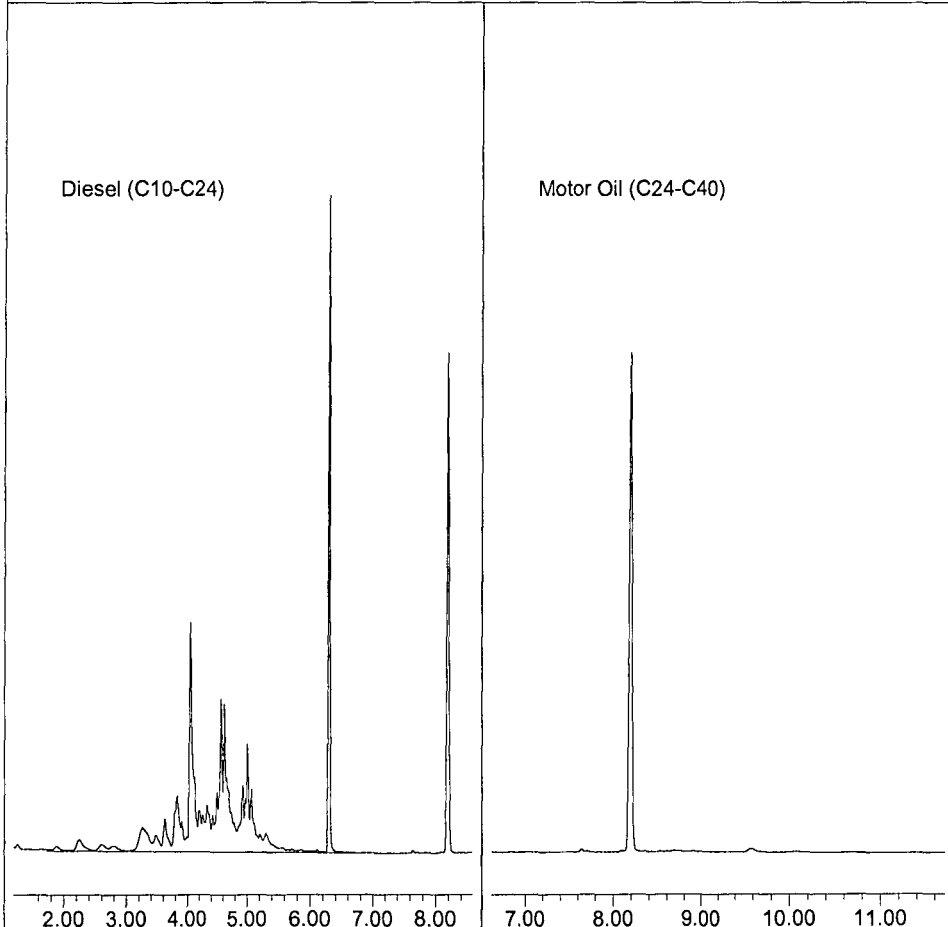
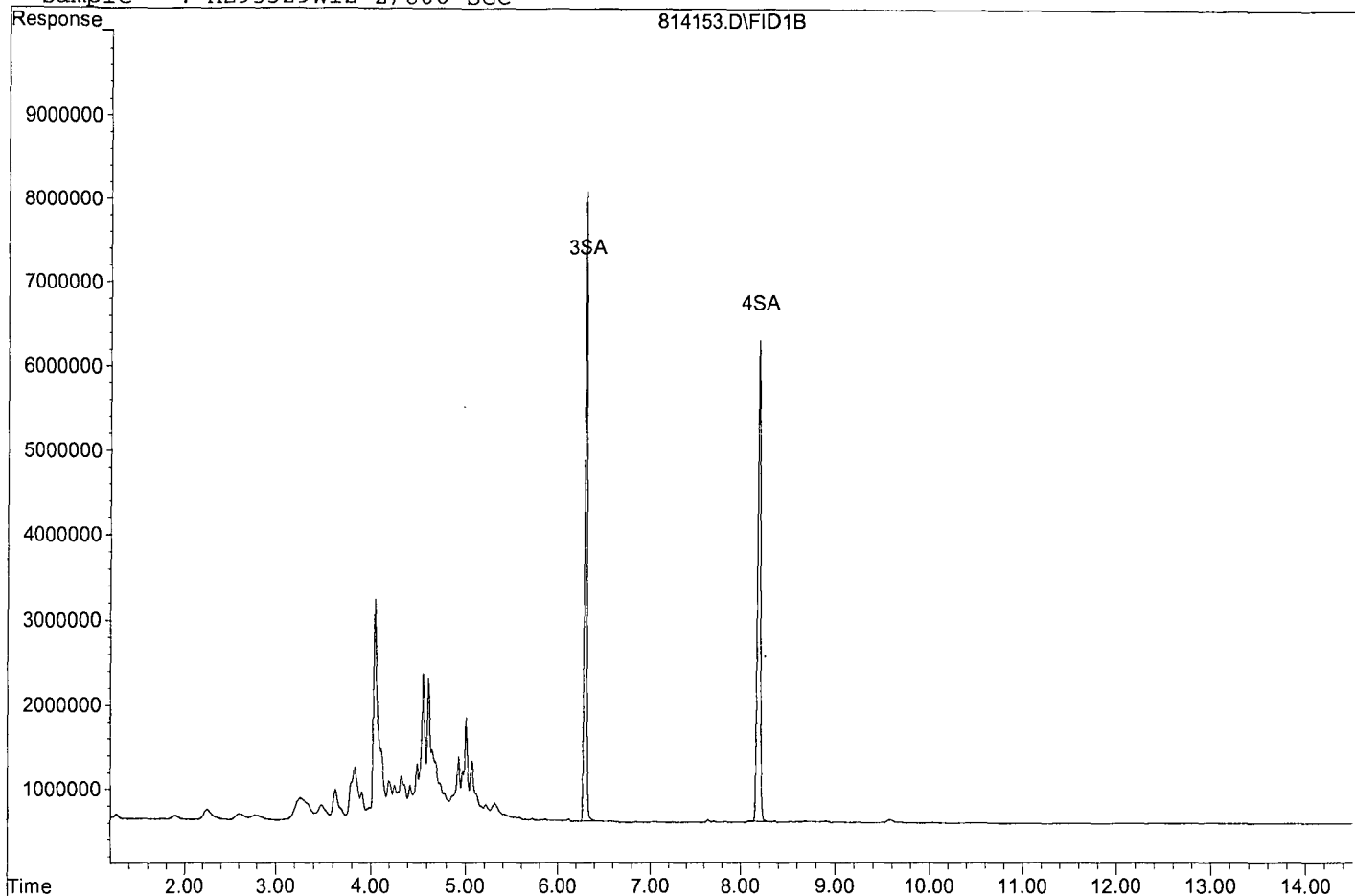
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.30	124035291	85.308 ppb
Surrogate Spike 75.000		Recovery =	113.74%
4) SA Octacosane(S)	8.19	121964003	82.844 ppb
Surrogate Spike 75.000		Recovery =	110.46%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	590171967	685.158 ppb
Target Compounds			
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D. ppb

Quantitation Report

Data File: G:\APOLLO\DATA\190814\814153.D
Sample : AZ95329W12 2/800 SGC



Data File : G:\APOLLO\DATA\190814\814153.D Vial: 53
 Acq On : 8-21-19 1:25:13 Operator: DP
 Sample : AZ95329W12 2/800 SGC Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 26 14:15 2019 Quant Results File: DEC0807.RES

Method : G:\APOLLO\DATA\190814\DEC0807.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Tue Aug 20 09:03:40 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 60.000		Recovery =	0.00%

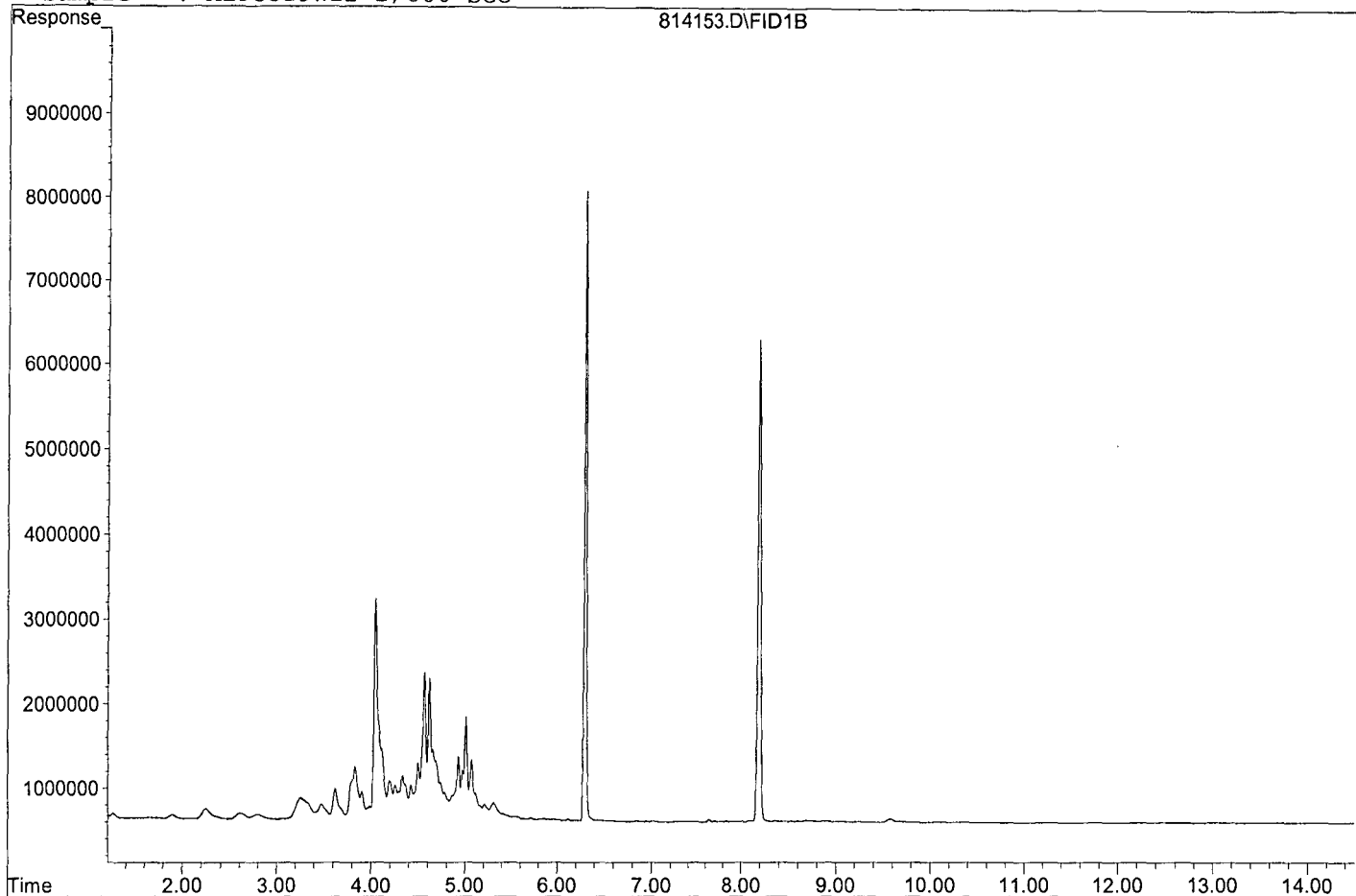
Target Compounds

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190814\814153.D

Sample : AZ95329W12 2/800 SGC



Data File : G:\APOLLO\DATA\190814\814154.D Vial: 54
 Acq On : 8-21-19 1:45:09 Operator: DP
 Sample : AZ95330W12 2/800 SGC Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 26 14:06 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190814\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Mon Aug 12 12:39:32 2019
 Response via : Multiple Level Calibration

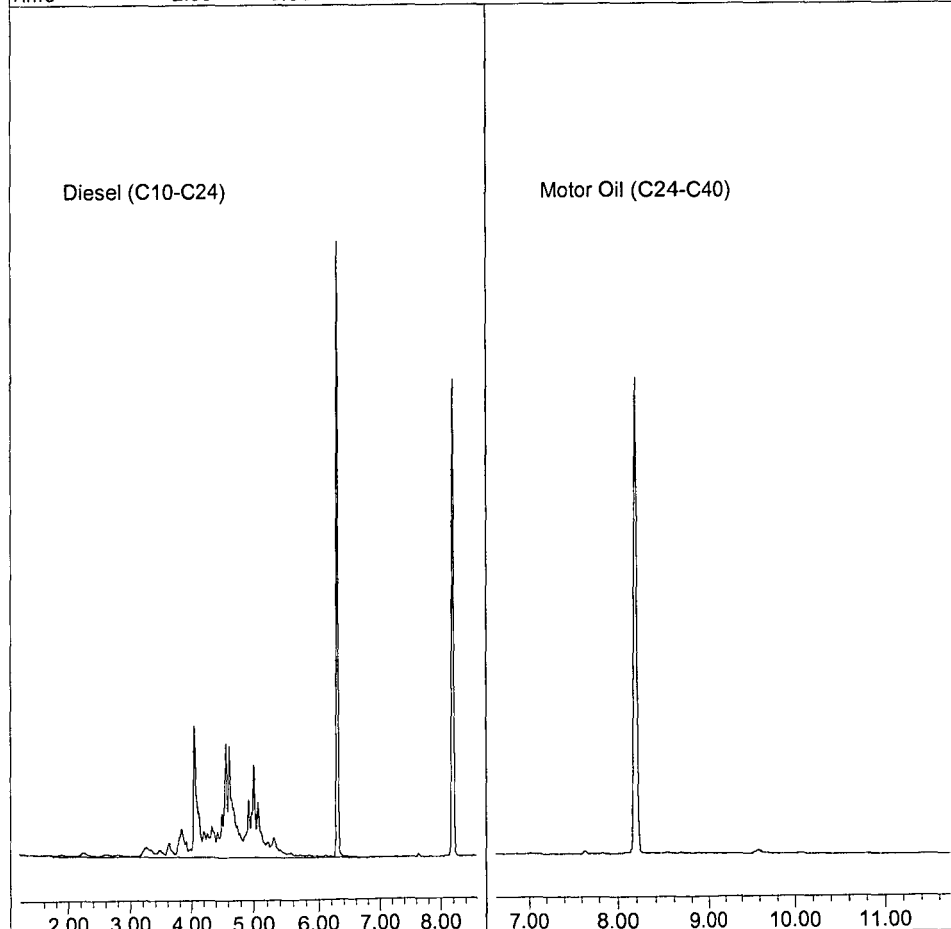
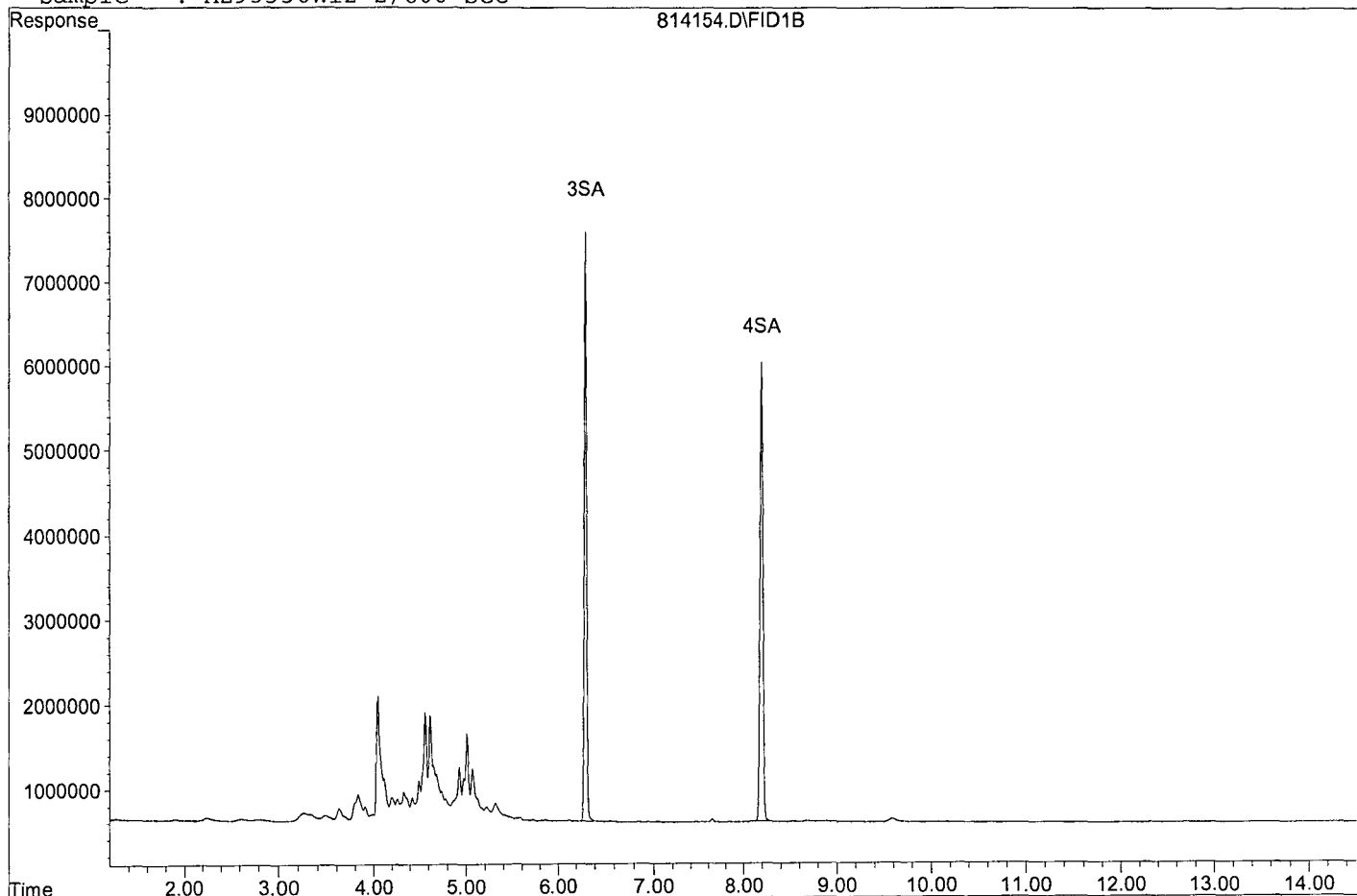
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.30	117293726	80.671 ppb
Surrogate Spike 75.000		Recovery =	107.56%
4) SA Octacosane(S)	8.19	118382689	80.411 ppb
Surrogate Spike 75.000		Recovery =	107.21%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	410285446	477.395 ppb
Target Compounds			
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D. ppb

Data File: G:\APOLLO\DATA\190814\814154.D

Sample : AZ95330W12 2/800 SGC



Data File : G:\APOLLO\DATA\190814\814154.D Vial: 54
 Acq On : 8-21-19 1:45:09 Operator: DP
 Sample : AZ95330W12 2/800 SGC Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 26 14:15 2019 Quant Results File: DEC0807.RES

Method : G:\APOLLO\DATA\190814\DEC0807.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Tue Aug 20 09:03:40 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

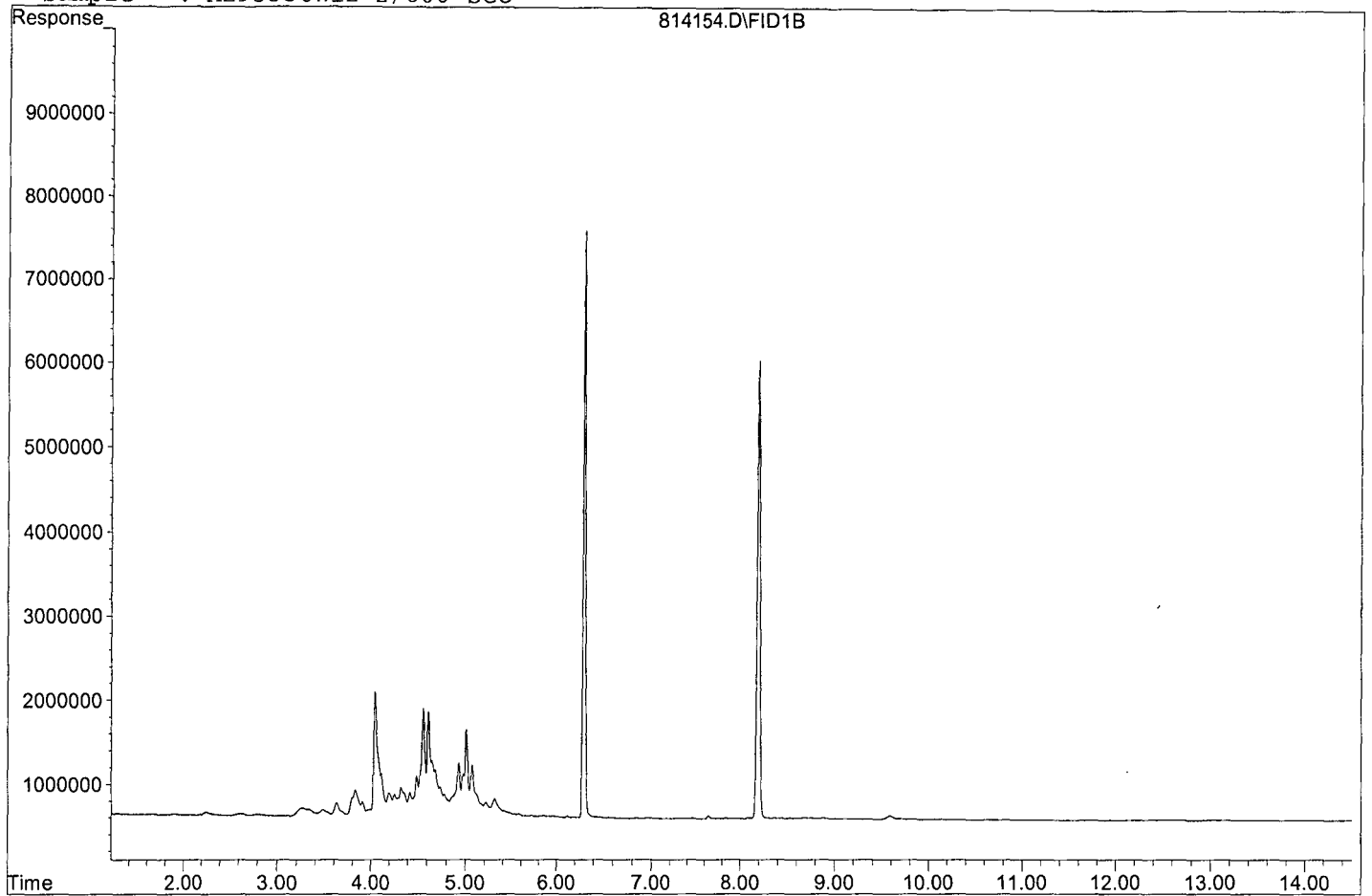
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 60.000		Recovery =	0.00%
Target Compounds			
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\190814\814154.D

Sample : AZ95330W12 2/800 SGC



Data File : G:\APOLLO\DATA\190814\814155.D Vial: 55
 Acq On : 8-21-19 2:05:05 Operator: DP
 Sample : AZ95332W13 2/800 SGC Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 26 14:06 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190814\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Mon Aug 12 12:39:32 2019
 Response via : Multiple Level Calibration

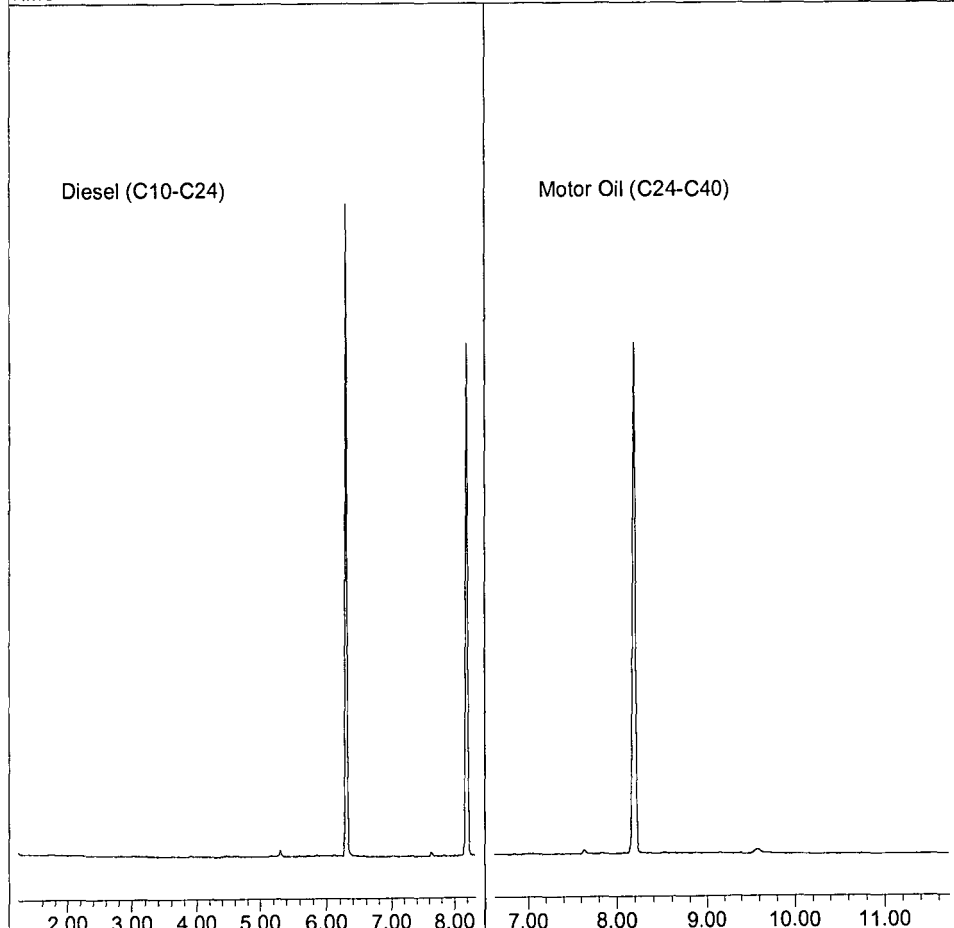
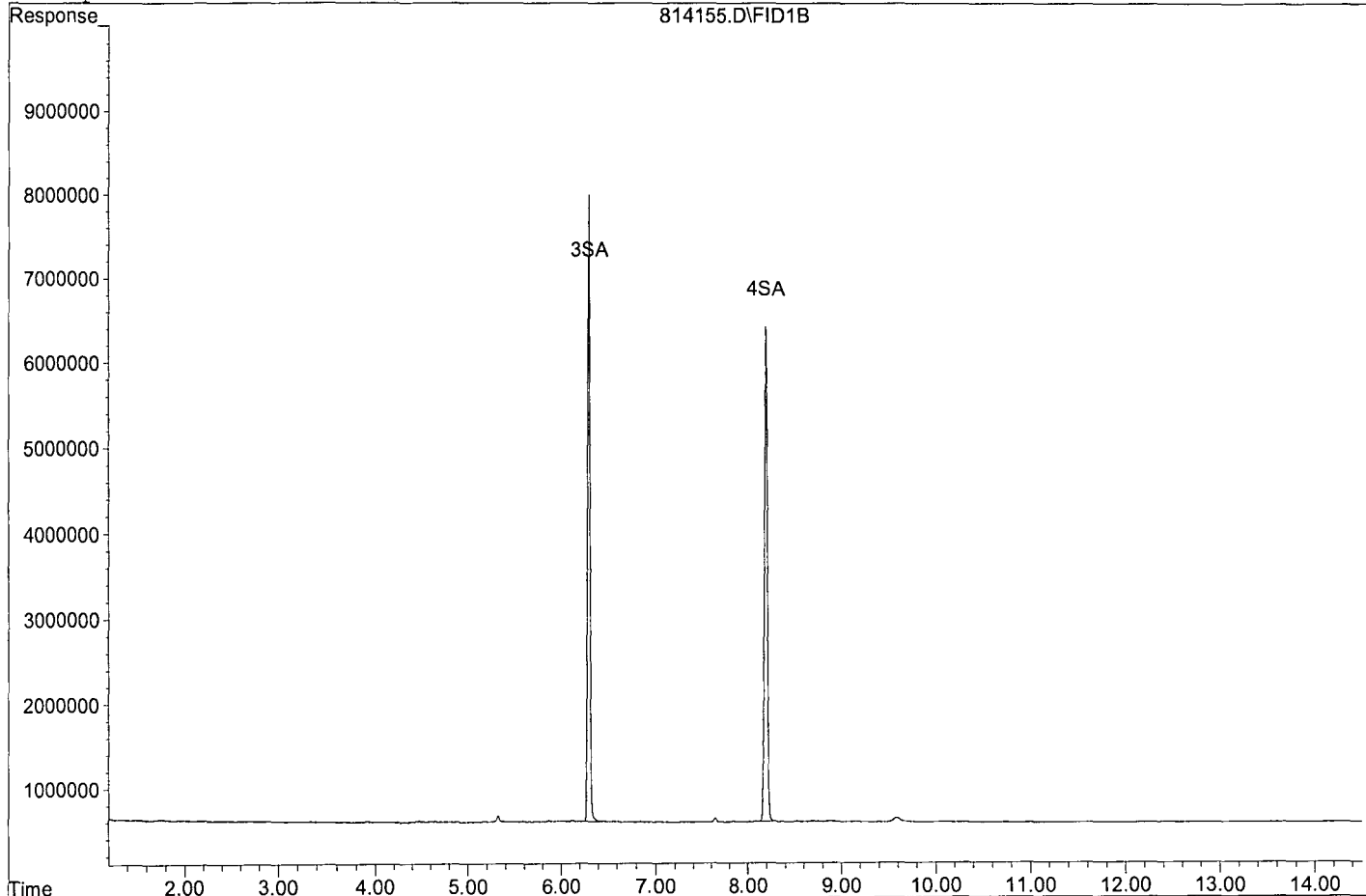
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.30	126921772	87.293 ppb
Surrogate Spike 75.000		Recovery =	116.39%
4) SA Octacosane(S)	8.20	125568698	85.292 ppb
Surrogate Spike 75.000		Recovery =	113.72%
Target Compounds			
Target Compounds			
1) HATM Diesel (C10-C24)	0.00	0	N.D. ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D. ppb

Quantitation Report

Data File: G:\APOLLO\DATA\190814\814155.D

Sample : AZ95332W13 2/800 SGC



Data File : G:\APOLLO\DATA\190814\814155.D Vial: 55
 Acq On : 8-21-19 2:05:05 Operator: DP
 Sample : AZ95332W13 2/800 SGC Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 26 14:14 2019 Quant Results File: DEC0807.RES

Method : G:\APOLLO\DATA\190814\DEC0807.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Tue Aug 20 09:03:40 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) SC Decanoic Acid(S)	0.00	0	N.D. ppb
Surrogate Spike 60.000		Recovery =	0.00%

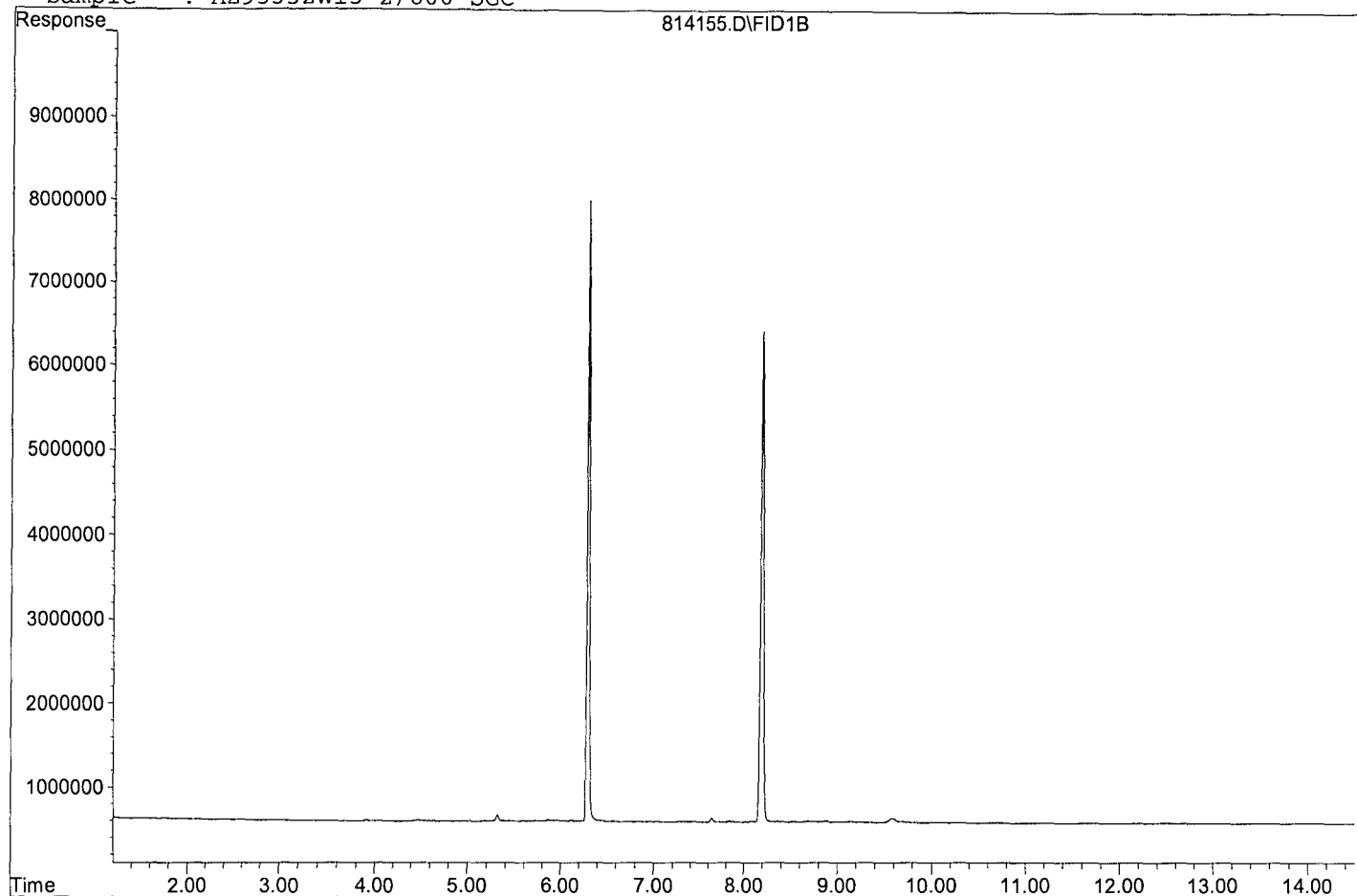
Target Compounds

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190814\814155.D

Sample : AZ95332W13 2/800 SGC



Data File : G:\APOLLO\DATA\190713\713254.D Vial: 54
 Acq On : 7-30-19 18:38:23 Operator: DP
 Sample : 190727A BLK 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 8 10:55 2019 Quant Results File: DOC0617.RES

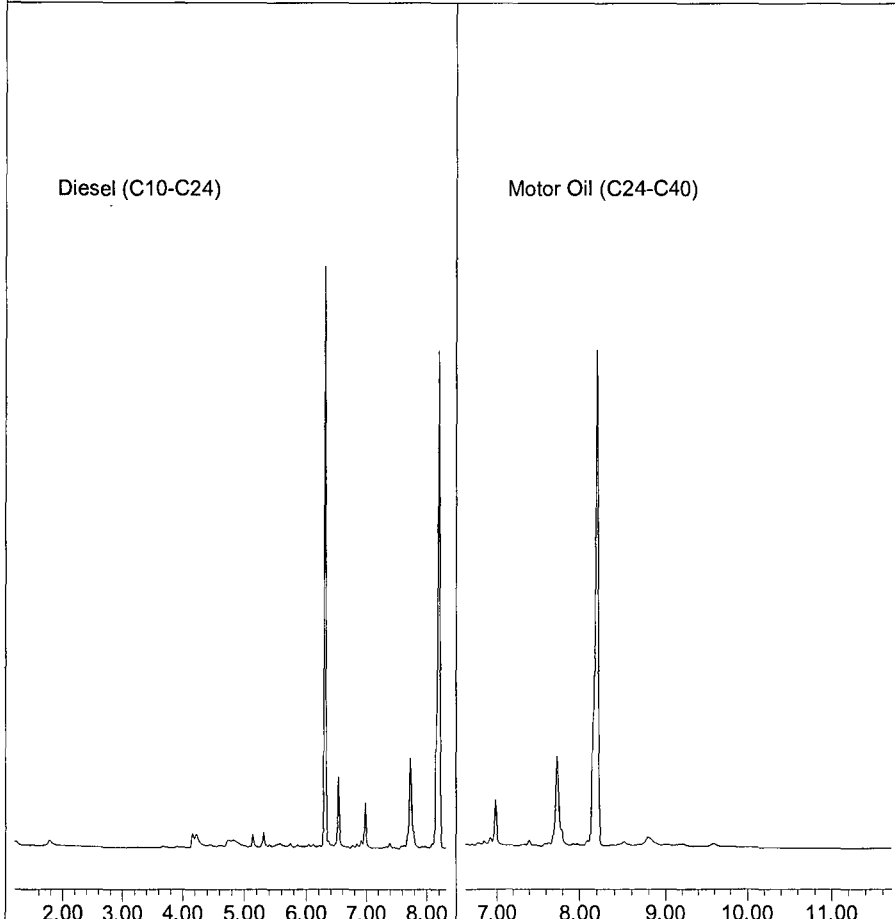
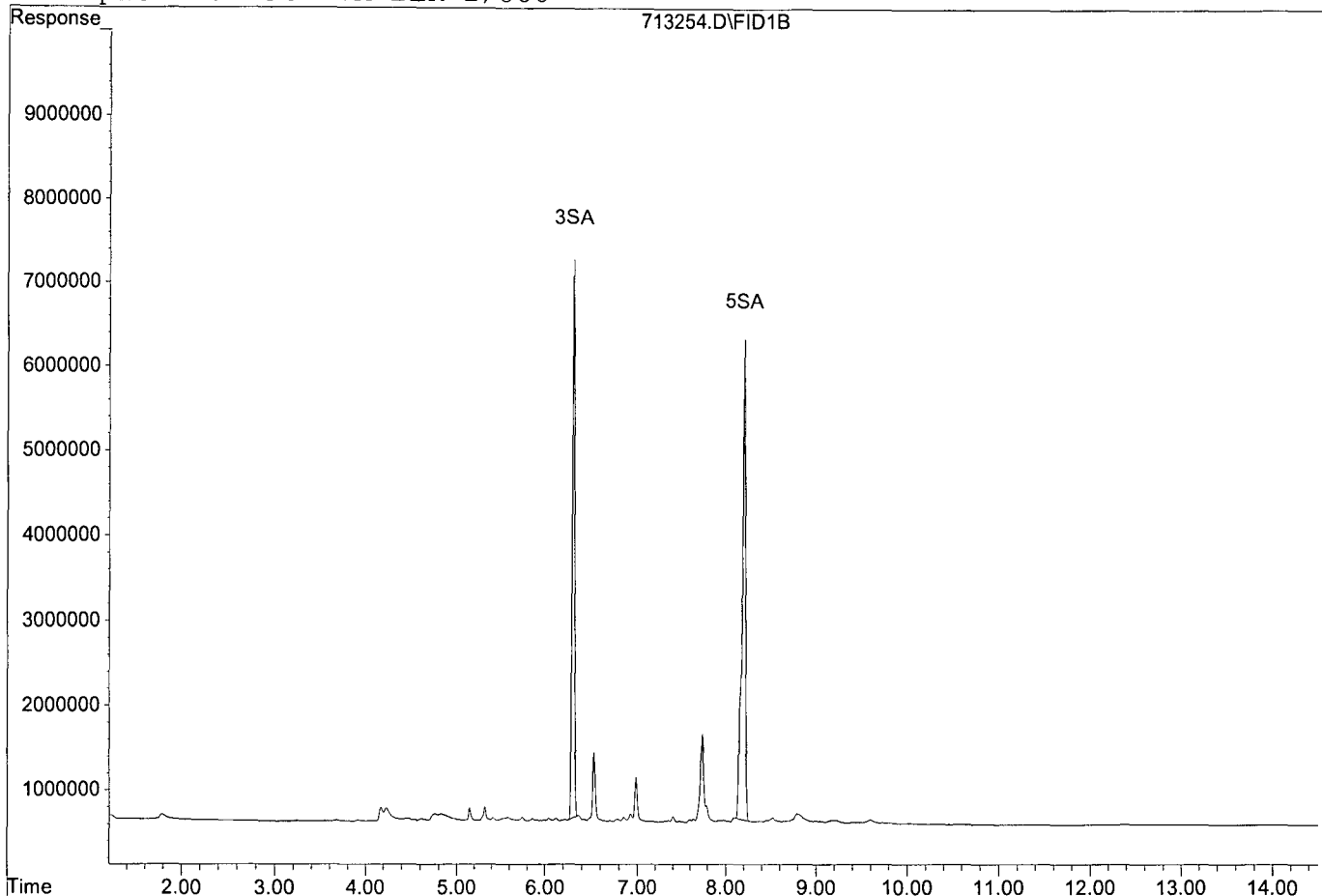
Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	111415354	76.628 ppb
Surrogate Spike 93.750		Recovery =	81.74%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb
Surrogate Spike 60.000		Recovery =	0.00%
5) SA Octacosane(S)	8.20	145814209	99.044 ppb
Surrogate Spike 93.750		Recovery =	105.65%
Target Compounds			
Target Compounds			
1) HATM Diesel (C10-C24)	0.00	0	N.D. ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D. ppb

Quantitation Report

Data File: G:\APOLLO\DATA\190713\713254.D
Sample : 190727A BLK 2/800



Data File : G:\APOLLO\DATA\190713\713255.D Vial: 55
 Acq On : 7-30-19 18:58:24 Operator: DP
 Sample : 190727A LCS-1 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 8 10:01 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

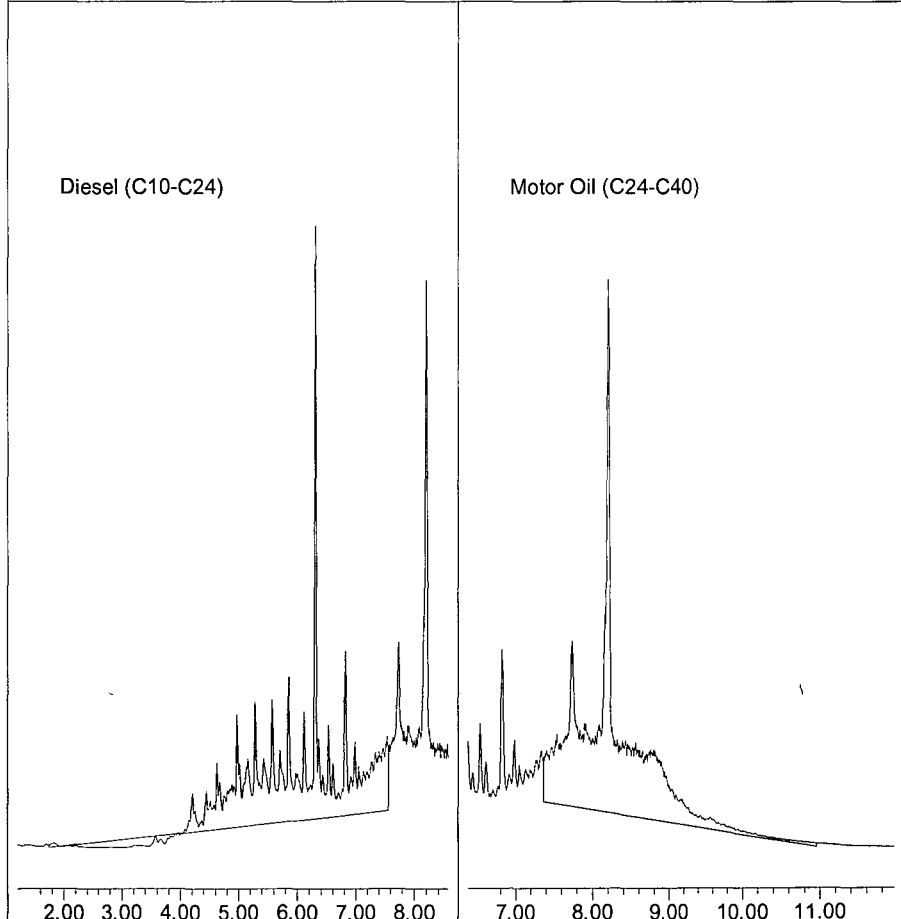
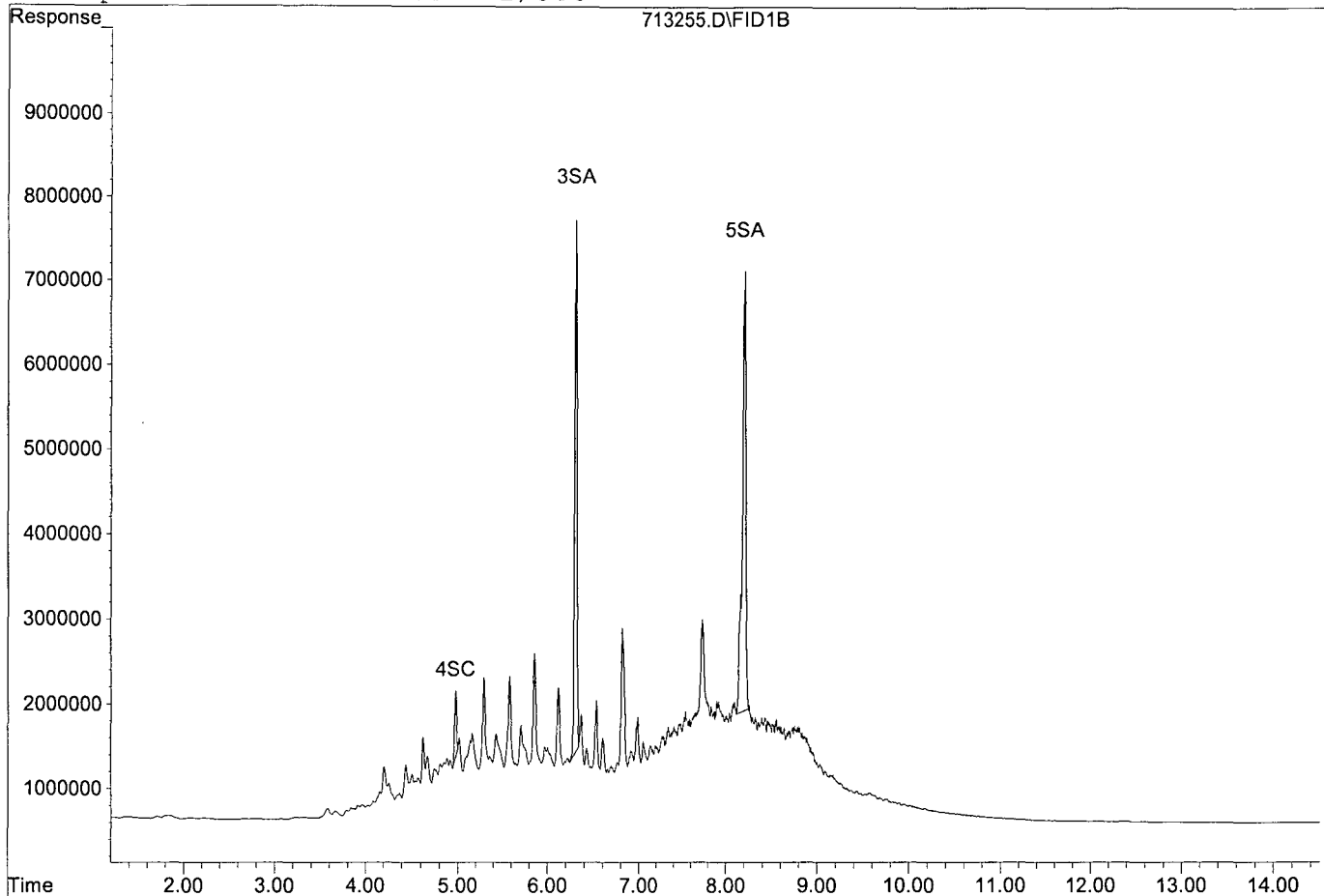
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	107674973	74.056 ppb
Surrogate Spike 93.750		Recovery =	78.99%
4) SC Decanoic Acid(S)	4.98	11444528	31.600 ppb
Surrogate Spike 60.000		Recovery =	52.67%
5) SA Octacosane(S)	8.21	136530713	92.738 ppb
Surrogate Spike 93.750		Recovery =	98.92%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	985847282	1142.149 ppb
2) HBTM Motor Oil (C24-C40)	9.16	869121260	1185.353 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190713\713255.D
Sample : 190727A LCS-1 2/800



Data File : G:\APOLLO\DATA\190713\713256.D Vial: 56
 Acq On : 7-30-19 19:17:46 Operator: DP
 Sample : 190727A LCSD-1 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 8 10:01 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

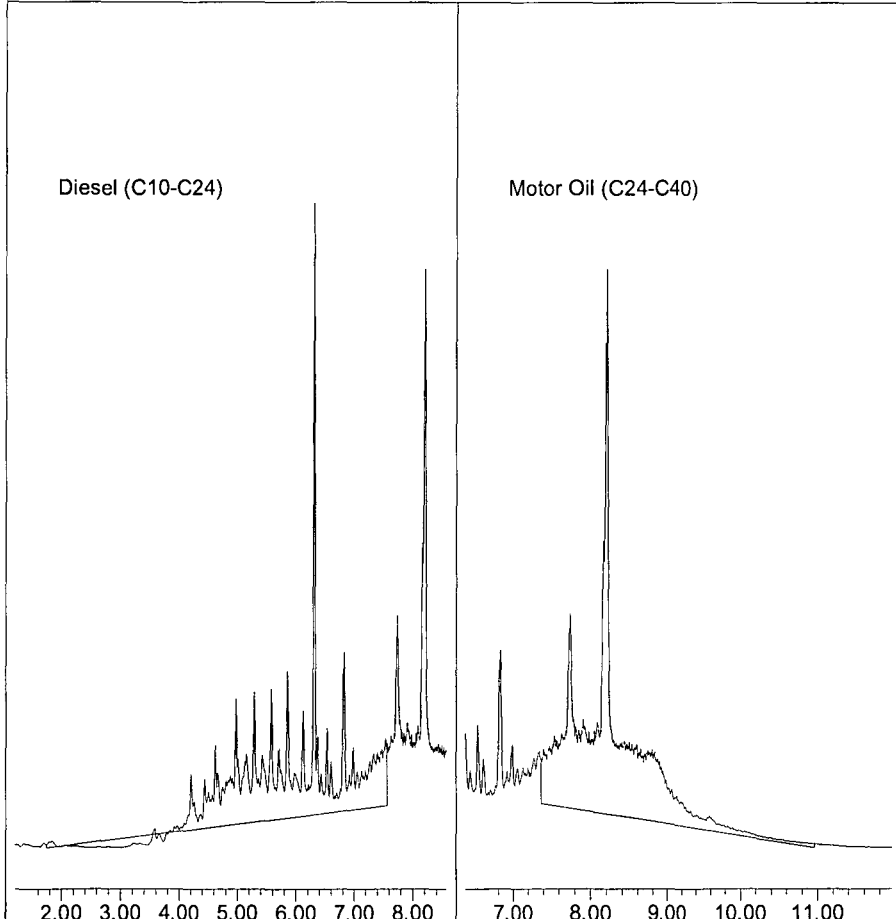
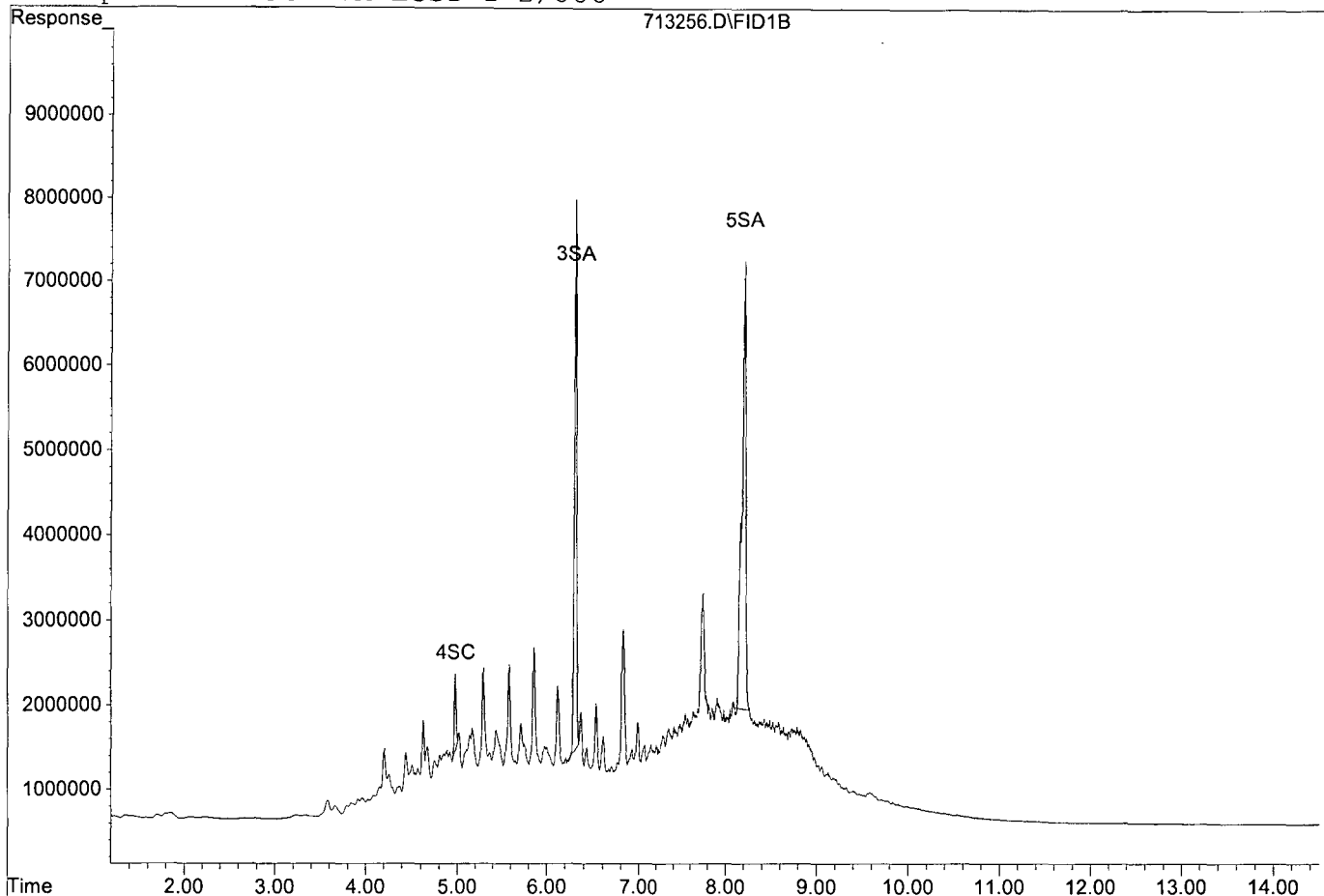
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	107939809	74.238 ppb
Surrogate Spike 93.750		Recovery =	79.19%
4) SC Decanoic Acid(S)	4.98	12811734	34.537 ppb
Surrogate Spike 60.000		Recovery =	57.56%
5) SA Octacosane(S)	8.20	154120564	104.686 ppb
Surrogate Spike 93.750		Recovery =	111.67%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	980899041	1136.434 ppb
2) HBTM Motor Oil (C24-C40)	9.16	920219150	1255.043 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190713\713256.D
Sample : 190727A LCSD-1 2/800



Data File : G:\APOLLO\DATA\190814\814150.D Vial: 50
 Acq On : 8-21-19 0:26:46 Operator: DP
 Sample : 190727A BLK 2/800 SGC Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 26 14:07 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190814\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Mon Aug 12 12:39:32 2019
 Response via : Multiple Level Calibration

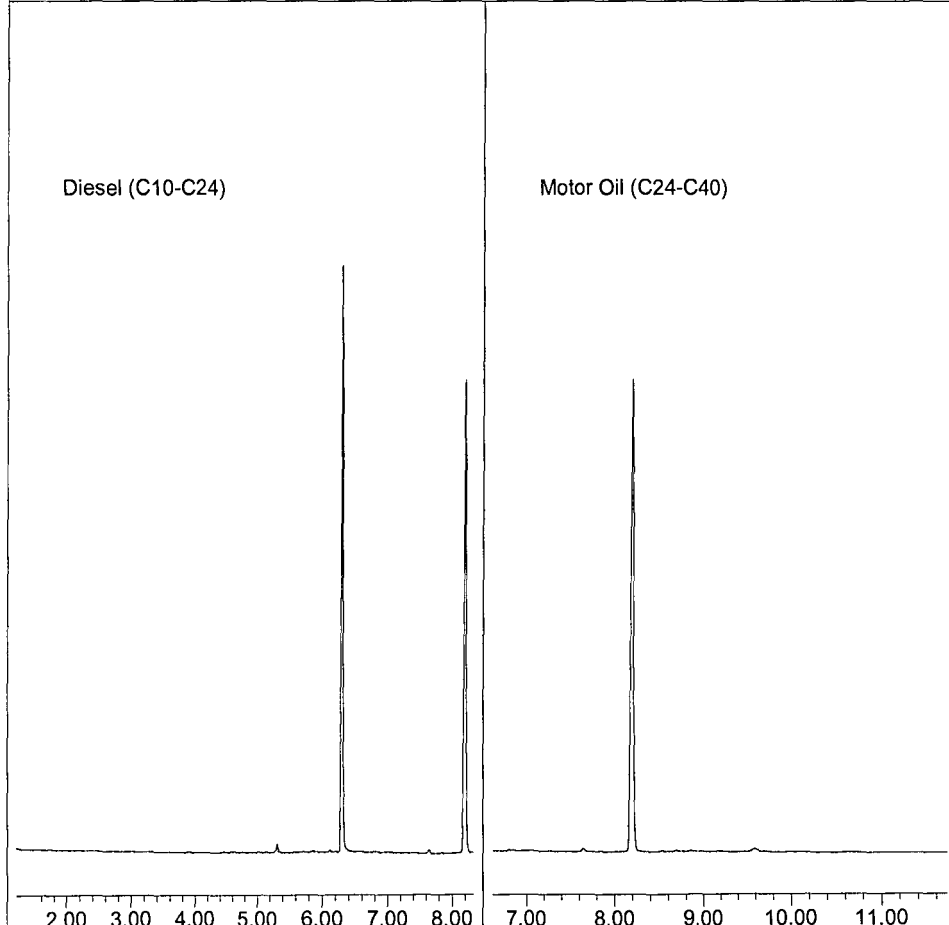
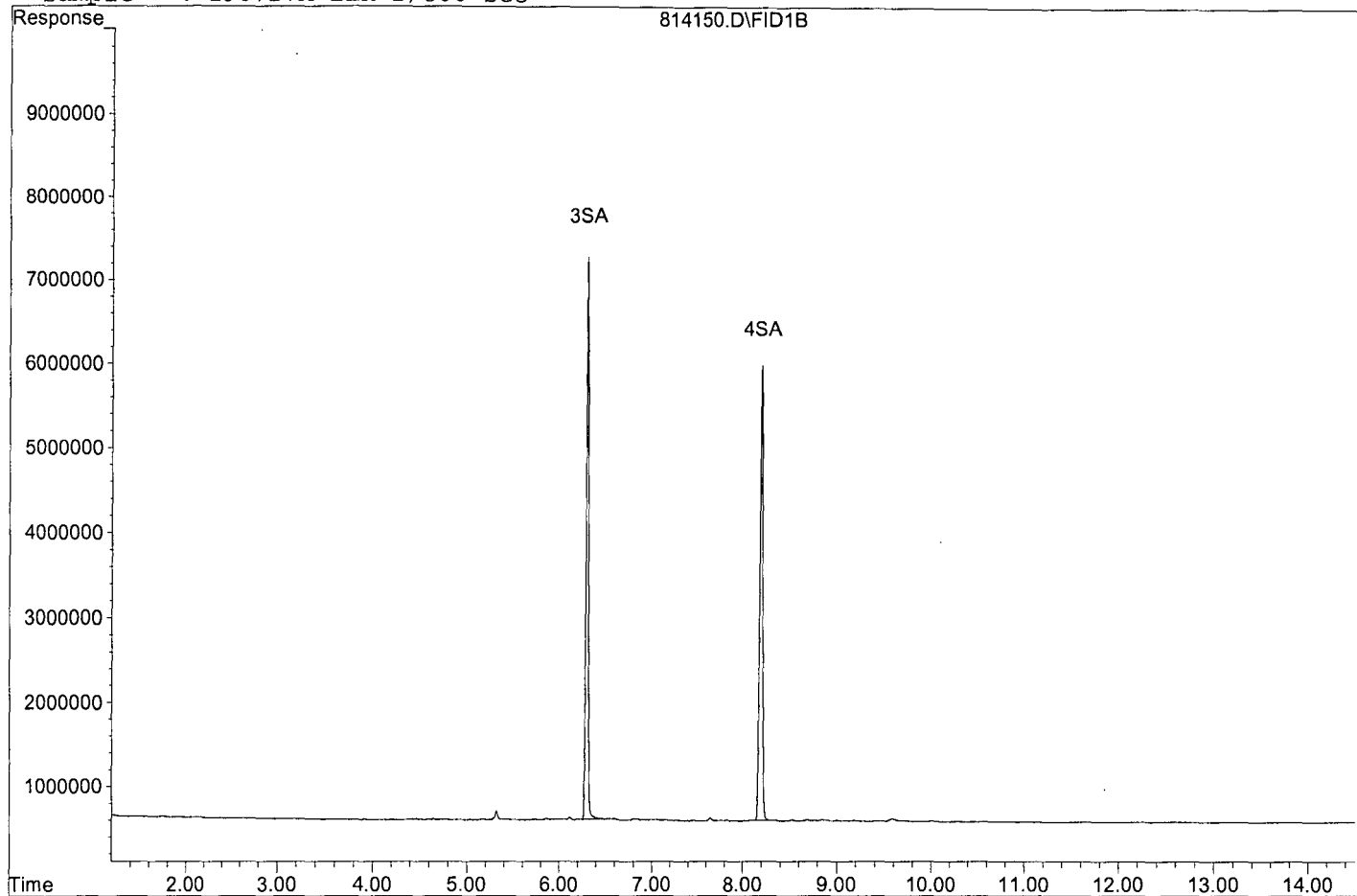
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	6.30	116369505	80.035	ppb
Surrogate Spike 75.000		Recovery =	106.71%	
4) SA Octacosane(S)	8.20	115532663	78.475	ppb
Surrogate Spike 75.000		Recovery =	104.63%	
Target Compounds				
Target Compounds				
1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb

Quantitation Report

Data File: G:\APOLLO\DATA\190814\814150.D

Sample : 190727A BLK 2/800 SGC



Data File : G:\APOLLO\DATA\190814\814150.D Vial: 50
 Acq On : 8-21-19 0:26:46 Operator: DP
 Sample : 190727A BLK 2/800 SGC Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 26 14:14 2019 Quant Results File: DEC0807.RES

Method : G:\APOLLO\DATA\190814\DEC0807.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Tue Aug 20 09:03:40 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) SC Decanoic Acid(S)	0.00	0	N.D. ppb
Surrogate Spike 60.000	Recovery	=	0.00%

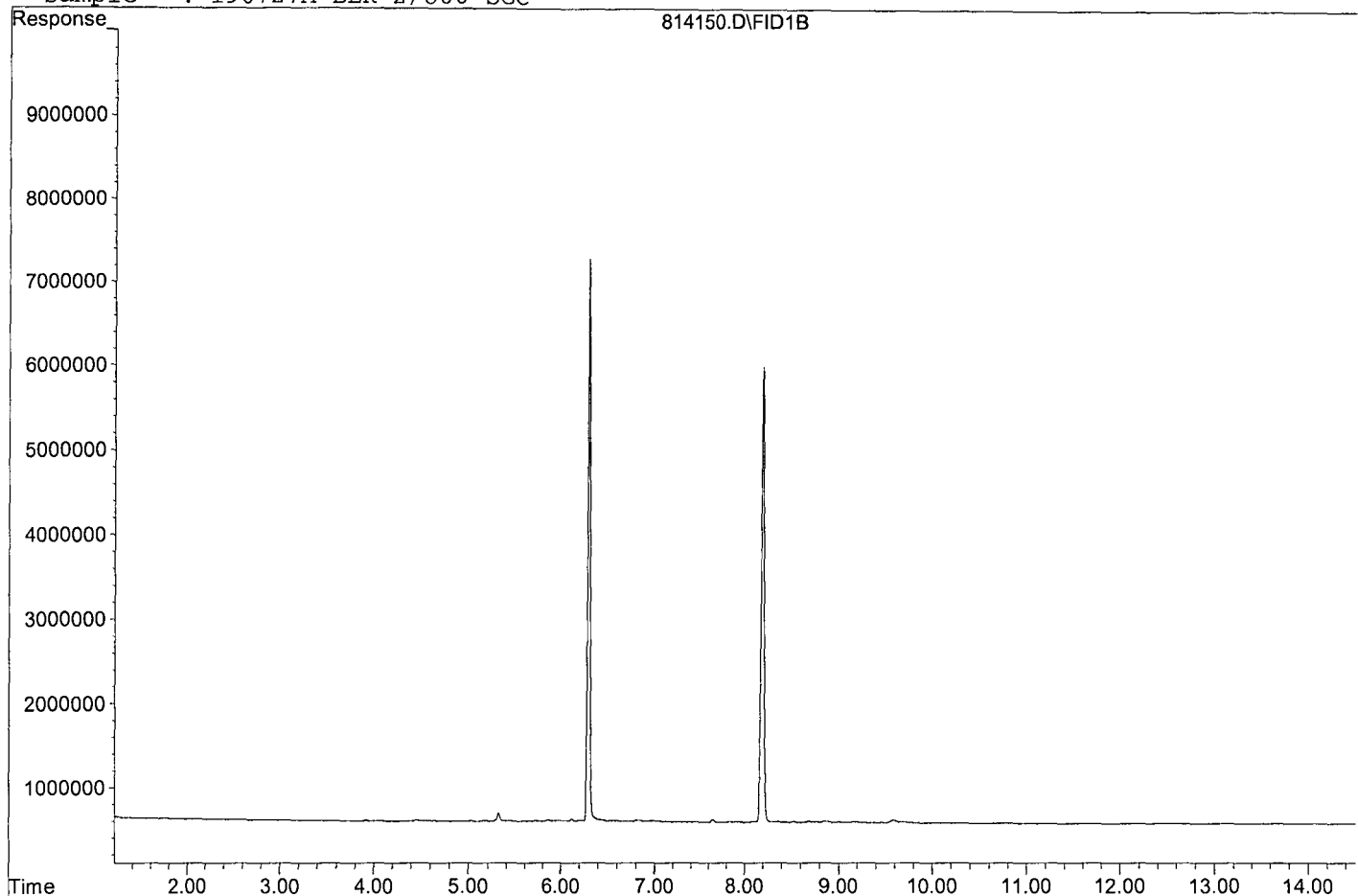
Target Compounds

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190814\814150.D

Sample : 190727A BLK 2/800 SGC



Data File : G:\APOLLO\DATA\190814\814151.D Vial: 51
 Acq On : 8-21-19 0:45:58 Operator: DP
 Sample : 190727A LCS-1 2/800 SGC Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 26 14:05 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190814\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Mon Aug 12 12:39:32 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

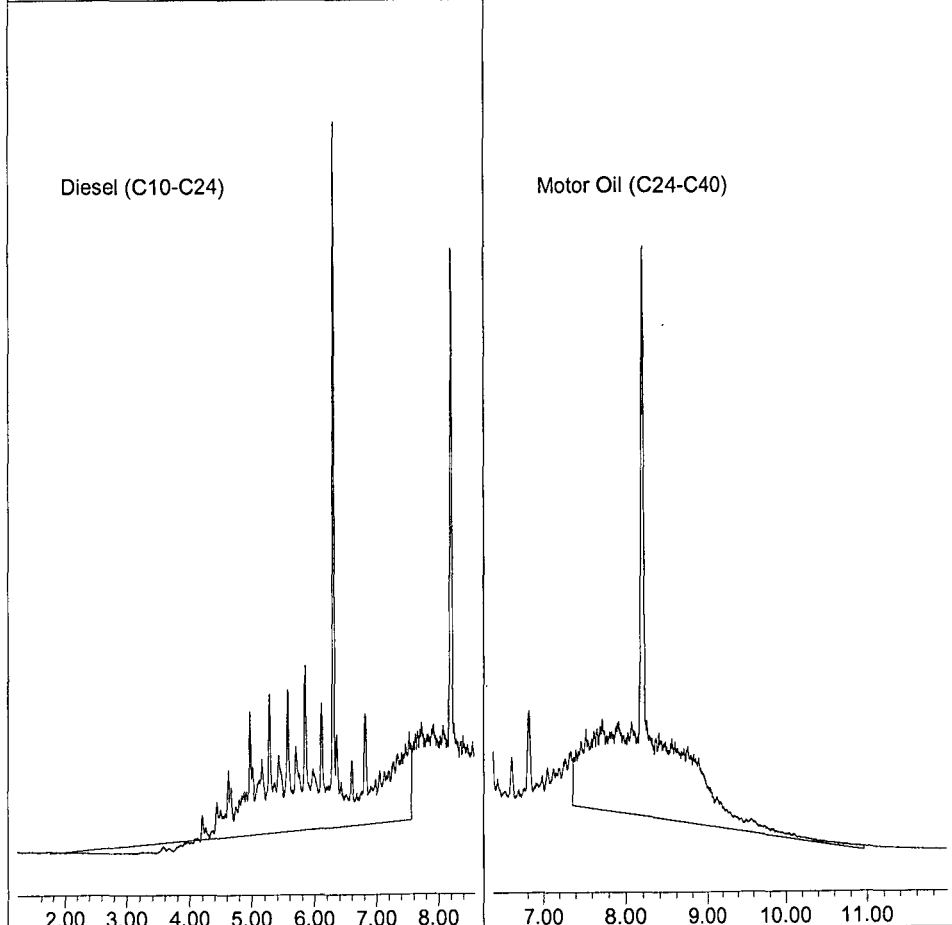
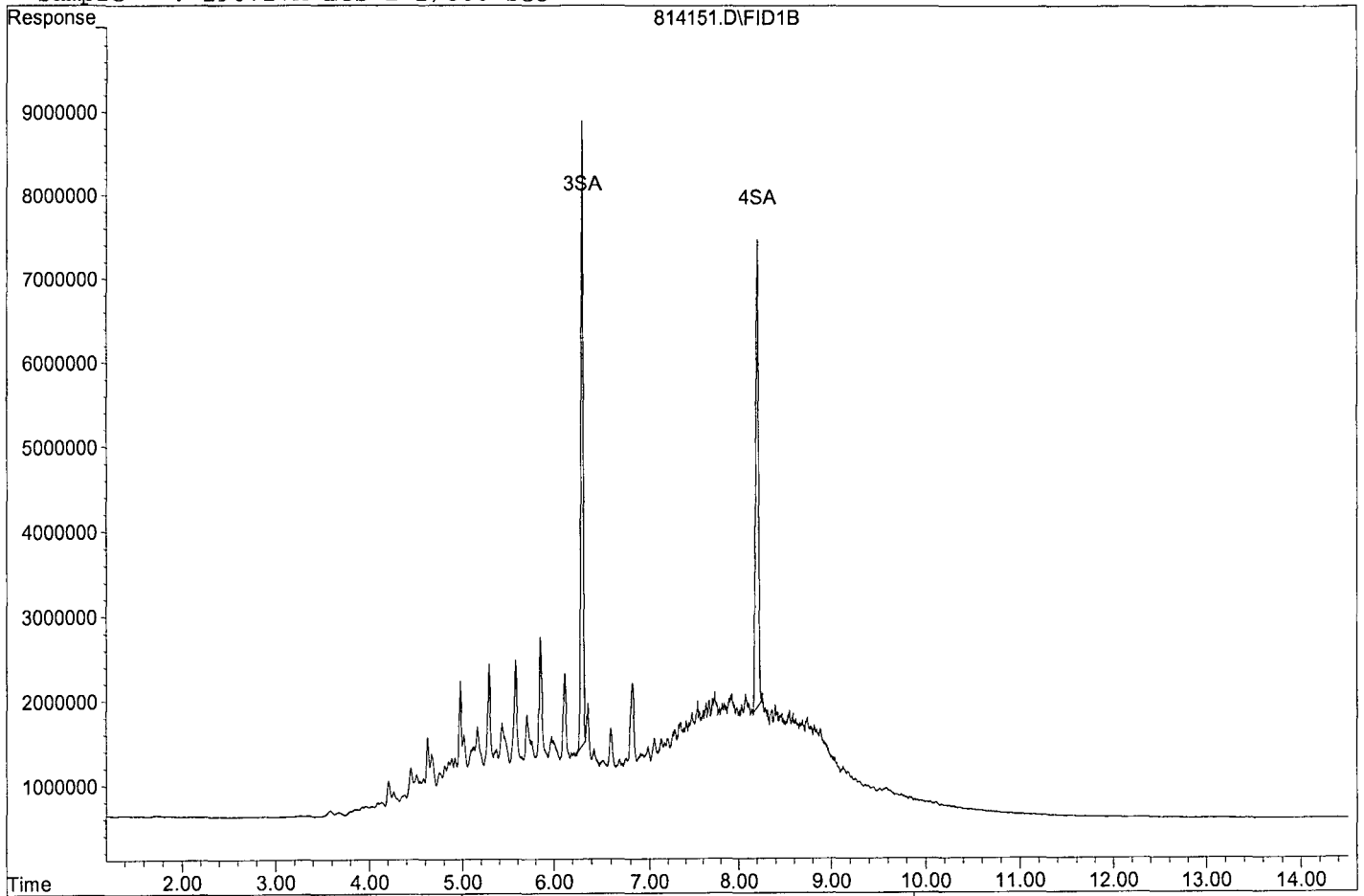
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.30	116047041	79.814 ppb
Surrogate Spike 75.000		Recovery =	106.42%
4) SA Octacosane(S)	8.20	116543225	79.162 ppb
Surrogate Spike 75.000		Recovery =	105.55%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	1057192594	1224.550 ppb
2) HBTM Motor Oil (C24-C40)	9.16	889121219	1212.630 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190814\814151.D

Sample : 190727A LCS-1 2/800 SGC



Data File : G:\APOLLO\DATA\190814\814151.D Vial: 51
 Acq On : 8-21-19 0:45:58 Operator: DP
 Sample : 190727A LCS-1 2/800 SGC Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 26 14:15 2019 Quant Results File: DEC0807.RES

Method : G:\APOLLO\DATA\190814\DEC0807.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Tue Aug 20 09:03:40 2019
 Response via : Multiple Level Calibration

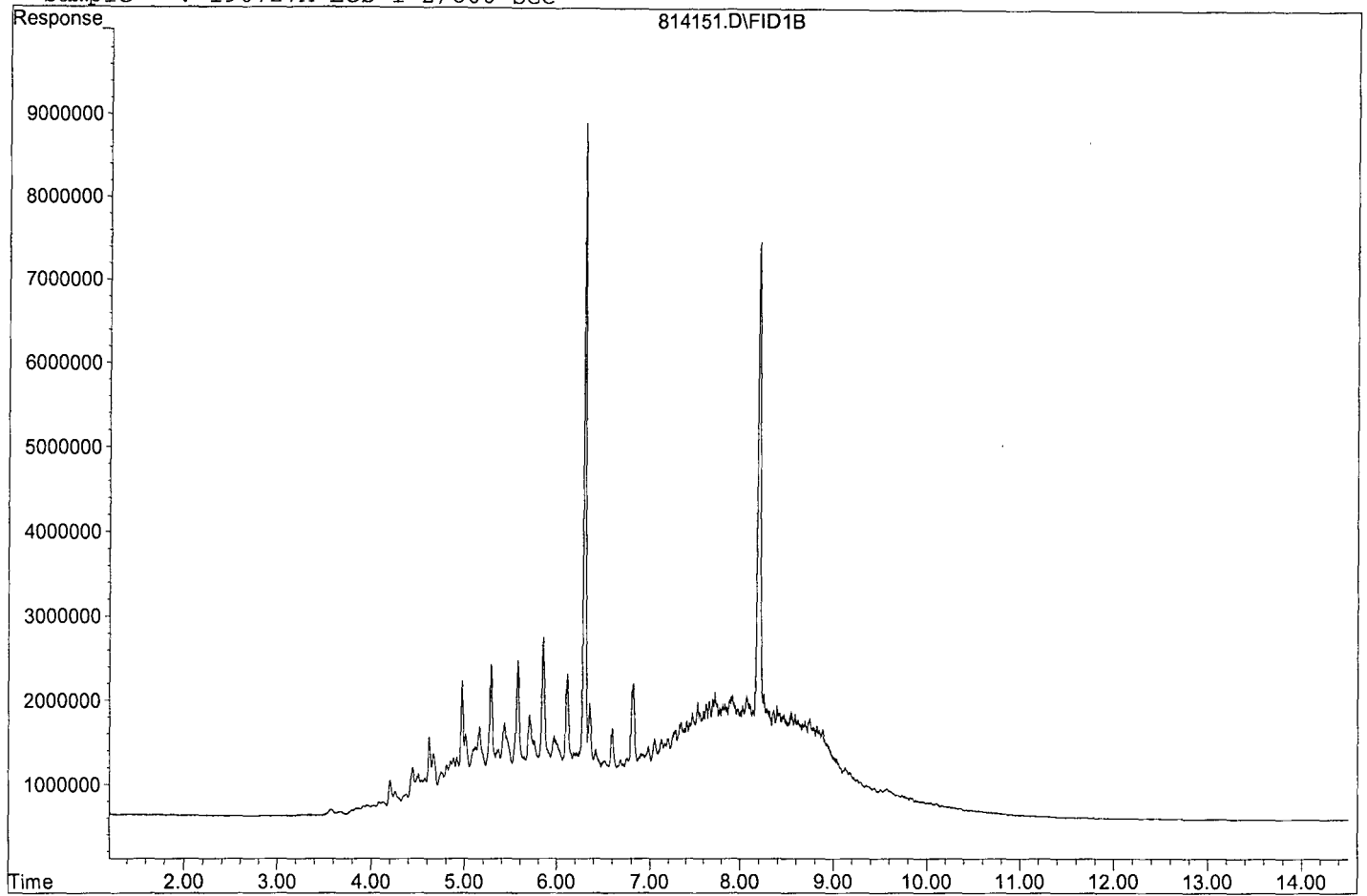
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 60.000		Recovery =	0.00%
Target Compounds			
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\190814\814151.D
Sample : 190727A LCS-1 2/800 SGC



Data File : G:\APOLLO\DATA\190814\814152.D Vial: 52
 Acq On : 8-21-19 1:05:54 Operator: DP
 Sample : 190727A LCSD-1 2/800 SGC Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 26 14:05 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190814\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Mon Aug 12 12:39:32 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

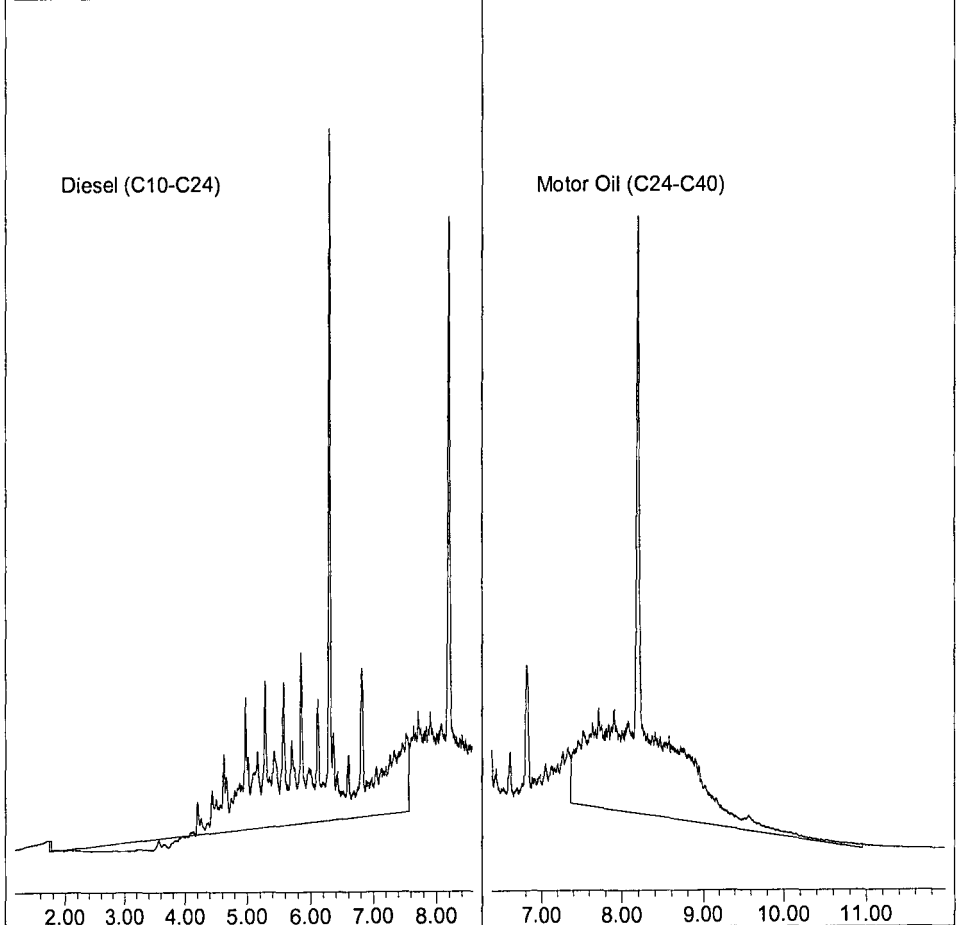
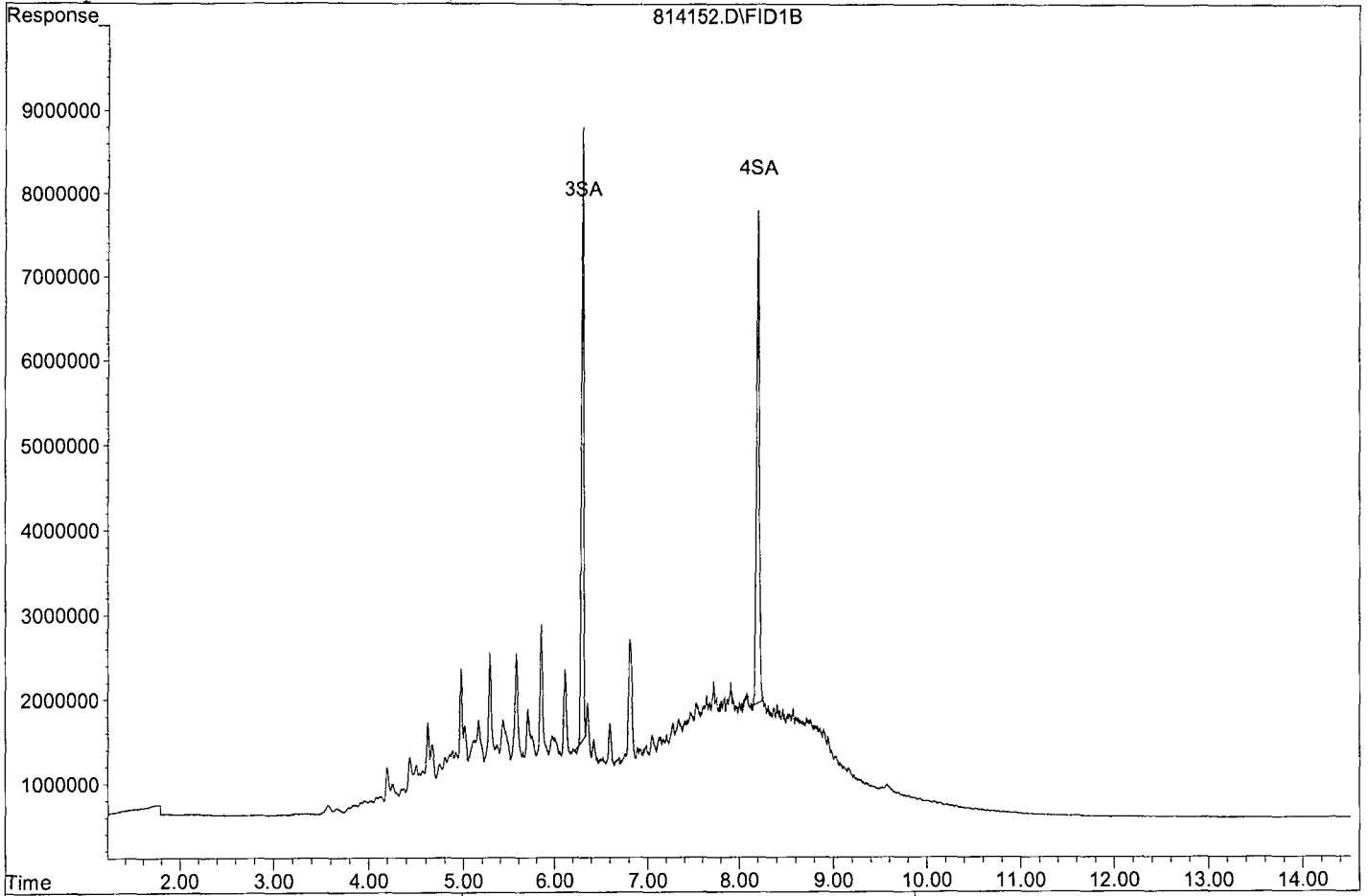
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.30	116517972	80.138 ppb
Surrogate Spike 75.000		Recovery =	106.85%
4) SA Octacosane(S)	8.20	116769703	79.316 ppb
Surrogate Spike 75.000		Recovery =	105.75%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	1072716320	1242.480 ppb
2) HBTM Motor Oil (C24-C40)	9.16	905046722	1234.350 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190814\814152.D
Sample : 190727A LCSD-1 2/800 SGC



Data File : G:\APOLLO\DATA\190814\814152.D Vial: 52
 Acq On : 8-21-19 1:05:54 Operator: DP
 Sample : 190727A LCSD-1 2/800 SGC Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 26 14:15 2019 Quant Results File: DEC0807.RES

Method : G:\APOLLO\DATA\190814\DEC0807.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Tue Aug 20 09:03:40 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 60.000		Recovery =	0.00%

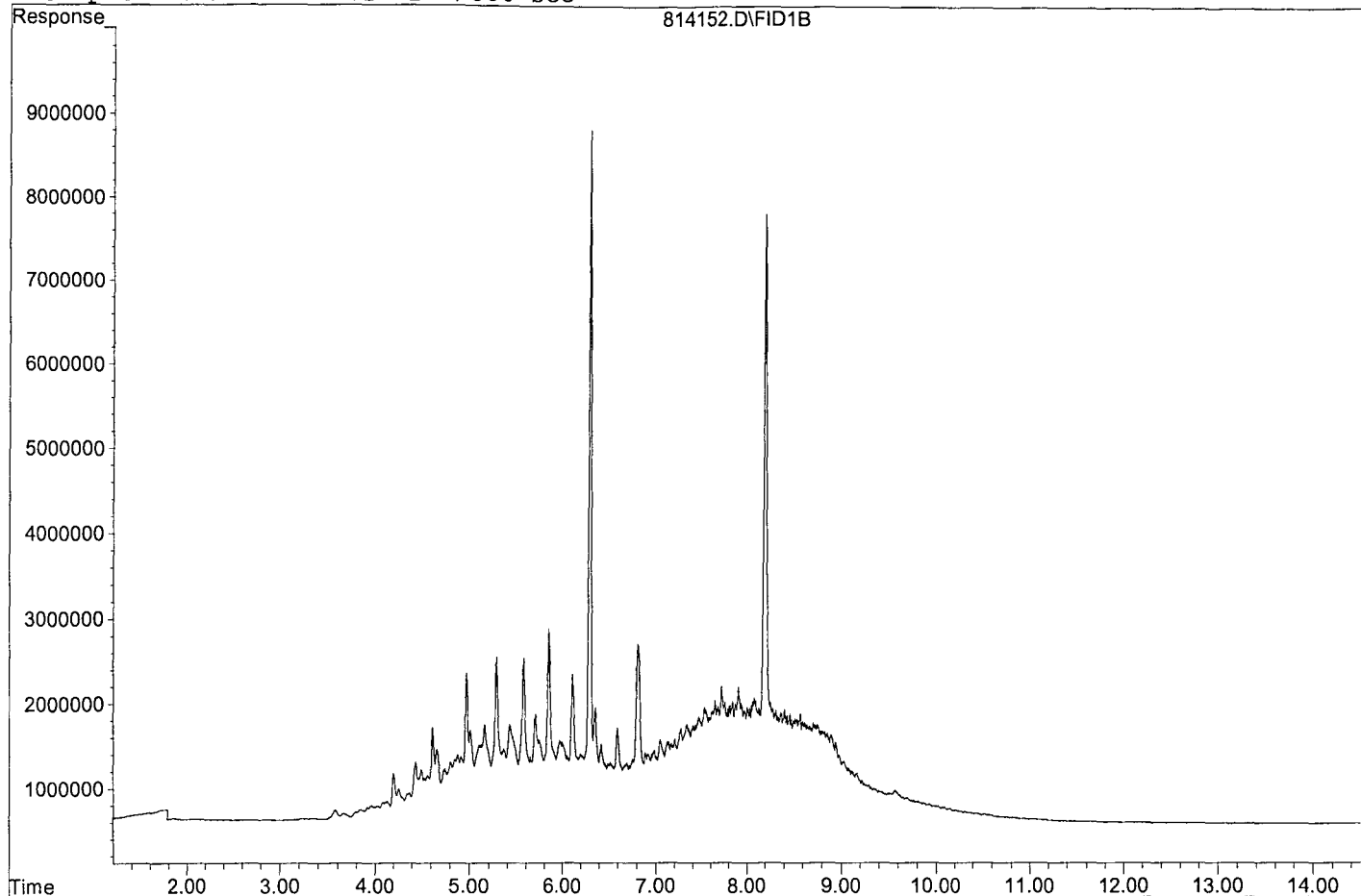
Target Compounds

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190814\814152.D

Sample : 190727A LCSD-1 2/800 SGC



Diesel / Motor Oil Calibration Curve										
Prepared: 06/17/19						Prepared By (Initials): BT				
Expires: 12/17/19						Methylene Chloride Lot No. 5829				
Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference to APPL Prep Date	Exp. Date	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 1	2,000	Prepared 06/17/19	06/17/20	N/A	5uL	1mL	MC	10
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 2	2,000	Prepared 06/17/19	06/17/20	N/A	25uL	1mL	MC	50
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 3	2,000	Prepared 06/17/19	06/17/20	N/A	125uL	1mL	MC	250
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 4	2,000	Prepared 06/17/19	06/17/20	N/A	500uL	1mL	MC	1000
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 5	2,000	Prepared 06/17/19	06/17/20	N/A	750uL	1mL	MC	1500
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 6	2,000	Prepared 06/17/19	06/17/20	N/A	100uL	100uL	N/A	2,000

Diesel / Motor Oil Calibration Standard

Prepared: 06/17/19

Prepared By (Initials): BT

Expires: 06/17/20

Methylene Chloride Lot No. 5829

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel Fuel #2	Phenova	ALO-101287	50,000	CL13227-40441	06/17/20	02/31/2025	400uL			2000
Motor Oil	Restek	31464	50,000	A0144044-40655	06/17/20	01/31/26	400uL	10mL	MC	2000
THC Surrogate	Phenova	ALO-130161	600	CL13256-40366	06/17/20	02/28/24	1666uL			100

Diesel / Motor Oil Second Source (SS)										
Prepared: 01/15/19										
Expires: 01/15/20										
Methylene Chloride Lot No. 56278										
Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel Fuel #2	O2SI	G34-011598-03	50,000	G34-319187-38958	08/02/19	09/29/21	50uL	10mL	MC	250
Motor Oil Second Source	O2SI	116390-02-SS	50,000	301142-37652	07/13/19	03/05/22	50uL			

Decanoic Acid Calibration Curve

Prepared: 08/07/19

Prepared By (Initials): BT

Expires: 02/05/20

Methylene Chloride Lot No. 58059

Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Decanoic Acid STD	APPL	Decanoic Acid-1	60	Prepared 08/07/19	08/06/20	N/A	50uL	1mL	MC	3
Decanoic Acid STD	APPL	Decanoic Acid-2	60	Prepared 08/07/19	08/06/20	N/A	100uL	1mL	MC	6
Decanoic Acid STD	APPL	Decanoic Acid-3	60	Prepared 08/07/19	08/06/20	N/A	400uL	1mL	MC	24
Decanoic Acid STD	APPL	Decanoic Acid-4	60	Prepared 08/07/19	08/06/20	N/A	600uL	1mL	MC	36
Decanoic Acid STD	APPL	Decanoic Acid-5	60	Prepared 08/07/19	08/06/20	N/A	800uL	1mL	MC	48
Decanoic Acid STD	APPL	Decanoic Acid-6	60	Prepared 08/07/19	08/06/20	N/A	100uL	100uL	N/A	60

Decanoic Acid Standard											
Prepared: 08/07/19						Prepared By (Initials): <u>BT</u>					
Expires: 08/06/20											
Methylene Chloride Lot No. 58059											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
Decanoic Acid	O2SI	011729-01-05-5PAK	1,000	302690-37818	08/07/20	03/31/21	600uL	10mL	MC	60	

Decanoic Acid CCV										
Prepared: 08/07/19						Prepared By (Initials): BT				
Expires: 02/05/20										
Methylene Chloride Lot No. 58059										
Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Decanoic Acid STD	APPL	Decanoic Acid CCV	60	Prepared 08/07/19	08/06/20	N/A	4mL	10mL	MC	.24

Diesel / Motor Oil CCV										
Prepared: 07/19/19										
Expires: 01/19/20										
Methylene Chloride Lot No. 5829										
Prepared By (Initials): BT										
Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference to APPL Prep Date	Exp. Date	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel / Motor Oil STD	APPL	Diesel / Motor Oil CCV	2,000	Prepared 06/17/19	06/17/20	N/A	1250uL	10mL	MC	250

Organic Extraction Worksheet

Method	Continuous Liq/Liq TPH-Diesel/MO 3520C	Extraction Set	190727A	Extraction Method	LIQ005	Units	mL
Spiked ID 1	Diesel Spike 7/17/19-7/17/20	Surrogate ID 1	THC Surrogate 7/25/19-7/25/20				
Spiked ID 2	Motor Oil Spike 7/19/19-7/20/20	Surrogate ID 2					
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:		yes			
Spiked ID 7		Ext. Start Time:		07/27/19 11:10			
Spiked ID 8		Ext. End Time:		07/30/19 14:35			
		GC Requires Extract By:		07/30/19 0:00			
		pH1		Water Bath Temp 1 °C		35/34.5 EWB1 °	
		pH2		Water Bath Temp 2 °C		35/38.8 EWB2	
		pH3		Water Bath Temp 3 °C		35/34.4 EWB3 °	

Spiked By: DL

Date 07/27/19

Witnessed By: SS

Date 07/27/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	190727A Blk			0.100	1	800	2	2	07/27/19 11:10	
						equip				
						E-HP47 E-WB1				
2	190727A LCS-1	0.020	1,2	0.100	1	800	2	2	07/27/19 11:10	
						equip				
						E-HP48 E-WB2				
3	190727A LCSD-1	0.020	1,2	0.100	1	800	2	2	07/27/19 11:10	
						equip				
						E-HP49 E-WB3				
4	AZ95187 AZ95187W13			0.100	1	800	2	2	07/27/19 11:10	89570
						equip				
						E-HP50 E-WB1				
5	AZ95189 MS-1 AZ95189W21	0.020	1,2	0.100	1	800	2	2	07/27/19 11:10	
						equip				
						E-HP42 E-WB3				
6	AZ95189 MSD-1 AZ95189W32	0.020	1,2	0.100	1	800	2	2	07/27/19 11:10	
						equip				
						E-HP41 E-WB1				
7	AZ95189 AZ95189W22			0.100	1	800	2	2	07/27/19 11:10	89570
						equip				
						E-HP51 E-WB2				
8	AZ95190 AZ95190W11			0.100	1	800	2	2	07/27/19 11:10	89570
						equip				
						E-HP39 E-WB2				
9	AZ95329 AZ95329W12			0.100	1	800	2	2	07/27/19 11:10	89593
						equip				
						E-HP37 E-WB3				
10	AZ95330 AZ95330W12			0.100	1	800	2	2	07/27/19 11:10	89593
						equip				
						E-HP25 E-WB1				
11	AZ95332 AZ95332W13			0.100	1	800	2	2	07/27/19 11:10	89593
						equip				
						E-HP26 E-WB2				
12	AZ95334 AZ95334W14			0.100	1	800	2	2	07/27/19 11:10	89593
						equip				
						E-HP27 E-WB3				
13	AZ95336 AZ95336W14			0.100	1	800	2	2	07/27/19 11:10	89593
						equip				
						E-HP28 E-WB1				
14	AZ95338 AZ95338W12			0.100	1	800	2	2	07/27/19 11:10	89593
						equip				
						E-HP29 E-WB2				
15	AZ95419 AZ95419W10			0.100	1	800	2	2	07/27/19 11:10	89607
						equip				
						E-HP30 E-WB3				
16	AZ95421 AZ95421W07			0.100	1	800	2	2	07/27/19 11:10	89607
						equip				
						E-HP6 E-WB1				

Solvent and Lot#	
1+1 HCL	6/15/19
PH Strips	HC863463
Dicholormethane (DCM)	58240
Filter Paper	400163
B. Sodium Sulfate	2019010772
silica Gel	2111Q

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	<i>ASJ</i>
Date	7/30/19
Time	4:58 pm
Refrigerator	Hobart 2

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL

Modified 08/04/19 9:42:25 AM

Reviewed By: SS

Date 8/3/19

Organic Extraction Worksheet

Method	Continuous Liq/Liq TPH-Diesel/MO 3520C	Extraction Set	190727A	Extraction Method	LIQ005	Units	mL
Spiked ID 1	Diesel Spike 7/17/19-7/17/20	Surrogate ID 1	THC Surrogate 7/25/19-7/25/20				
Spiked ID 2	Motor Oil Spike 7/19/19-7/20/20	Surrogate ID 2					
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:		yes			
Spiked ID 7		Ext. Start Time:		07/27/19 11:10			
Spiked ID 8		Ext. End Time:		07/30/19 14:35			
		GC Requires Extract By:		07/30/19 0:00			
		pH1		Water Bath Temp 1 °C	35/34.5 EWB1 °		
		pH2		Water Bath Temp 2 °C	35/38.8 EWB2		
		pH3		Water Bath Temp 3 °C	35/34.4 EWB3 °		

Spiked By: DL

Date 07/27/19

Witnessed By: SS

Date 07/27/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
17	AZ95423 AZ95423W08			0.100	1	800	2	2	07/27/19 11:10	89607
						equip	E-HP7 E-WB2			

SS 8/3/19

Solvent and Lot#	
1+1 HCL	6/15/19
PH Strips	HC863463
Dichloromethane (DCM)	58240
Filter Paper	400163
B. Sodium Sulfate	2019010772

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	
Date	
Time	
Refrigerator	

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	08/04/19 9:42:25 AM

Reviewed By:

Date

Injection Log

Directory: G:\APOLLO\DATA\190617\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	3	617003.D	1	Diesel/Motor Oil - 1 6/17/19	water	6-17-19 16:40:59
2	4	617004.D	1	Diesel/Motor Oil - 2 6/17/19	water	6-17-19 17:00:17
3	5	617005.D	1	Diesel/Motor Oil - 3 6/17/19	water	6-17-19 17:20:24
4	6	617006.D	1	Diesel/Motor Oil - 4 6/17/19	water	6-17-19 17:40:33
5	7	617007.D	1	Diesel/Motor Oil - 5 6/17/19	water	6-17-19 18:00:01
6	8	617008.D	1	Diesel/Motor Oil - 6 6/17/19	water	6-17-19 18:20:06
7	9	617009.D	1	Diesel/Motor Oil Second Source 1/15/19	water	6-17-19 18:39:28
8	53	713253.D	1	Diesel/Motor Oil CCV 7/19/19	water	7-30-19 18:18:15
9	54	713254.D	2.5	190727A BLK 2/800	water	7-30-19 18:38:23
10	55	713255.D	2.5	190727A LCS-1 2/800	water	7-30-19 18:58:24
11	56	713256.D	2.5	190727A LCSD-1 2/800	water	7-30-19 19:17:46
12	62	713262.D	2.5	AZ95329W12 2/800	water	7-30-19 21:17:53
13	63	713263.D	2.5	AZ95330W12 2/800	water	7-30-19 21:37:51
14	64	713264.D	2.5	AZ95332W13 2/800	water	7-30-19 21:57:49
15	65	713265.D	2.5	AZ95334W14 2/800	water	7-30-19 22:17:37
16	66	713266.D	2.5	AZ95336W14 2/800	water	7-30-19 22:37:39
17	67	713267.D	1	Diesel/Motor Oil CCV 7/19/19	water	7-30-19 22:57:31
18	68	713268.D	2.5	AZ95338W12 2/800	water	7-30-19 23:16:43
19	73	713273.D	1	Diesel/Motor Oil CCV 7/19/19	water	7-31-19 0:55:55
20	53	801053.D	1	Decanoic Acid-1 8/07/19	water	8-7-19 16:40:26
21	54	801054.D	1	Decanoic Acid-2 8/07/19	water	8-7-19 16:59:26
22	55	801055.D	1	Decanoic Acid-3 8/07/19	water	8-7-19 17:19:24
23	56	801056.D	1	Decanoic Acid-4 8/07/19	water	8-7-19 17:38:43
24	57	801057.D	1	Decanoic Acid-5 8/07/19	water	8-7-19 17:58:50
25	58	801058.D	1	Decanoic Acid-6 8/07/19	water	8-7-19 18:18:48
26	48	814148.D	1	Diesel/Motor Oil CCV 8/08/19	water	8-20-19 23:46:53
27	49	814149.D	1	Decanoic Acid CCV 8/07/19	water	8-21-19 0:06:46
28	50	814150.D	2.5	190727A BLK 2/800 SGC	water	8-21-19 0:26:46
29	51	814151.D	2.5	190727A LCS-1 2/800 SGC	water	8-21-19 0:45:58
30	52	814152.D	2.5	190727A LCSD-1 2/800 SGC	water	8-21-19 1:05:54
31	53	814153.D	2.5	AZ95329W12 2/800 SGC	water	8-21-19 1:25:13
32	54	814154.D	2.5	AZ95330W12 2/800 SGC	water	8-21-19 1:45:09
33	55	814155.D	2.5	AZ95332W13 2/800 SGC	water	8-21-19 2:05:05
34	58	814158.D	1	Diesel/Motor Oil CCV 8/08/19	water	8-21-19 3:04:13
35	59	814159.D	1	Decanoic Acid CCV 8/07/19	water	8-21-19 3:24:06

ORGANICS
Calibration Data

PAH by GCMS SIM
EPA 8270 SIM

Form 6
Initial Calibration

Lab Name: APPL, Inc.

SDG No:

Case No:

Initial Cal. Date: 07/17/19

Matrix:

Instrument: Yoda

Initials: MA

0717Y003.D 0717Y004.D 0717Y005.D 0717Y006.D 0717Y007.D 0717Y008.D 0717Y009.D 0717Y010.D

		Compound	0.1	0.2	0.5	1	5	10	50	100		Avg	%RSD	Type	r^2	Q	MRF
1	I	Napthalene-D8(IS)															
2	SL	Surrogate Recovery (NBZ)			0.1517	0.2458	0.2053	0.2373	0.3108	0.3194		0.25	26	SL	0.999		
3	TM	Naphthalene	1.553	1.439	1.409	1.423	1.251	1.286	0.9952			1.3	14	TM			0.700
4	S	2-Methylnaphthalene-D10 (2M)	1.355	1.223	1.169	1.151	0.9967	1.042	1.155	1.130		1.2	9.5	S			
5	TM	2-Methylnaphthalene	0.8712	0.8109	0.8424	0.8624	0.8306	0.8597	0.6871	0.6384		0.80	11	TM			0.400
6	TM	1-Methylnaphthalene	1.117	1.084	1.017	0.9774	0.8494	0.8545				0.98	11	TM			
7	I	Acenaphthene-D10(IS)															
8	S	Surrogate Recovery (FBP)		1.482	1.479	1.494	1.344	1.375	1.473	1.456		1.4	4.1	S			
9	TM	Acenaphthylene	5.064	4.292	4.377	4.564	4.729	4.842	3.887	3.665		4.4	11	TM			0.900
10	*TM	Acenaphthene	2.037	1.809	1.779	1.739	1.603	1.610	1.297			1.7	13	*TM			0.900
11	TM	Fluorene	2.171	1.944	1.947	1.998	1.890	1.953	1.546	1.418		1.9	13	TM			0.900
12	I	Phenanthrene-D10(IS)															
13	TM	Phenanthrene	1.732	1.558	1.551	1.588	1.428	1.448	1.101			1.5	13	TM			0.700
14	TM	Anthracene	1.379	1.217	1.228	1.323	1.331	1.414	1.132	1.006		1.3	11	TM			0.700
15	S	Fluoranthene-D10 (FRT)	1.337	1.034	1.012	1.059	1.002	1.195	1.189	1.147		1.1	10	S			
16	*TM	Fluoranthene	2.252	1.815	1.838	1.928	1.834	1.888	1.442			1.9	13	*TM			0.600
17	I	Chrysene-D12(IS)															
18	TM	Pyrene	2.231	1.845	1.552	1.766	1.706	1.763	1.364			1.7	15	TM			0.600
19	S	Surrogate Recovery (TPH)		1.143	0.8928	0.9491	0.8358	0.9421	0.9482	0.9507		0.95	9.9	S			
20	TM	Benz (a) anthracene	1.938	1.457	1.253	1.391	1.456	1.572				1.5	15	TM			0.800
21	TM	Chrysene	2.072	1.813	1.455	1.661	1.540	1.550				1.7	14	TM			0.700
22	TM	Indeno (1,2,3-cd) pyrene	2.177	1.873	1.538	1.748	1.709	1.814	1.462	1.468		1.7	14	TM			0.500
23	I	Perylene-D12(IS)															
24	TML	Benzo (b) fluoranthene	1.811	1.253	1.193	1.501	1.601	1.697				1.5	16	TML	0.999		0.700
25	TM	Benzo (k) fluoranthene	1.854	1.898	1.501	1.686	1.621	1.735	1.393	1.304		1.6	13	TM			0.700
26	*TM	Benzo (a) pyrene	1.838	1.447	1.257	1.434	1.489	1.613	1.309	1.230		1.5	14	*TM			0.700
27	TM	Dibenz (a,h) anthracene	1.818	1.560	1.309	1.510	1.531	1.638	1.344	1.298		1.5	12	TM			0.400
28	TM	Benzo (g,h,i) perylene	1.326	1.502	1.244	1.455	1.476	1.576	1.269	1.216		1.4	9.8	TM			0.500
29																	
30																	
31																	
32																	
33																	
34																	
35																	

Data File : M:\YODA\DATA\Y190717P\0717Y003.D
 Acq On : 17 Jul 19 9:51
 Sample : 0.1 SIM 07/10/19
 Misc :

Vial: 3
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 17 13:01 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 13:01:02 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8(IS)	4.72	136	111514	2.50000	ppb	0.01
7) Acenaphthene-D10(IS)	6.85	164	57226	2.50000	ppb	0.01
12) Phenanthrene-D10(IS)	8.61	188	112163	2.50000	ppb	0.01
17) Chrysene-D12(IS)	11.97	240	115994	2.50000	ppb	0.02
23) Perylene-D12(IS)	14.49	264	117205	2.50000	ppb	0.01

System Monitoring Compounds

2) Surrogate Recovery (NBZ)	3.79	82	219	0.64641	ppb	-0.01
Spiked Amount	5.000					
			Recovery	=	12.920%	
4) 2-Methylnaphthalene-D10 (2)	5.61	152	3022	0.05877	ppb	0.05
Spiked Amount	5.000					
			Recovery	=	1.180%	
8) Surrogate Recovery (FBP)	6.07	172	2034	0.05983	ppb	0.03
Spiked Amount	5.000					
			Recovery	=	1.200%	
15) Fluoranthene-D10 (FRT)	10.02	212	3000	0.05958	ppb	0.02
Spiked Amount	5.000					
			Recovery	=	1.200%	
19) Surrogate Recovery (TPH)	10.47	244	4308	0.09756	ppb	0.01
Spiked Amount	5.000					
			Recovery	=	1.960%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.75	128	6929	0.11621	ppb	98
5) 2-Methylnaphthalene	5.64	142	3886	0.10885	ppb	98
6) 1-Methylnaphthalene	5.75	142	4983	0.11361	ppb	96
9) Acenaphthylene	6.71	152	11592	0.11436	ppb	99
10) Acenaphthene	6.89	154	4662	0.12004	ppb	96
11) Fluorene	7.52	166	4970	0.11682	ppb	97
13) Phenanthrene	8.65	178	7771	0.11618	ppb	98
14) Anthracene	8.72	178	6186	0.10969	ppb	97
16) Fluoranthene	10.05	202	10104	0.12115	ppb	97
18) Pyrene	10.31	202	10352	0.12773	ppb	95
20) Benz (a) anthracene	11.94	228	8993	0.12825	ppb	99
21) Chrysene	12.02	228	9612	0.12285	ppb	97
22) Indeno (1,2,3-cd) pyrene	16.38	276	10102	0.12631	ppb	# 96
24) Benzo (b) fluoranthene	13.94	252	8488	0.20690	ppb	94
25) Benzo (k) fluoranthene	13.99	252	8692	0.11328	ppb	# 92
26) Benzo (a) pyrene	14.45	252	8616	0.12605	ppb	100
27) Dibenzo (a,h) anthracene	16.33	278	8524	0.12113	ppb	97
28) Benzo (g,h,i) perylene	16.89	276	6216	0.09266	ppb	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

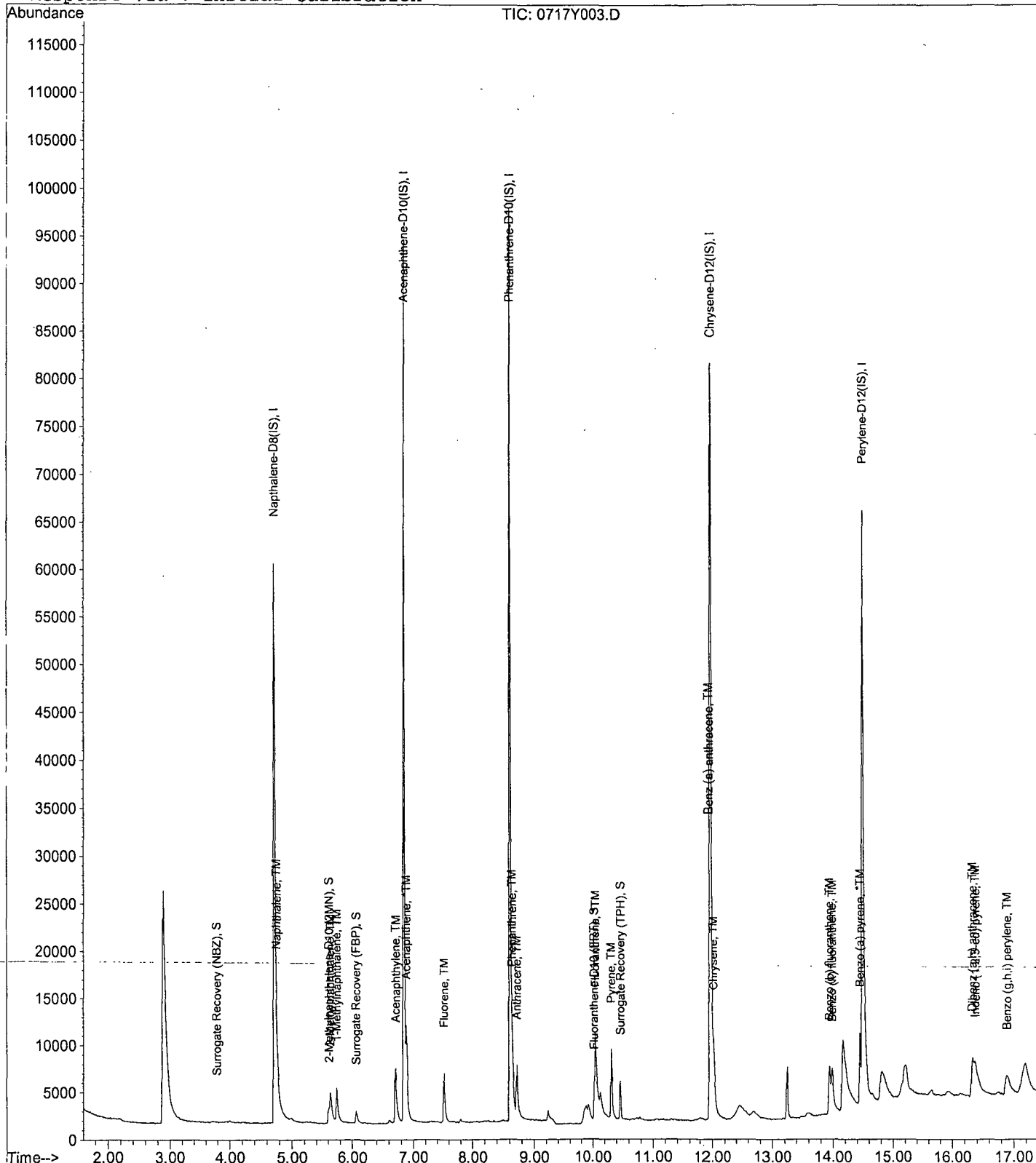
Data File : M:\YODA\DATA\Y190717P\0717Y003.D
Acq On : 17 Jul 19 9:51
Sample : 0.1 SIM 07/10/19
Misc :

Vial: 3
Operator: MA, SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 17 13:01 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Jul 17 13:35:41 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y004.D
 Acq On : 17 Jul 19 10:14
 Sample : 0.2 SIM 07/10/19
 Misc :

Vial: 4
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 17 12:36 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 12:32:05 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	4.72	136	104713	2.50000	ppb	0.02
7) Acenaphthene-D10(IS)	6.84	164	54673	2.50000	ppb	0.00
12) Phenanthrene-D10(IS)	8.60	188	102660	2.50000	ppb	0.00
17) Chrysene-D12(IS)	11.96	240	103577	2.50000	ppb	0.01
23) Perylene-D12(IS)	14.48	264	104410	2.50000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	3.85	82	481	0.04989	ppb	0.05
Spiked Amount	5.000					
Recovery				=	1.000%	
4) 2-Methylnaphthalene-D10 (2)	5.60	152	5121	0.10576	ppb	0.04
Spiked Amount	5.000					
Recovery				=	2.120%	
8) Surrogate Recovery (FBP)	6.07	172	3238	0.09941	ppb	0.03
Spiked Amount	5.000					
Recovery				=	1.980%	
15) Fluoranthene-D10 (FRT)	10.01	212	4244	0.09238	ppb	0.01
Spiked Amount	5.000					
Recovery				=	1.840%	
19) Surrogate Recovery (TPH)	10.46	244	4736	0.12009	ppb	0.00
Spiked Amount	5.000					
Recovery				=	2.400%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.75	128	12056	0.21534	ppb	99
5) 2-Methylnaphthalene	5.63	142	6793	0.19695	ppb	99
6) 1-Methylnaphthalene	5.74	142	9082	0.23052	ppb	96
9) Acenaphthylene	6.70	152	18753	0.18900	ppb	99
10) Acenaphthene	6.89	154	7905	0.21305	ppb	97
11) Fluorene	7.51	166	8496	0.20217	ppb	99
13) Phenanthrene	8.64	178	12506	0.20429	ppb	99
14) Anthracene	8.71	178	9876	0.18603	ppb	99
16) Fluoranthene	10.04	202	14846	0.19448	ppb	98
18) Pyrene	10.30	202	15206	0.21012	ppb	97
20) Benz (a) anthracene	11.95	228	12075	0.19734	ppb	97
21) Chrysene	12.01	228	14844	0.22083	ppb	98
22) Indeno (1,2,3-cd) pyrene	16.34	276	15408	0.21127	ppb	# 100
24) Benzo (b) fluoranthene	13.92	252	10464	0.16889	ppb	94
25) Benzo (k) fluoranthene	13.97	252	15432	0.21941	ppb	# 94
26) Benzo (a) pyrene	14.44	252	11773	0.18911	ppb	98
27) Dibenz (a,h) anthracene	16.30	278	13027	0.20387	ppb	99
28) Benzo (g,h,i) perylene	16.84	276	10603	0.17371	ppb	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

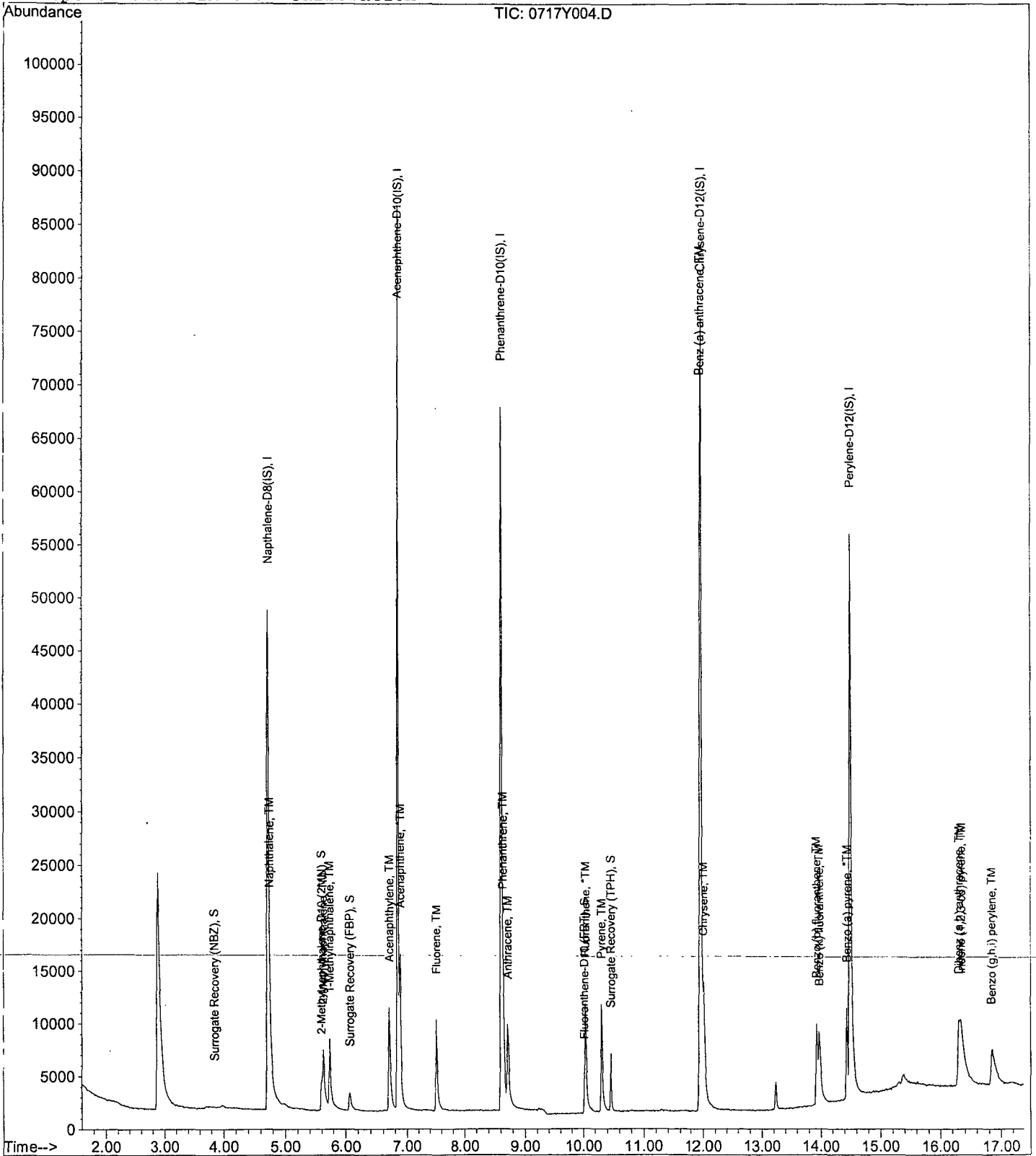
Data File : M:\YODA\DATA\Y190717P\0717Y004.D
 Acq On : 17 Jul 19 10:14
 Sample : 0.2 SIM 07/10/19
 Misc :

Vial: 4
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 17 12:36 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 13:35:41 2019
 Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y005.D Vial: 5
 Acq On : 17 Jul 19 10:38 Operator: MA, SS
 Sample : 0.5 SIM 07/10/19 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Jul 17 10:43 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 10:43:28 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.71	136	106830	2.50000	ppb	-0.01
7) Acenaphthene-D10 (IS)	6.84	164	54954	2.50000	ppb	-0.01
12) Phenanthrene-D10 (IS)	8.60	188	104266	2.50000	ppb	-0.01
17) Chrysene-D12 (IS)	11.95	240	124552	2.50000	ppb	-0.02
23) Perylene-D12 (IS)	14.48	264	125343	2.50000	ppb	0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.93	82	1621	0.13079	ppb	0.00
Spiked Amount	5.000		Recovery	=		2.620%
4) 2-Methylnaphthalene-D10 (2)	5.59	152	12493	0.23244	ppb	-0.01
Spiked Amount	5.000		Recovery	=		4.640%
8) Surrogate Recovery (FBP)	6.06	172	8128	0.17844	ppb	-0.01
Spiked Amount	5.000		Recovery	=		3.560%
15) Fluoranthene-D10 (FRT)	10.01	212	10551	0.14218	ppb	0.00
Spiked Amount	5.000		Recovery	=		2.840%
19) Surrogate Recovery (TPH)	10.46	244	11120	0.24058	ppb	0.00
Spiked Amount	5.000		Recovery	=		4.820%
Target Compounds						
3) Naphthalene	4.75	128	30095	0.58499	ppb	Qvalue 100
5) 2-Methylnaphthalene	5.61	142	17998	0.58022	ppb	97
6) 1-Methylnaphthalene	5.73	142	21738	0.63274	ppb	98
9) Acenaphthylene	6.69	152	48108	0.49102	ppb	99
10) Acenaphthene	6.89	154	19552	0.56031	ppb	90
11) Fluorene	7.51	166	21400	0.53166	ppb	95
13) Phenanthrene	8.64	178	32333	0.51671	ppb	98
14) Anthracene	8.71	178	25606	0.51896	ppb	98
16) Fluoranthene	10.04	202	38336	0.44177	ppb	97
18) Pyrene	10.31	202	38667	0.56813	ppb	96
20) Benz (a) anthracene	11.94	228	31214	0.55616	ppb	99
21) Chrysene	12.01	228	36246	0.52010	ppb	99
22) Indeno (1,2,3-cd) pyrene	16.29	276	38324	0.53772	ppb	# 83
24) Benzo (b) fluoranthene	13.91	252	29900	0.43563	ppb	99
25) Benzo (k) fluoranthene	13.96	252	37626	0.49232	ppb	98
26) Benzo (a) pyrene	14.43	252	31503	0.51638	ppb	97
27) Dibenz (a,h) anthracene	16.27	278	32815	0.46608	ppb	95
28) Benzo (g,h,i) perylene	16.79	276	31190	0.45491	ppb	# 92

(#) = qualifier out of range (m) = manual integration

Quantitation Report

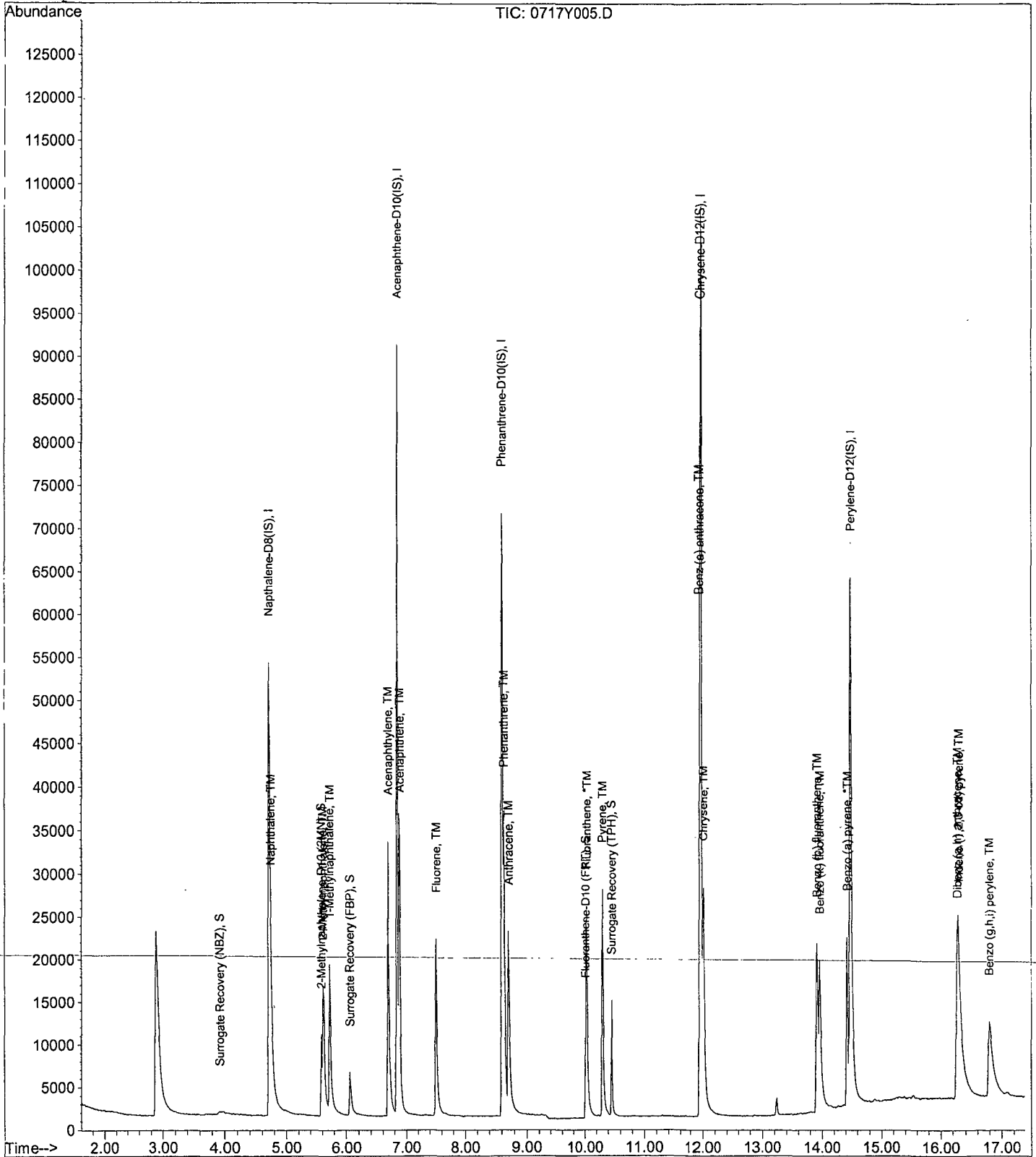
Data File : M:\YODA\DATA\Y190717P\0717Y005.D
 Acq On : 17 Jul 19 10:38
 Sample : 0.5 SIM 07/10/19
 Misc :

Vial: 5
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 17 10:43 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 13:35:41 2019
 Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y006.D
 Acq On : 17 Jul 19 11:01
 Sample : 1.0 SIM 07/10/19
 Misc :

Vial: 6
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 17 11:08 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 11:08:37 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.72	136	111652	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	6.84	164	55853	2.50000	ppb	-0.02
12) Phenanthrene-D10 (IS)	8.61	188	105324	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.95	240	115441	2.50000	ppb	-0.02
23) Perylene-D12 (IS)	14.48	264	113930	2.50000	ppb	0.01

System Monitoring Compounds

2) Surrogate Recovery (NBZ)	3.92	82	5489	0.42375	ppb	0.00
Spiked Amount	5.000		Recovery	=	8.480%	
4) 2-Methylnaphthalene-D10 (2)	5.59	152	25712	0.45773	ppb	-0.02
Spiked Amount	5.000		Recovery	=	9.160%	
8) Surrogate Recovery (FBP)	6.06	172	16691	0.36052	ppb	-0.02
Spiked Amount	5.000		Recovery	=	7.220%	
15) Fluoranthene-D10 (FRT)	10.00	212	22298	0.29747	ppb	-0.02
Spiked Amount	5.000		Recovery	=	5.940%	
19) Surrogate Recovery (TPH)	10.46	244	21914	0.51153	ppb	-0.01
Spiked Amount	5.000		Recovery	=	10.240%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.74	128	63563	1.18218	ppb	99
5) 2-Methylnaphthalene	5.61	142	38516	1.18806	ppb	100
6) 1-Methylnaphthalene	5.72	142	43653	1.21575	ppb	98
9) Acenaphthylene	6.69	152	101972	1.02405	ppb	99
10) Acenaphthene	6.89	154	38853	1.09550	ppb	88
11) Fluorene	7.51	166	44627	1.09087	ppb	94
13) Phenanthrene	8.64	178	66889	1.05820	ppb	98
14) Anthracene	8.71	178	55749	1.11853	ppb	97
16) Fluoranthene	10.02	202	81228	0.92664	ppb #	91
18) Pyrene	10.29	202	81542	1.29264	ppb #	86
20) Benz (a) anthracene	11.93	228	64225	1.23466	ppb	99
21) Chrysene	12.00	228	76689	1.18726	ppb	98
22) Indeno (1,2,3-cd) pyrene	16.24	276	80695	1.22158	ppb #	80
24) Benzo (b) fluoranthene	13.89	252	68390	1.09622	ppb	100
25) Benzo (k) fluoranthene	13.94	252	76839	1.10612	ppb	99
26) Benzo (a) pyrene	14.41	252	65347	1.17843	ppb	98
27) Dibenz (a,h) anthracene	16.24	278	68833	1.07558	ppb	98
28) Benzo (g,h,i) perylene	16.75	276	66316	1.06411	ppb #	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report

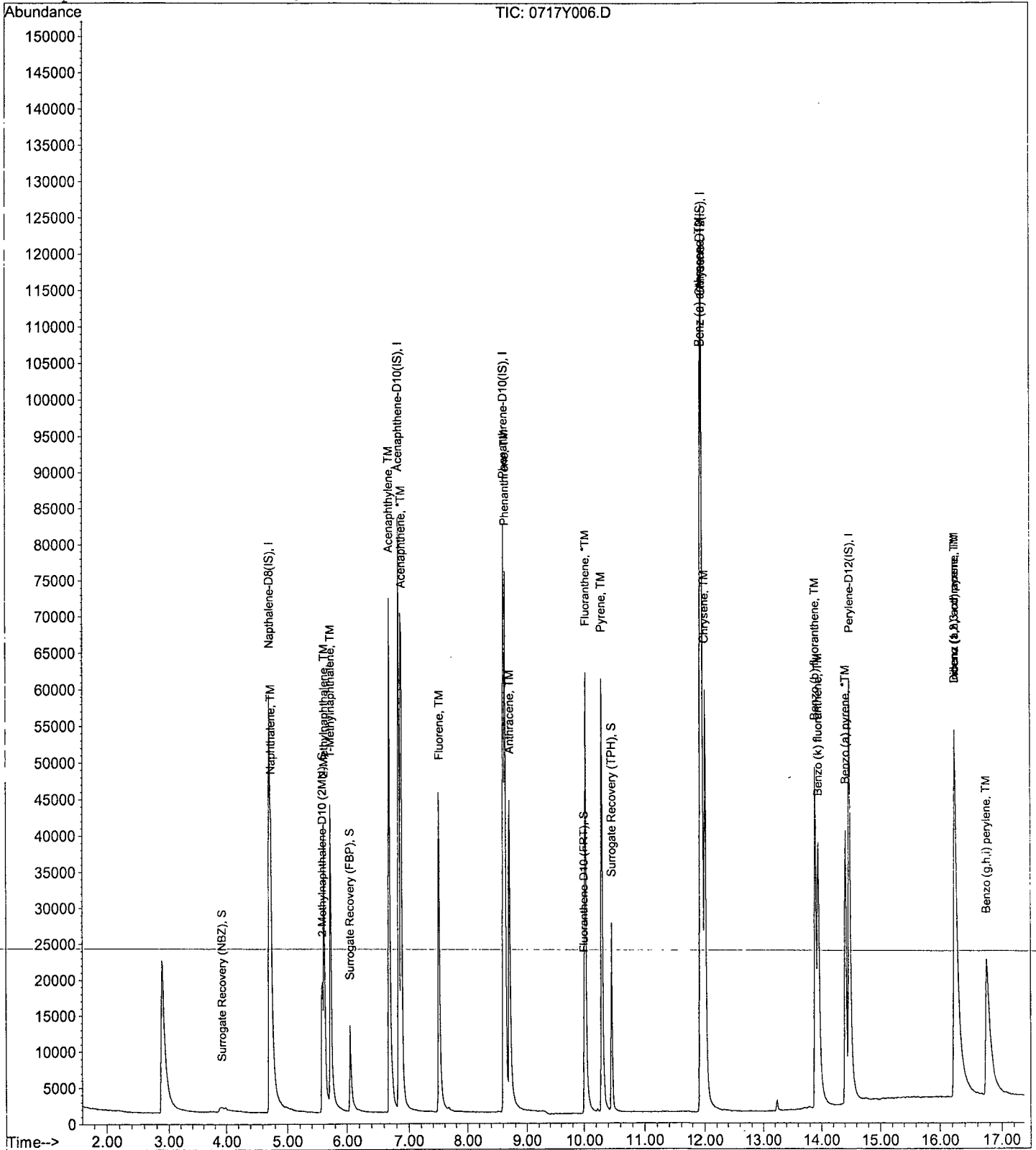
Data File : M:\YODA\DATA\Y190717P\0717Y006.D
Acq On : 17 Jul 19 11:01
Sample : 1.0 SIM 07/10/19
Misc :

Vial: 6
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 17 11:08 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Jul 17 13:35:41 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y007.D
 Acq On : 17 Jul 19 11:25
 Sample : 5.0 SIM 07/10/19
 Misc :

Vial: 7
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 17 13:02 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 13:02:08 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8(IS)	4.70	136	114310	2.50000	ppb	0.00
7) Acenaphthene-D10(IS)	6.84	164	57235	2.50000	ppb	0.00
12) Phenanthrene-D10(IS)	8.60	188	109744	2.50000	ppb	0.00
17) Chrysene-D12(IS)	11.94	240	119236	2.50000	ppb	0.00
23) Perylene-D12(IS)	14.48	264	113481	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.80	82	23465	2.22403	ppb	0.00
Spiked Amount	5.000		Recovery	=	44.480%	
4) 2-Methylnaphthalene-D10 (2)	5.56	152	113931	2.16141	ppb	0.00
Spiked Amount	5.000		Recovery	=	43.220%	
8) Surrogate Recovery (FBP)	6.04	172	76794	2.25850	ppb	0.00
Spiked Amount	5.000		Recovery	=	45.160%	
15) Fluoranthene-D10 (FRT)	10.00	212	110003	2.23265	ppb	0.00
Spiked Amount	5.000		Recovery	=	44.660%	
19) Surrogate Recovery (TPH)	10.46	244	99653	2.19550	ppb	0.00
Spiked Amount	5.000		Recovery	=	43.900%	
Target Compounds						
3) Naphthalene	4.73	128	286024	4.67985	ppb	100
5) 2-Methylnaphthalene	5.60	142	189901	5.18928	ppb	100
6) 1-Methylnaphthalene	5.72	142	194200	4.31918	ppb	100
9) Acenaphthylene	6.68	152	540886	5.33527	ppb	100
10) Acenaphthene	6.87	154	183392	4.72137	ppb	100
11) Fluorene	7.49	166	216112	5.07897	ppb	100
13) Phenanthrene	8.62	178	313376	4.78857	ppb	100
14) Anthracene	8.70	178	291160	5.27669	ppb	100
16) Fluoranthene	10.01	202	402342	4.93037	ppb	100
18) Pyrene	10.28	202	406809	4.88304	ppb	100
20) Benz (a) anthracene	11.92	228	347245	4.81756	ppb	100
21) Chrysene	11.99	228	366452	4.55630	ppb	100
22) Indeno (1,2,3-cd) pyrene	16.20	276	407562	4.95728	ppb	100
24) Benzo (b) fluoranthene	13.87	252	363305	4.81494	ppb	100
25) Benzo (k) fluoranthene	13.92	252	369414	4.97264	ppb	100
26) Benzo (a) pyrene	14.39	252	335875	5.07483	ppb	100
27) Dibenz (a,h) anthracene	16.20	278	347519	5.10035	ppb	100
28) Benzo (g,h,i) perylene	16.69	276	330592	5.08990	ppb	100

Quantitation Report

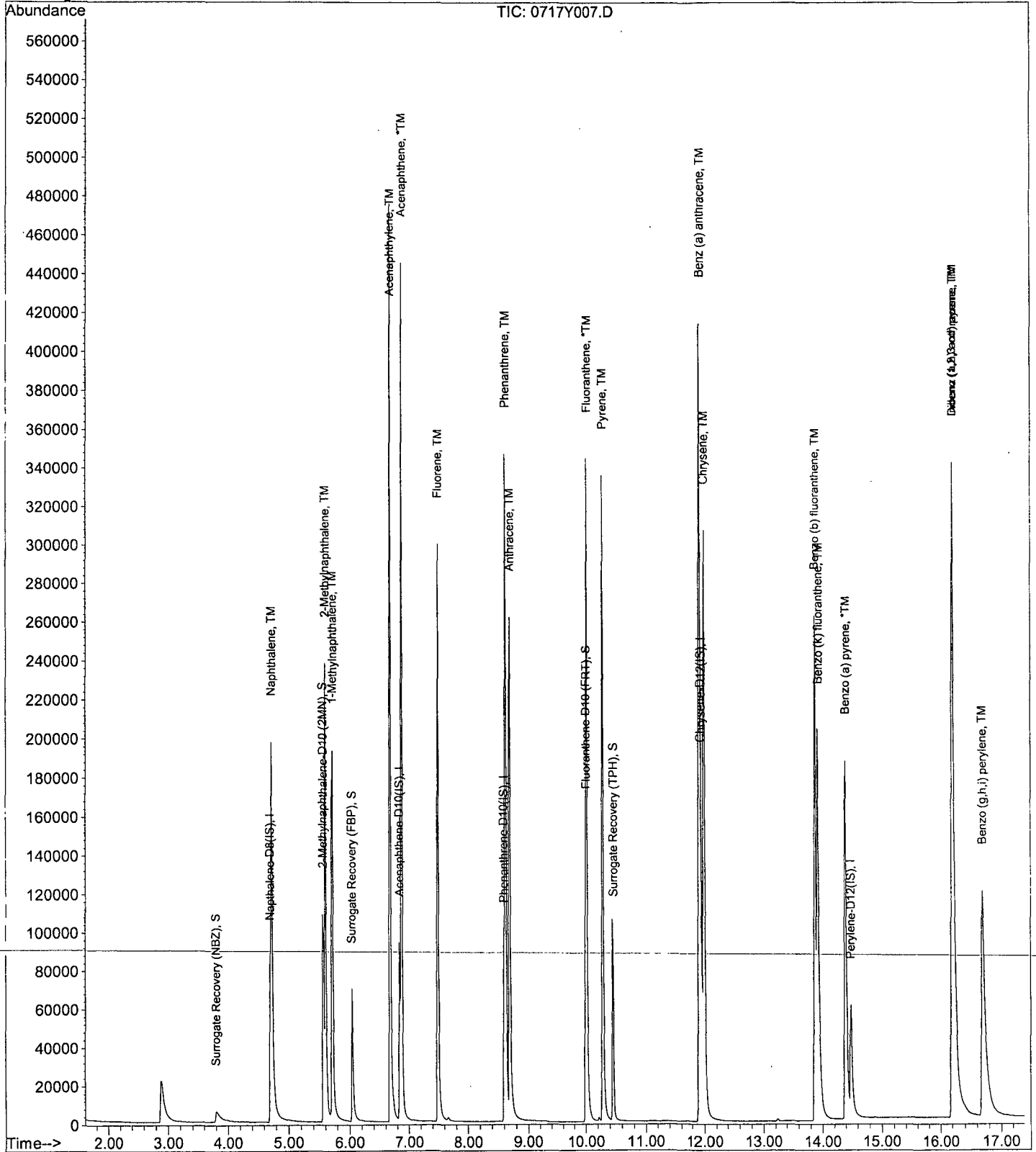
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Acq On : 17 Jul 19 11:25
Sample : 5.0 SIM 07/10/19
Misc :

Vial: 7
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 17 13:02 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Jul 17 13:35:41 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y008.D
 Acq On : 17 Jul 19 11:48
 Sample : 10 SIM 07/10/19
 Misc :

Vial: 8
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 17 12:17 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 12:16:55 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	4.71	136	112785	2.50000	ppb	0.00
7) Acenaphthene-D10(IS)	6.84	164	57579	2.50000	ppb	0.00
12) Phenanthrene-D10(IS)	8.60	188	110627	2.50000	ppb	0.00
17) Chrysene-D12(IS)	11.93	240	118772	2.50000	ppb	-0.01
23) Perylene-D12(IS)	14.48	264	112091	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.78	82	53537	4.62492	ppb	-0.02
Spiked Amount	5.000		Recovery	=	92.500%	
4) 2-Methylnaphthalene-D10 (2)	5.56	152	235122	4.34514	ppb	0.00
Spiked Amount	5.000		Recovery	=	86.900%	
8) Surrogate Recovery (FBP)	6.04	172	158308	4.21887	ppb	0.00
Spiked Amount	5.000		Recovery	=	84.380%	
15) Fluoranthene-D10 (FRT)	9.99	212	264484	4.21131	ppb	-0.01
Spiked Amount	5.000		Recovery	=	84.220%	
19) Surrogate Recovery (TPH)	10.45	244	223786	4.60444	ppb	-0.01
Spiked Amount	5.000		Recovery	=	92.080%	
Target Compounds						
3) Naphthalene	4.73	128	580219	9.94920	ppb	99
5) 2-Methylnaphthalene	5.60	142	387867	10.69107	ppb	97
6) 1-Methylnaphthalene	5.71	142	385488	9.40770	ppb	96
9) Acenaphthylene	6.68	152	1115129	10.20838	ppb	99
10) Acenaphthene	6.88	154	370915	9.56817	ppb	96
11) Fluorene	7.48	166	449884	10.02152	ppb	94
13) Phenanthrene	8.62	178	640553	9.44535	ppb	99
14) Anthracene	8.69	178	625887	10.53009	ppb	99
16) Fluoranthene	10.01	202	835310	9.24893	ppb	96
18) Pyrene	10.28	202	837724	10.86096	ppb	93
20) Benz (a) anthracene	11.92	228	746877	10.90485	ppb	99
21) Chrysene	11.98	228	736209	10.10186	ppb	98
22) Indeno (1,2,3-cd) pyrene	16.18	276	861660	10.69768	ppb	100
24) Benzo (b) fluoranthene	13.87	252	760704	11.45890	ppb	# 95
25) Benzo (k) fluoranthene	13.91	252	777741	10.35106	ppb	99
26) Benzo (a) pyrene	14.37	252	723216	10.92796	ppb	# 96
27) Dibenz (a,h) anthracene	16.19	278	734521	10.67982	ppb	98
28) Benzo (g,h,i) perylene	16.67	276	706722	10.75207	ppb	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

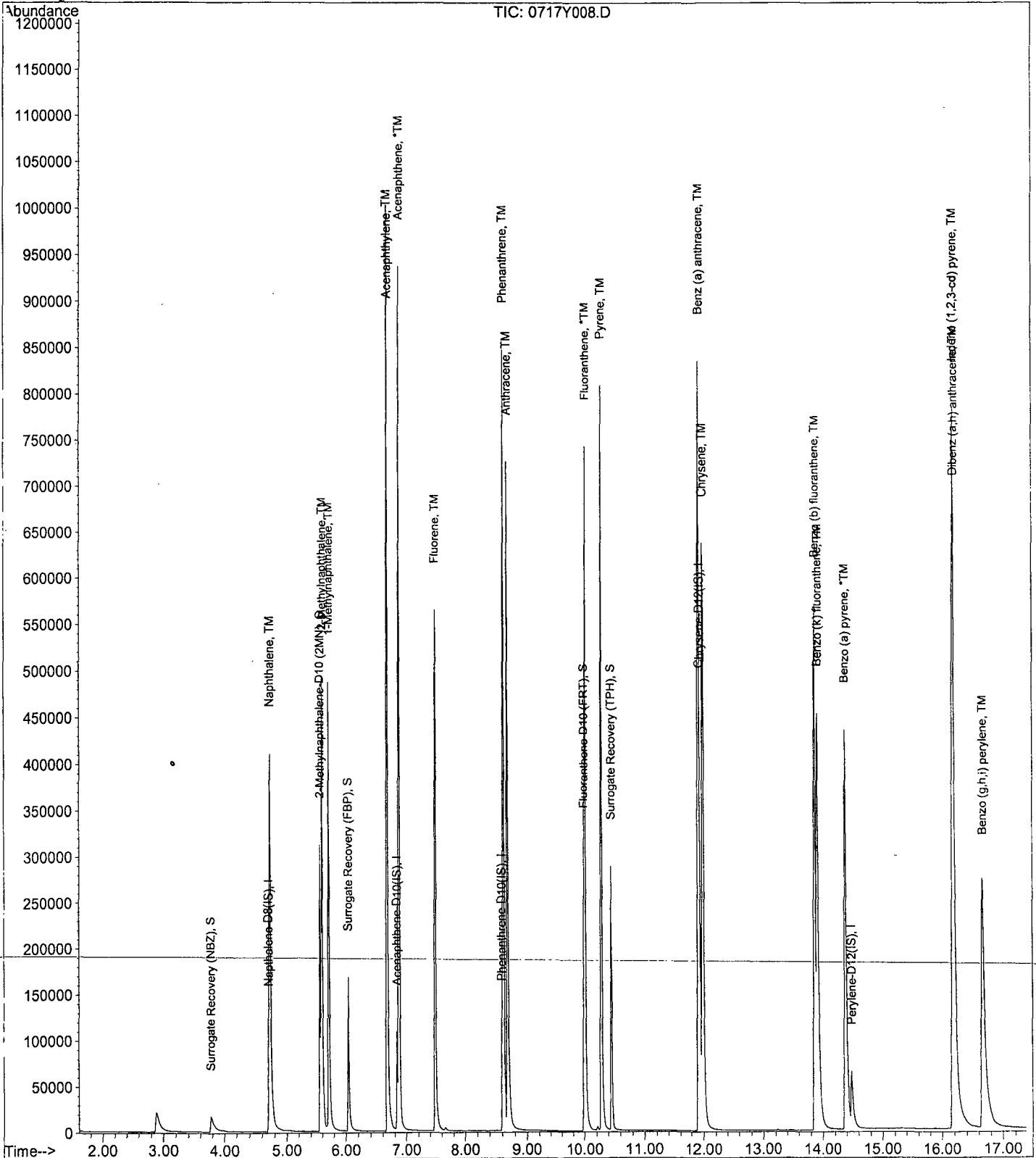
Data File : M:\YODA\DATA\Y190717P\0717Y008.D
Acq On : 17 Jul 19 11:48
Sample : 10 SIM 07/10/19
Misc :

Vial: 8
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 17 12:17 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Jul 17 13:35:41 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y009.D
 Acq On : 17 Jul 19 12:11
 Sample : 50 SIM 07/10/19
 Misc :

Vial: 9
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 17 12:17 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 12:16:55 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	4.71	136	109001	2.50000	ppb	0.00
7) Acenaphthene-D10(IS)	6.84	164	57556	2.50000	ppb	0.00
12) Phenanthrene-D10(IS)	8.60	188	111042	2.50000	ppb	0.00
17) Chrysene-D12(IS)	11.93	240	119923	2.50000	ppb	-0.01
23) Perylene-D12(IS)	14.48	264	114306	2.50000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	3.74	82	338807	30.63060	ppb	-0.06
Spiked Amount	5.000					
					Recovery = 612.620%	
4) 2-Methylnaphthalene-D10 (2)	5.55	152	1258518	24.53932	ppb	-0.01
Spiked Amount	5.000					
					Recovery = 490.780%	
8) Surrogate Recovery (FBP)	6.03	172	847677	23.51675	ppb	-0.01
Spiked Amount	5.000					
					Recovery = 470.340%	
15) Fluoranthene-D10 (FRT)	9.99	212	1320833	22.42688	ppb	-0.01
Spiked Amount	5.000					
					Recovery = 448.540%	
19) Surrogate Recovery (TPH)	10.45	244	1137090	23.01060	ppb	-0.01
Spiked Amount	5.000					
					Recovery = 460.220%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.72	128	2169505	38.27856	ppb	99
5) 2-Methylnaphthalene	5.59	142	1497930	42.35345	ppb	99
6) 1-Methylnaphthalene	5.71	142	1491974	37.42326	ppb	99
9) Acenaphthylene	6.67	152	4474703	41.76386	ppb	99
10) Acenaphthene	6.88	154	1492800	38.60402	ppb	92
11) Fluorene	7.48	166	1779419	39.92321	ppb	98
13) Phenanthrene	8.62	178	2445747	36.46600	ppb	97
14) Anthracene	8.69	178	2513890	42.88802	ppb	98
16) Fluoranthene	10.01	202	3202788	36.70567	ppb	92
18) Pyrene	10.28	202	3270777	41.29212	ppb	# 89
20) Benz (a) anthracene	11.91	228	3047141	43.28209	ppb	97
21) Chrysene	11.98	228	2972451	40.07734	ppb	98
22) Indeno (1,2,3-cd) pyrene	16.17	276	3507566	42.68766	ppb	97
24) Benzo (b) fluoranthene	13.86	252	3042168	44.61200	ppb	95
25) Benzo (k) fluoranthene	13.90	252	3184479	41.91846	ppb	96
26) Benzo (a) pyrene	14.36	252	2991745	44.23949	ppb	# 94
27) Dibenz (a,h) anthracene	16.18	278	3071475	43.89671	ppb	96
28) Benzo (g,h,i) perylene	16.64	276	2901323	43.42396	ppb	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

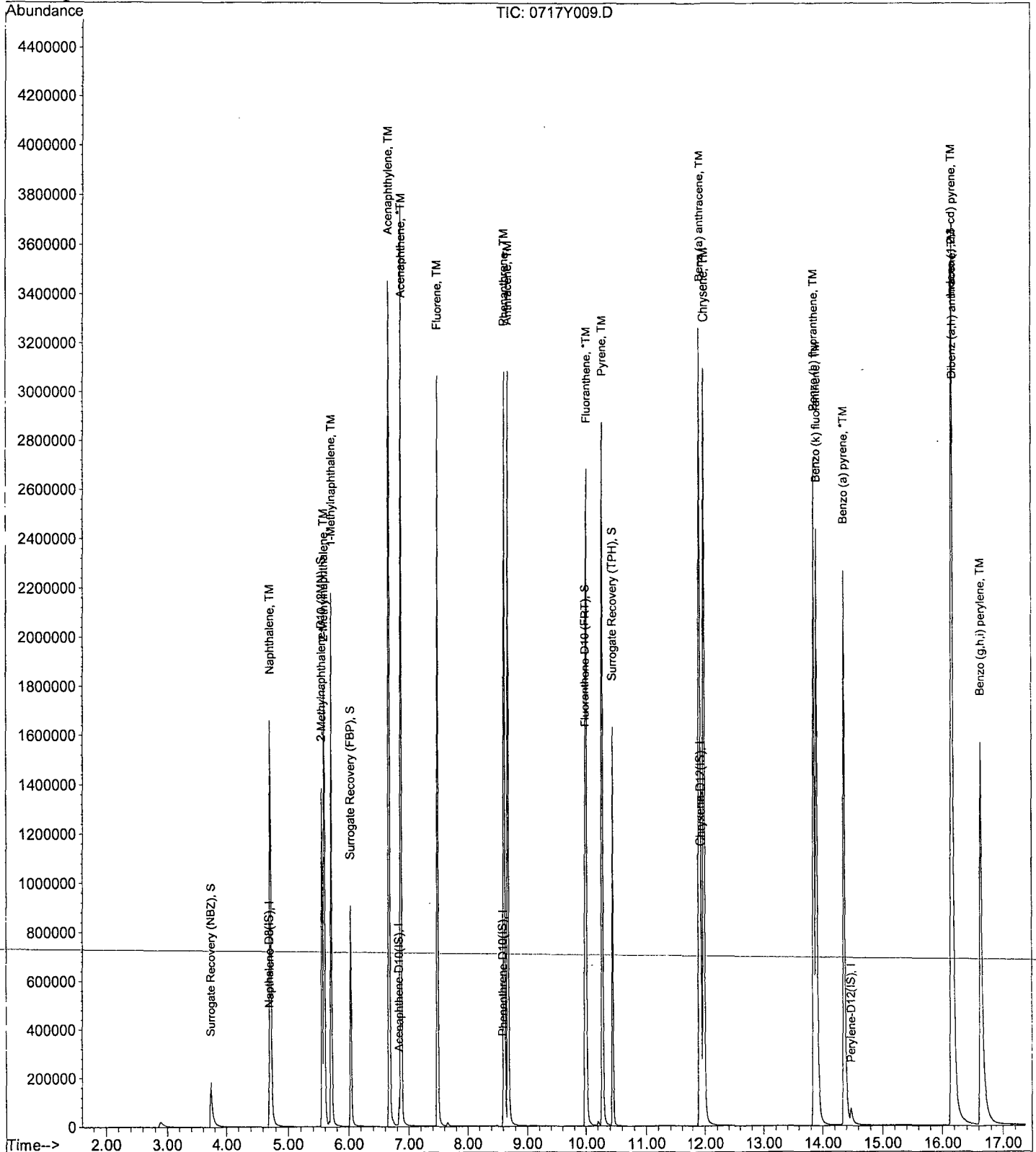
Data File : M:\YODA\DATA\Y190717P\0717Y009.D
Acq On : 17 Jul 19 12:11
Sample : 50 SIM 07/10/19
Misc :

Vial: 9
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 17 12:17 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Jul 17 13:35:41 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y010.D
 Acq On : 17 Jul 19 12:35
 Sample : 100 SIM 07/10/19
 Misc :

Vial: 10
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 17 12:41 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 12:40:49 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	4.70	136	114626	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	6.84	164	59383	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	8.60	188	118298	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.93	240	125343	2.50000	ppb	0.00
23) Perylene-D12 (IS)	14.48	264	122799	2.50000	ppb	0.00

System Monitoring Compounds

2) Surrogate Recovery (NBZ)	3.73	82	732231	69.37506	ppb	-0.07
Spiked Amount	5.000		Recovery	= 1387.500%		
4) 2-Methylnaphthalene-D10 (2)	5.55	152	2591528	48.89332	ppb	0.00
Spiked Amount	5.000		Recovery	= 977.860%		
8) Surrogate Recovery (FBP)	6.03	172	1729303	48.88181	ppb	0.00
Spiked Amount	5.000		Recovery	= 977.640%		
15) Fluoranthene-D10 (FRT)	9.99	212	2714747	51.27848	ppb	0.00
Spiked Amount	5.000		Recovery	= 1025.560%		
19) Surrogate Recovery (TPH)	10.45	244	2383177	49.93776	ppb	0.00
Spiked Amount	5.000		Recovery	= 998.760%		

Target Compounds

						Qvalue
3) Napthalene	4.72	128	4131317	67.40920	ppb	98
5) 2-Methylnaphthalene	5.59	142	2926900	77.51933	ppb	99
6) 1-Methylnaphthalene	5.71	142	2890239	67.01478	ppb	100
9) Acenaphthylene	6.67	152	8706116	80.78205	ppb	98
10) Acenaphthene	6.88	154	2806475	69.63830	ppb	97
11) Fluorene	7.48	166	3367396	73.77615	ppb	99
13) Phenanthrene	8.63	178	4676426	66.29145	ppb	96
14) Anthracene	8.69	178	4759973	77.80720	ppb	95
16) Fluoranthene	10.01	202	6112167	69.48362	ppb	98
18) Pyrene	10.28	202	6337915	72.36922	ppb	95
20) Benz (a) anthracene	11.92	228	6149247	83.04631	ppb	96
21) Chrysene	11.99	228	5731027	70.45313	ppb	97
22) Indeno (1,2,3-cd) pyrene	16.17	276	7362396	83.42239	ppb	92
24) Benzo (b) fluoranthene	13.86	252	5980790	82.07402	ppb	96
25) Benzo (k) fluoranthene	13.90	252	6406000	77.44013	ppb	# 93
26) Benzo (a) pyrene	14.37	252	6040854	82.50231	ppb	96
27) Dibenz (a,h) anthracene	16.18	278	6377024	84.85276	ppb	96
28) Benzo (g,h,i) perylene	16.64	276	5973947	83.21411	ppb	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

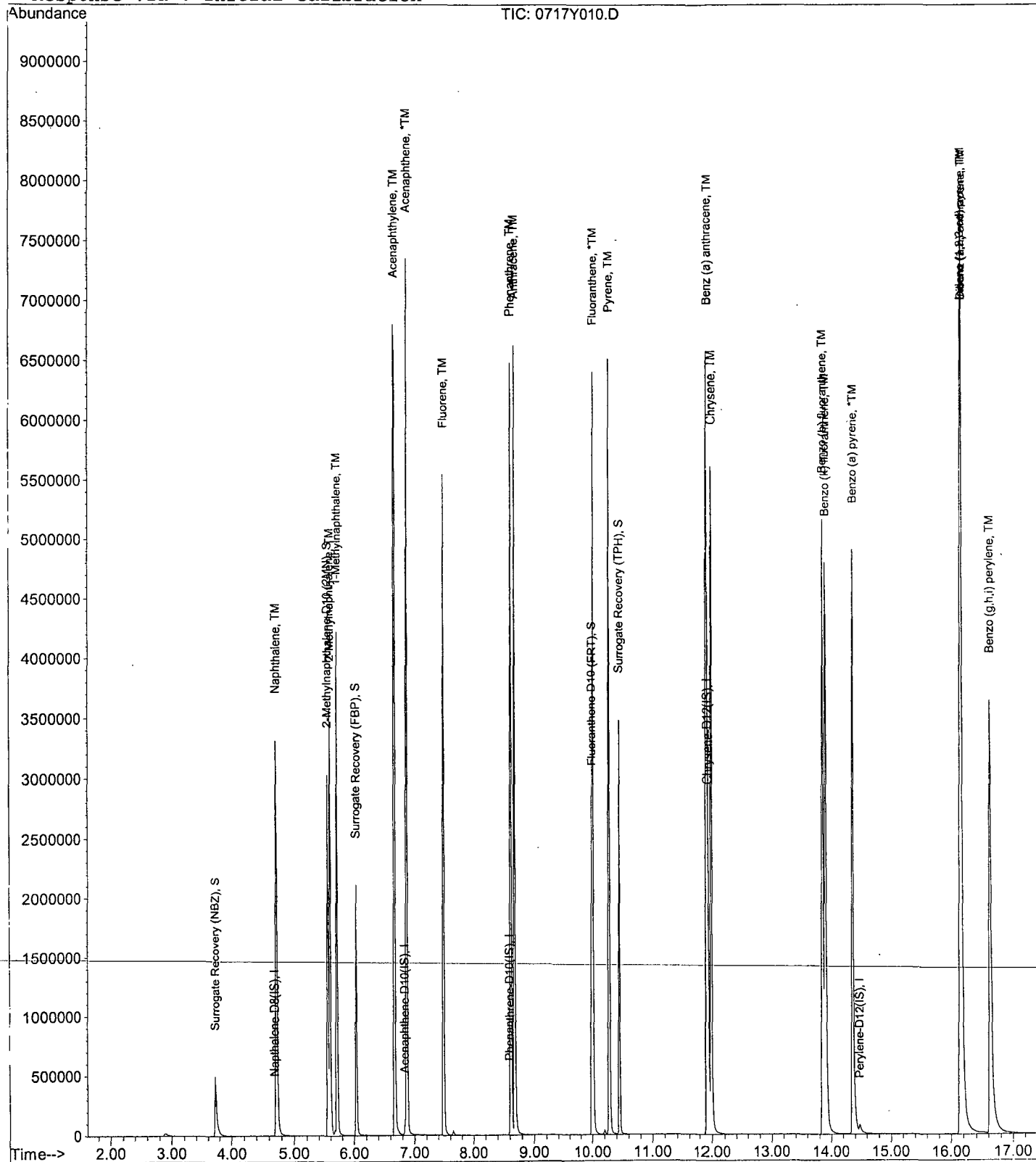
Data File : M:\YODA\DATA\Y190717P\0717Y010.D
Acq On : 17 Jul 19 12:35
Sample : 100 SIM 07/10/19
Misc :

Vial: 10
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 17 12:41 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Jul 17 13:35:41 2019
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/17/19
Instrument: Yoda
Initial Cal. Date: 07/17/19
Data File: 0717Y012.D

		Compound	MEAN	CCRF	%D	%Drift
1	TM	Naphthalene	1.337	1.122	16	TM
2	TM	2-Methylnaphthalene	0.8003	0.7338	8.3	TM
3	TM	1-Methylnaphthalene	0.9833	0.8071	18	TM
4	TM	Acenaphthylene	4.428	3.998	9.7	TM
5	*TM	Acenaphthene	1.696	1.380	19	*TM
6	TM	Fluorene	1.858	1.636	12	TM
7	TM	Phenanthrene	1.486	1.297	13	TM
8	TM	Anthracene	1.254	1.123	10	TM
9	*TM	Fluoranthene	1.857	1.606	14	*TM
10	TM	Pyrene	1.747	1.523	13	TM
11	TM	Benz (a) anthracene	1.511	1.272	16	TM
12	TM	Chrysene	1.682	1.390	17	TM
13	TM	Indeno (1,2,3-cd) pyrene	1.724	1.471	15	TM
14	TML	Benzo (b) fluoranthene	1.509	1.362	9.7	TML 18
15	TM	Benzo (k) fluoranthene	1.624	1.571	3.3	TM
16	*TM	Benzo (a) pyrene	1.452	1.284	12	*TM
17	TM	Dibenz (a,h) anthracene	1.501	1.365	9.0	TM
18	TM	Benzo (g,h,i) perylene	1.383	1.304	5.7	TM
19						
20						
21						
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39						
40						

Average

12.3

Data File : M:\YODA\DATA\Y190717P\0717Y012.D
 Acq On : 17 Jul 19 13:32
 Sample : SS SIM 07/10/19
 Misc :

Vial: 12
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 17 13:54 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 13:35:41 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	4.72	136	113489	2.50000	ppb	0.01
7) Acenaphthene-D10(IS)	6.85	164	57573	2.50000	ppb	0.01
12) Phenanthrene-D10(IS)	8.61	188	106559	2.50000	ppb	0.01
17) Chrysene-D12(IS)	11.95	240	116279	2.50000	ppb	0.00
23) Perylene-D12(IS)	14.48	264	107289	2.50000	ppb	0.00

System Monitoring Compounds

2) Surrogate Recovery (NBZ)	0.00	82	0d	0.63118	ppb	
Spiked Amount	5.000		Recovery	=	12.620%	
4) 2-Methylnaphthalene-D10 (2)	0.00	152	0d	0.00000	ppb	
Spiked Amount	5.000		Recovery	=	0.000%	
8) Surrogate Recovery (FBP)	0.00	172	0d	0.00000	ppb	
Spiked Amount	5.000		Recovery	=	0.000%	
15) Fluoranthene-D10 (FRT)	0.00	212	0d	0.00000	ppb	
Spiked Amount	5.000		Recovery	=	0.000%	
19) Surrogate Recovery (TPH)	0.00	244	0d	0.00000	ppb	
Spiked Amount	5.000		Recovery	=	0.000%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.74	128	254734	4.19804	ppb	99
5) 2-Methylnaphthalene	5.60	142	166552	4.58416	ppb	97
6) 1-Methylnaphthalene	5.72	142	183184	4.10365	ppb	98
9) Acenaphthylene	6.68	152	460304	4.51437	ppb	99
10) Acenaphthene	6.87	154	158939	4.06847	ppb	97
11) Fluorene	7.49	166	188407	4.40247	ppb	98
13) Phenanthrene	8.63	178	276456	4.36335	ppb	98
14) Anthracene	8.70	178	239371	4.47930	ppb	99
16) Fluoranthene	10.02	202	342243	4.32429	ppb	92
18) Pyrene	10.29	202	354213	4.35984	ppb	# 88
20) Benz (a) anthracene	11.92	228	295879	4.20931	ppb	99
21) Chrysene	11.99	228	323306	4.13361	ppb	99
22) Indeno (1,2,3-cd) pyrene	16.20	276	342109	4.26698	ppb	95
24) Benzo (b) fluoranthene	13.88	252	292264	4.11192	ppb	100
25) Benzo (k) fluoranthene	13.92	252	337070	4.83639	ppb	100
26) Benzo (a) pyrene	14.39	252	275586	4.42266	ppb	99
27) Dibenz (a,h) anthracene	16.21	278	292997	4.54834	ppb	98
28) Benzo (g,h,i) perylene	16.69	276	279830	4.71433	ppb	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

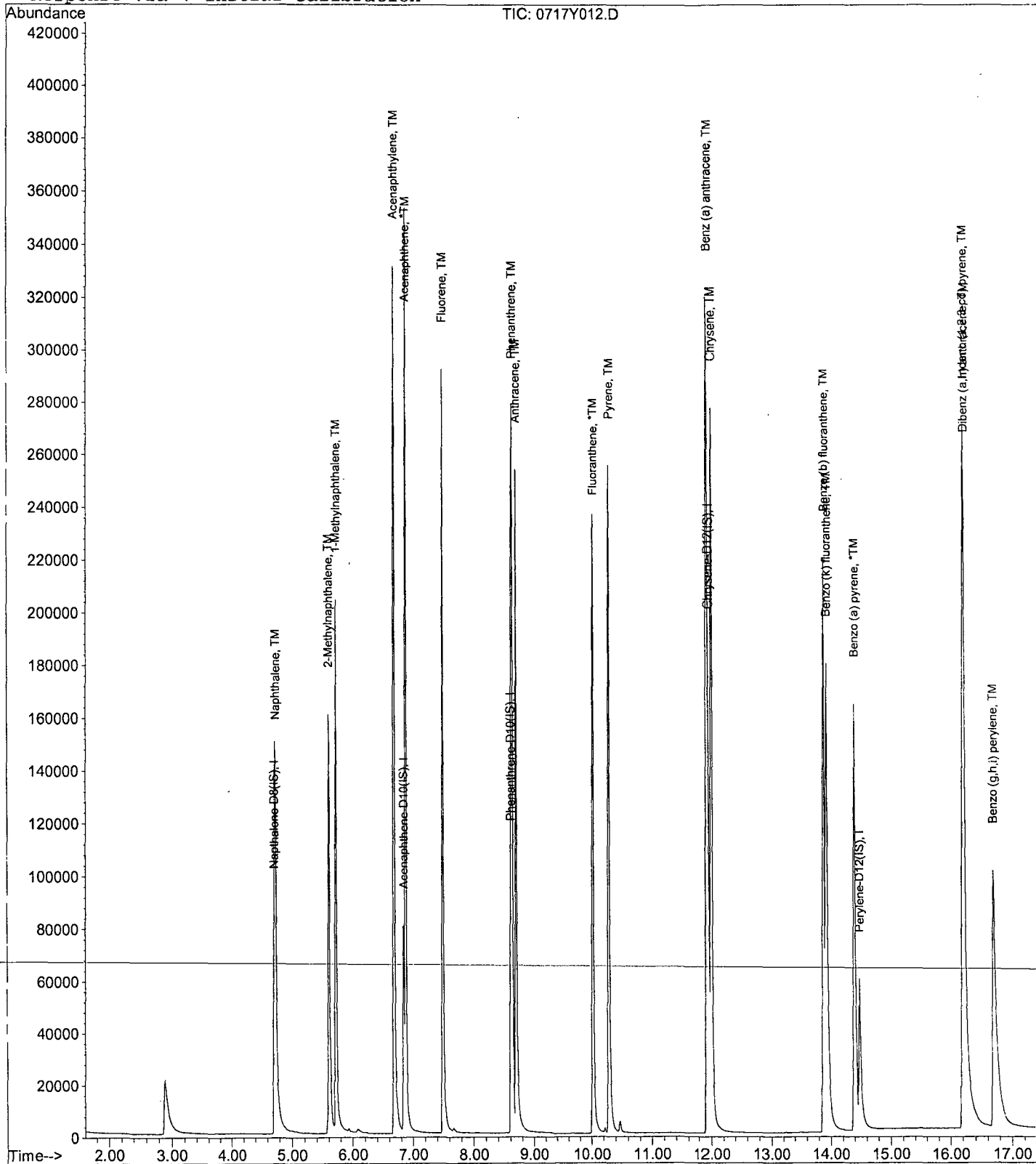
Data File : M:\YODA\DATA\Y190717P\0717Y012.D
Acq On : 17 Jul 19 13:32
Sample : SS SIM 07/10/19
Misc :

Vial: 12
Operator: MA, SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 17 13:54 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Jul 17 13:35:41 2019
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/30/19
Instrument: Yoda
Initial Cal. Date: 07/17/19
Data File: 0717Y272.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Napthalene-D8(IS)	ISTD			I	
2	SL	Surrogate Recovery (NBZ)	0.2451	0.2436	0.58	SL	0.87
3	TM	Napthalene	1.337	1.251	6.4	TM	
4	S	2-Methylnapthalene-D10 (2MN)	1.153	1.106	4.0	S	
5	TM	2-Methylnapthalene	0.8003	0.8485	6.0	TM	
6	TM	1-Methylnapthalene	0.9833	0.8622	12	TM	
7	I	Acenaphthene-D10(IS)	ISTD			I	
8	S	Surrogate Recovery (FBP)	1.443	1.372	4.9	S	
9	TM	Acenaphthylene	4.428	5.705	29	TM	*
10	*TM	Acenaphthene	1.696	1.553	8.4	*TM	
11	TM	Fluorene	1.858	1.929	3.8	TM	
12	I	Phenanthrene-D10(IS)	ISTD			I	
13	TM	Phenanthrene	1.486	1.333	10	TM	
14	TM	Anthracene	1.254	1.297	3.5	TM	
15	S	Fluoranthene-D10 (FRT)	1.122	1.161	3.5	S	
16	*TM	Fluoranthene	1.857	1.929	3.9	*TM	
17	I	Chrysene-D12(IS)	ISTD			I	
18	TM	Pyrene	1.747	1.444	17	TM	
19	S	Surrogate Recovery (TPH)	0.9517	0.8811	7.4	S	
20	TM	Benz (a) anthracene	1.511	1.409	6.7	TM	
21	TM	Chrysene	1.682	1.395	17	TM	
22	TM	Indeno (1,2,3-cd) pyrene	1.724	1.730	0.37	TM	
23	I	Perylene-D12(IS)	ISTD			I	
24	TML	Benzo (b) fluoranthene	1.509	1.444	4.3	TML	13
25	TM	Benzo (k) fluoranthene	1.624	1.340	17	TM	
26	*TM	Benzo (a) pyrene	1.452	1.330	8.4	*TM	
27	TM	Dibenz (a,h) anthracene	1.501	1.386	7.6	TM	
28	TM	Benzo (g,h,i) perylene	1.383	1.309	5.3	TM	
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

Average

8.1

Data File : M:\YODA\DATA\Y190717P\0717Y272.D
 Acq On : 30 Jul 19 10:06
 Sample : 5.0 SIM 07/10/19 (3)
 Misc :

Vial: 72
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 30 10:15 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	4.53	136	72290	2.50000	ppb	-0.05
7) Acenaphthene-D10 (IS)	6.66	164	38053	2.50000	ppb	-0.06
12) Phenanthrene-D10 (IS)	8.41	188	79844	2.50000	ppb	-0.08
17) Chrysene-D12 (IS)	11.68	240	107147	2.50000	ppb	-0.11
23) Perylene-D12 (IS)	14.21	264	115550	2.50000	ppb	-0.11

System Monitoring Compounds

2) Surrogate Recovery (NBZ)	3.60	82	17613	2.52175	ppb	-0.10
Spiked Amount	5.000					
						Recovery = 50.440%
4) 2-Methylnaphthalene-D10 (2)	5.39	152	79968	2.39893	ppb	-0.05
Spiked Amount	5.000					
						Recovery = 47.980%
8) Surrogate Recovery (FBP)	5.87	172	52212	2.37672	ppb	-0.08
Spiked Amount	5.000					
						Recovery = 47.540%
15) Fluoranthene-D10 (FRT)	9.81	212	92692	2.58671	ppb	-0.06
Spiked Amount	5.000					
						Recovery = 51.740%
19) Surrogate Recovery (TPH)	10.27	244	94408	2.31462	ppb	-0.05
Spiked Amount	5.000					
						Recovery = 46.300%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.55	128	180918	4.68077	ppb	99
5) 2-Methylnaphthalene	5.43	142	122676	5.30085	ppb	99
6) 1-Methylnaphthalene	5.54	142	124650	4.38379	ppb	96
9) Acenaphthylene	6.50	152	434171	6.44233	ppb	# 84
10) Acenaphthene	6.70	154	118200	4.57771	ppb	96
11) Fluorene	7.31	166	146782	5.18922	ppb	97
13) Phenanthrene	8.44	178	212891	4.48435	ppb	100
14) Anthracene	8.51	178	207176	5.17399	ppb	100
16) Fluoranthene	9.82	202	307986	5.19349	ppb	94
18) Pyrene	10.09	202	309379	4.13255	ppb	# 88
20) Benz (a) anthracene	11.65	228	302019	4.66286	ppb	100
21) Chrysene	11.72	228	298848m	4.14655	ppb	89
22) Indeno (1,2,3-cd) pyrene	15.82	276	370764	5.01851	ppb	# 98
24) Benzo (b) fluoranthene	13.60	252	333614	4.35212	ppb	100
25) Benzo (k) fluoranthene	13.64	252	309646	4.12527	ppb	98
26) Benzo (a) pyrene	14.12	252	307352	4.57981	ppb	98
27) Dibenz (a,h) anthracene	15.83	278	320397	4.61810	ppb	95
28) Benzo (g,h,i) perylene	16.29	276	302567	4.73296	ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

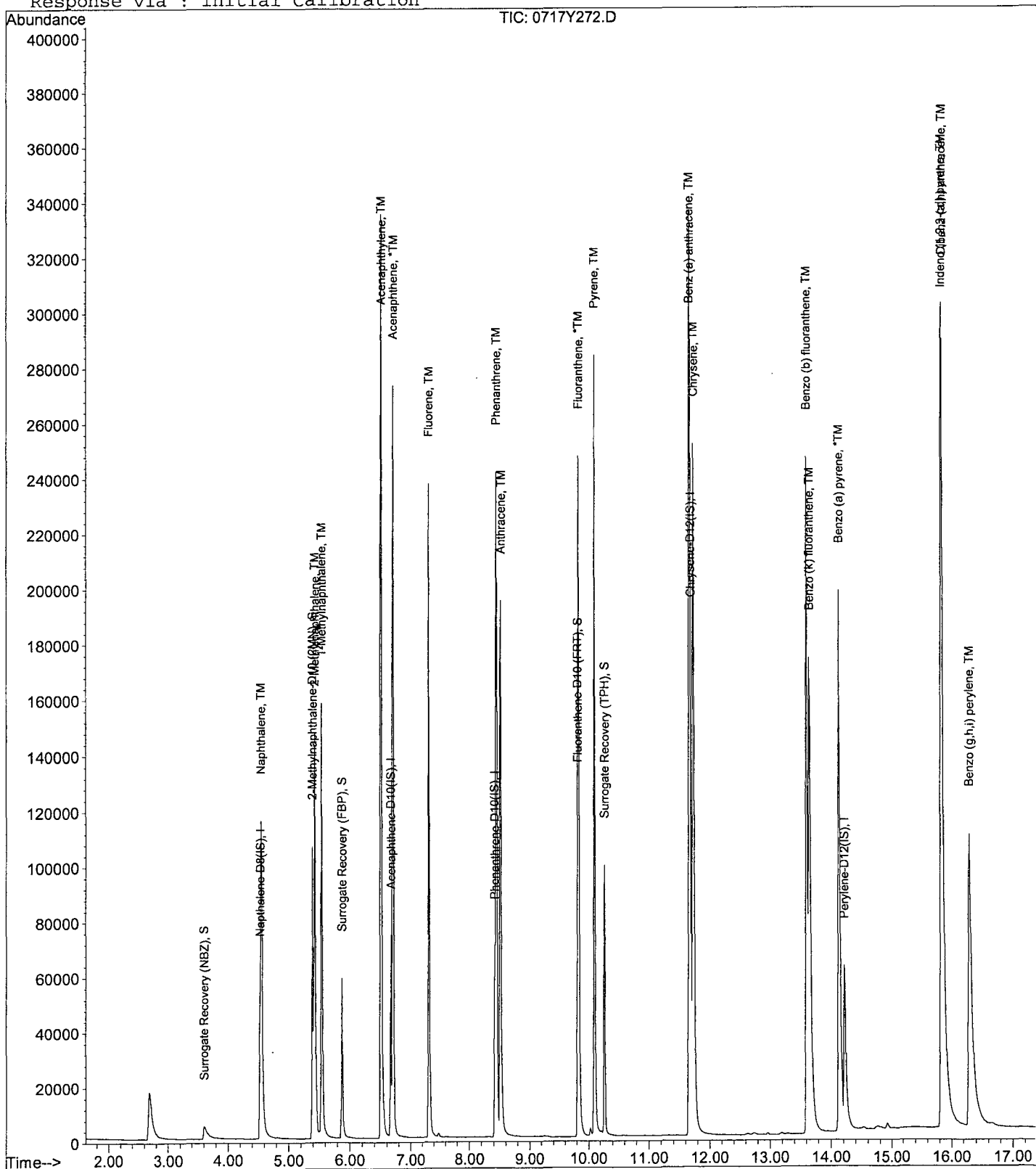
Data File : M:\YODA\DATA\Y190717P\0717Y272.D
Acq On : 30 Jul 19 10:06
Sample : 5.0 SIM 07/10/19 (3)
Misc :

Vial: 72
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 30 10:15 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration

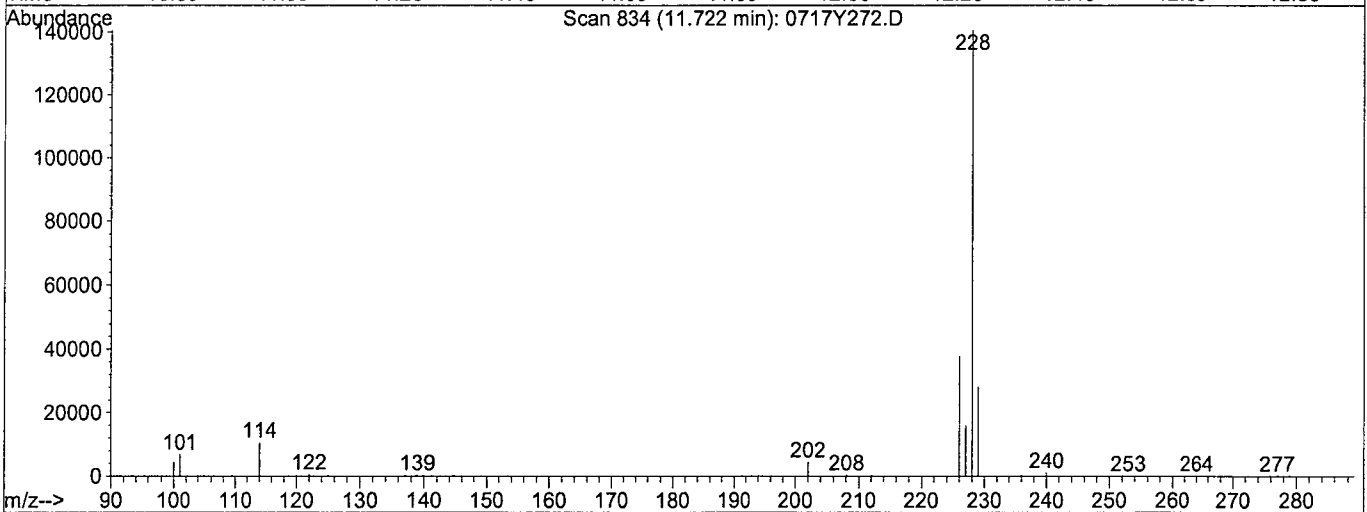
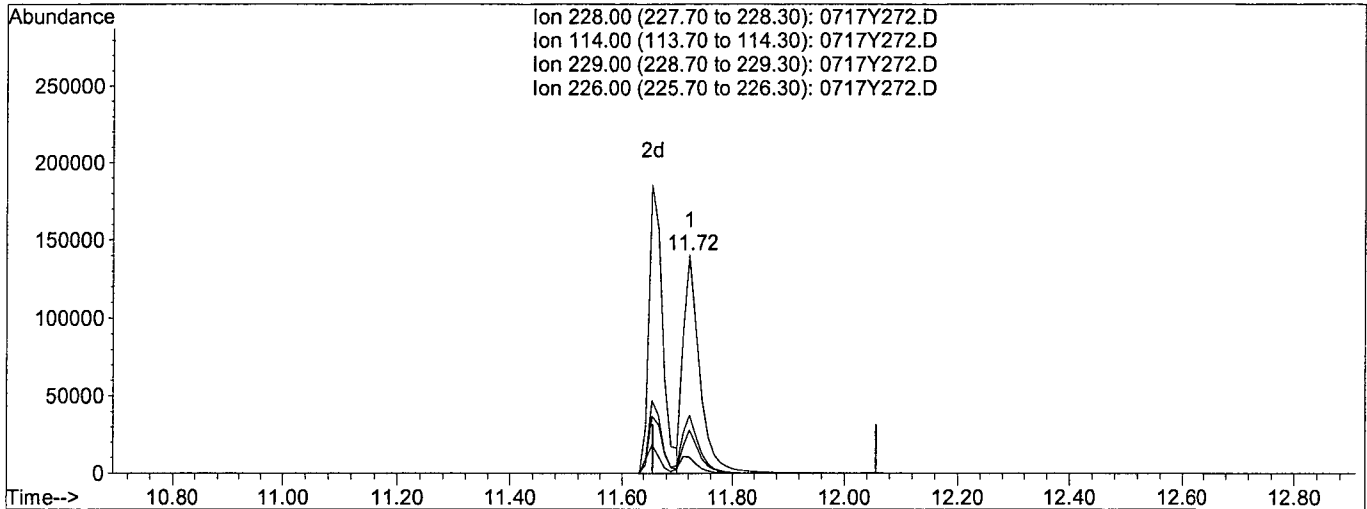


Quantitation Report

Data File : M:\YODA\DATA\Y190717P\0717Y272.D
 Acq On : 30 Jul 19 10:06
 Sample : 5.0 SIM 07/10/19 (3)
 Misc :
 Quant Time: Jul 30 10:14 2019

Vial: 72
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Multiple Level Calibration



TIC: 0717Y272.D

(21) Chrysene (TM)

11.72min 3.9568ppb

response 285176

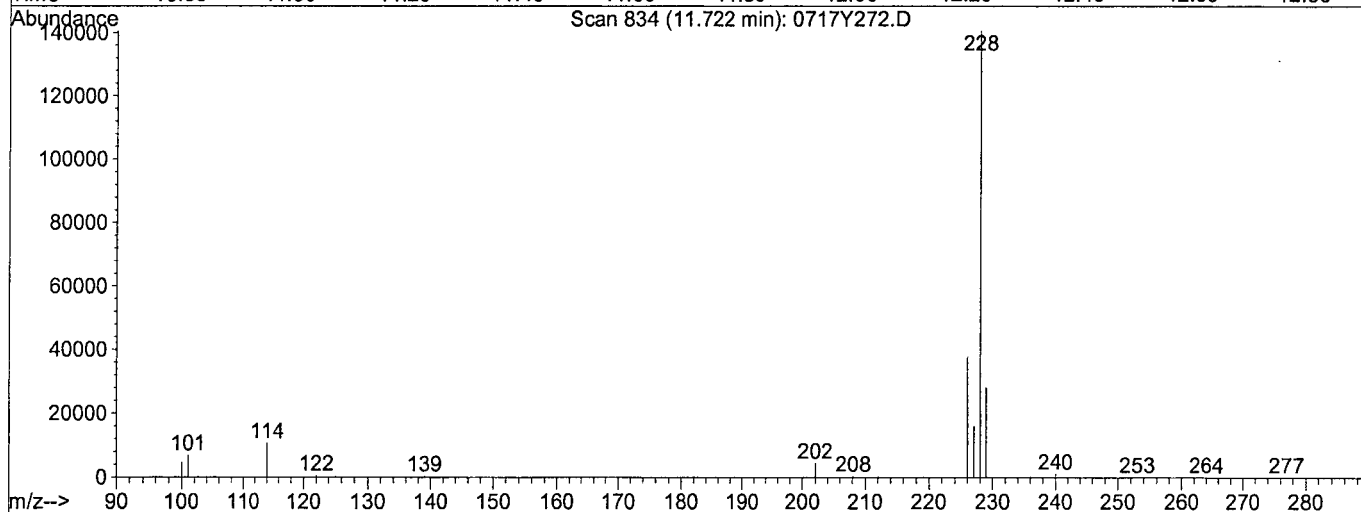
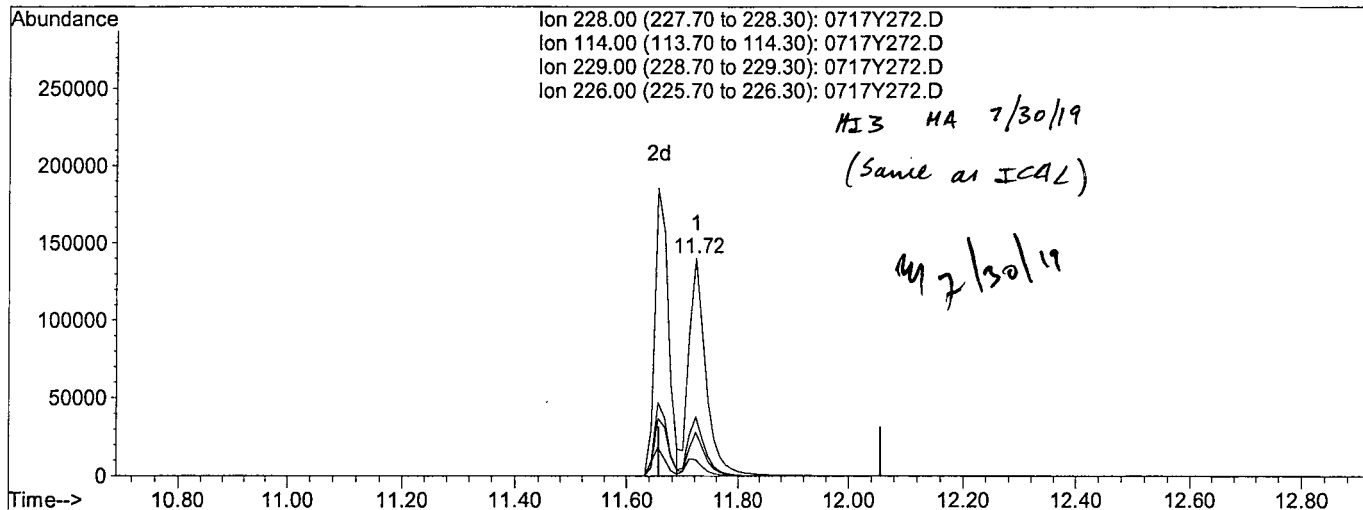
Ion	Exp%	Act%
228.00	100	100
114.00	14.40	7.48#
229.00	25.80	19.95
226.00	30.90	26.87

Quantitation Report

Data File : M:\YODA\DATA\Y190717P\0717Y272.D
 Acq On : 30 Jul 19 10:06
 Sample : 5.0 SIM 07/10/19 (3)
 Misc :
 Quant Time: Jul 30 10:15 2019

Vial: 72
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Multiple Level Calibration



TIC: 0717Y272.D

(21) Chrysene (TM)

11.72min 4.1465ppb m

response 298848

Ion	Exp%	Act%
228.00	100	100
114.00	14.40	7.52#
229.00	25.80	19.98
226.00	30.90	26.89

PAH by GCMS SIM
EPA 8270 SIM

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/30/19
Instrument: Yoda
Initial Cal. Date: 07/17/19
Data File: 0717Y303.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	Napthalene-D8(IS)	ISTD			I
2	SL	Surrogate Recovery (NBZ)	0.2451	0.3316	35	SL 28
3	TM	Naphthalene	1.337	1.232	7.8	TM
4	S	2-Methylnaphthalene-D10 (2MN)	1.153	1.483	29	S
5	TM	2-Methylnaphthalene	0.8003	0.8252	3.1	TM
6	TM	1-Methylnaphthalene	0.9833	0.8334	15	TM
7	I	Acenaphthene-D10(IS)	ISTD			I
8	S	Surrogate Recovery (FBP)	1.443	1.887	31	S
9	TM	Acenaphthylene	4.428	5.815	31	TM
10	*TM	Acenaphthene	1.696	1.491	12	*TM
11	TM	Fluorene	1.858	1.894	1.9	TM
12	I	Phenanthrene-D10(IS)	ISTD			I
13	TM	Phenanthrene	1.486	1.319	11	TM
14	TM	Anthracene	1.254	1.287	2.7	TM
15	S	Fluoranthene-D10 (FRT)	1.122	1.654	47	S
16	*TM	Fluoranthene	1.857	1.894	2.0	*TM
17	I	Chrysene-D12(IS)	ISTD			I
18	TM	Pyrene	1.747	1.352	23	TM
19	S	Surrogate Recovery (TPH)	0.9517	1.282	35	S
20	TM	Benz (a) anthracene	1.511	1.331	12	TM
21	TM	Chrysene	1.682	1.244	26	TM
22	TM	Indeno (1,2,3-cd) pyrene	1.724	1.604	7.0	TM
23	I	Perylene-D12(IS)	ISTD			I
24	TML	Benzo (b) fluoranthene	1.509	1.233	18	TML 25
25	TM	Benzo (k) fluoranthene	1.624	1.383	15	TM
26	*TM	Benzo (a) pyrene	1.452	1.236	15	*TM
27	TM	Dibenz (a,h) anthracene	1.501	1.275	15	TM
28	TM	Benzo (g,h,i) perylene	1.383	1.204	13	TM
29						
30						
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32						
33						
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35						
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37						
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39						
40						

Average

17.7

Data File : M:\YODA\DATA\Y190717P\0717Y303.D Vial: 3
 Acq On : 30 Jul 19 22:42 Operator: MA,SS
 Sample : 5.0 SIM 07/10/19 (2) Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Jul 31 8:32 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QI on	Response	Conc	Units	Dev (Min)
1) Napthalene-D8 (IS)	4.52	136	70226	2.50000	ppb	-0.06
7) Acenaphthene-D10 (IS)	6.66	164	37941	2.50000	ppb	-0.06
12) Phenanthrene-D10 (IS)	8.43	188	77708	2.50000	ppb	-0.06
17) Chrysene-D12 (IS)	11.68	240	109277	2.50000	ppb	-0.11
23) Perylene-D12 (IS)	14.21	264	118202	2.50000	ppb	-0.11

System Monitoring Compounds

2) Surrogate Recovery (NBZ)	3.59	82	23285	3.20405	ppb	-0.11
Spiked Amount	5.000		Recovery	=	64.080%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	104138	3.21582	ppb	-0.05
Spiked Amount	5.000		Recovery	=	64.320%	
8) Surrogate Recovery (FBP)	5.87	172	71612	3.26945	ppb	-0.08
Spiked Amount	5.000		Recovery	=	65.380%	
15) Fluoranthene-D10 (FRT)	9.81	212	128491	3.68430	ppb	-0.06
Spiked Amount	5.000		Recovery	=	73.680%	
19) Surrogate Recovery (TPH)	10.27	244	140087	3.36759	ppb	-0.05
Spiked Amount	5.000		Recovery	=	67.360%	

Target Compounds

	R.T.	QI on	Response	Conc	Units	Qvalue
3) Naphthalene	4.54	128	173057	4.60898	ppb	99
5) 2-Methylnaphthalene	5.43	142	115900	5.15525	ppb	98
6) 1-Methylnaphthalene	5.54	142	117053	4.23761	ppb	95
9) Acenaphthylene	6.50	152	441236	6.56649	ppb	# 84
10) Acenaphthene	6.70	154	113125	4.39409	ppb	95
11) Fluorene	7.31	166	143700	5.09526	ppb	96
13) Phenanthrene	8.44	178	205045	4.43780	ppb	99
14) Anthracene	8.51	178	200059	5.13359	ppb	99
16) Fluoranthene	9.82	202	294404	5.10092	ppb	95
18) Pyrene	10.09	202	295443	3.86948	ppb	91
20) Benz (a) anthracene	11.65	228	290825	4.40252	ppb	99
21) Chrysene	11.72	228	271809	3.69787	ppb	# 89
22) Indeno (1,2,3-cd) pyrene	15.82	276	350479	4.65148	ppb	# 89
24) Benzo (b) fluoranthene	13.60	252	291382	3.73056	ppb	99
25) Benzo (k) fluoranthene	13.64	252	327012	4.25888	ppb	97
26) Benzo (a) pyrene	14.12	252	292283	4.25755	ppb	98
27) Dibenz (a,h) anthracene	15.83	278	301434	4.24729	ppb	94
28) Benzo (g,h,i) perylene	16.29	276	284654	4.35285	ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

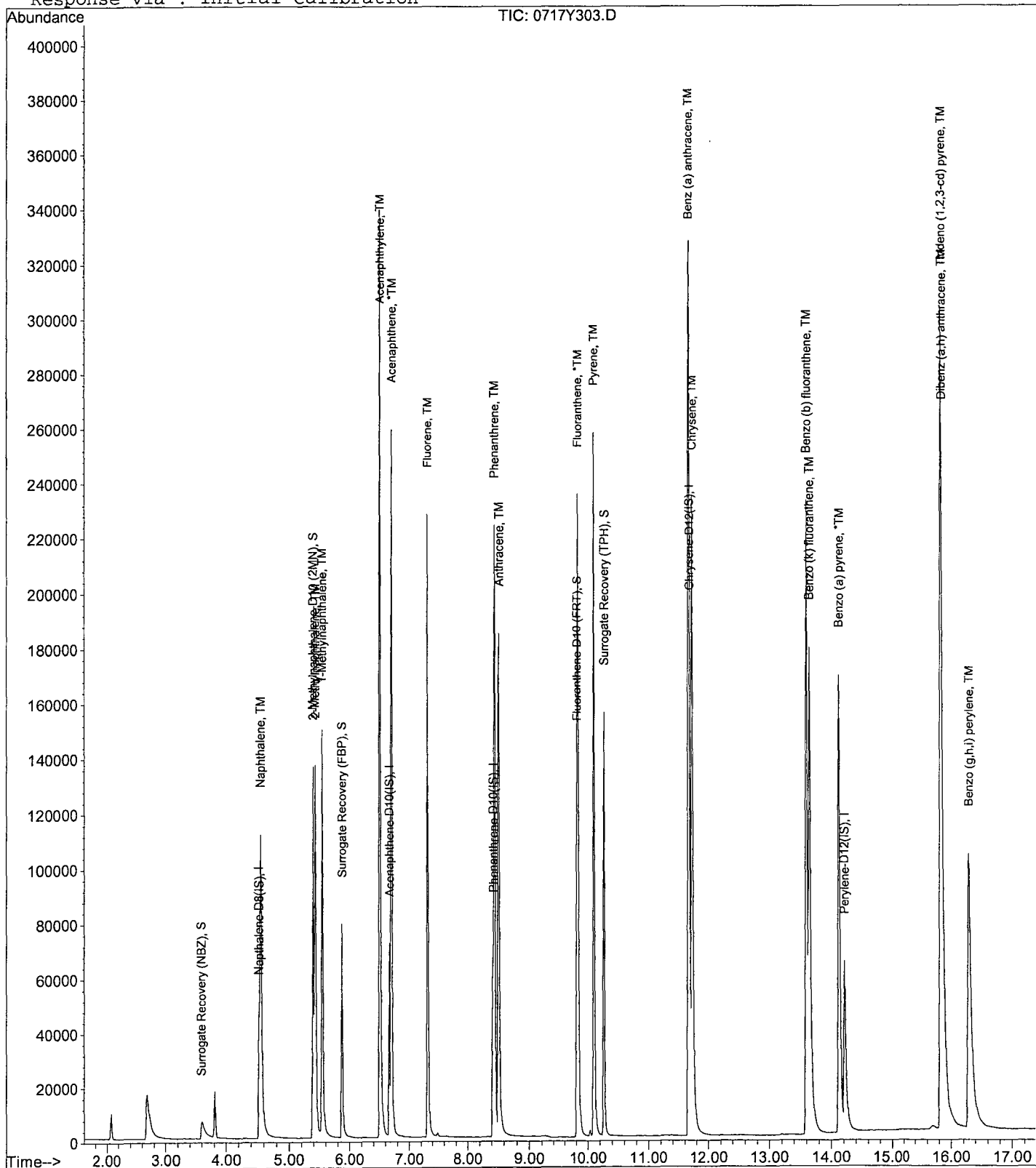
Data File : M:\YODA\DATA\Y190717P\0717Y303.D
Acq On : 30 Jul 19 22:42
Sample : 5.0 SIM 07/10/19 (2)
Misc :

Vial: 3
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 31 8:32 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/31/19
Instrument: Yoda
Initial Cal. Date: 07/17/19
Data File: 0717Y305.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Napthalene-D8(IS)	ISTD			I	
2	SL	Surrogate Recovery (NBZ)	0.2451	0.2748	12	SL	11
3	TM	Napthalene	1.337	1.326	0.81	TM	
4	S	2-Methylnapthalene-D10 (2MN)	1.153	1.226	6.4	S	
5	TM	2-Methylnapthalene	0.8003	0.8817	10	TM	
6	TM	1-Methylnapthalene	0.9833	0.8949	9.0	TM	
7	I	Acenaphthene-D10(IS)	ISTD			I	
8	S	Surrogate Recovery (FBP)	1.443	1.474	2.2	S	
9	TM	Acenaphthylene	4.428	6.002	36	TM	*
10	*TM	Acenaphthene	1.696	1.573	7.2	*TM	
11	TM	Fluorene	1.858	1.930	3.9	TM	
12	I	Phenanthrene-D10(IS)	ISTD			I	
13	TM	Phenanthrene	1.486	1.409	5.2	TM	
14	TM	Anthracene	1.254	1.367	9.0	TM	
15	S	Fluoranthene-D10 (FRT)	1.122	1.303	16	S	
16	*TM	Fluoranthene	1.857	2.028	9.2	*TM	
17	I	Chrysene-D12(IS)	ISTD			I	
18	TM	Pyrene	1.747	1.494	14	TM	
19	S	Surrogate Recovery (TPH)	0.9517	0.9595	0.83	S	
20	TM	Benz (a) anthracene	1.511	1.440	4.7	TM	
21	TM	Chrysene	1.682	1.376	18	TM	
22	TM	Indeno (1,2,3-cd) pyrene	1.724	1.778	3.2	TM	
23	I	Perylene-D12(IS)	ISTD			I	
24	TML	Benzo (b) fluoranthene	1.509	1.437	4.8	TML	13
25	TM	Benzo (k) fluoranthene	1.624	1.381	15	TM	
26	*TM	Benzo (a) pyrene	1.452	1.337	7.9	*TM	
27	TM	Dibenz (a,h) anthracene	1.501	1.393	7.2	TM	
28	TM	Benzo (g,h,i) perylene	1.383	1.300	6.0	TM	
29							
30							
31							
32							
33							
34							
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36							
37							
38							
39							
40							

Average

9.1

Data File : M:\YODA\DATA\Y190717P\0717Y305.D Vial: 5
 Acq On : 31 Jul 19 14:49 Operator: MA,SS
 Sample : 5.0 SIM 07/10/19 (2) Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Jul 31 14:52 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.53	136	58657	2.50000	ppb	-0.05
7) Acenaphthene-D10 (IS)	6.66	164	31984	2.50000	ppb	-0.06
12) Phenanthrene-D10 (IS)	8.42	188	63332	2.50000	ppb	-0.06
17) Chrysene-D12 (IS)	11.68	240	87323	2.50000	ppb	-0.11
23) Perylene-D12 (IS)	14.21	264	95940	2.50000	ppb	-0.11

System Monitoring Compounds

2) Surrogate Recovery (NBZ)	3.61	82	16119	2.76352	ppb	-0.09
Spiked Amount	5.000		Recovery	=	55.280%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	71925	2.65913	ppb	-0.05
Spiked Amount	5.000		Recovery	=	53.180%	
8) Surrogate Recovery (FBP)	5.87	172	47159	2.55405	ppb	-0.08
Spiked Amount	5.000		Recovery	=	51.080%	
15) Fluoranthene-D10 (FRT)	9.81	212	82529	2.90357	ppb	-0.06
Spiked Amount	5.000		Recovery	=	58.080%	
19) Surrogate Recovery (TPH)	10.27	244	83790	2.52066	ppb	-0.05
Spiked Amount	5.000		Recovery	=	50.420%	

Target Compounds

						Qvalue
3) Naphthalene	4.56	128	155547	4.95970	ppb	100
5) 2-Methylnaphthalene	5.42	142	103439	5.50844	ppb	99
6) 1-Methylnaphthalene	5.54	142	104983	4.55025	ppb	93
9) Acenaphthylene	6.50	152	383935	6.77792	ppb	# 84
10) Acenaphthene	6.70	154	100650	4.63768	ppb	93
11) Fluorene	7.31	166	123469	5.19330	ppb	92
13) Phenanthrene	8.45	178	178532	4.74108	ppb	99
14) Anthracene	8.51	178	173163	5.45206	ppb	99
16) Fluoranthene	9.82	202	256831	5.46003	ppb	97
18) Pyrene	10.09	202	260978	4.27743	ppb	93
20) Benz (a) anthracene	11.67	228	251456	4.76356	ppb	98
21) Chrysene	11.72	228	240293	4.09100	ppb	# 90
22) Indeno (1,2,3-cd) pyrene	15.83	276	310561	5.15793	ppb	# 88
24) Benzo (b) fluoranthene	13.60	252	275657	4.33156	ppb	99
25) Benzo (k) fluoranthene	13.64	252	264942	4.25116	ppb	98
26) Benzo (a) pyrene	14.12	252	256482	4.60298	ppb	99
27) Dibenz (a,h) anthracene	15.83	278	267286	4.64003	ppb	95
28) Benzo (g,h,i) perylene	16.29	276	249531	4.70117	ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

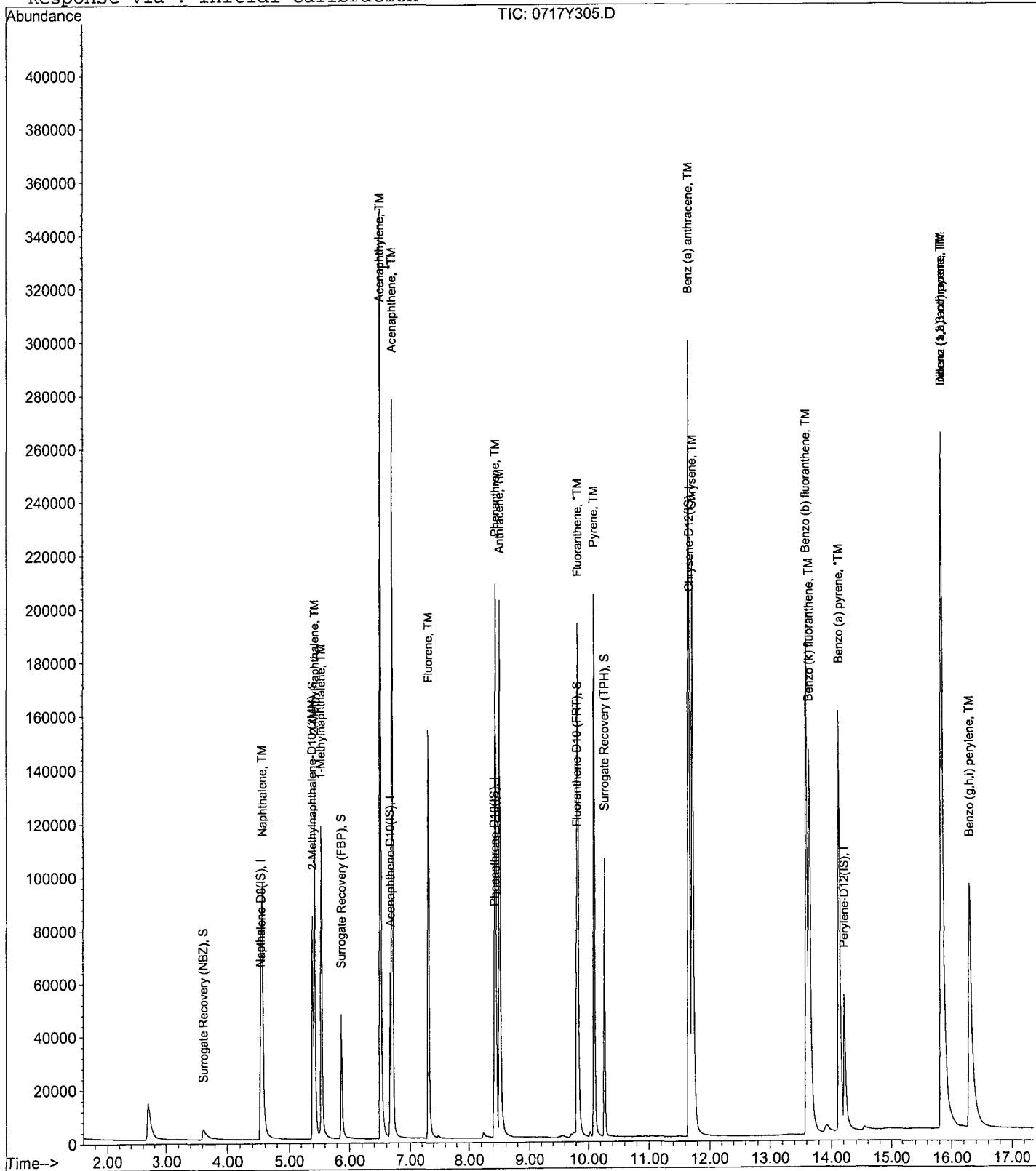
Data File : M:\YODA\DATA\Y190717P\0717Y305.D
Acq On : 31 Jul 19 14:49
Sample : 5.0 SIM 07/10/19 (2)
Misc :

Vial: 5
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 31 14:52 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 1 Aug 19 2:57
Instrument: Yoda
Initial Cal. Date: 07/17/19
Data File: 0717Y335.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	Napthalene-D8(IS)	ISTD			I
2	SL	Surrogate Recovery (NBZ)	0.2451	0.2835	16	SL 13
3	TM	Naphthalene	1.337	1.222	8.6	TM
4	S	2-Methylnaphthalene-D10 (2MN)	1.153	1.505	31	S
5	TM	2-Methylnaphthalene	0.8003	0.8116	1.4	TM
6	TM	1-Methylnaphthalene	0.9833	0.8244	16	TM
7	I	Acenaphthene-D10(IS)	ISTD			I
8	S	Surrogate Recovery (FBP)	1.443	1.893	31	S
9	TM	Acenaphthylene	4.428	5.619	27	TM
10	*TM	Acenaphthene	1.696	1.497	12	*TM
11	TM	Fluorene	1.858	1.860	0.09	TM
12	I	Phenanthrene-D10(IS)	ISTD			I
13	TM	Phenanthrene	1.486	1.292	13	TM
14	TM	Anthracene	1.254	1.243	0.85	TM
15	S	Fluoranthene-D10 (FRT)	1.122	1.599	43	S
16	*TM	Fluoranthene	1.857	1.855	0.12	*TM
17	I	Chrysene-D12(IS)	ISTD			I
18	TM	Pyrene	1.747	1.356	22	TM
19	S	Surrogate Recovery (TPH)	0.9517	1.266	33	S
20	TM	Benz (a) anthracene	1.511	1.313	13	TM
21	TM	Chrysene	1.682	1.296	23	TM
22	TM	Indeno (1,2,3-cd) pyrene	1.724	1.589	7.8	TM
23	I	Perylene-D12(IS)	ISTD			I
24	TML	Benzo (b) fluoranthene	1.509	1.253	17	TML 24
25	TM	Benzo (k) fluoranthene	1.624	1.375	15	TM
26	*TM	Benzo (a) pyrene	1.452	1.232	15	*TM
27	TM	Dibenz (a,h) anthracene	1.501	1.282	15	TM
28	TM	Benzo (g,h,i) perylene	1.383	1.205	13	TM
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						

Average

16.3

Data File : M:\YODA\DATA\Y190717P\0717Y335.D
 Acq On : 1 Aug 19 2:57
 Sample : 5.0 SIM 07/10/19 (1)
 Misc :

Vial: 35
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 1 8:33 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

1) Naphthalene-D8 (IS)	4.53	136	82076	2.50000	ppb	-0.05
7) Acenaphthene-D10 (IS)	6.66	164	43132	2.50000	ppb	-0.06
12) Phenanthrene-D10 (IS)	8.41	188	90418	2.50000	ppb	-0.08
17) Chrysene-D12 (IS)	11.68	240	123322	2.50000	ppb	-0.11
23) Perylene-D12 (IS)	14.21	264	131754	2.50000	ppb	-0.11
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.60	82	23270	2.83116	ppb	-0.10
Spiked Amount	5.000		Recovery	=	56.620%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	123555	3.26456	ppb	-0.05
Spiked Amount	5.000		Recovery	=	65.300%	
8) Surrogate Recovery (FBP)	5.87	172	81639	3.27865	ppb	-0.08
Spiked Amount	5.000		Recovery	=	65.580%	
15) Fluoranthene-D10 (FRT)	9.80	212	144572	3.56269	ppb	-0.07
Spiked Amount	5.000		Recovery	=	71.260%	
19) Surrogate Recovery (TPH)	10.27	244	156071	3.32454	ppb	-0.05
Spiked Amount	5.000		Recovery	=	66.500%	
Target Compounds						Qvalue
3) Naphthalene	4.54	128	200520	4.56936	ppb	99
5) 2-Methylnaphthalene	5.42	142	133223	5.07022	ppb	99
6) 1-Methylnaphthalene	5.54	142	135331	4.19196	ppb	95
9) Acenaphthylene	6.50	152	484755	6.34591	ppb	# 84
10) Acenaphthene	6.70	154	129150	4.41280	ppb	96
11) Fluorene	7.31	166	160454	5.00460	ppb	96
13) Phenanthrene	8.44	178	233643	4.34592	ppb	100
14) Anthracene	8.51	178	224801	4.95761	ppb	99
16) Fluoranthene	9.82	202	335379	4.99404	ppb	91
18) Pyrene	10.09	202	334335	3.88015	ppb	# 87
20) Benz (a) anthracene	11.65	228	323867	4.34435	ppb	99
21) Chrysene	11.72	228	319570	3.85249	ppb	# 89
22) Indeno (1,2,3-cd) pyrene	15.82	276	391901	4.60886	ppb	# 87
24) Benzo (b) fluoranthene	13.60	252	330122	3.79016	ppb	99
25) Benzo (k) fluoranthene	13.64	252	362345	4.23365	ppb	97
26) Benzo (a) pyrene	14.11	252	324655	4.24267	ppb	99
27) Dibenz (a,h) anthracene	15.82	278	337735	4.26930	ppb	95
28) Benzo (g,h,i) perylene	16.28	276	317641	4.35767	ppb	98

(#) = qualifier out of range (m) = manual integration

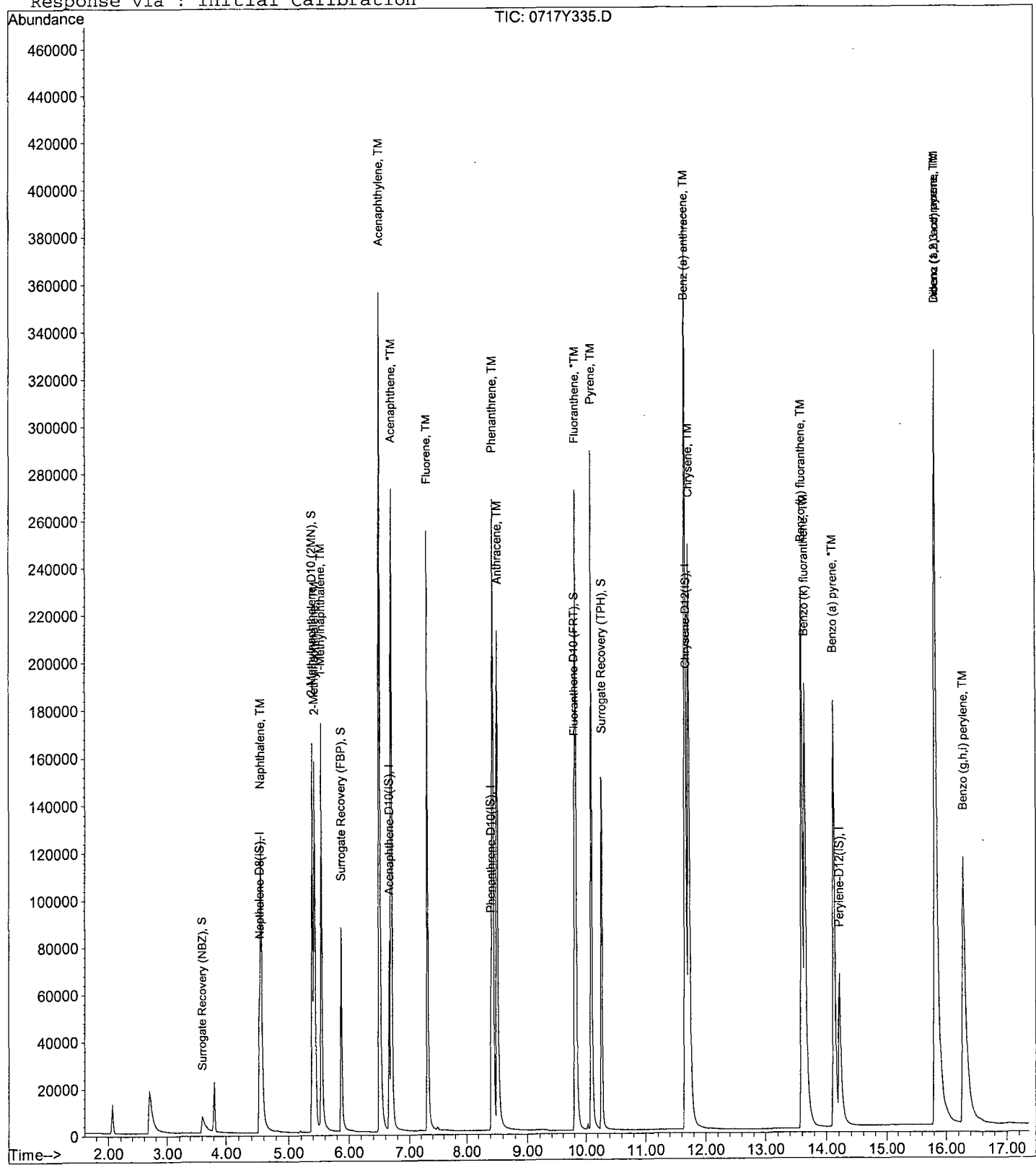
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Acq On : 1 Aug 19 2:57
Sample : 5.0 SIM 07/10/19 (1)
Misc :

Vial: 35
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Aug 1 8:33 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



ORGANICS
Raw Data

Data File : M:\YODA\DATA\Y190717P\0717Y306.D Vial: 6
 Acq On : 31 Jul 19 15:12 Operator: MA,SS
 Sample : AZ95329W16 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Jul 31 15:16 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.52	136	82724	2.50000	ppb	-0.06
7) Acenaphthene-D10 (IS)	6.66	164	49658	2.50000	ppb	-0.06
12) Phenanthrene-D10 (IS)	8.42	188	98406	2.50000	ppb	-0.06
17) Chrysene-D12 (IS)	11.69	240	137520	2.50000	ppb	-0.10
23) Perylene-D12 (IS)	14.20	264	154613	2.50000	ppb	-0.12
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	0.00	82	0	0.00000	ppb	
Spiked Amount	6.250					
			Recovery	=	0.000%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	190919	6.25616	ppb	-0.05
Spiked Amount	6.250					
			Recovery	=	100.096%	
8) Surrogate Recovery (FBP)	5.87	172	1939801	84.58142	ppb	-0.08
Spiked Amount	6.250					
			Recovery	=	1353.296%	
15) Fluoranthene-D10 (FRT)	9.80	212	241866	6.84560	ppb	-0.07
Spiked Amount	6.250					
			Recovery	=	109.536%	
19) Surrogate Recovery (TPH)	10.27	244	3314664	79.14687	ppb	-0.05
Spiked Amount	6.250					
			Recovery	=	1266.352%	
Target Compounds						
3) Naphthalene	4.54	128	1185009	33.48991	ppb	97
5) 2-Methylnaphthalene	5.41	142	233972	11.04349	ppb	93
6) 1-Methylnaphthalene	5.54	142	320615	12.31681	ppb	97
10) Acenaphthene	6.70	154	8427	0.31262	ppb	89
11) Fluorene	7.32	166	5121	0.17342	ppb	98

Quantitation Report

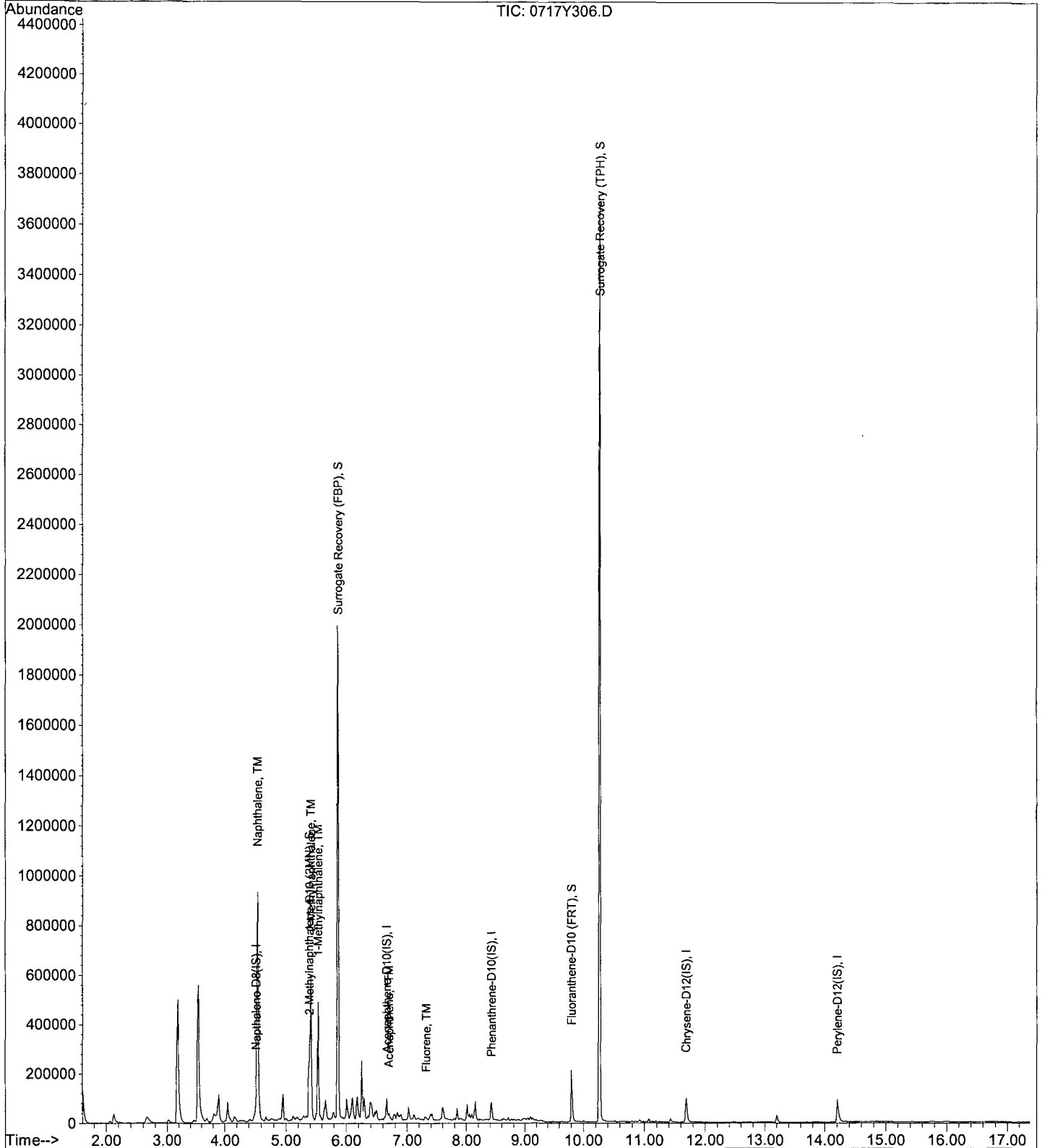
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Acq On : 31 Jul 19 15:12
Sample : AZ95329W16 1/800
Misc :

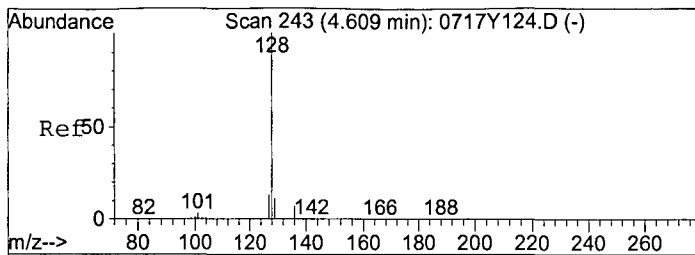
Vial: 6
Operator: MA, SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 31 15:16 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration

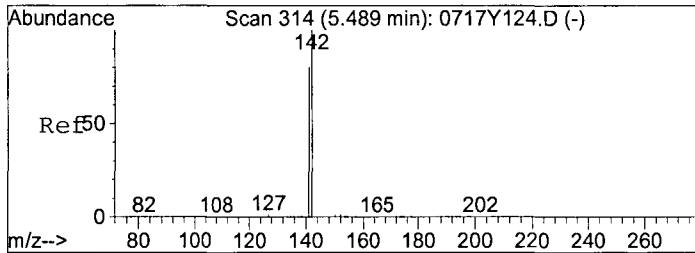
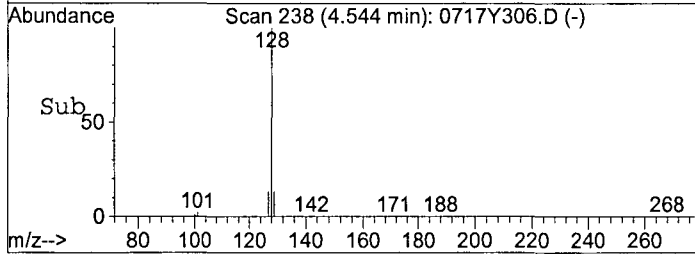
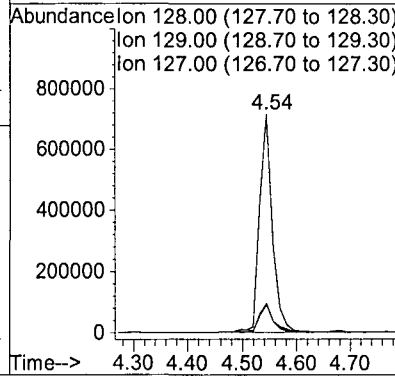
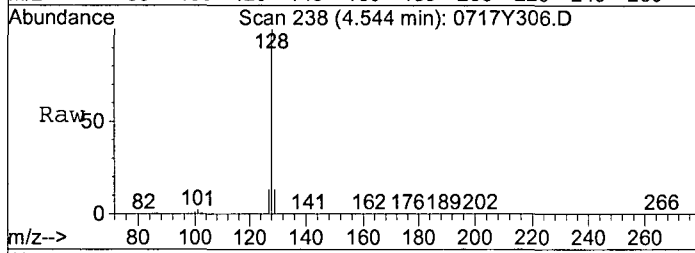




#3
 Naphthalene
 Concen: 33.48991 ppb
 RT: 4.54 min Scan# 238
 Delta R.T. -0.06 min
 Lab File: 0717Y306.D
 Acq: 31 Jul 19 15:12

Tgt Ion:128 Resp: 1185009

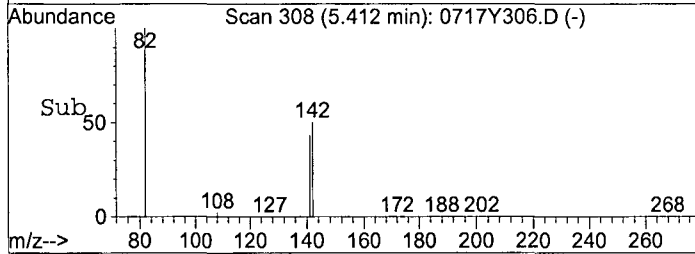
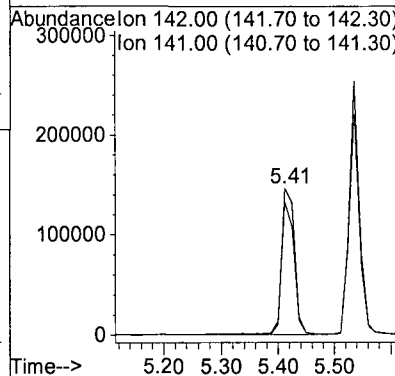
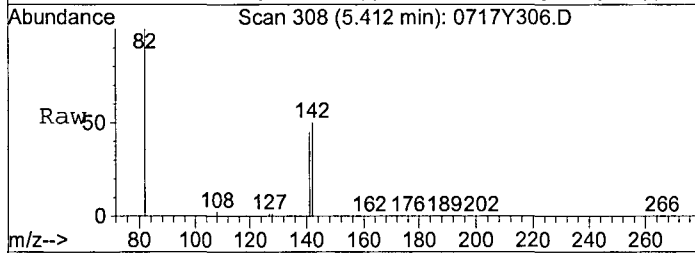
Ion	Ratio	Lower	Upper
128	100		
129	12.7	7.7	14.3
127	13.3	8.9	16.5

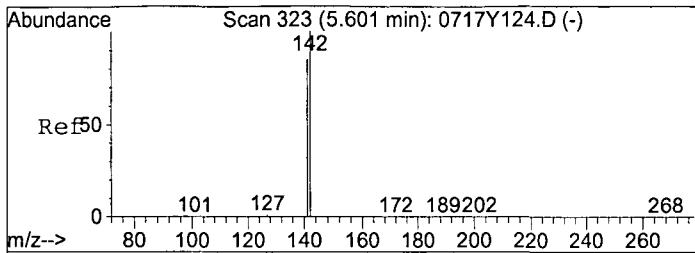


#5
 2-Methylnaphthalene
 Concen: 11.04349 ppb
 RT: 5.41 min Scan# 308
 Delta R.T. -0.04 min
 Lab File: 0717Y306.D
 Acq: 31 Jul 19 15:12

Tgt Ion:142 Resp: 233972

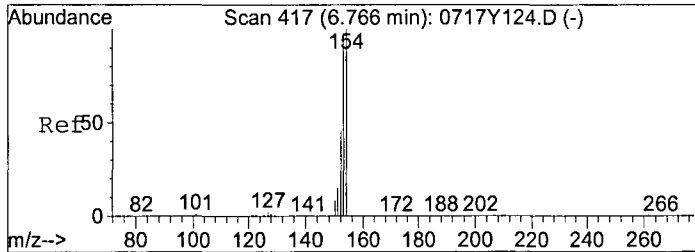
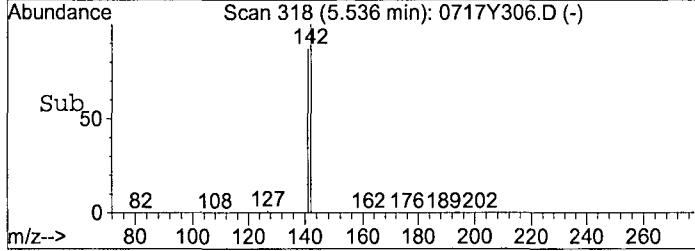
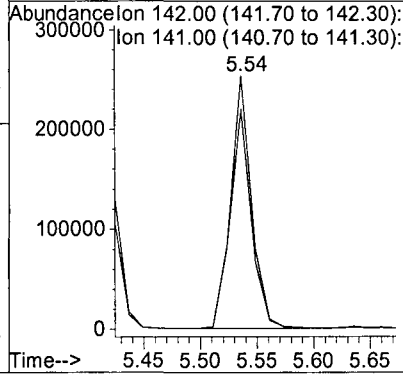
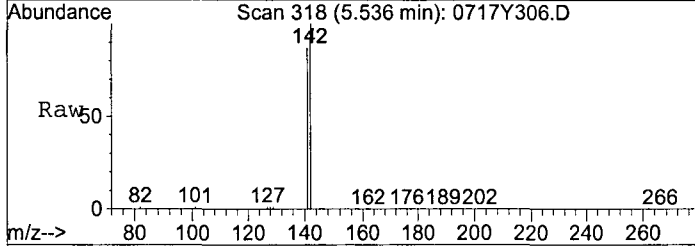
Ion	Ratio	Lower	Upper
142	100		
141	90.2	58.8	109.2





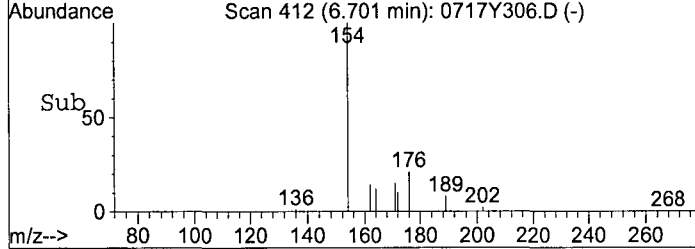
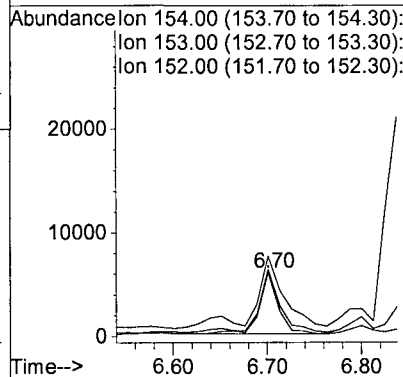
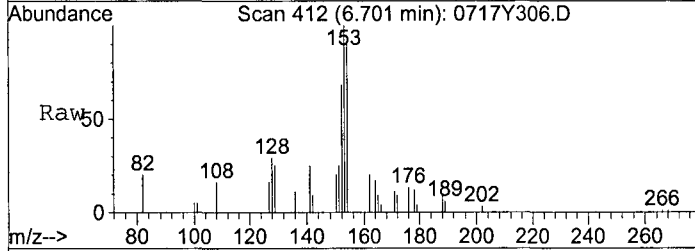
#6
 1-Methylnaphthalene
 Concen: 12.31681 ppb
 RT: 5.54 min Scan# 318
 Delta R.T. -0.04 min
 Lab File: 0717Y306.D
 Acq: 31 Jul 19 15:12

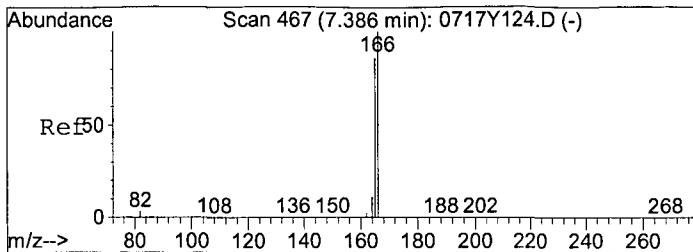
Tgt Ion	Resp	Lower	Upper
142	320615		
141	86.8	58.7	108.9



#10
 Acenaphthene
 Concen: 0.31262 ppb
 RT: 6.70 min Scan# 412
 Delta R.T. -0.06 min
 Lab File: 0717Y306.D
 Acq: 31 Jul 19 15:12

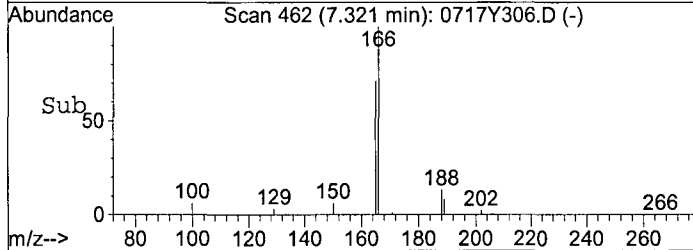
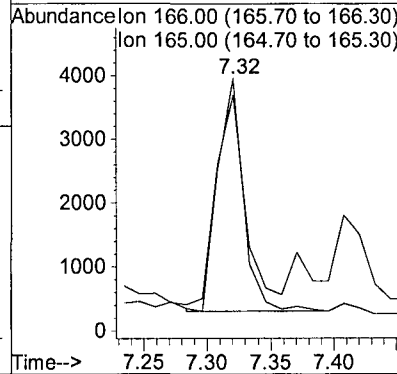
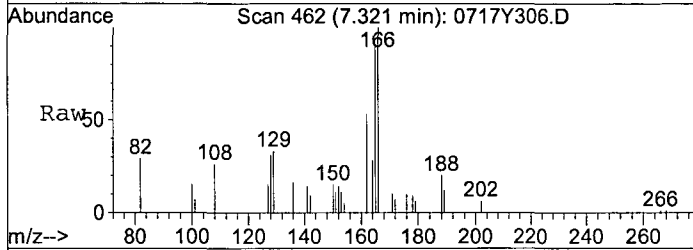
Tgt Ion	Resp	Lower	Upper
154	8427		
153	103.4	71.0	131.8
152	115.4	66.9	124.3





#11
 Fluorene
 Concen: 0.17342 ppb
 RT: 7.32 min Scan# 462
 Delta R.T. -0.05 min
 Lab File: 0717Y306.D
 Acq: 31 Jul 19 15:12

Tgt Ion:166 Resp: 5121
 Ion Ratio Lower Upper
 166 100
 165 89.9 61.8 114.8



Data File : M:\YODA\DATA\Y190717P\0717Y285.D Vial: 85
 Acq On : 30 Jul 19 15:26 Operator: MA,SS
 Sample : AZ95330W16 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Jul 31 11:33 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.52	136	72968	2.50000	ppb	-0.06
7) Acenaphthene-D10 (IS)	6.65	164	39721	2.50000	ppb	-0.07
12) Phenanthrene-D10 (IS)	8.41	188	85097	2.50000	ppb	-0.07
17) Chrysene-D12 (IS)	11.69	240	116394	2.50000	ppb	-0.10
23) Perylene-D12 (IS)	14.21	264	121131	2.50000	ppb	-0.11
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	0.00	82	0	0.00000	ppb	
Spiked Amount	6.250		Recovery	=	0.000%	
4) 2-Methylnaphthalene-D10 (2)	5.38	152	174677	6.48923	ppb	-0.06
Spiked Amount	6.250		Recovery	=	103.824%	
8) Surrogate Recovery (FBP)	5.86	172	1722754	93.90963	ppb	-0.09
Spiked Amount	6.250		Recovery	=	1502.560%	
15) Fluoranthene-D10 (FRT)	9.80	212	213292	6.98102	ppb	-0.07
Spiked Amount	6.250		Recovery	=	111.696%	
19) Surrogate Recovery (TPH)	10.27	244	2574982	72.64466	ppb	-0.05
Spiked Amount	6.250		Recovery	=	1162.320%	
Target Compounds						
3) Naphthalene	4.53	128	1057145	33.87084	ppb	96
5) 2-Methylnaphthalene	5.41	142	211730	11.32985	ppb	98
6) 1-Methylnaphthalene	5.54	142	283474	12.34602	ppb	98
10) Acenaphthene	6.70	154	6610	0.30656	ppb	87
11) Fluorene	7.32	166	4215	0.17845	ppb	99

Quantitation Report

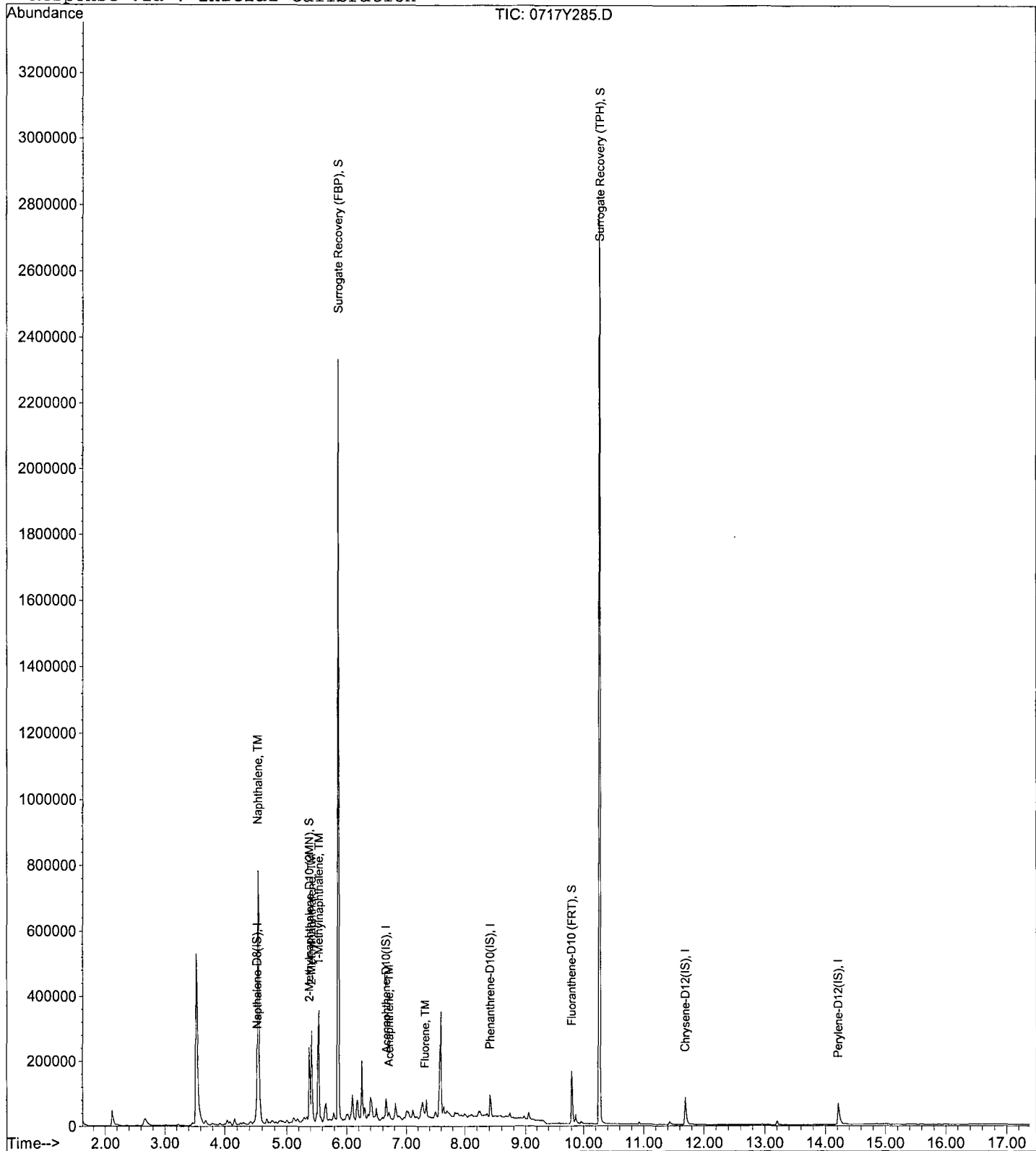
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Acq On : 30 Jul 19 15:26
Sample : AZ95330W16 1/800
Misc :

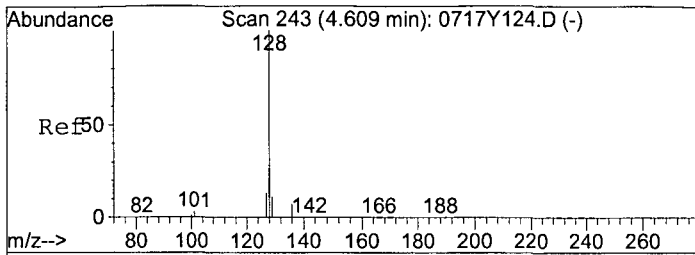
Vial: 85
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 31 11:33 2019

Quant Results File: Y0717P.RES

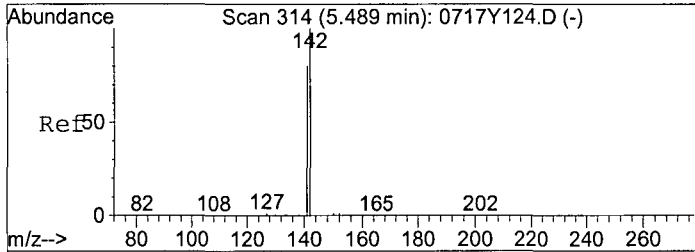
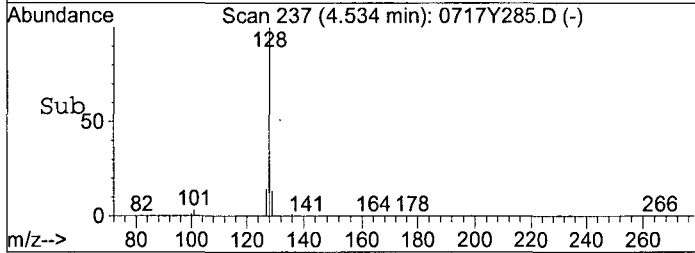
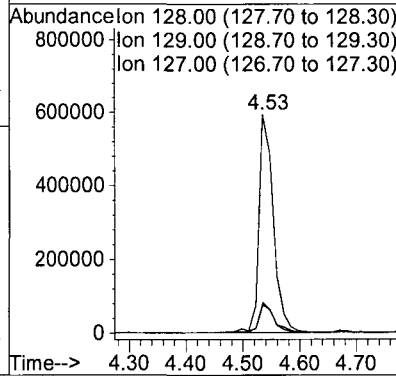
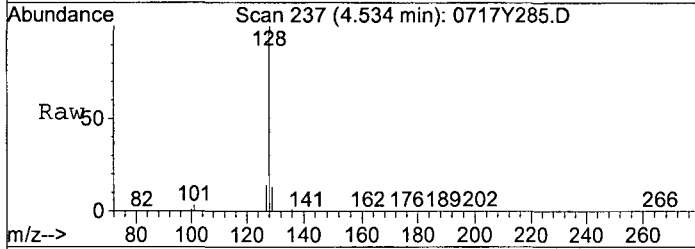
Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration





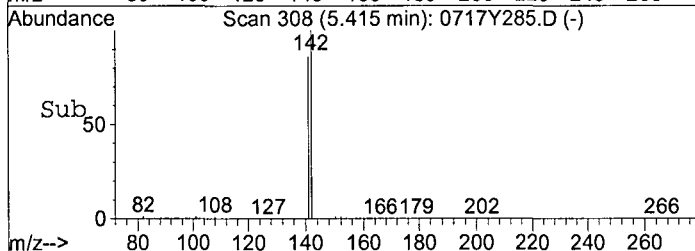
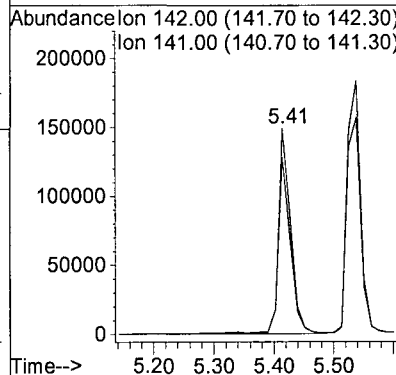
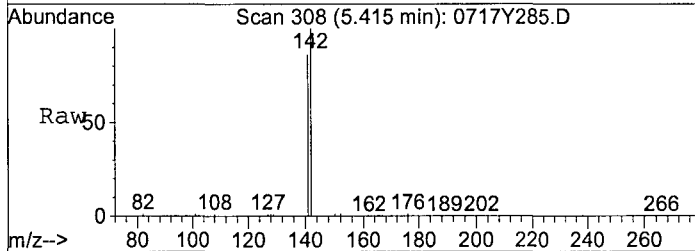
#3
 Naphthalene
 Concen: 33.87084 ppb
 RT: 4.53 min Scan# 237
 Delta R.T. -0.07 min
 Lab File: 0717Y285.D
 Acq: 30 Jul 19 15:26

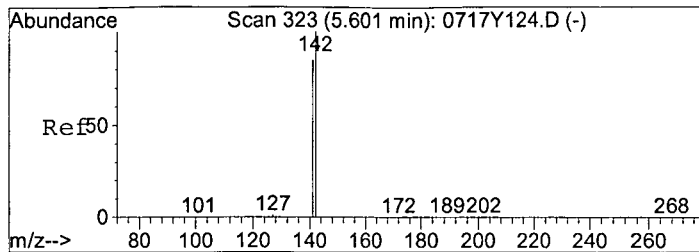
Tgt Ion	Resp	Lower	Upper
128	1057145		
129	12.7	7.7	14.3
127	13.9	8.9	16.5



#5
 2-Methylnaphthalene
 Concen: 11.32985 ppb
 RT: 5.41 min Scan# 308
 Delta R.T. -0.04 min
 Lab File: 0717Y285.D
 Acq: 30 Jul 19 15:26

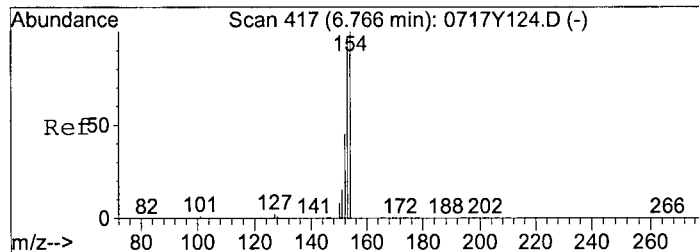
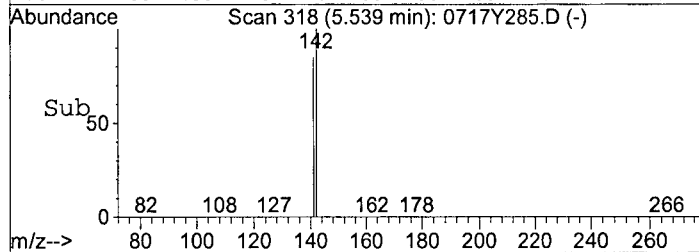
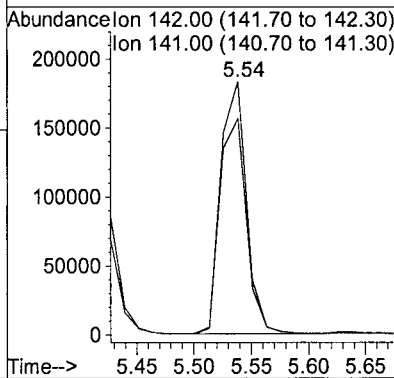
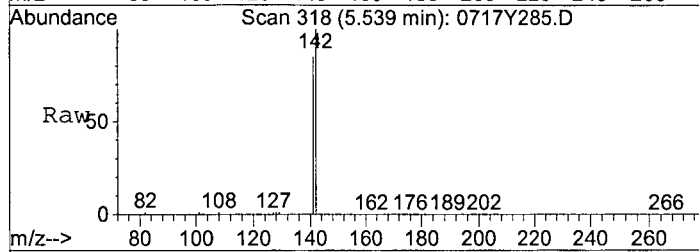
Tgt Ion	Resp	Lower	Upper
142	211730		
141	85.6	58.8	109.2





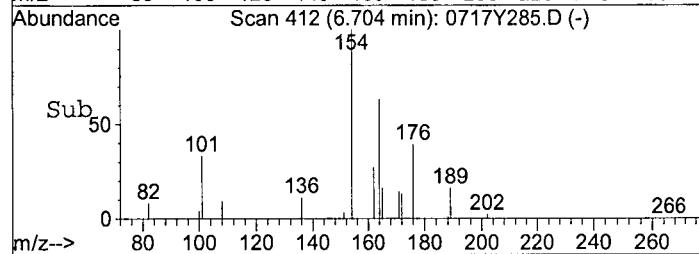
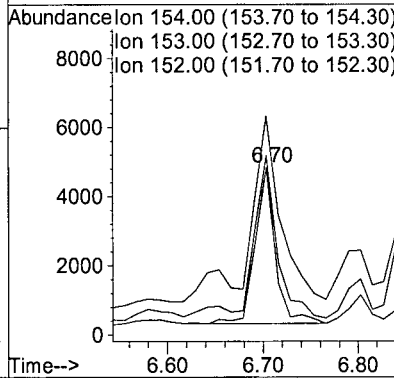
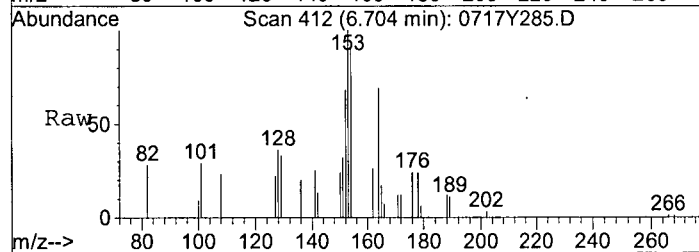
#6
 1-Methylnaphthalene
 Concen: 12.34602 ppb
 RT: 5.54 min Scan# 318
 Delta R.T. -0.04 min
 Lab File: 0717Y285.D
 Acq: 30 Jul 19 15:26

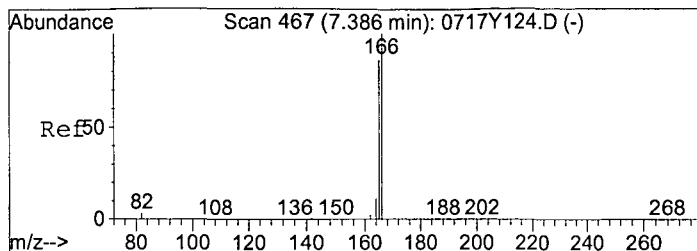
Tgt Ion:142 Resp: 283474
 Ion Ratio Lower Upper
 142 100
 141 85.3 58.7 108.9



#10
 Acenaphthene
 Concen: 0.30656 ppb
 RT: 6.70 min Scan# 412
 Delta R.T. -0.06 min
 Lab File: 0717Y285.D
 Acq: 30 Jul 19 15:26

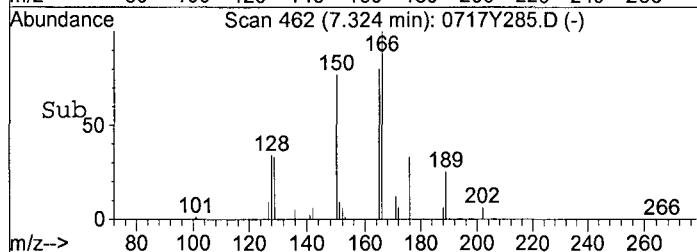
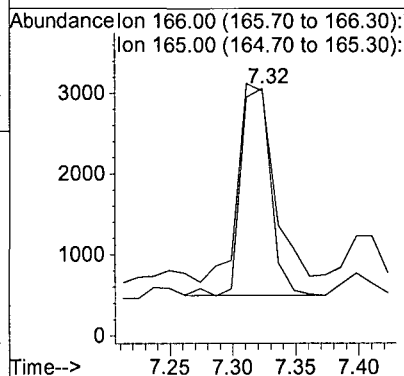
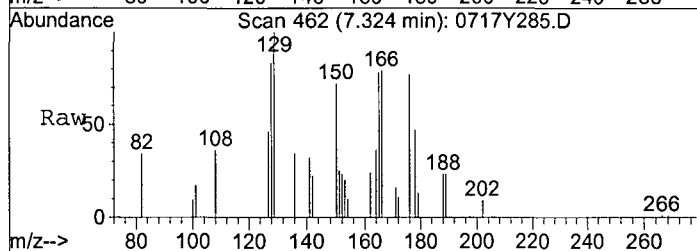
Tgt Ion:154 Resp: 6610
 Ion Ratio Lower Upper
 154 100
 153 104.0 71.0 131.8
 152 118.9 66.9 124.3





#11
 Fluorene
 Concen: 0.17845 ppb
 RT: 7.32 min Scan# 462
 Delta R.T. -0.05 min
 Lab File: 0717Y285.D
 Acq: 30 Jul 19 15:26

Tgt Ion:166 Resp: 4215
 Ion Ratio Lower Upper
 166 100
 165 88.8 61.8 114.8



Data File : M:\YODA\DATA\Y190717P\0717Y286.D Vial: 86
 Acq On : 30 Jul 19 15:50 Operator: MA,SS
 Sample : AZ95332W16 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Jul 31 11:33 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	4.53	136	74812	2.50000	ppb	-0.05
7) Acenaphthene-D10 (IS)	6.66	164	40425	2.50000	ppb	-0.07
12) Phenanthrene-D10 (IS)	8.42	188	80809	2.50000	ppb	-0.07
17) Chrysene-D12 (IS)	11.69	240	113649	2.50000	ppb	-0.10
23) Perylene-D12 (IS)	14.21	264	123491	2.50000	ppb	-0.11
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	0.00	82	0	0.00000	ppb	
Spiked Amount	6.250		Recovery	=	0.000%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	169877	6.15536	ppb	-0.05
Spiked Amount	6.250		Recovery	=	98.480%	
8) Surrogate Recovery (FBP)	5.86	172	1784278	95.56954	ppb	-0.09
Spiked Amount	6.250		Recovery	=	1529.120%	
15) Fluoranthene-D10 (FRT)	9.80	212	214900	7.40687	ppb	-0.07
Spiked Amount	6.250		Recovery	=	118.512%	
19) Surrogate Recovery (TPH)	10.26	244	2916693	84.27237	ppb	-0.06
Spiked Amount	6.250		Recovery	=	1348.352%	

Target Compounds Qvalue

Quantitation Report

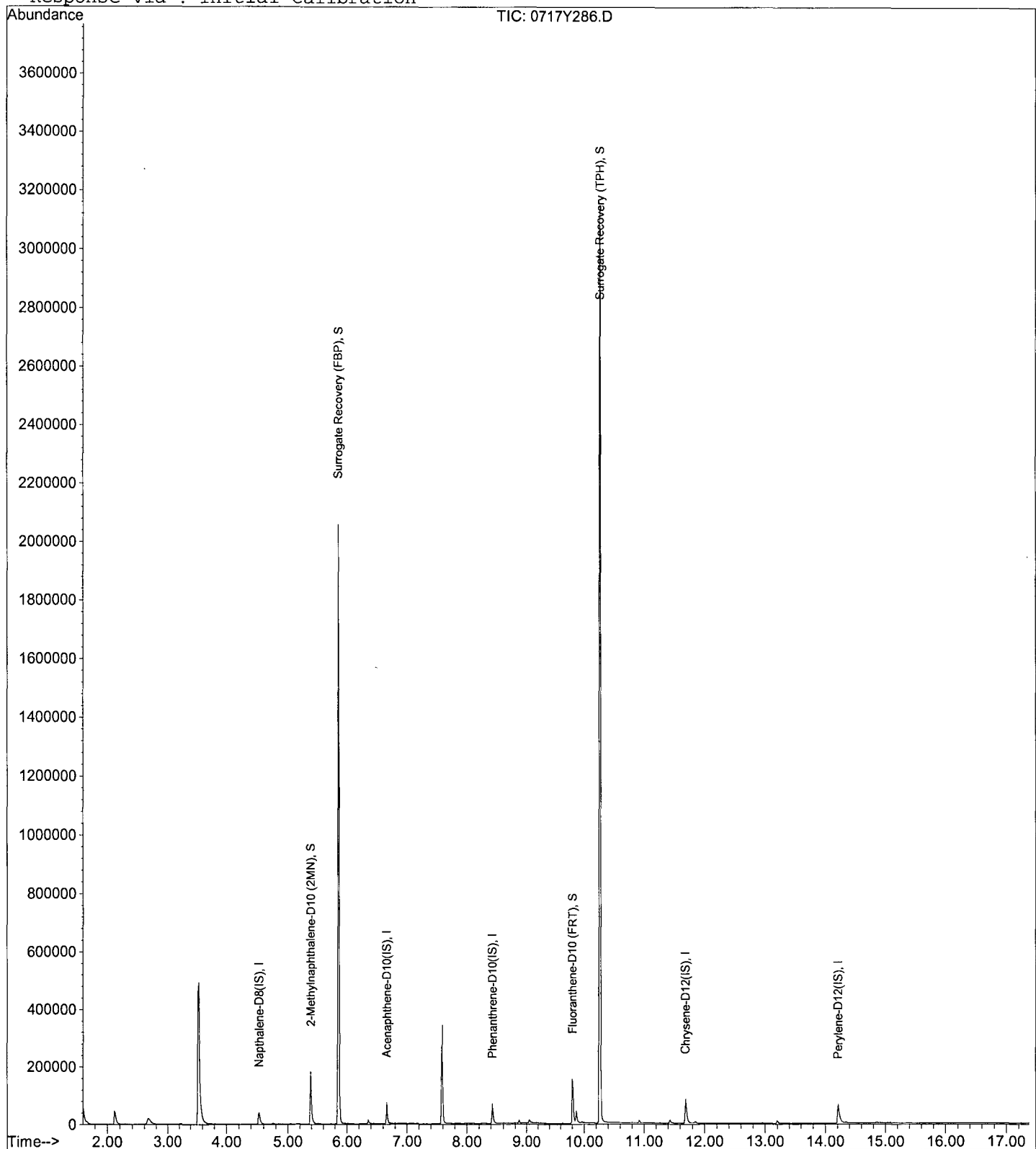
Data File : M:\YODA\DATA\Y190717P\0717Y286.D
Acq On : 30 Jul 19 15:50
Sample : AZ95332W16 1/800
Misc :

Vial: 86
Operator: MA, SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 31 11:33 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y287.D Vial: 87
 Acq On : 30 Jul 19 16:13 Operator: MA,SS
 Sample : AZ95334W16 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Jul 31 11:34 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	4.52	136	73611	2.50000	ppb	-0.06
7) Acenaphthene-D10 (IS)	6.67	164	41007	2.50000	ppb	-0.06
12) Phenanthrene-D10 (IS)	8.43	188	83384	2.50000	ppb	-0.06
17) Chrysene-D12 (IS)	11.69	240	115013	2.50000	ppb	-0.10
23) Perylene-D12 (IS)	14.21	264	125614	2.50000	ppb	-0.11
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	0.00	82	0	0.00000	ppb	
Spiked Amount	6.250		Recovery	=	0.000%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	171703	6.32303	ppb	-0.05
Spiked Amount	6.250		Recovery	=	101.168%	
8) Surrogate Recovery (FBP)	5.86	172	1759406	92.89987	ppb	-0.09
Spiked Amount	6.250		Recovery	=	1486.400%	
15) Fluoranthene-D10 (FRT)	9.81	212	214161	7.15346	ppb	-0.06
Spiked Amount	6.250		Recovery	=	114.448%	
19) Surrogate Recovery (TPH)	10.26	244	2866924	81.85201	ppb	-0.06
Spiked Amount	6.250		Recovery	=	1309.632%	

Target Compounds Qvalue

Quantitation Report

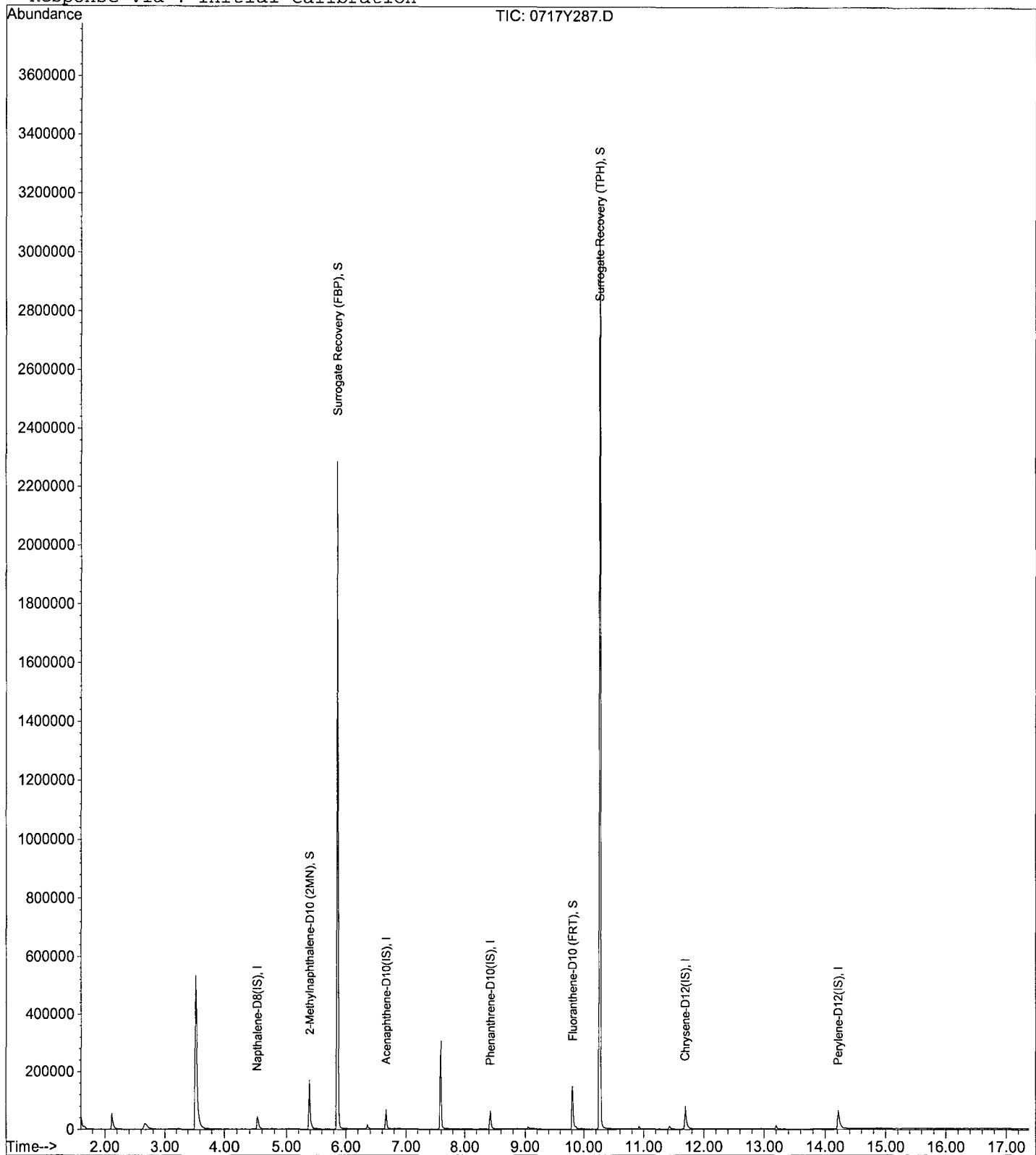
Data File : M:\YODA\DATA\Y190717P\0717Y287.D
Acq On : 30 Jul 19 16:13
Sample : AZ95334W16 1/800
Misc :

Vial: 87
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 31 11:34 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y288.D Vial: 88
 Acq On : 30 Jul 19 16:36 Operator: MA,SS
 Sample : AZ95336W16 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Jul 31 11:34 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	4.52	136	74777	2.50000	ppb	-0.06
7) Acenaphthene-D10 (IS)	6.66	164	41055	2.50000	ppb	-0.06
12) Phenanthrene-D10 (IS)	8.43	188	85675	2.50000	ppb	-0.06
17) Chrysene-D12 (IS)	11.69	240	117272	2.50000	ppb	-0.10
23) Perylene-D12 (IS)	14.21	264	124501	2.50000	ppb	-0.11
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	0.00	82	0	0.00000	ppb	
Spiked Amount	6.250		Recovery	=	0.000%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	171306	6.21004	ppb	-0.05
Spiked Amount	6.250		Recovery	=	99.360%	
8) Surrogate Recovery (FBP)	5.86	172	1728318	91.15167	ppb	-0.09
Spiked Amount	6.250		Recovery	=	1458.432%	
15) Fluoranthene-D10 (FRT)	9.81	212	208248	6.76994	ppb	-0.06
Spiked Amount	6.250		Recovery	=	108.320%	
19) Surrogate Recovery (TPH)	10.27	244	2871995	80.41729	ppb	-0.05
Spiked Amount	6.250		Recovery	=	1286.672%	

Target Compounds Qvalue

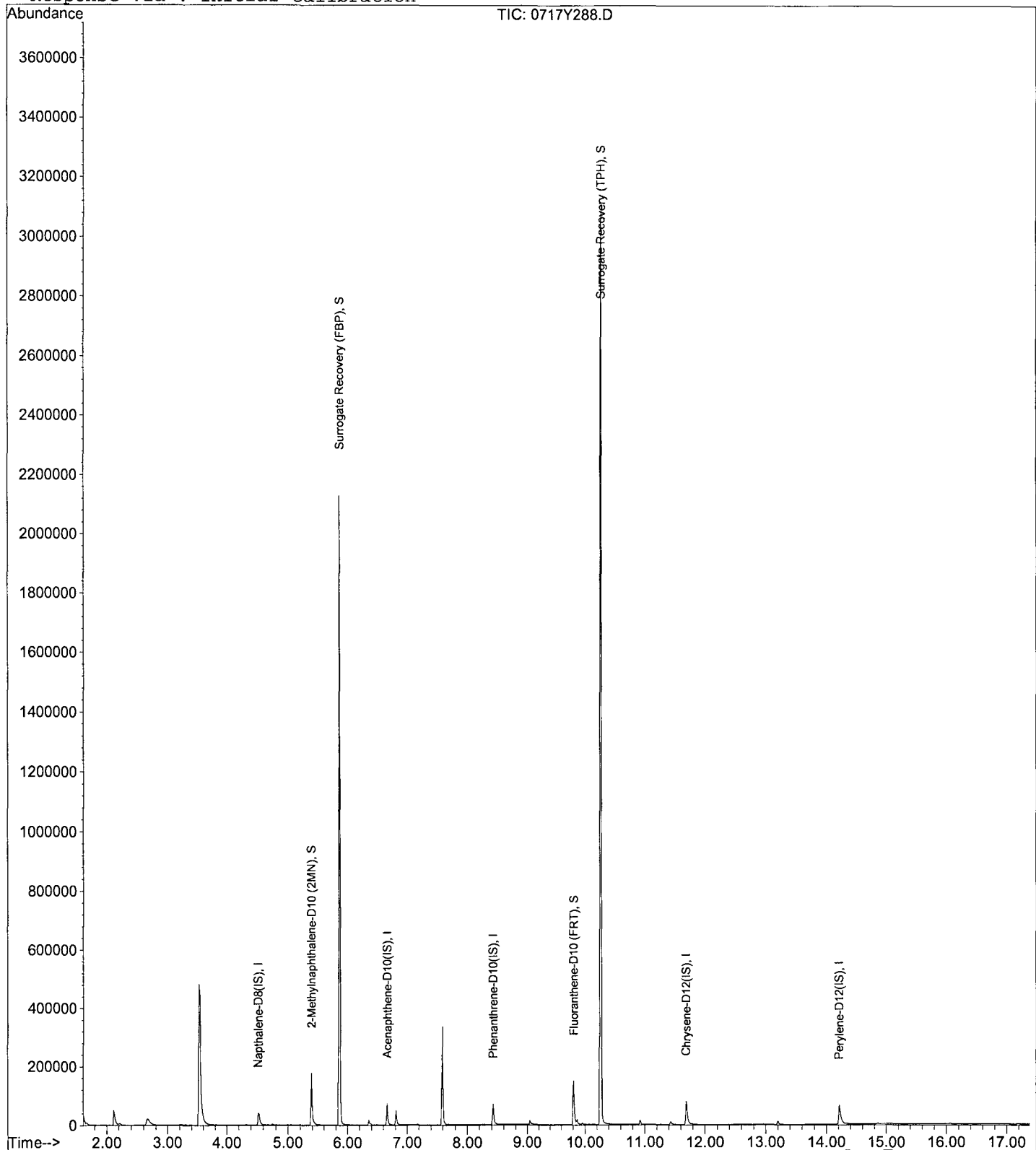
Data File : M:\YODA\DATA\Y190717P\0717Y288.D
Acq On : 30 Jul 19 16:36
Sample : AZ95336W16 1/800
Misc :

Vial: 88
Operator: MA, SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 31 11:34 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y289.D Vial: 89
 Acq On : 30 Jul 19 17:15 Operator: MA,SS
 Sample : AZ95338W16 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Jul 31 11:35 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	4.53	136	74010	2.50000	ppb	-0.05
7) Acenaphthene-D10 (IS)	6.68	164	39943	2.50000	ppb	-0.05
12) Phenanthrene-D10 (IS)	8.43	188	83256	2.50000	ppb	-0.06
17) Chrysene-D12 (IS)	11.70	240	113232	2.50000	ppb	-0.09
23) Perylene-D12 (IS)	14.22	264	121325	2.50000	ppb	-0.10
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	0.00	82	0	0.00000	ppb	
Spiked Amount	6.250		Recovery	=	0.000%	
4) 2-Methylnaphthalene-D10 (2)	5.40	152	167368	6.13016	ppb	-0.03
Spiked Amount	6.250		Recovery	=	98.080%	
8) Surrogate Recovery (FBP)	5.87	172	1681987	91.17777	ppb	-0.08
Spiked Amount	6.250		Recovery	=	1458.848%	
15) Fluoranthene-D10 (FRT)	9.81	212	204284	6.83403	ppb	-0.06
Spiked Amount	6.250		Recovery	=	109.344%	
19) Surrogate Recovery (TPH)	10.27	244	2697872	78.23702	ppb	-0.05
Spiked Amount	6.250		Recovery	=	1251.792%	

Target Compounds Qvalue

Quantitation Report

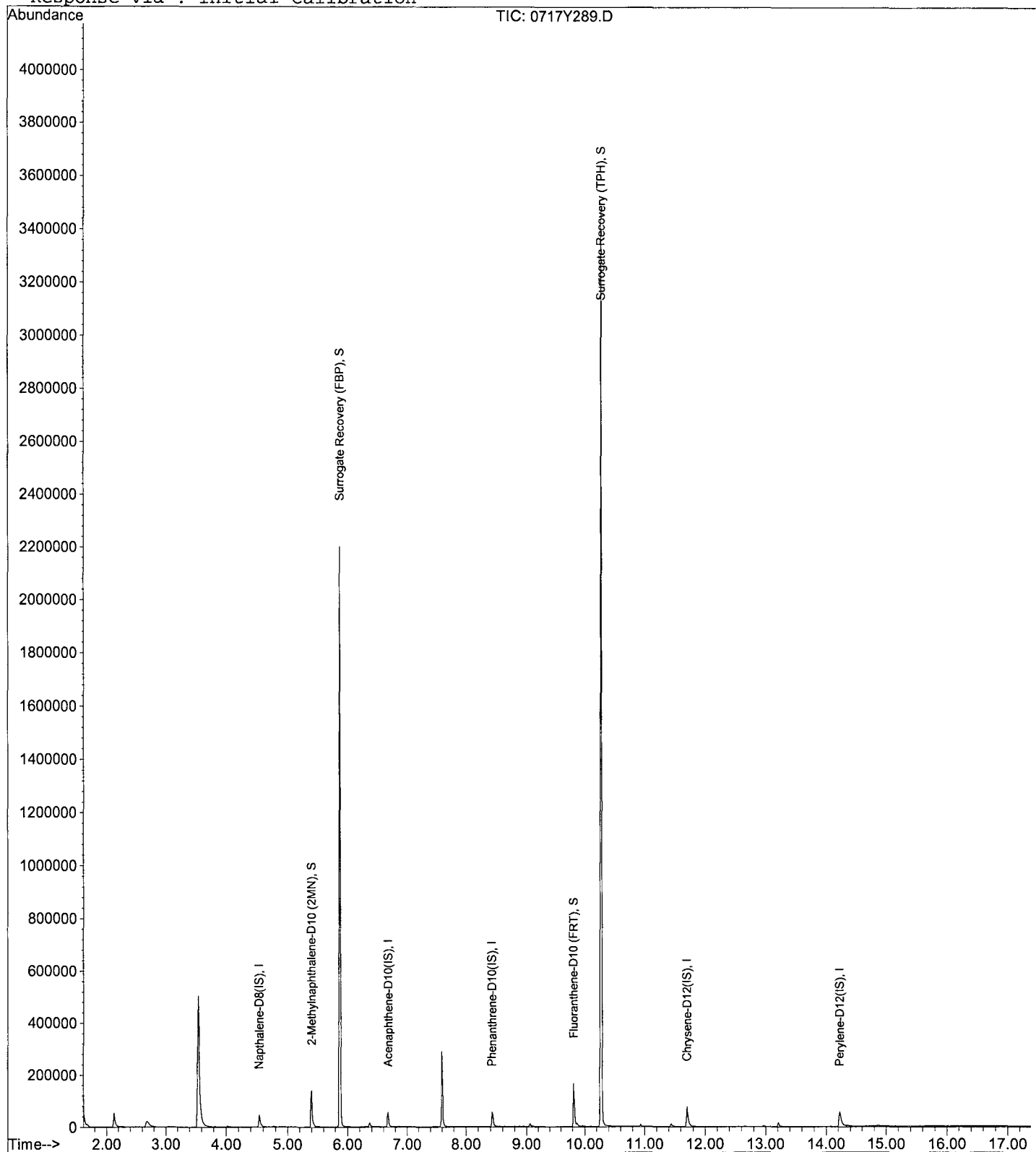
Data File : M:\YODA\DATA\Y190717P\0717Y289.D
Acq On : 30 Jul 19 17:15
Sample : AZ95338W16 1/800
Misc :

Vial: 89
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 31 11:35 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y273.D Vial: 73
 Acq On : 30 Jul 19 10:34 Operator: MA,SS
 Sample : 190725A BLK 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Jul 30 10:40 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	4.53	136	72894	2.50000	ppb	-0.05
7) Acenaphthene-D10 (IS)	6.66	164	40606	2.50000	ppb	-0.07
12) Phenanthrene-D10 (IS)	8.42	188	83470	2.50000	ppb	-0.07
17) Chrysene-D12 (IS)	11.70	240	119346	2.50000	ppb	-0.09
23) Perylene-D12 (IS)	14.22	264	121130	2.50000	ppb	-0.10
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	0.00	82	0	0.00000	ppb	
Spiked Amount	6.250					
			Recovery	=	0.000%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	167613	6.23313	ppb	-0.05
Spiked Amount	6.250					
			Recovery	=	99.728%	
8) Surrogate Recovery (FBP)	5.87	172	1755827	93.62645	ppb	-0.08
Spiked Amount	6.250					
			Recovery	=	1498.016%	
15) Fluoranthene-D10 (FRT)	9.81	212	221115	7.37813	ppb	-0.06
Spiked Amount	6.250					
			Recovery	=	118.048%	
19) Surrogate Recovery (TPH)	10.27	244	2964542	81.56613	ppb	-0.05
Spiked Amount	6.250					
			Recovery	=	1305.056%	

Target Compounds Qvalue

Quantitation Report

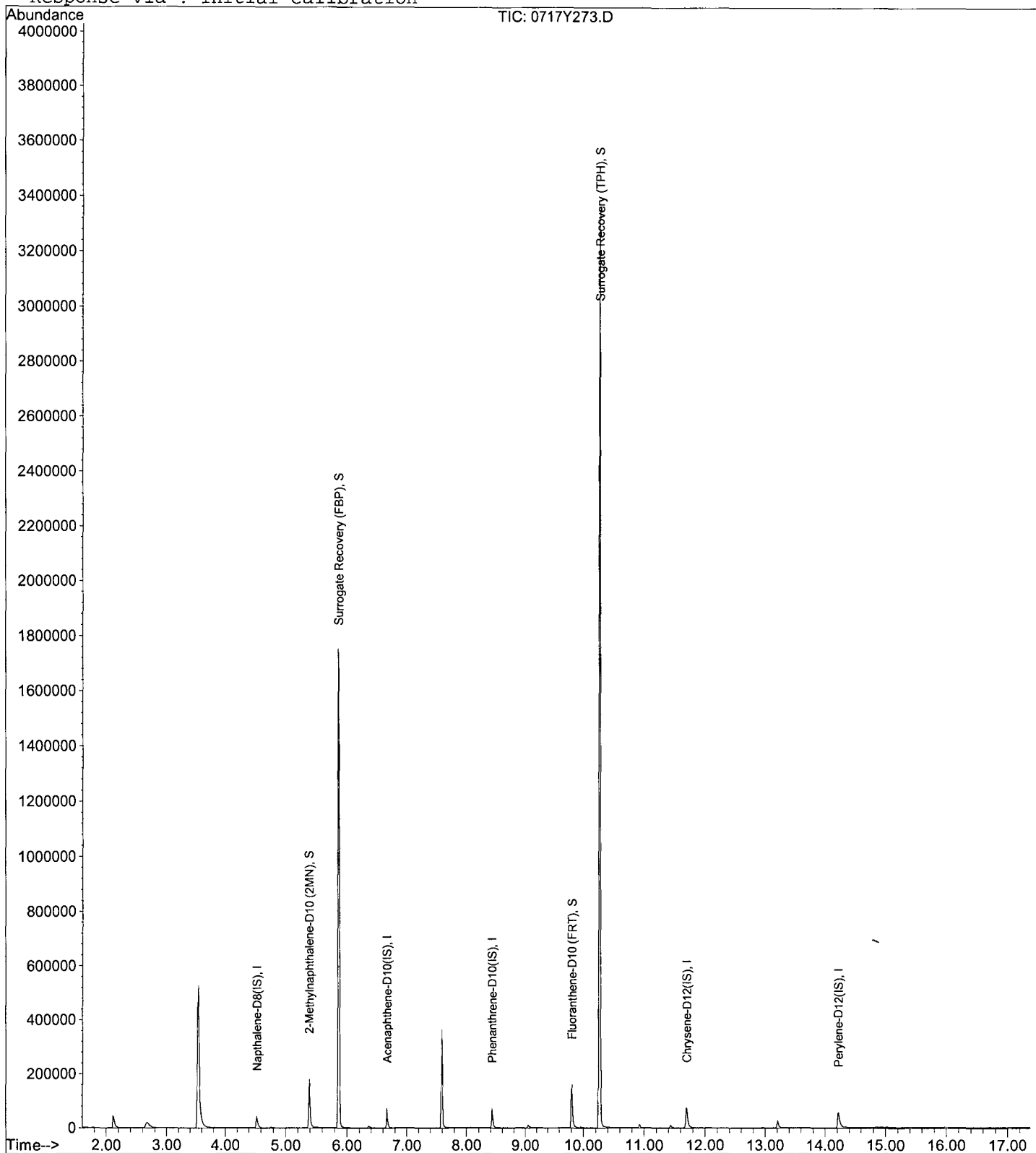
Data File : M:\YODA\DATA\Y190717P\0717Y273.D
Acq On : 30 Jul 19 10:34
Sample : 190725A BLK 1/800
Misc :

Vial: 73
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 30 10:40 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y280.D
 Acq On : 30 Jul 19 13:27
 Sample : 190725A LCS-2 1/800
 Misc :

Vial: 80
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Jul 30 14:04 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.52	136	69733	2.50000	ppb	-0.06
7) Acenaphthene-D10 (IS)	6.66	164	38363	2.50000	ppb	-0.06
12) Phenanthrene-D10 (IS)	8.42	188	87976	2.50000	ppb	-0.06
17) Chrysene-D12 (IS)	11.68	240	125618	2.50000	ppb	-0.11
23) Perylene-D12 (IS)	14.21	264	133560	2.50000	ppb	-0.11
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.68	82	935	0.91902	ppb	-0.03
Spiked Amount	6.250		Recovery	=	14.704%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	168983	6.56893	ppb	-0.05
Spiked Amount	6.250		Recovery	=	105.104%	
8) Surrogate Recovery (FBP)	5.88	172	2595	0.14646	ppb	-0.07
Spiked Amount	6.250		Recovery	=	2.336%	
15) Fluoranthene-D10 (FRT)	9.80	212	217008	6.87021	ppb	-0.07
Spiked Amount	6.250		Recovery	=	109.920%	
19) Surrogate Recovery (TPH)	10.27	244	19077	0.49868	ppb	-0.05
Spiked Amount	6.250		Recovery	=	7.984%	
Target Compounds						
3) Naphthalene	4.54	128	134727	4.51690	ppb	99
5) 2-Methylnaphthalene	5.42	142	87032	4.87320	ppb	100
6) 1-Methylnaphthalene	5.54	142	87039	3.96663	ppb	94
9) Acenaphthylene	6.50	152	342851	6.30775	ppb #	84
10) Acenaphthene	6.70	154	90619	4.35147	ppb	96
11) Fluorene	7.31	166	116068	5.08778	ppb	97
13) Phenanthrene	8.45	178	172570	4.12378	ppb	98
14) Anthracene	8.51	178	158270	4.48408	ppb	99
16) Fluoranthene	9.82	202	251732	4.81565	ppb	92
18) Pyrene	10.09	202	252791	3.60021	ppb #	87
20) Benz (a) anthracene	11.66	228	246172	4.05224	ppb	99
21) Chrysene	11.72	228	242890	3.59322	ppb #	89
22) Indeno (1,2,3-cd) pyrene	15.82	276	297492	4.29330	ppb #	99
24) Benzo (b) fluoranthene	13.60	252	249065	3.55814	ppb	99
25) Benzo (k) fluoranthene	13.64	252	282887	4.07571	ppb	98
26) Benzo (a) pyrene	14.12	252	215739	3.47651	ppb	99
27) Dibenz (a,h) anthracene	15.83	278	262648	4.09404	ppb #	94
28) Benzo (g,h,i) perylene	16.29	276	247631	4.18909	ppb	98

(#) = qualifier out of range (m) = manual integration
 0717Y280.D Y0717P.M Fri Aug 23 12:00:08 2019

Quantitation Report

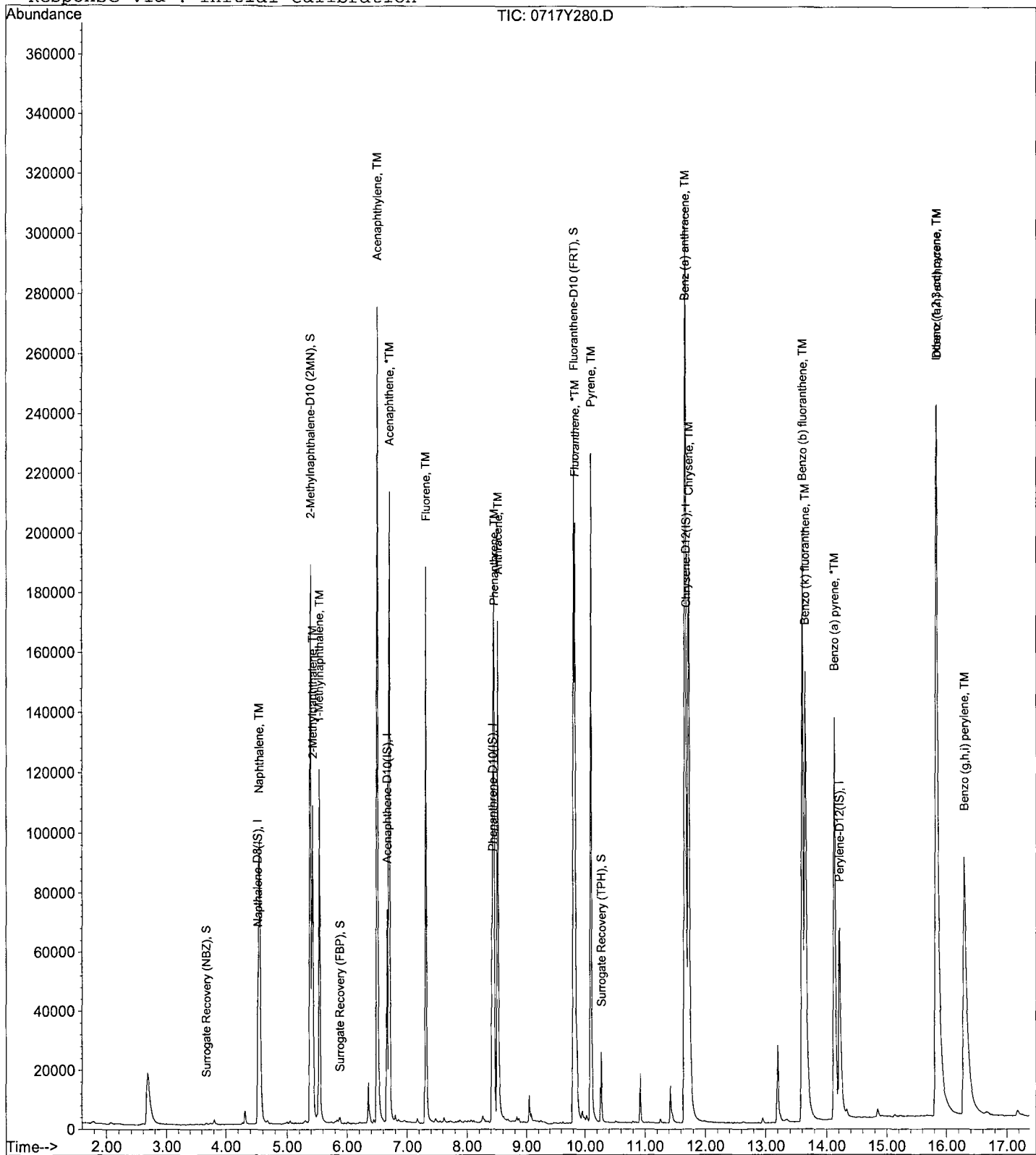
Data File : M:\YODA\DATA\Y190717P\0717Y280.D
Acq On : 30 Jul 19 13:27
Sample : 190725A LCS-2 1/800
Misc :

Vial: 80
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 30 14:04 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y281.D Vial: 81
 Acq On : 30 Jul 19 13:50 Operator: MA,SS
 Sample : 190725A LCSD-2 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Jul 30 14:05 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.52	136	75112	2.50000	ppb	-0.06
7) Acenaphthene-D10 (IS)	6.66	164	40135	2.50000	ppb	-0.06
12) Phenanthrene-D10 (IS)	8.41	188	93783	2.50000	ppb	-0.08
17) Chrysene-D12 (IS)	11.68	240	124961	2.50000	ppb	-0.11
23) Perylene-D12 (IS)	14.21	264	87220	2.50000	ppb	-0.11
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.66	82	603	0.86684	ppb	-0.04
Spiked Amount	6.250		Recovery	=	13.872%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	172255	6.21659	ppb	-0.05
Spiked Amount	6.250		Recovery	=	99.472%	
8) Surrogate Recovery (FBP)	5.88	172	824	0.04445	ppb	-0.06
Spiked Amount	6.250		Recovery	=	0.704%	
15) Fluoranthene-D10 (FRT)	9.80	212	221118	6.56687	ppb	-0.08
Spiked Amount	6.250		Recovery	=	105.072%	
19) Surrogate Recovery (TPH)	10.27	244	6857	0.18019	ppb	-0.05
Spiked Amount	6.250		Recovery	=	2.880%	
Target Compounds						
3) Naphthalene	4.54	128	136624	4.25247	ppb	99
5) 2-Methylnaphthalene	5.42	142	89946	4.67570	ppb	98
6) 1-Methylnaphthalene	5.54	142	88656	3.75098	ppb	96
9) Acenaphthylene	6.50	152	261057	4.59085	ppb #	84
10) Acenaphthene	6.70	154	85860	3.94092	ppb	96
11) Fluorene	7.31	166	118485	4.96442	ppb	96
13) Phenanthrene	8.44	178	176351	3.95319	ppb	100
14) Anthracene	8.51	178	125017	3.32264	ppb	99
16) Fluoranthene	9.82	202	251750	4.51779	ppb	91
18) Pyrene	10.09	202	233703	3.34586	ppb #	89
20) Benz (a) anthracene	11.65	228	228187	3.77594	ppb	99
21) Chrysene	11.72	228	242207	3.60196	ppb #	89
22) Indeno (1,2,3-cd) pyrene	15.83	276	284266	4.12399	ppb #	88
24) Benzo (b) fluoranthene	13.60	252	248938	5.37932	ppb	99
25) Benzo (k) fluoranthene	13.64	252	271045	5.97987	ppb	98
26) Benzo (a) pyrene	14.12	252	156855	3.87056	ppb	98
27) Dibenz (a,h) anthracene	15.83	278	256825	6.13022	ppb	95
28) Benzo (g,h,i) perylene	16.29	276	225706	5.84680	ppb	100

(#) = qualifier out of range (m) = manual integration
 0717Y281.D Y0717P.M Fri Aug 23 12:00:10 2019

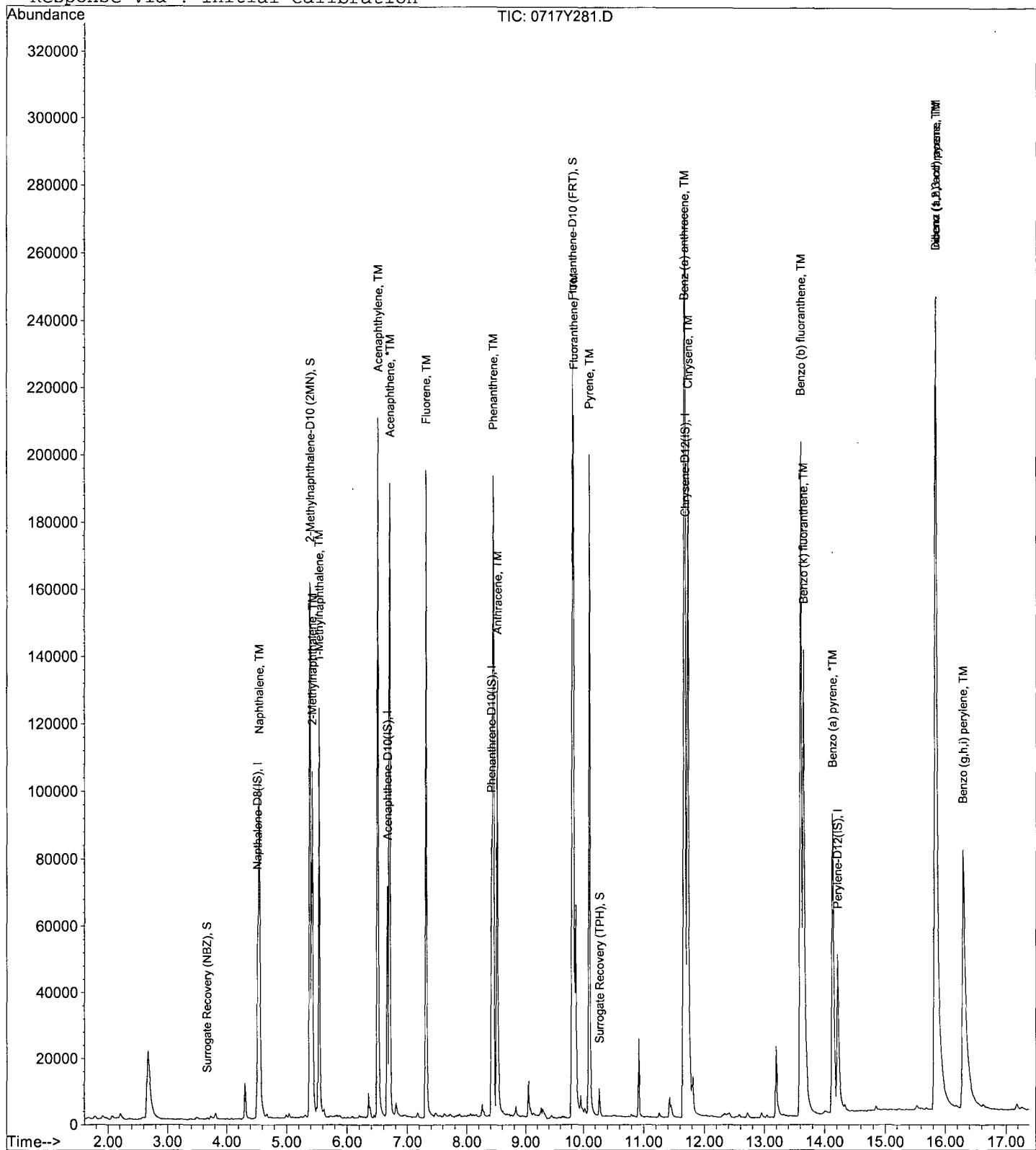
Data File : M:\YODA\DATA\Y190717P\0717Y281.D
Acq On : 30 Jul 19 13:50
Sample : 190725A LCSD-2 1/800
Misc :

Vial: 81
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 30 14:05 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



Data File Name: 0717Y271.D
Data File Path: M:\YODA\DATA\Y190717P\
Operator: MA,SS
Date Acquired: 30 Jul 2019 09:50
Method File: DFTPP2.M
Sample Name: SV TUNE 7/11/19
Vial Number: 71
Instrument Name: Yoda

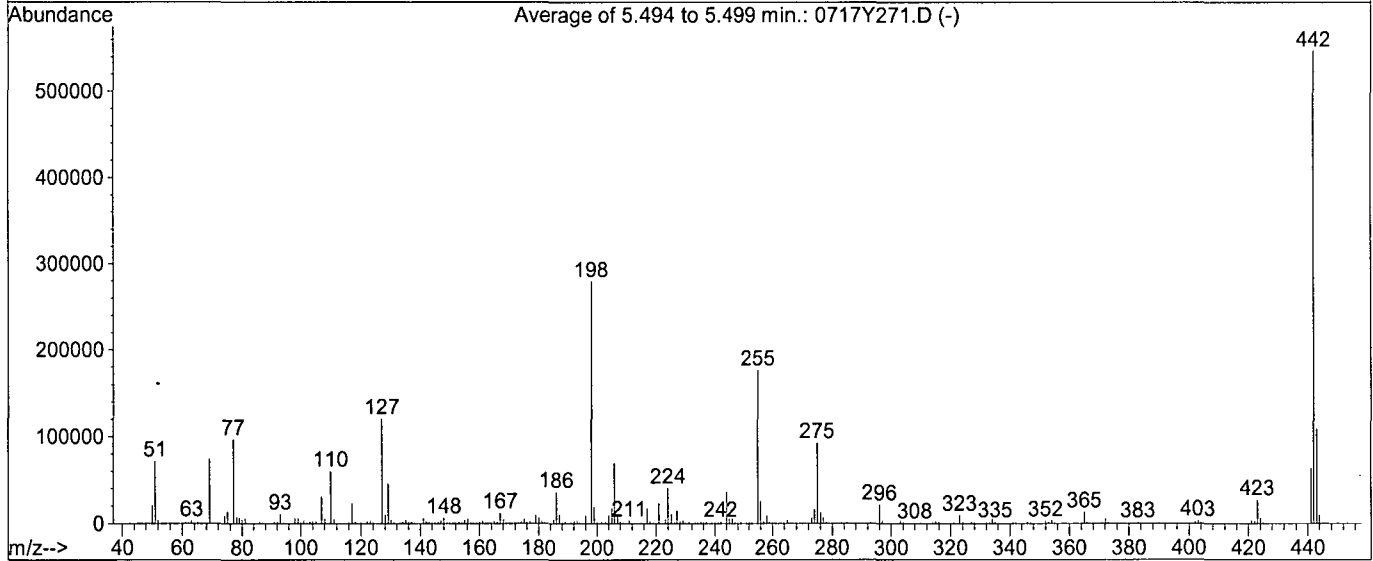
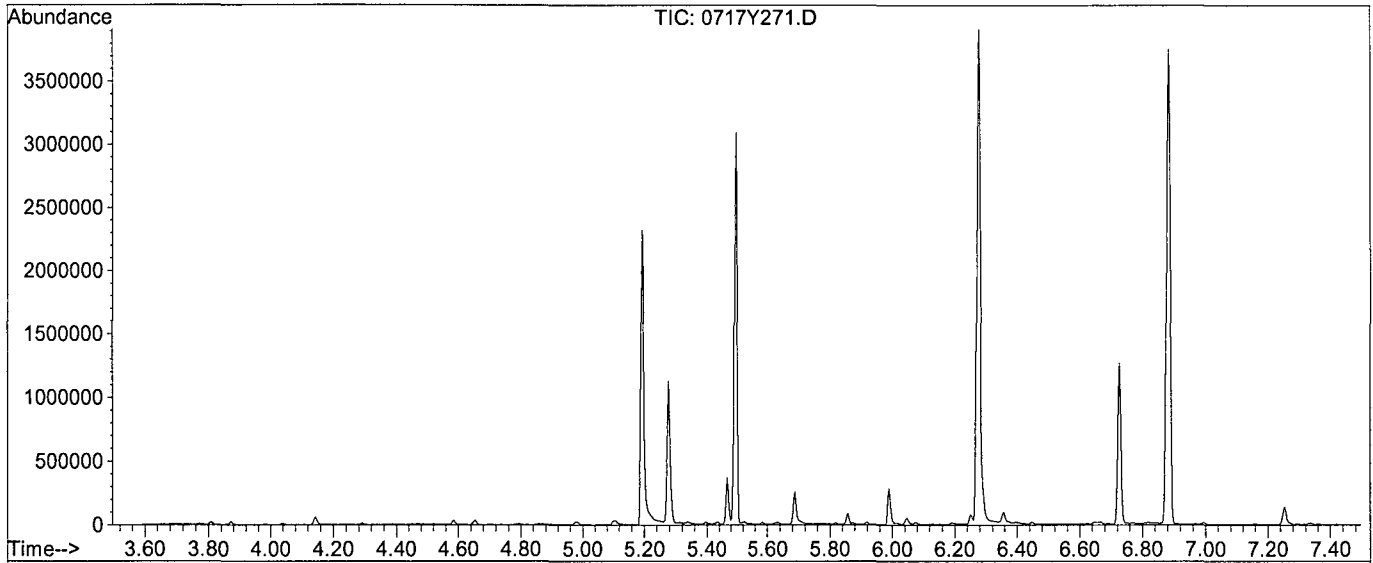
#	Name	Ret Time	Target Response
1)	DDT	6.84	30299500
2)	DDD	6.63	147951
3)	DDE	6.69	0

Breakdown 0.49

Data File : M:\YODA\DATA\Y190717P\0717Y271.D
 Acq On : 30 Jul 19 9:50
 Sample : SV TUNE 7/11/19
 Misc :

Vial: 71
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Method : M:\YODA\DATA\Y190717P\DFTPP2.M (Chemstation Integrator)
 Title :



Spectrum Information: Average of 5.494 to 5.499 min.

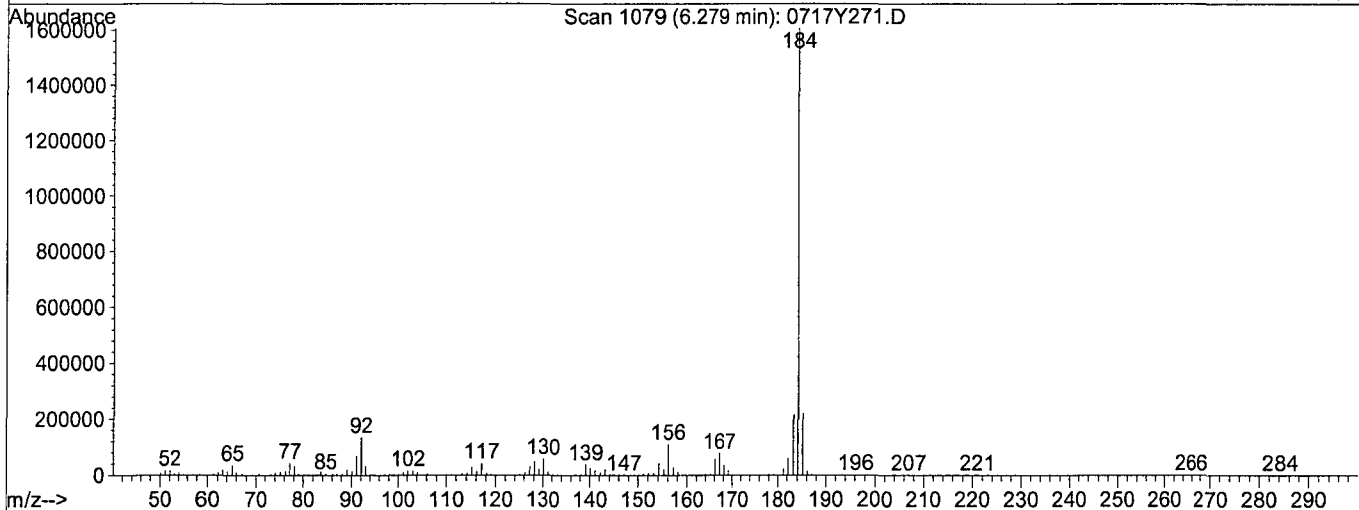
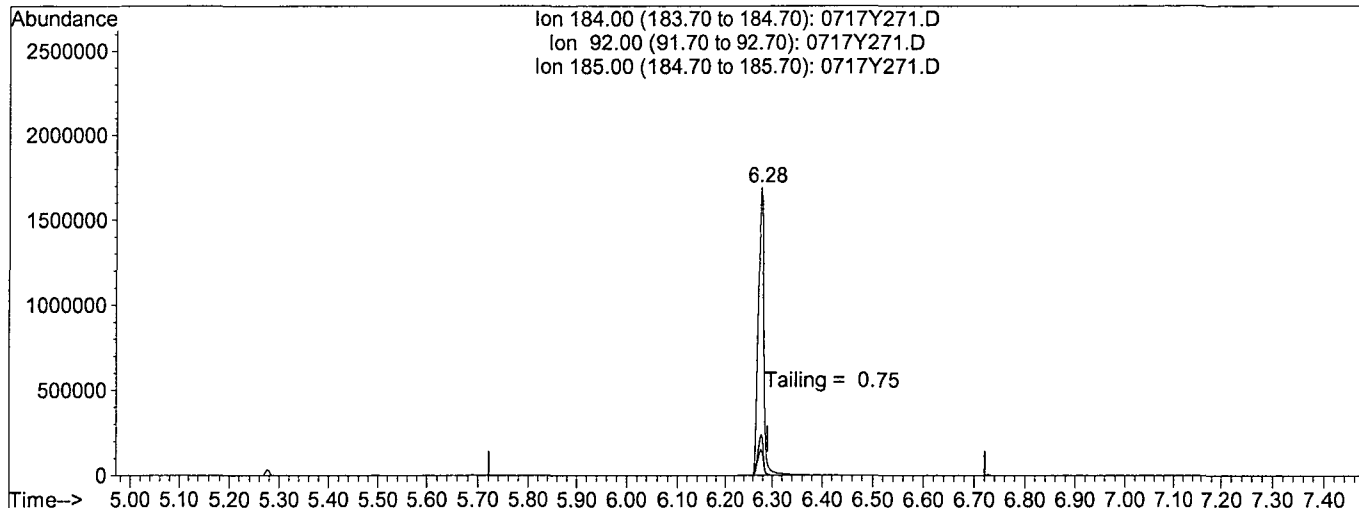
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	25.5	71205	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	42.9	119904	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	279275	PASS
199	198	5	9	6.6	18445	PASS
275	198	10	60	33.0	92243	PASS
365	198	1	100	4.6	12725	PASS
441	442	0.01	24	11.5	62811	PASS
442	198	50	500	195.9	547157	PASS
443	442	17	23	19.8	108403	PASS

Quantitation Report

Data File : M:\YODA\DATA\Y190717P\0717Y271.D
 Acq On : 30 Jul 19 9:50
 Sample : SV TUNE 7/11/19
 Misc :
 Quant Time: Jul 30 9:44 2019

Vial: 71
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190717P\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Sat Jul 27 13:57:25 2019
 Response via : Single Level Calibration



TIC: 0717Y271.D

(6) Benzidine		
6.28min	0.0000	
response	13281776	
Ion	Exp%	Act%
184.00	100	100
92.00	7.80	8.91
185.00	14.00	13.97
0.00	0.00	0.00

Data File Name: 0717Y002.D
Data File Path: M:\YODA\DATA\Y190717P\
Operator: MA,SS
Date Acquired: 17 Jul 2019 09:34
Method File: DFTPP2.M
Sample Name: SV TUNE 07/11/19
Vial Number: 2
Instrument Name: Yoda

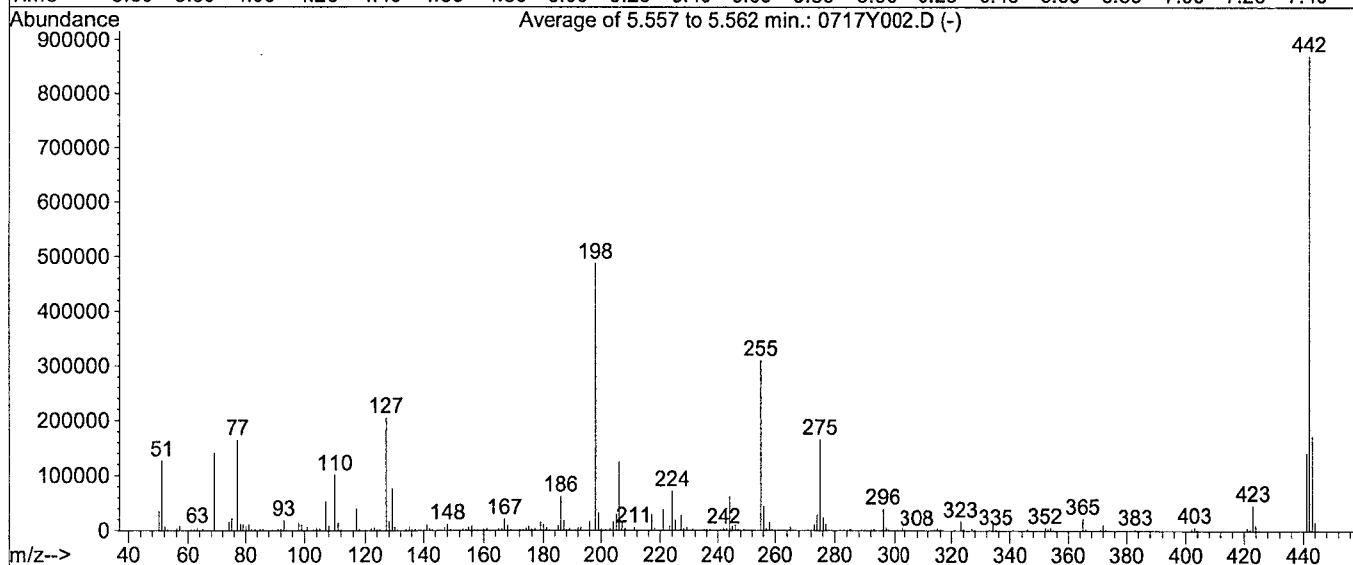
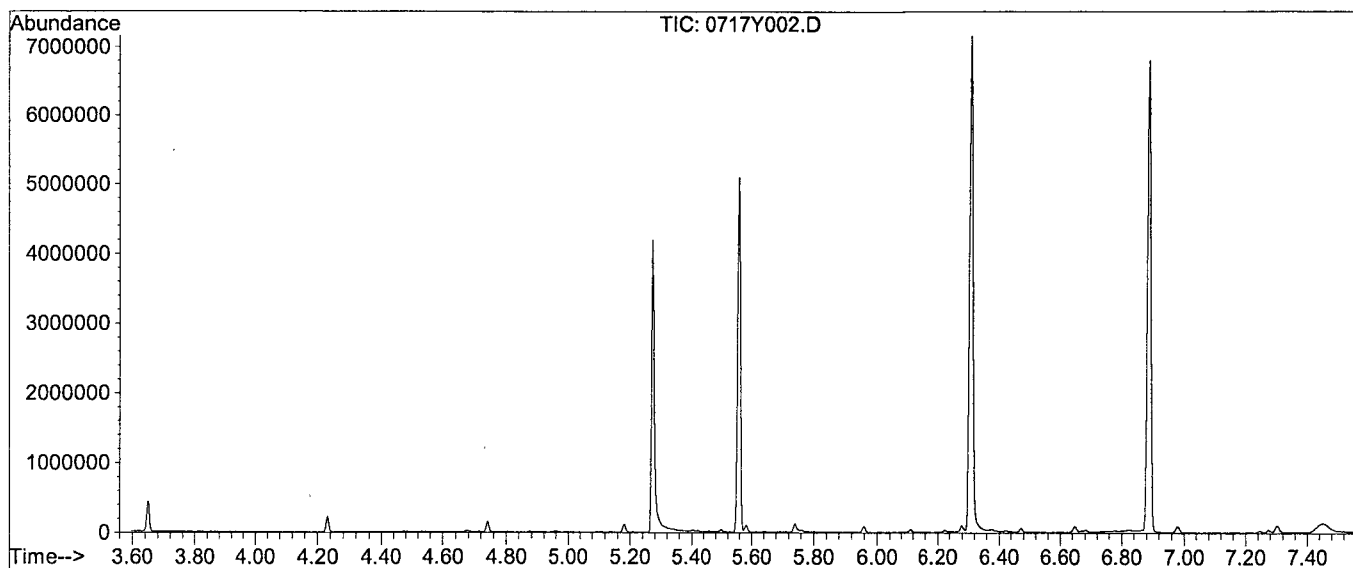
#	Name	Ret Time	Target Response
1)	DDT	6.94	53172800
2)	DDD	6.71	294434
3)	DDE	6.80	131871

Breakdown 0.80

Data File : M:\YODA\DATA\Y190717P\0717Y002.D
 Acq On : 17 Jul 19 9:34
 Sample : SV TUNE 07/11/19
 Misc :

Vial: 2
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Method : M:\YODA\DATA\Y190717P\DFTPP2.M (Chemstation Integrator)
 Title :



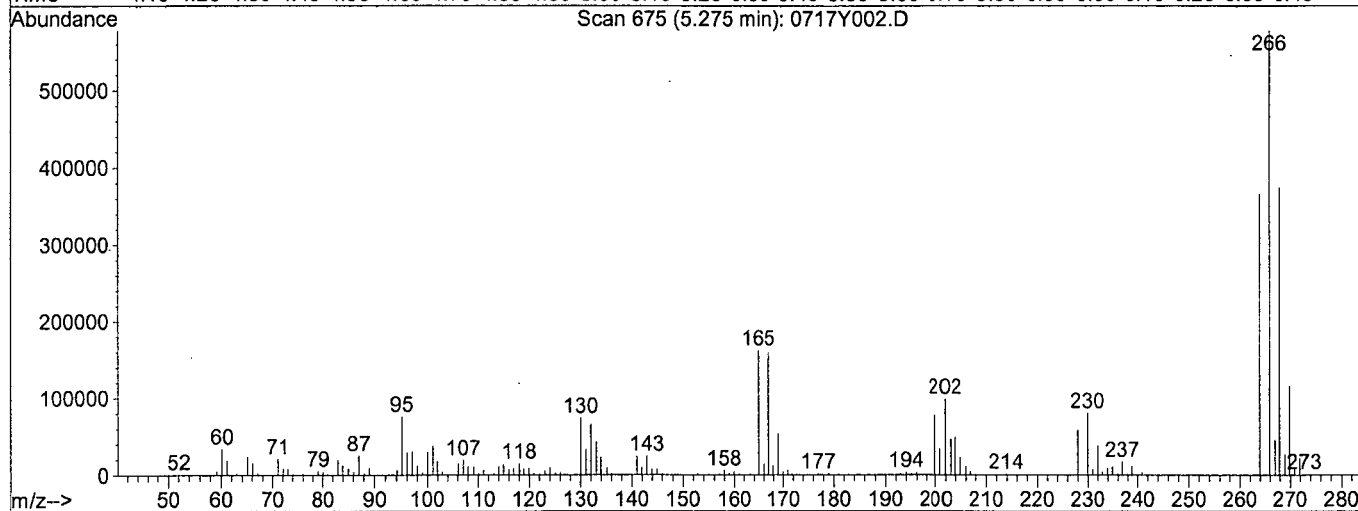
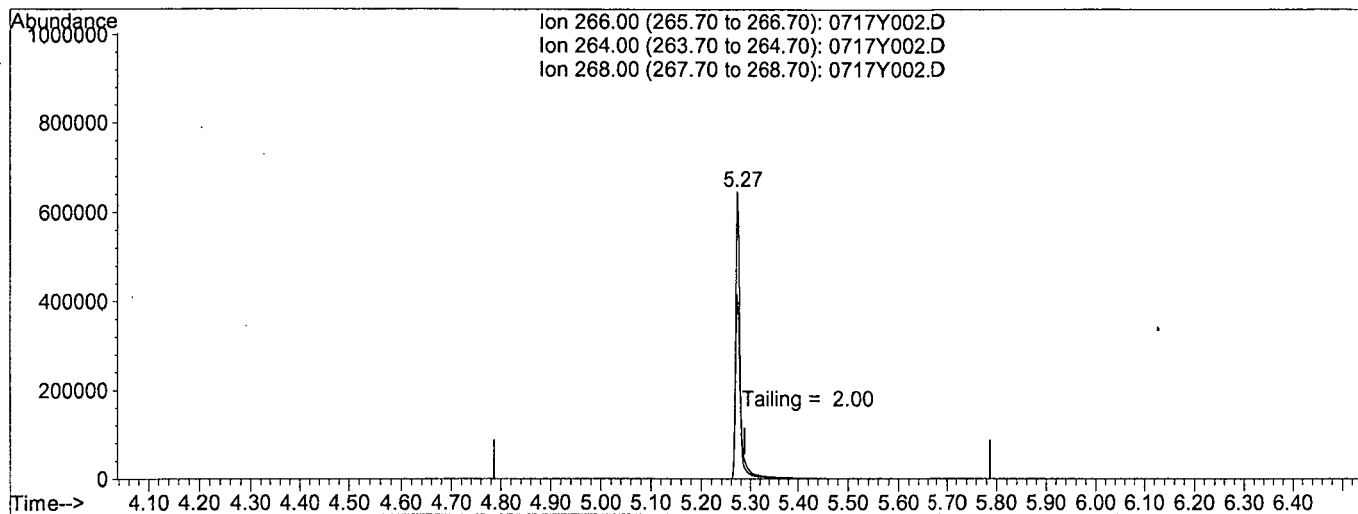
Spectrum Information: Average of 5.557 to 5.562 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	25.9	126393	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.5	670	PASS
127	198	10	80	42.1	205333	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	487445	PASS
199	198	5	9	6.7	32565	PASS
275	198	10	60	34.0	165504	PASS
365	198	1	100	4.6	22304	PASS
441	442	0.01	24	16.2	141016	PASS
442	198	50	500	178.7	870955	PASS
443	442	17	23	19.8	172459	PASS

Quantitation Report

Data File : M:\YODA\DATA\Y190717P\0717Y002.D Vial: 2
 Acq On : 17 Jul 19 9:34 Operator: MA,SS
 Sample : SV TUNE 07/11/19 Inst : Yoda
 Misc : Multiplr: 1.00
 Quant Time: Jul 17 9:31 2019 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190717P\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Thu Jul 04 10:59:55 2019
 Response via : Single Level Calibration



TIC: 0717Y002.D

(5) Pentachlorophenol

5.27min 0.0000

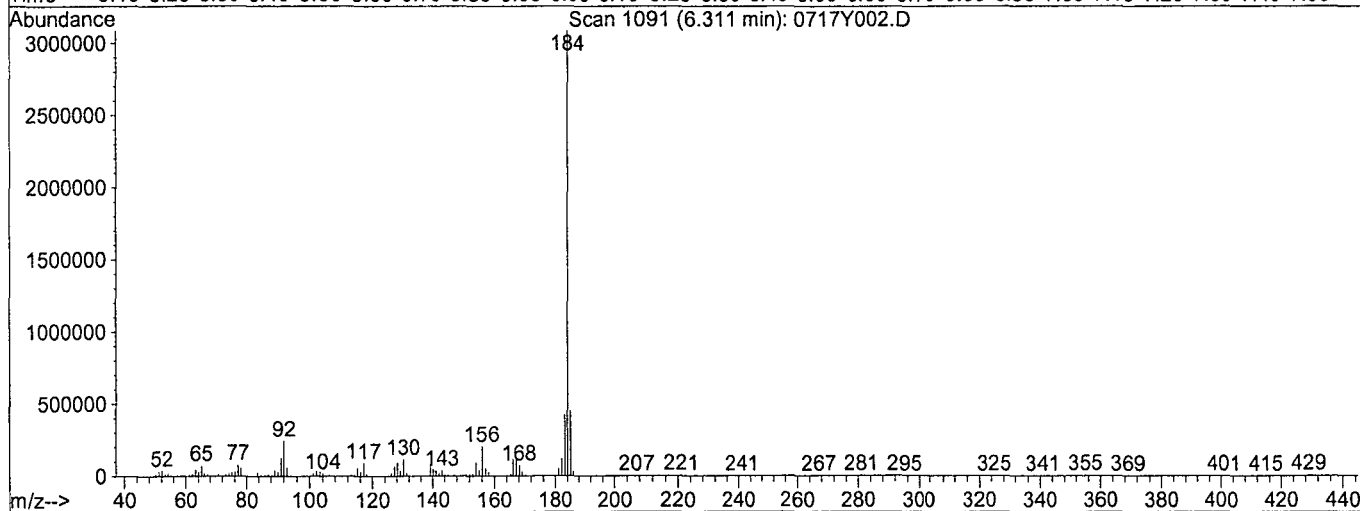
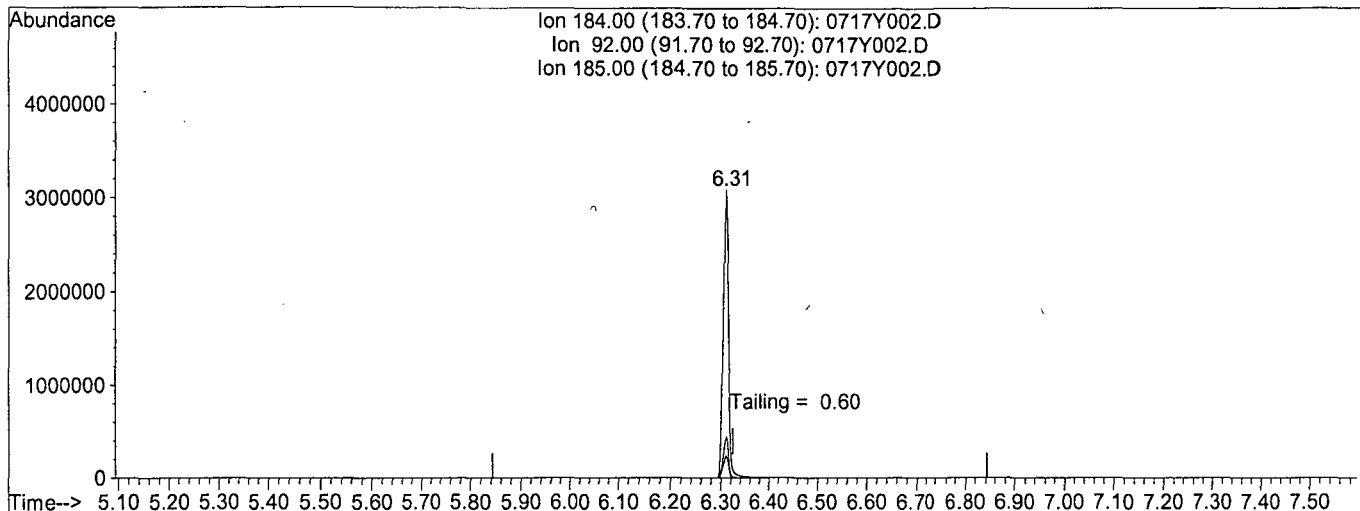
response 4357739

Ion	Exp%	Act%
266.00	100	100
264.00	58.70	62.68
268.00	59.20	62.80
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190717P\0717Y002.D Vial: 2
 Acq On : 17 Jul 19 9:34 Operator: MA,SS
 Sample : SV TUNE 07/11/19 Inst : Yoda
 Misc : Multiplr: 1.00
 Quant Time: Jul 17 9:31 2019 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190717P\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Thu Jul 04 10:59:55 2019
 Response via : Single Level Calibration



TIC: 0717Y002.D

(6) Benzidine

6.31min 0.0000

response 23796780

Ion	Exp%	Act%
184.00	100	100
92.00	6.60	8.03
185.00	14.60	14.63
0.00	0.00	0.00

Data File Name: 0717Y304.D
Data File Path: M:\YODA\DATA\Y190717P\
Operator: MA,SS
Date Acquired: 31 Jul 2019 14:35
Method File: DFTPP2.M
Sample Name: SV TUNE 07/11/19
Vial Number: 4
Instrument Name: Yoda

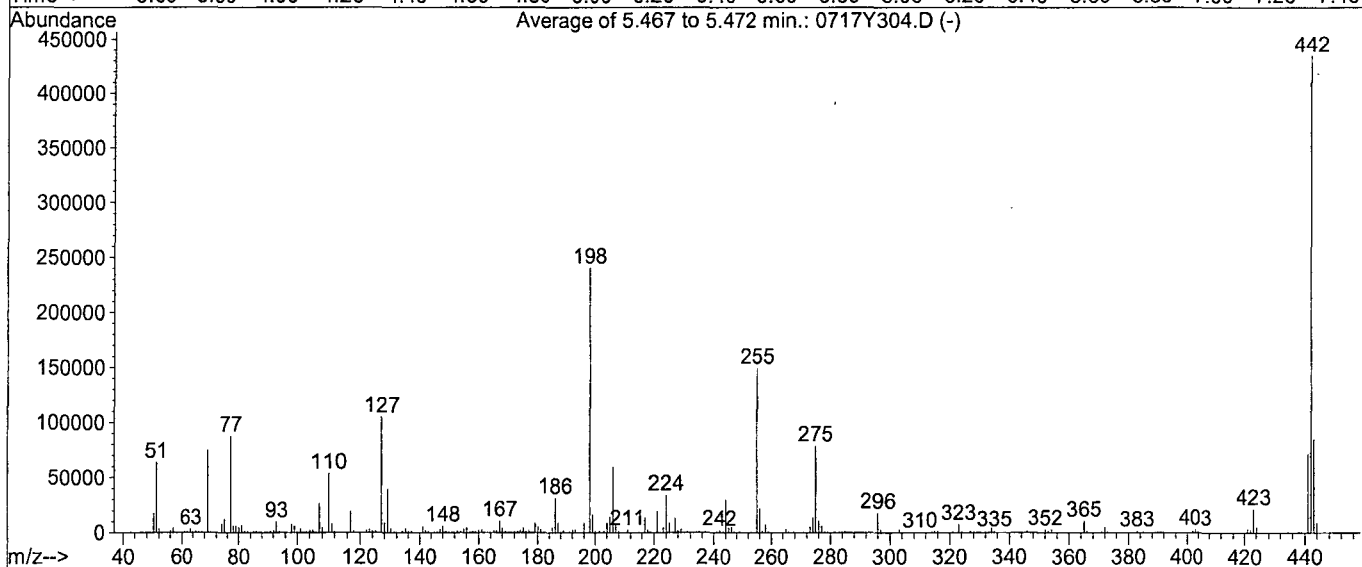
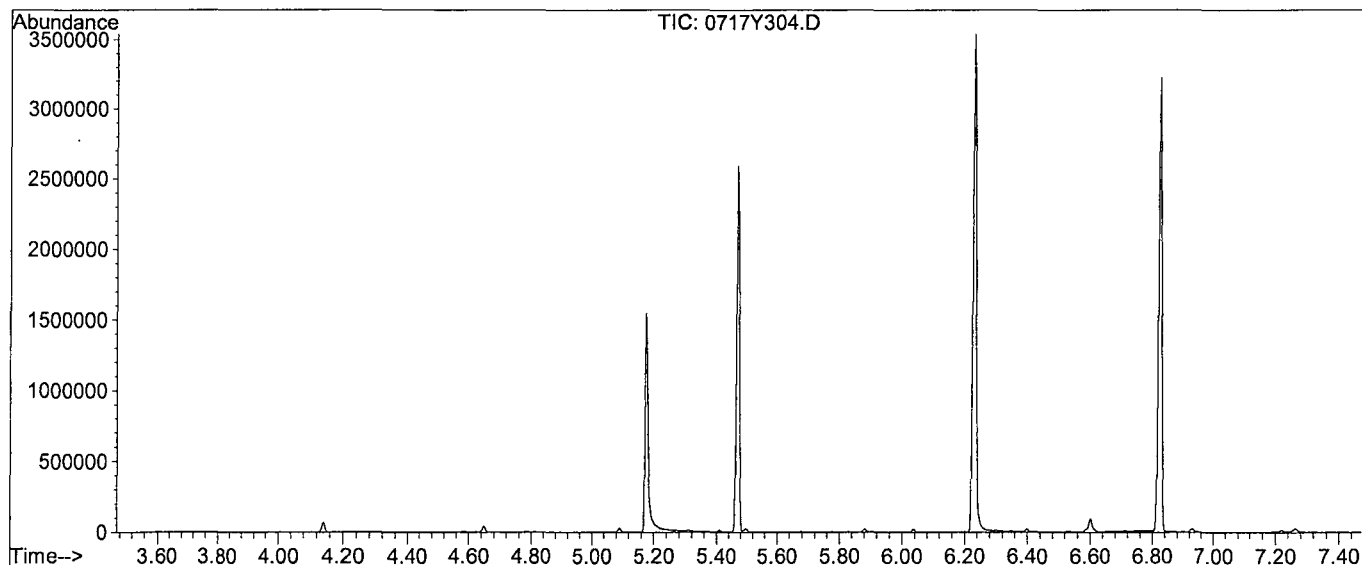
#	Name	Ret Time	Target Response
1)	DDT	6.84	23629900
2)	DDD	6.63	925531
3)	DDE	6.69	0

Breakdown 3.77

Data File : M:\YODA\DATA\Y190717P\0717Y304.D
 Acq On : 31 Jul 19 14:35
 Sample : SV TUNE 07/11/19
 Misc :

Vial: 4
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270



AutoFind: Scans 753, 754, 755; Background Corrected with Scan 745

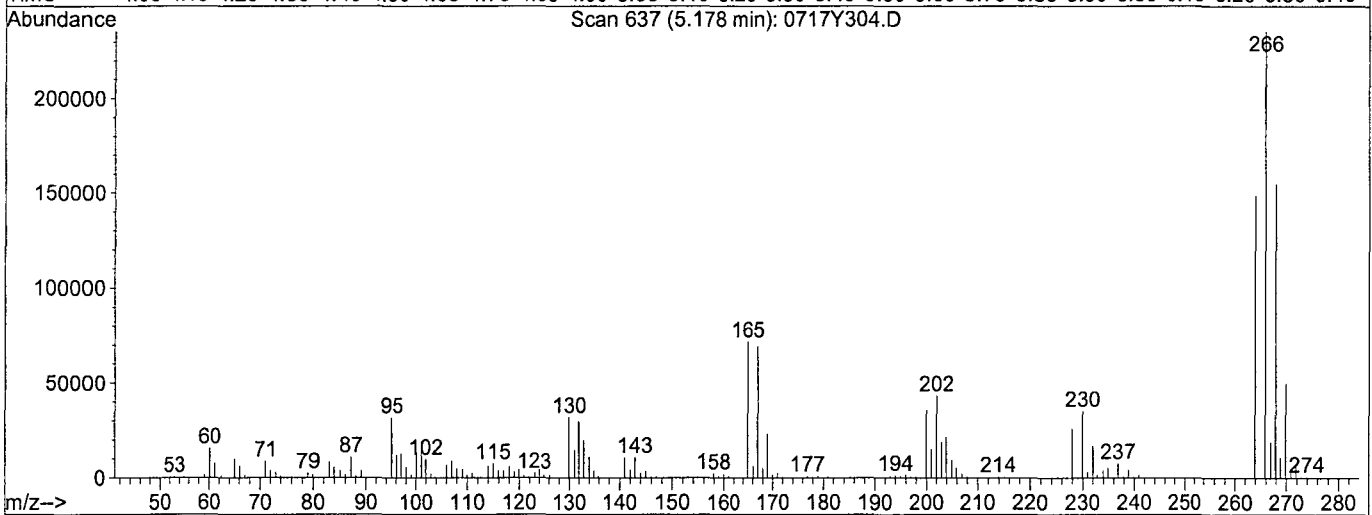
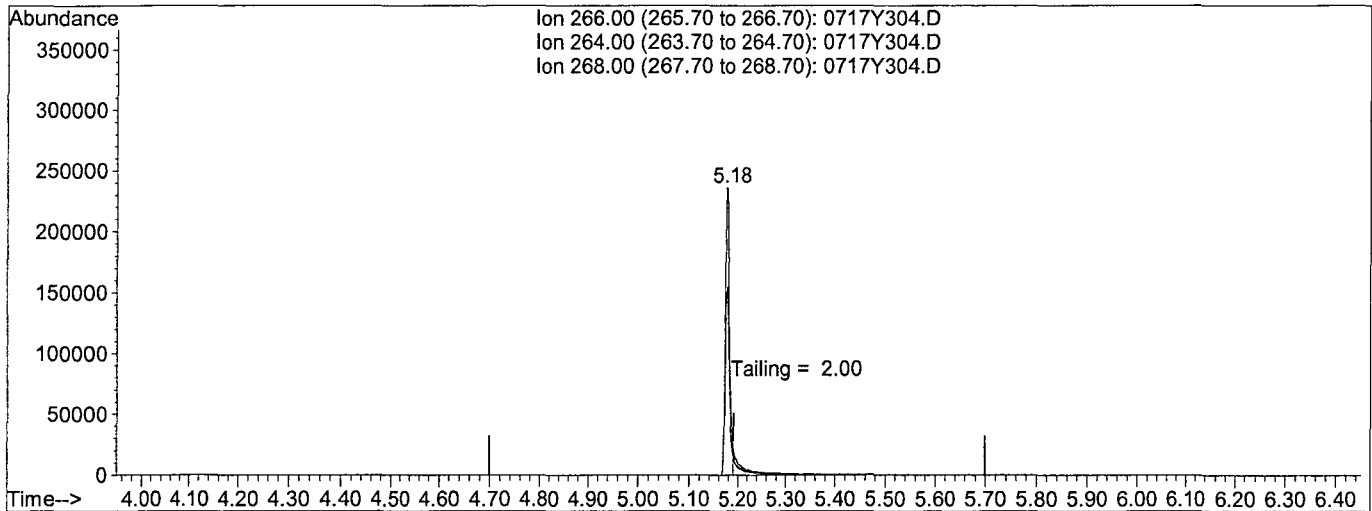
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	26.5	63733	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.6	443	PASS
127	198	10	80	43.6	104880	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	240427	PASS
199	198	5	9	6.8	16259	PASS
275	198	10	60	32.7	78715	PASS
365	198	1	100	4.3	10326	PASS
441	442	0.01	24	16.5	71688	PASS
442	198	50	500	180.9	434837	PASS
443	442	15	24	19.5	84917	PASS

Quantitation Report

Data File : M:\YODA\DATA\Y190717P\0717Y304.D
 Acq On : 31 Jul 19 14:35
 Sample : SV TUNE 07/11/19
 Misc :
 Quant Time: Jul 31 14:29 2019

Vial: 4
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190717P\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Sat Jul 27 13:57:25 2019
 Response via : Single Level Calibration



TIC: 0717Y304.D

(5) Pentachlorophenol

5.18min 0.0000

response 1721922

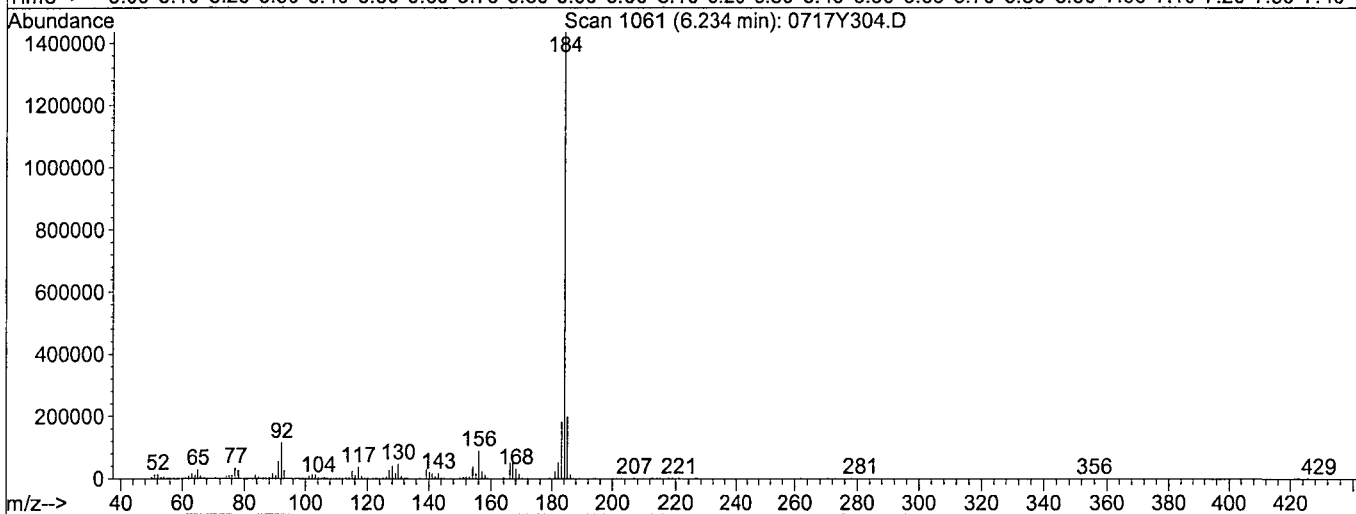
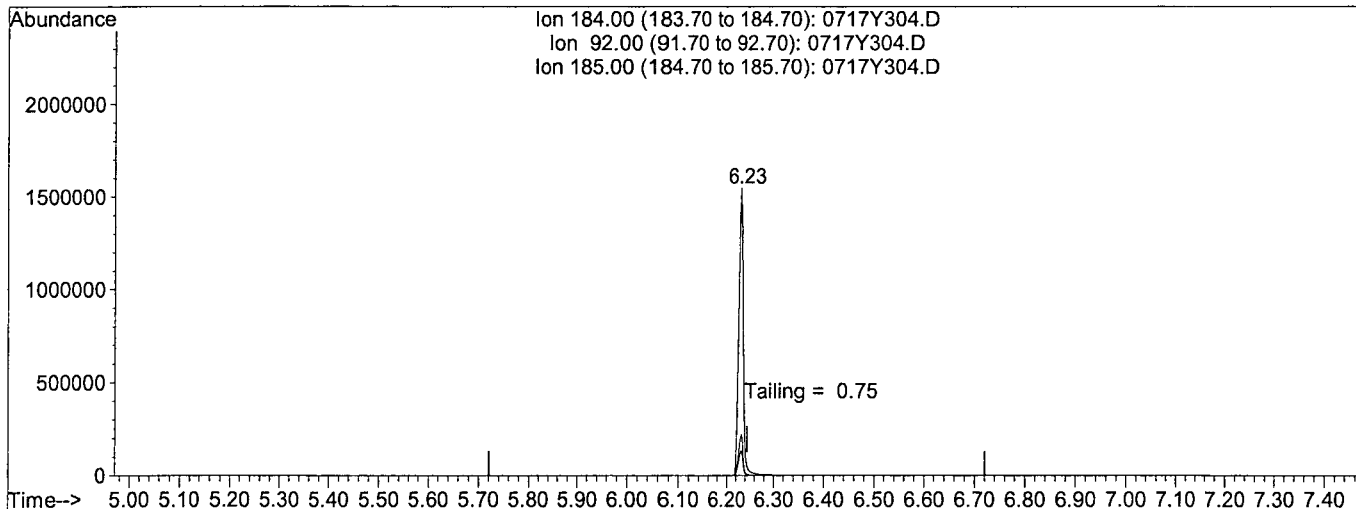
Ion	Exp%	Act%
266.00	100	100
264.00	65.10	61.48
268.00	63.60	64.54
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190717P\0717Y304.D
 Acq On : 31 Jul 19 14:35
 Sample : SV TUNE 07/11/19
 Misc :
 Quant Time: Jul 31 14:29 2019

Vial: 4
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190717P\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Sat Jul 27 13:57:25 2019
 Response via : Single Level Calibration



TIC: 0717Y304.D

(6) Benzidine

6.23min 0.0000

response 11224781

Ion	Exp%	Act%
184.00	100	100
92.00	7.80	8.58
185.00	14.00	14.08
0.00	0.00	0.00

Name of Final Standard SIM Curve
 Prep Date 07/10/19
 Exp Date 12/28/19

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
1.0 ug/mL SIM	Phenova	1.0 ug/mL SIM	1.0 ug/mL	07/10/19	12/28/19	10 uL	100uL	MC 56258 90uL	0.1 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	2 uL	*	*	2.5ug/mL
1.0 ug/mL SIM	Phenova	1.0 ug/mL SIM	1.0 ug/mL	07/10/19	12/28/19	20 uL	100uL	MC 56258 80uL	0.2 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	2 uL	*	*	2.5ug/mL
5.0 ug/mL SIM	Phenova	5.0 ug/mL SIM	5.0 ug/mL	07/10/19	12/28/19	10 uL	100uL	MC 56258 90uL	0.5 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	2 uL	*	*	2.5ug/mL
5.0 ug/mL SIM	APPL	5.0 ug/mL SIM	5.0 ug/mL	07/10/19	12/28/19	20 uL	100uL	MC 56258 80 uL	1.0 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	2 uL	*	*	2.5ug/mL
PAH SIM STOCK	Phenova	PAH SIM STOCK	200 ug/mL	12/28/18	12/28/19	5 uL	200uL	MC 56258 190 uL	5.0 ug/mL
Sim 2S Surrogate	Restek	SIM 2S SURR.	100 ug/mL	05/17/19	01/24/20	5 uL	*	*	2.5 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	4 uL	*	*	2.5ug/mL
PAH SIM STOCK	Phenova	PAH SIM STOCK	200 ug/mL	12/28/18	12/28/19	5 uL	100 uL	MC 56258 90 uL	10 ug/mL
Sim 2S Surrogate	APPL	SIM 2S SURR.	100 ug/mL	05/17/19	01/24/20	5 uL	*	*	5 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	2 uL	*	*	2.5ug/mL
PAH SIM STOCK	Phenova	PAH SIM STOCK	200 ug/mL	12/28/18	12/28/19	25 uL	100uL	MC 56258 50 uL	50 ug/mL
Sim 2S Surrogate	Restek	SIM 2S SURR.	100 ug/mL	05/17/19	01/24/20	25 uL	*	*	25 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	2 uL	*	*	2.5ug/mL
PAH SIM STOCK	Phenova	PAH SIM STOCK	200 ug/mL	12/28/18	12/28/19	50 uL	100uL	na	100 ug/mL
Sim 2S Surrogate	Restek	SIM 2S SURR.	100 ug/mL	05/17/19	01/24/20	50 uL	*	*	50 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	2 uL	*	*	2.5ug/mL

Name of Final Standard 8270 PAH SIM Second Source
 Prep Date 07/10/19
 Exp Date 12/28/19

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N#(or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
PAH SIM SS Stock	Phenova	AL0-130490	200 ug/mL	12/28/18	12/28/19	5 uL	200uL	MC 56258 195uL	5 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	4 uL	*	*	2.5ug/mL

Name of Final Standard PAH SIM Stock (Ampule)
 Prep Date 12/28/18
 Exp Date 12/28/19

Prep'd By (I) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA #	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot#	Final Standard Conc (range)
				(or reference to APPL prep date)				(or APPL Prep Date)	
Custom PAH SIM Mix	Phenova	AL0-130490	200 ug/mL	CL13117-40078	12/28/19	1000 uL	1mL	NA	200ug/mL

Name of Final Standard PAH SIM 2nd Source Stock (Ampule)
 Prep Date 12/28/18
 Exp Date 12/28/19

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA #	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot#	Final Standard Conc (range)
				(or reference to APPL prep date)				(or APPL Prep Date)	
Custom PAH SIM Mix	Phenova	AL0-130490	200 ug/mL	CL13121 - 40082	12/28/19	1 mL	na	na	200 ug/mL

Name of Final Standard **SIM 2S Surrogate**
 Prep Date **05/17/19**
 Exp Date **01/24/20**

Prep'd By (Initials) **GA**

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc. (range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
SIM Surrogate Mix	Restek	33913	2000 ug/mL	A0137718 - 39318	01/24/20	250 uL	5 mL	Acetone #030817A	100 ug/mL
8270 B/N surrog mix	Restek	31086	5000 ug/mL	A0141697 - 40112	04/10/20	100 uL			

Name of Final Standard 8270 SIM PAH Internal Standard

Prep'd By (Initials) GA

Prep Date 07/10/19

Exp Date 07/10/20

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc. (range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
SV Internal Standard	Restek	31206	2000 ug/mL	A0144261-40464	07/10/19	350 uL	5,600 uL	MC 56258 5,250 uL	125 ug/mL

Name of Final Standard **Semivolatile (SV) Tuning Solution**
 Prep Date **07/11/19**
 Exp Date **09/30/19**

Prep'd By (Initials) **JP**

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Semivolatile GC/MS Tuning Standard	Ultra Scientific	GCM-150-1	1,000 ug/mL	CR3789-38879	09/30/19	1,250 uL	25 mL	MC #58240	50 ug/mL

Name of Final Standard SIM Spike
 Prep Date 06/24/19
 Exp Date 06/24/20

Prep'd By (Initials) JP

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Custom PAH Sim Mix	Phenova	AL0-130490	200 ug/mL	CL13117 - 40080	12/31/22	1 mL	5 mL	Methanol	40 ug/mL

Name of Final Standard **SIM Surrogate**
 Prep Date **07/01/19**
 Exp Date **01/24/20**

Prep'd By (Initials) **GA**

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc. (range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (of APPL Prep Date)	Final Standard Conc (range)
Sim Surrogate Deuterated	Restek	33913	2000 ug/mL	A0137718-39318 A0145699-40667	01/24/20 07/01/20	1250 uL	25 mL	Acetone #1017171	100 ug/mL

Organic Extraction Worksheet

















Method	Continuous Liquid/Liquid SVOC 3520C	Extraction Set	190725A	Extraction Method	LIQ003	Units	mL
Spiked ID 1	8270T Spike 6/19/19-12/19/19	Surrogate ID 1	8270 Surrogate 6/24/19-4/10/20				
Spiked ID 2	Sim Spike 7/8/19-7/8/20	Surrogate ID 2	SIM Surrogate 7/1/19-1/24/20				
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:		yes			
Spiked ID 7		Ext. Start Time:		07/25/19 12:30			
Spiked ID 8		Ext. End Time:		07/29/19 10:50			
		GC Requires Extract By:		07/30/19 0:00			
pH1	2	07/25/19 15:00		Water Bath Temp 1 °C		75/74.2 EWBS °	
pH2	14	07/26/19 9:25		Water Bath Temp 2 °C		75/74.9 EWB6	
pH3				Water Bath Temp 3 °C			

Spiked By: DL

Date 07/25/19

Witnessed By: CFM

Date 07/25/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	190725A Bk			1,0.050	1,2	800	1	2/1	07/25/19 12:30	
					equip	e-hp51 e-wb5				
2	190725A LCS-1	1	1	1	1	800	1	2/1	07/25/19 12:30	
					equip	E-HP50 E-WB5				
3	190725A LCS-2	0.125	2	0.050	2	800	1	2/1	07/25/19 12:30	
					equip	E-HP48 E-WB5				
4	190725A LCS-D-1	1	1	1	1	800	1	2/1	07/25/19 12:30	
					equip	E-HP49 E-WB5				
5	190725A LCS-D-2	0.125	2	0.050	2	800	1	2/1	07/25/19 12:30	
					equip	E-HP47 E-WB5				
6	AZ95187 AZ95187W14			1,0.050	1,2	800	1	2/1	07/25/19 12:30	89570
					equip	E-HP25 E-WB5				
7	AZ95189 MS-1 AZ95189W24	1	1	1	1	800	1	2/1	07/25/19 12:30	
					equip	E-HP26 E-WB5				
8	AZ95189 MSD-1 AZ95189W31	1	1	1	1	800	1	2/1	07/25/19 12:30	
					equip	E-HP27 E-WB6				
9	AZ95189 MS-2 AZ95189W27	0.125	2	0.050	2	800	1	2/1	07/25/19 12:30	
					equip	E-HP28 E-WB6				
10	AZ95189 MSD-2 AZ95189W30	0.125	2	0.050	2	800	1	2/1	07/25/19 12:30	
					equip	E-HP29 E-WB6				
11	AZ95189 AZ95189W26			1,0.050	1,2	800	1	2/1	07/25/19 12:30	89570
					equip	E-HP30 E-WB5				
12	AZ95190 AZ95190W07			1,0.050	1,2	800	1	2/1	07/25/19 12:30	89570
					equip	E-HP17 E-WB6				
13	AZ95329 AZ95329W16			1,0.050	1,2	800	1	2/1	07/25/19 14:35	89593
					equip	E-HP16 E-WB6				
14	AZ95330 AZ95330W16			1,0.050	1,2	800	1	2/1	07/25/19 14:35	89593
					equip	E-HP15 E-WB6				
15	AZ95332 AZ95332W16			1,0.050	1,2	800	1	2/1	07/25/19 14:35	89593
					equip	E-HP14 E-WB6				
16	AZ95334 AZ95334W16			1,0.050	1,2	800	1	2/1	07/25/19 14:35	89593
					equip	E-HP13 E-WB6				

Solvent and Lot#	
PH Strips	HC863463
Dichloromethane (DCM)	58240
1+1 H2SO4	7/2/19
10N NaOH	7/16/19
Filter Paper	400163
Acidified Na2SO4	2/28/19
B. Na2SO4	2019010772

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	
Date	
Time	
Refrigerator	

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	07/29/19 5:43:13 PM

Reviewed By: _____ Date _____

Organic Extraction Worksheet

Method	Continuous Liquid/Liquid SVOC 3520C	Extraction Set	190725A	Extraction Method	LIQ003	Units	mL
Spiked ID 1	8270T Spike 6/19/19-12/19/19	Surrogate ID 1	8270 Surrogate 6/24/19-4/10/20				
Spiked ID 2	Sim Spike 7/8/19-7/8/20	Surrogate ID 2	SIM Surrogate 7/1/19-1/24/20				
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:		yes			
Spiked ID 7		Ext. Start Time:		07/25/19 12:30			
Spiked ID 8		Ext. End Time:		07/29/19 10:50			
				GC Requires Extract By:		07/30/19 0:00	
pH1		2	07/25/19 15:00	Water Bath Temp 1 °C		75/74.2 EWBS °	
pH2		14	07/26/19 9:25	Water Bath Temp 2 °C		75/74.9 EWB6	
pH3				Water Bath Temp 3 °C			

Spiked By: DL

Date 07/25/19

Witnessed By: CFM

Date 07/25/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
17 AZ95336	AZ95336W16			1,0.050	1,2	800	1	2/1	07/25/19 14:35	89593
						equip		E-HP12 E-WB6		
18 AZ95338	AZ95338W16			1,0.050	1,2	800	1	2/1	07/25/19 14:35	89593
						equip		E-HP11 e-wb6		

Solvent and Lot#	
PH Strips	HC863463
Dichloromethane (DCM)	58240
1+1 H2SO4	7/2/19
10N NaOH	7/16/19
Filter Paper	400163
Acidified Na2SO4	2/28/19
B. Na2SO4	2019010772

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	
Date	
Time	
Refrigerator	

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL

Modified 07/29/19 5:43:13 PM

Reviewed By:

Date

Injection Log

Directory: M:\YODA\DATA\Y190717P\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
2	0717Y002.D	1	SV TUNE 07/11/19		17 Jul 19 9:34
3	0717Y003.D	1	0.1 SIM 07/10/19		17 Jul 19 9:51
4	0717Y004.D	1	0.2 SIM 07/10/19		17 Jul 19 10:14
5	0717Y005.D	1	0.5 SIM 07/10/19		17 Jul 19 10:38
6	0717Y006.D	1	1.0 SIM 07/10/19		17 Jul 19 11:01
7	0717Y007.D	1	5.0 SIM 07/10/19		17 Jul 19 11:25
8	0717Y008.D	1	10 SIM 07/10/19		17 Jul 19 11:48
9	0717Y009.D	1	50 SIM 07/10/19		17 Jul 19 12:11
10	0717Y010.D	1	100 SIM 07/10/19		17 Jul 19 12:35
12	0717Y012.D	1	SS SIM 07/10/19		17 Jul 19 13:32
71	0717Y271.D	1	SV TUNE 7/11/19		30 Jul 19 9:50
72	0717Y272.D	1	5.0 SIM 07/10/19		30 Jul 19 10:06
73	0717Y273.D	1.25	190725A BLK 1/800		30 Jul 19 10:34
80	0717Y280.D	1.25	190725A LCS-2 1/800		30 Jul 19 13:27
81	0717Y281.D	1.25	190725A LCSD-2 1/800		30 Jul 19 13:50
85	0717Y285.D	1.25	AZ95330W16 1/800		30 Jul 19 15:26
86	0717Y286.D	1.25	AZ95332W16 1/800		30 Jul 19 15:50
87	0717Y287.D	1.25	AZ95334W16 1/800		30 Jul 19 16:13
88	0717Y288.D	1.25	AZ95336W16 1/800		30 Jul 19 16:36
89	0717Y289.D	1.25	AZ95338W16 1/800		30 Jul 19 17:15
3	0717Y303.D	1	5.0 SIM 07/10/19 (2)		30 Jul 19 22:42
4	0717Y304.D	1	SV TUNE 07/11/19		31 Jul 19 14:35
5	0717Y305.D	1	5.0 SIM 07/10/19 (2)		31 Jul 19 14:49
6	0717Y306.D	1.25	AZ95329W16 1/800		31 Jul 19 15:12
35	0717Y335.D	1	5.0 SIM 07/10/19 (1)		1 Aug 19 2:57

**ORGANICS
Calibration Data**

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/22/19
Instrument: Yoda

Initials: *HAS*

0722Y003.D 0722Y004.D 0722Y005.D 0722Y006.D 0722Y007.D 0722Y008.D 0722Y009.D 0722Y010.D 0722Y011.D

	Compound	4	5	10	20	40	50	60	80	100	Avg	%RSD	Type	r ²	Q	MRF
1	I 1,4-dichlorobenzene-D4(ISTD)	ISTD														
2	1,4-Dioxane			0.1117	0.0733	0.1044	0.1141	0.1057	0.1012	0.1075	0.10	13				
3	TM n-Nitrosodimethylamine		0.1792	0.1777	0.1909	0.1763	0.1691	0.1844	0.1919	0.1881	0.18	4.4	TM			
4	TM Pyridine		0.4437	0.4356	0.4386	0.4508	0.4462	0.4332	0.4774	0.4673	0.45	3.5	TM			
5	S 2-Fluorophenol (S)		1.545	1.449	1.381	1.287	1.285	1.228	1.222	1.211	1.3	9.2	S			
6	S Phenol-D6 (S)			1.688	1.581	1.377	1.374	1.289	1.254	1.192	1.4	13	S			
7	*TM Phenol		2.029	2.025	1.986	1.801	1.860	1.745	1.641	1.587	1.8	9.3	*TM			0.800
8	TM Aniline		1.857	1.948	1.960	1.766	1.792	1.708	1.687	1.617	1.8	6.9	TM			
9	TM Bis (2-chloroethyl) ether		0.8531	0.8548	0.8180	0.7543	0.7703	0.7486	0.7443	0.7269	0.78	6.5	TM			0.700
10	TM 2-Chlorophenol		1.591	1.583	1.530	1.423	1.481	1.403	1.399	1.396	1.5	5.6	TM			0.800
11	TM 1,3-DCB		1.861	1.796	1.731	1.610	1.641	1.572	1.573	1.529	1.7	7.2	TM			
12	*TM 1,4-DCB		1.843	1.810	1.741	1.603	1.658	1.589	1.577	1.529	1.7	7.0	*TM			
13	TM Benzyl alcohol		0.7967	0.8471	0.8688	0.7975	0.8325	0.7952	0.7953	0.7892	0.82	3.7	TM			
14	TM 1,2-DCB		1.720	1.667	1.633	1.494	1.526	1.452	1.439	1.398	1.5	7.7	TM			
15	TM 2-Methylphenol		1.256	1.256	1.256	1.115	1.160	1.111	1.116	1.092	1.2	6.3	TM			0.700
16	TM Bis (2-chloroisopropyl) ether		1.450	1.400	1.340	1.167	1.194	1.120	1.099	1.063	1.2	12	TM			0.010
17	TM Acetophenone		1.923	1.892	1.853	1.634	1.713	1.625	1.628	1.606	1.7	7.7	TM			0.010
18	TM 3&4-Methylphenol		1.552	1.554	1.496	1.338	1.374	1.300	1.272	1.217	1.4	9.4	TM			0.600
19	**TM n-Nitrosodi-n-propylamine		0.9462	0.9388	0.9069	0.8052	0.8411	0.7903	0.7893	0.6296	0.83	12	**TM			0.500
20	TM Hexachloroethane		0.6170	0.6129	0.5902	0.5378	0.5506	0.5254	0.5277	0.5095	0.56	7.5	TM			0.300
21	I Naphthalene-D8(ISTD)	ISTD														
22	S Nitrobenzene-D5(S)		0.3911	0.3510	0.3260	0.2965	0.2904	0.2783	0.2766	0.2781	0.31	13	S			
23	TM Nitrobenzene		0.3523	0.3451	0.3442	0.3164	0.3204	0.3115	0.3095	0.3115	0.33	5.4	TM			0.200
24	TM Isophorone		0.6032	0.6029	0.6050	0.5526	0.5679	0.5505	0.5585	0.5695	0.58	4.1	TM			0.400
25	*TM 2-Nitrophenol		0.1594	0.2171	0.2205	0.2133	0.2149	0.2123	0.2131	0.2166	0.21	9.6	*TM			0.100
26	TM 2,4-Dimethylphenol		0.3459	0.3390	0.3385	0.3122	0.3200	0.3079	0.3104	0.3097	0.32	4.8	TM			0.200
27	TM Benzoic acid			0.1686	0.2090	0.2224	0.2319	0.1934	0.1988	0.2172	0.21	10	TM			
28	TM Bis (2-chloroethoxy) methane		0.4264	0.4100	0.3970	0.3600	0.3689	0.3557	0.3558	0.3543	0.38	7.5	TM			0.300
29	*TM 2,4-Dichlorophenol		0.3208	0.3238	0.3220	0.2985	0.3080	0.2969	0.2965	0.2974	0.31	4.0	*TM			0.200
30	TM 1,2,4-Trichlorobenzene		0.3799	0.3701	0.3533	0.3275	0.3326	0.3229	0.3239	0.3180	0.34	6.9	TM			
31	TM 3,4-Dimethylphenol		0.4603	0.4450	0.4367	0.3969	0.4048	0.3934	0.3914	0.3826	0.41	7.0	TM			
32	TM Naphthalene		1.190	1.156	1.087	1.013	0.9975	0.9716	0.9598	0.9343	1.0	9.1	TM			0.700
33	TM 4-Chloroaniline		0.4453	0.4502	0.4333	0.3881	0.3827	0.3627	0.3369	0.3020	0.39	14	TM			0.010
34	TM 2,6-Dichlorophenol		0.3433	0.3277	0.3115	0.2826	0.2818	0.2683	0.2617	0.2529	0.29	11	TM			
35	TM Hexachloropropene		0.1899	0.2022	0.2012	0.1924	0.1928	0.1872	0.1864	0.1828	0.19	3.6	TM			

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/22/19
Instrument: Yoda

Initials: _____

		Compound	4	5	10	20	40	50	60	80	100		Avg	%RSD	Type	Q	
36	*TM	Hexachlorobutadiene		0.2044	0.2009	0.1926	0.1808	0.1836	0.1789	0.1792	0.1777		0.19	5.7	*TM		0.010
37	TM	Caprolactum		0.1132	0.1221	0.1281	0.1184	0.1189	0.1166	0.1199	0.1215		0.12	3.7	TM		0.010
38	*TM	4-Chloro-3-methylphenol		0.3039	0.3098	0.3100	0.2924	0.2970	0.2876	0.2936	0.2962		0.30	2.8	*TM		0.200
39	TM	2-Methylnaphthalene		0.7811	0.7561	0.7283	0.6800	0.6831	0.6618	0.6472	0.6396		0.70	7.5	TM		0.400
40	TM	1-Methylnaphthalene		0.8477	0.7838	0.7554	0.6877	0.7001	0.6704	0.6622	0.6513		0.72	9.6	TM		
41	I	Acenaphthene-D10(IS)	ISTD														
42	**TMQ	Hexachlorocyclopentadiene			0.0415	0.0835	0.1056	0.1236	0.1545	0.1866			0.12	44	**TMQ	1.000	0.050
43	TM	1,2,4,5-Tetrachlorobenzene		0.6963	0.6776	0.6474	0.6007	0.6034	0.5827	0.5883	0.5789		0.62	7.3	TM		0.010
44	*TM	2,4,6-Trichlorophenol		0.3871	0.4006	0.4066	0.3772	0.3826	0.3746	0.3848	0.3829		0.39	2.9	*TM		0.200
45	TM	2,4,5-Trichlorophenol		0.4292	0.4290	0.4256	0.3920	0.4071	0.3971	0.4040	0.4020		0.41	3.6	TM		0.200
46	S	2-Fluorobiphenyl(S)			1.780	1.584	1.391	1.369	1.281	1.243	1.183		1.4	15	S		
47	TM	1,1'-Biphenyl		1.963	1.876	1.791	1.628	1.638	1.555	1.531	1.464		1.7	11	TM		0.010
48	TM	2-Chloronaphthalene		1.482	1.423	1.377	1.263	1.251	1.196	1.199	1.164		1.3	9.1	TM		0.800
49	TM	2-Nitroaniline		0.2993	0.3233	0.3335	0.3088	0.3086	0.3001	0.3038	0.2996		0.31	4.0	TM		0.010
50	TM	Dimethyl phthalate		1.667	1.602	1.601	1.459	1.470	1.414	1.437	1.412		1.5	6.6	TM		0.010
51	TM	2,6-DNT		0.3446	0.3646	0.3779	0.3571	0.3623	0.3569	0.3598	0.3591		0.36	2.6	TM		0.200
52	TM	Acenaphthylene		2.250	2.211	2.159	1.961	1.972	1.912	1.887	1.817		2.0	8.1	TM		0.900
53	TM	3-Nitroaniline		0.3625	0.3940	0.3981	0.3762	0.3834	0.3627	0.3633	0.3544		0.37	4.3	TM		0.010
54	*TM	Acenaphthene		1.507	1.450	1.373	1.222	1.226	1.170	1.167	1.122		1.3	11	*TM		0.900
55	**TML	2,4-Dinitrophenol				0.1216	0.1551	0.1762	0.1733	0.1980	0.2185		0.17	19	**TML	0.990	0.010
56	**TM	4-Nitrophenol		0.1459	0.1535	0.1696	0.1589	0.1635	0.1580	0.1605	0.1665		0.16	4.7	**TM		0.010
57	TM	Dibenzofuran		2.128	2.069	1.993	1.799	1.805	1.739	1.729	1.655		1.9	9.4	TM		0.800
58	TM	2,4-DNT		0.4401	0.4913	0.5120	0.4779	0.4894	0.4712	0.4795	0.4838		0.48	4.2	TM		0.200
59	TM	2,3,4,6-Tetrachlorophenol		0.2975	0.3126	0.3236	0.3138	0.3236	0.3175	0.3295	0.3340		0.32	3.6	TM		0.010
60	TM	Diethyl phthalate		1.582	1.527	1.514	1.367	1.394	1.326	1.325	1.321		1.4	7.4	TM		0.010
61	TM	4-Chlorophenyl phenyl ether		0.8866	0.8482	0.8236	0.7254	0.7198	0.6821	0.6697	0.6418		0.75	12	TM		0.400
62	TM	Fluorene		1.738	1.642	1.593	1.408	1.392	1.306	1.283	1.218		1.4	13	TM		0.900
63	TM	4-Nitroaniline		0.3674	0.3624	0.3782	0.3510	0.3562	0.3494	0.3548	0.3570		0.36	2.7	TM		0.010
64	S	2,4,6-Tribromophenol(S)		0.2451	0.2352	0.2225	0.2063	0.2082	0.2001	0.2018	0.2055		0.22	7.8	S		
65	I	Phenanthrene-D10(IS)	ISTD														
66	TM	4,6-Dinitro-2-methylphenol			0.1252	0.1430	0.1461	0.1526	0.1502	0.1560	0.1552		0.15	7.2	TM		0.010
67	TM	Diphenyl amine		0.6963	0.6489	0.6290	0.5602	0.5521	0.5299	0.5066	0.4761		0.57	13	TM		
68	*TM	n-Nitrosodiphenylamine		0.6963	0.6489	0.6290	0.5602	0.5521	0.5299	0.5066	0.4761		0.57	13	*TM		0.010
69	TM	1,2-Diphenylhydrazine		0.7045	0.6798	0.6478	0.5894	0.6813	0.6666	0.6315	0.5978		0.65	6.3	TM		
70	TM	4-Bromophenyl phenyl ether		0.2471	0.2401	0.2417	0.2209	0.2273	0.2243	0.2190	0.2176		0.23	5.0	TM		0.100

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/22/19
Instrument: Yoda

Initials: _____

		Compound	4	5	10	20	40	50	60	80	100	Avg	%RSD	Type	Q
71	TM	Hexachlorobenzene		0.2601	0.2501	0.2477	0.2314	0.2350	0.2290	0.2305	0.2256	0.24	5.2	TM	0.100
72	TM	Atrazine		0.2183	0.2222	0.2204	0.2084	0.2133	0.2099	0.2105	0.2065	0.21	2.8	TM	0.010
73	*TM	Pentachlorophenol			0.0643	0.0711	0.0739	0.0791	0.0787	0.0836	0.0900	0.08	11	*TM	0.050
74	TM	Phenanthrene		1.292	1.238	1.181	1.069	1.075	1.019	0.9956	0.9499	1.1	11	TM	0.700
75	TM	Anthracene		1.279	1.263	1.215	1.119	1.118	1.063	1.029	0.9736	1.1	9.8	TM	0.700
76	TM	Carbazol		1.183	1.154	1.141	1.022	1.039	0.9935	0.9669	0.9191	1.1	9.2	TM	0.010
77	TM	Di-n-butylphthalate		1.213	1.269	1.310	1.188	1.170	1.144	1.112	1.038	1.2	7.3	TM	0.010
78	*TM	Fluoranthene		1.342	1.332	1.316	1.185	1.187	1.152	1.104	1.041	1.2	9.3	*TM	0.600
79	I	Chrysene-D12(1S)	ISTD												
80	TM	Benzidine				0.3272	0.3380	0.3635	0.3680	0.3721	0.3823	0.36	5.9	TM	
81	TM	Pyrene		1.517	1.492	1.463	1.393	1.427	1.354	1.356	1.307	1.4	5.2	TM	0.600
82	S	Terphenyl-D14(S)		1.244	1.126	1.030	0.9560	0.9641	0.9093	0.9101	0.8867	1.0	12	S	
83	TM	Butyl benzylphthalate		0.5300	0.5827	0.6059	0.6021	0.6253	0.5920	0.5952	0.5859	0.59	4.7	TM	0.010
84	TM	3,3'-Dichlorobenzidine		0.3756	0.4091	0.4270	0.4114	0.4230	0.4059	0.4089	0.4054	0.41	3.8	TM	0.010
85	TM	Benz (a) anthracene		1.462	1.427	1.359	1.268	1.289	1.234	1.216	1.166	1.3	8.0	TM	0.800
86	TM	Bis (2-ethylhexyl) phtalate		0.7564	0.7956	0.7867	0.7432	0.7559	0.7037	0.6708	0.6236	0.73	8.1	TM	0.010
87	TM	Chrysene		1.407	1.349	1.348	1.259	1.289	1.200	1.226	1.202	1.3	6.0	TM	0.700
88	*TM	Di-n-octylphthalate		1.103	1.303	1.389	1.406	1.443	1.395	1.377	1.347	1.3	7.9	*TM	0.010
89	I	Perylene-D12(1S)	ISTD												
90	TM	Benzo (b) fluoranthene		1.138	1.316	1.267	1.154	1.199	1.149	1.248	1.218	1.2	5.2	TM	0.700
91	TM	Benzo (k) fluoranthene		1.384	1.247	1.275	1.252	1.243	1.150	1.055	0.9963	1.2	11	TM	0.700
92	*TM	Benzo (a) pyrene	1.051	1.193	1.207	1.185	1.138	1.155	1.100	1.107	1.076	1.1	4.8	*TM	0.700
93	TM	Indeno (1,2,3-cd) pyrene		1.274	1.337	1.343	1.305	1.339	1.273	1.285	1.250	1.3	2.7	TM	0.500
94	TM	Dibenz (a,h) anthracene	0.9710	1.128	1.172	1.178	1.141	1.171	1.114	1.112	1.082	1.1	5.7	TM	0.400
95	TM	Benzo (g,h,i) perylene		0.9912	1.036	1.049	1.026	1.059	1.005	1.025	1.018	1.0	2.2	TM	0.500
96															
97															
98															
99															
100															
101															
102															
103															
104															
105															

Data File : M:\YODA\DATA\Y190722\0722Y003.D
 Acq On : 22 Jul 19 14:01
 Sample : 4ug/ml 8270 07/12/19
 Misc :

Vial: 3
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 14:24 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 16 08:54:23 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	440945	40.00000	ppb	-0.12
21) Napthalene-D8 (IS)	6.47	136	1828972	40.00000	ppb	-0.12
41) Acenaphthene-D10 (IS)	8.51	164	955144	40.00000	ppb	-0.12
65) Phenanthrene-D10 (IS)	10.26	188	1851498	40.00000	ppb	-0.13
79) Chrysene-D12 (IS)	13.38	240	1736228	40.00000	ppb	-0.13
89) Perylene-D12 (IS)	15.12	264	1784940	40.00000	ppb	-0.18
System Monitoring Compounds						
5) 2-Fluorophenol (S)	0.00	112	0d	0.00000	ppb	
Spiked Amount 200.000			Recovery =	0.000%		
6) Phenol-D6 (S)	0.00	99	0d	0.00000	ppb	
Spiked Amount 200.000			Recovery =	0.000%		
22) Nitrobenzene-D5 (S)	0.00	82	0d	0.00000	ppb	
Spiked Amount 100.000			Recovery =	0.000%		
46) 2-Fluorobiphenyl (S)	0.00	172	0d	0.00000	ppb	
Spiked Amount 100.000			Recovery =	0.000%		
64) 2,4,6-Tribromophenol (S)	0.00	330	0d	0.00000	ppb	
Spiked Amount 200.000			Recovery =	0.000%		
82) Terphenyl-D14 (S)	0.00	244	0d	0.00000	ppb	
Spiked Amount 100.000			Recovery =	0.000%		
Target Compounds						
92) Benzo (a) pyrene	15.07	252	187613	3.83990	ppb	99
94) Dibenz (a,h) anthracene	16.91	278	173311	3.60349	ppb	98

Quantitation Report

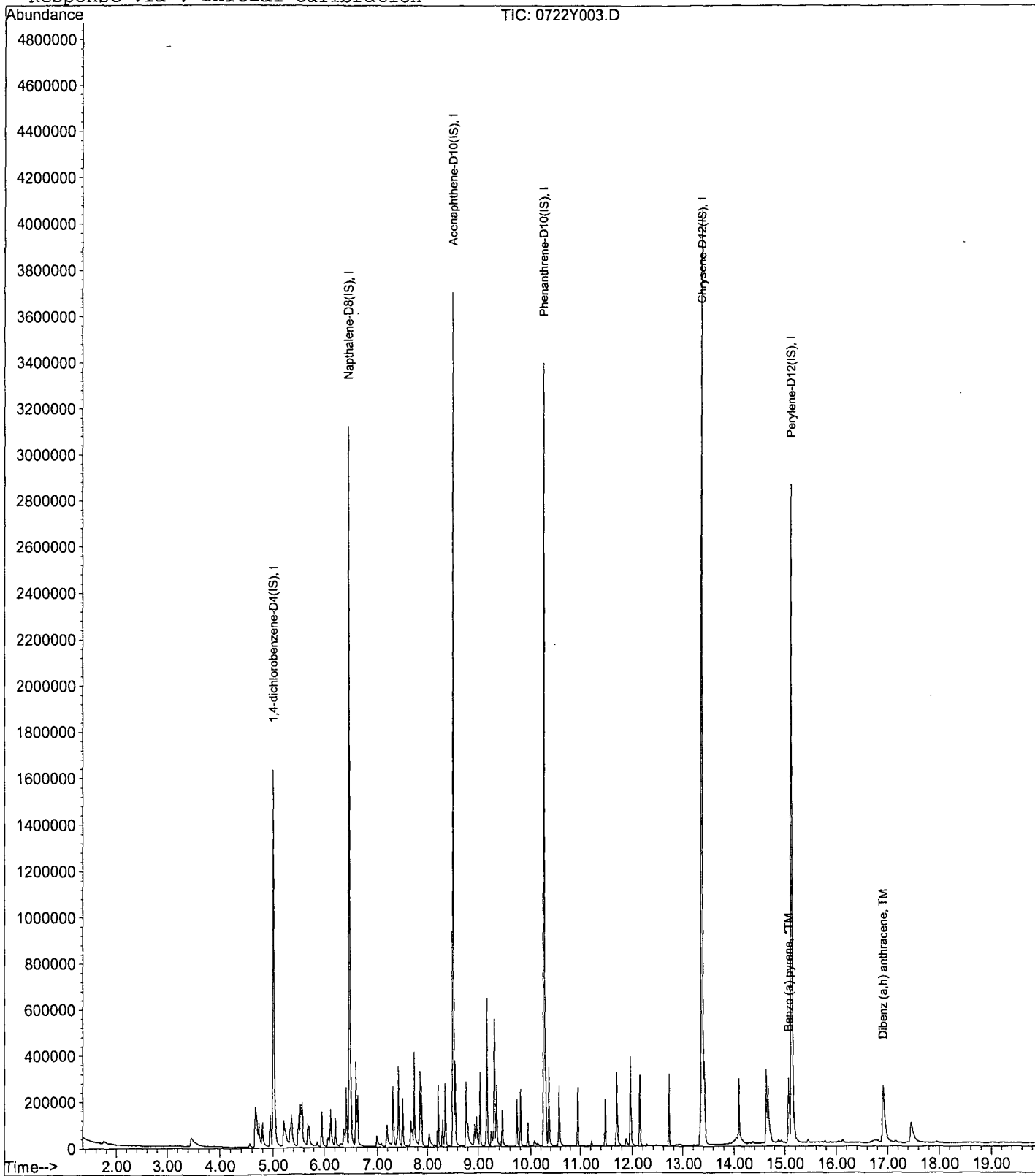
Data File : M:\YODA\DATA\Y190722\0722Y003.D
Acq On : 22 Jul 19 14:01
Sample : 4ug/ml 8270 07/12/19
Misc :

Vial: 3
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 22 14:24 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y004.D
 Acq On : 22 Jul 19 14:29
 Sample : 5ug/ml 8270 07/12/19
 Misc :

Vial: 4
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 15:40 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 15:40:36 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	439617	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.47	136	1780662	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.51	164	941418	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1820185	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.38	240	1721437	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.13	264	1799909	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.42	112	169794	11.84169	ppb	0.00
Spiked Amount 200.000			Recovery =	5.921%		
6) Phenol-D6 (S)	4.64	99	200650	11.10931	ppb	0.00
Spiked Amount 200.000			Recovery =	5.555%		
22) Nitrobenzene-D5 (S)	5.68	82	87053	5.49120	ppb	0.00
Spiked Amount 100.000			Recovery =	5.491%		
46) 2-Fluorobiphenyl (S)	7.73	172	238253	7.14110	ppb	0.00
Spiked Amount 100.000			Recovery =	7.141%		
64) 2,4,6-Tribromophenol (S)	9.46	330	57680	12.14484	ppb	0.01
Spiked Amount 200.000			Recovery =	6.073%		
82) Terphenyl-D14 (S)	12.14	244	267606	6.78454	ppb	0.00
Spiked Amount 100.000			Recovery =	6.785%		

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.48	58	310	0.16684		# 1
3) n-Nitrosodimethylamine	1.72	42	9847	3.42861	ppb	87
4) Pyridine	1.74	79	24380	3.41809	ppb	96
7) Phenol	4.66	94	111511	5.21256	ppb	79
8) Aniline	4.66	93	102039	4.87983	ppb	91
9) Bis (2-chloroethyl) ether	4.72	63	46879	5.12894	ppb	90
10) 2-Chlorophenol	4.79	128	87456	5.67964	ppb	93
11) 1,3-DCB	4.95	146	102246	5.82611	ppb	96
12) 1,4-DCB	5.03	146	101294	5.61331	ppb	97
13) Benzyl alcohol	5.22	108	43783	4.84804	ppb	99
14) 1,2-DCB	5.21	146	94512	5.60069	ppb	99
15) 2-Methylphenol	5.35	107	69015	5.29979	ppb	95
16) Bis (2-chloroisopropyl) et	5.34	45	79683	5.82786	ppb	# 64
17) Acetophenone	5.50	105	105669	5.22907	ppb	100
18) 3&4-Methylphenol	5.53	107	170611	10.56461	ppb	100
19) n-Nitrosodi-n-propylamine	5.49	70	51994	4.66721	ppb	97
20) Hexachloroethane	5.57	117	33903	5.24195	ppb	95
23) Nitrobenzene	5.70	77	78416	5.00549	ppb	98
24) Isophorone	5.96	82	134253	5.00246	ppb	98
25) 2-Nitrophenol	6.07	139	35469	4.19062	ppb	98
26) 2,4-Dimethylphenol	6.12	122	76999	5.65093	ppb	97
27) Benzoic acid	6.30	105	26733	3.03214	ppb	95
28) Bis (2-chloroethoxy) metha	6.21	93	94906	5.55245	ppb	100
29) 2,4-Dichlorophenol	6.37	162	71396	5.53564	ppb	98
30) 1,2,4-Trichlorobenzene	6.41	180	84562	5.92490	ppb	96
31) 3,4-Dimethylphenol	6.47	107	102460	5.45069	ppb	97
32) Naphthalene	6.50	128	264804	5.86348	ppb	100
33) 4-Chloroaniline	6.59	127	99119	5.66495	ppb	97
34) 2,6-Dichlorophenol	6.59	162	76420	5.68116	ppb	99
35) Hexachloropropene	6.59	213	42263	4.65469	ppb	97
36) Hexachlorobutadiene	6.63	225	45485	5.49442	ppb	97
37) Caprolactum	6.99	55	25199	4.80618	ppb	94

Data File : M:\YODA\DATA\Y190722\0722Y004.D
 Acq On : 22 Jul 19 14:29
 Sample : 5ug/ml 8270 07/12/19
 Misc :

Vial: 4
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 15:40 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 15:40:36 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.18	107	67633	5.35837	ppb	94
39) 2-Methylnaphthalene	7.30	142	173851	5.87295	ppb	99
40) 1-Methylnaphthalene	7.42	142	188687	6.09252	ppb	100
42) Hexachlorocyclopentadiene	7.47	237	179	-40.00000	ppb #	91
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	81939	6.09018	ppb	99
44) 2,4,6-Trichlorophenol	7.66	196	45549	5.25409	ppb	97
45) 2,4,5-Trichlorophenol	7.73	196	50509	5.72438	ppb	91
47) 1,1'-Biphenyl	7.85	154	231037	6.45109	ppb	96
48) 2-Chloronaphthalene	7.88	162	174431	6.21041	ppb	96
49) 2-Nitroaniline	8.03	65	35223	4.92091	ppb	84
50) Dimethyl phthalate	8.21	163	196175	6.14970	ppb	98
51) 2,6-DNT	8.31	165	40552	5.63342	ppb	91
52) Acenaphthylene	8.35	152	264745	6.04675	ppb	99
53) 3-Nitroaniline	8.52	138	42661	5.39381	ppb #	80
54) Acenaphthene	8.56	154	177362	6.41463	ppb	98
55) 2,4-Dinitrophenol	8.73	184	2169	1.78318	ppb	94
56) 4-Nitrophenol	8.82	65	17168	4.26606	ppb	93
57) Dibenzofuran	8.76	168	250418	6.25571	ppb	95
58) 2,4-DNT	8.80	165	51795	5.27126	ppb	95
59) 2,3,4,6-Tetrachlorophenol	8.93	232	35006	5.20295	ppb	95
60) Diethyl phthalate	9.03	149	186121	5.95827	ppb	100
61) 4-Chlorophenyl phenyl ethe	9.16	204	104332	6.32042	ppb	97
62) Fluorene	9.16	166	204503	6.09528	ppb	98
63) 4-Nitroaniline	9.24	138	43238	5.89579	ppb	92
66) 4,6-Dinitro-2-methylphenol	9.28	198	21188	9.08540	ppb #	86
67) Diphenyl amine	9.31	169	316857	11.10923	ppb	99
68) n-Nitrosodiphenylamine	9.31	169	316857	11.10923	ppb	99
69) 1,2-Diphenylhydrazine	9.35	77	160282	4.59370	ppb	98
70) 4-Bromophenyl phenyl ether	9.74	248	56214	5.22755	ppb	95
71) Hexachlorobenzene	9.80	284	59188	5.29075	ppb	97
72) Atrazine	9.94	200	24834	2.62700	ppb	95
73) Pentachlorophenol	10.07	266	11979	3.21451	ppb	99
74) Phenanthrene	10.29	178	293847	5.67124	ppb	99
75) Anthracene	10.36	178	290906	5.41986	ppb	100
76) Carbazol	10.56	167	269170	5.50616	ppb	97
77) Di-n-butylphthalate	10.95	149	275967	4.85930	ppb	99
78) Fluoranthene	11.70	202	305247	5.51943	ppb	97
80) Benzidine	11.88	184	52041	4.77705	ppb	97
81) Pyrene	11.96	202	326488	6.41288	ppb	100
83) Butyl benzylphthalate	12.71	149	114042	5.13532	ppb	89
84) 3,3'-Dichlorobenzidine	13.35	252	80832	5.43176	ppb	97
85) Benz (a) anthracene	13.37	228	314487	5.62193	ppb	100
86) Bis (2-ethylhexyl) phthala	13.38	149	162758	5.02768	ppb	95
87) Chrysene	13.41	228	302719	6.14953	ppb	100
88) Di-n-octylphthalate	14.10	149	237395	4.66053	ppb	96
90) Benzo (b) fluoranthene	14.63	252	256076	4.75488	ppb	98
91) Benzo (k) fluoranthene	14.67	252	311351	5.89326	ppb	100
92) Benzo (a) pyrene	15.07	252	268510	5.44993	ppb	97
93) Indeno (1,2,3-cd) pyrene	16.90	276	286549	5.08249	ppb	97
94) Dibenz (a,h) anthracene	16.91	278	253893	5.23506	ppb	99
95) Benzo (g,h,i) perylene	17.45	276	222998	5.16993	ppb	95

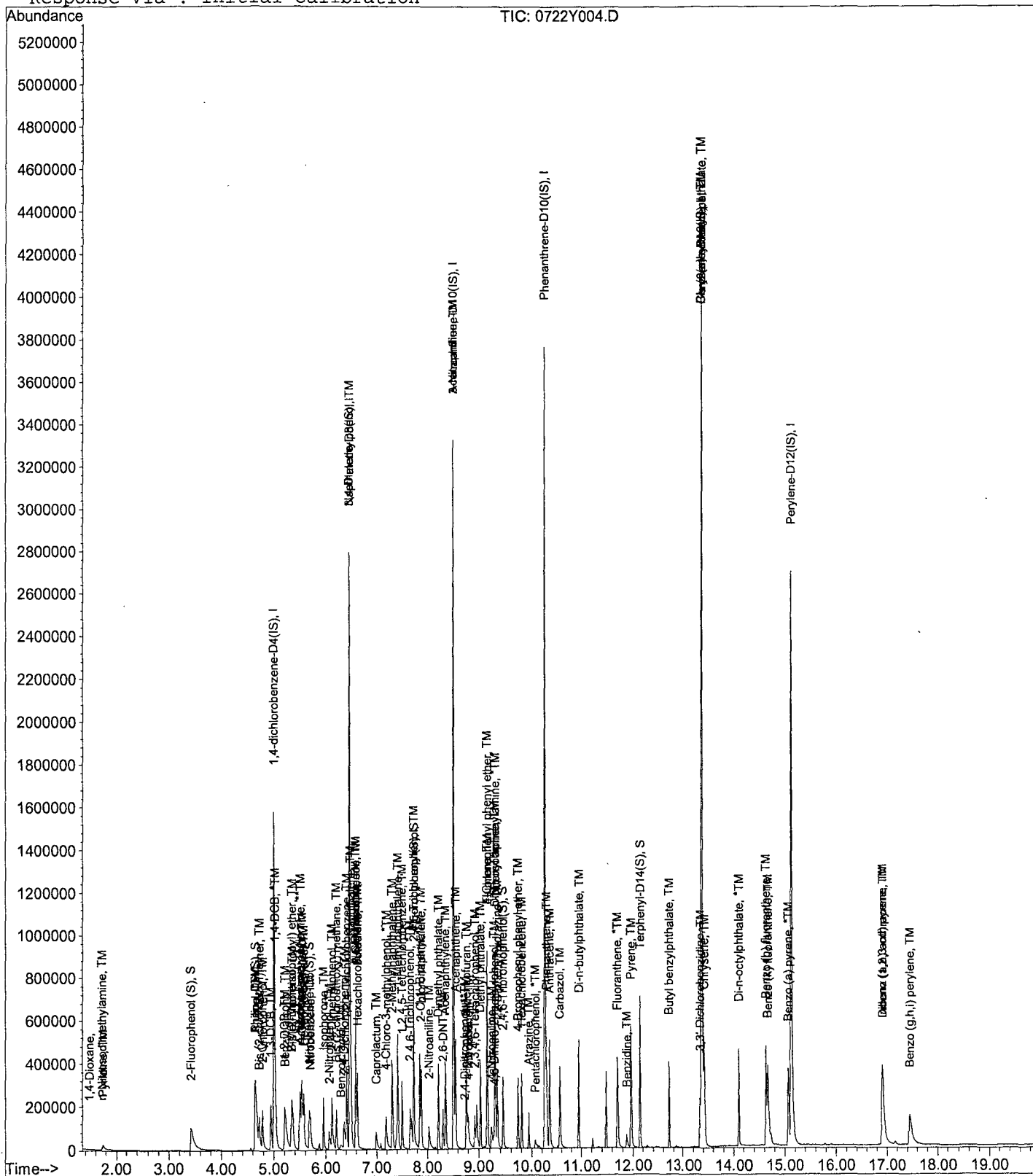
Data File : M:\YODA\DATA\Y190722\0722Y004.D
 Acq On : 22 Jul 19 14:29
 Sample : 5ug/ml 8270 07/12/19
 Misc :

Vial: 4
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 15:40 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y005.D
 Acq On : 22 Jul 19 14:57
 Sample : 10ug/ml 8270 07/12/19
 Misc :

Vial: 5
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:32:36 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	494862	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.47	136	1977082	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.51	164	1040818	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.26	188	2035484	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.38	240	1894706	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.13	264	1984381	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.40	112	358492	22.22414	ppb	0.02
Spiked Amount 200.000			Recovery =	11.112%		
6) Phenol-D6 (S)	4.63	99	417767	20.78065	ppb	0.00
Spiked Amount 200.000			Recovery =	10.391%		
22) Nitrobenzene-D5 (S)	5.67	82	173507	9.92501	ppb	0.00
Spiked Amount 100.000			Recovery =	9.925%		
46) 2-Fluorobiphenyl (S)	7.73	172	463218	12.57100	ppb	0.00
Spiked Amount 100.000			Recovery =	12.571%		
64) 2,4,6-Tribromophenol (S)	9.45	330	122393	22.82155	ppb	0.00
Spiked Amount 200.000			Recovery =	11.411%		
82) Terphenyl-D14 (S)	12.14	244	533349	12.10006	ppb	0.00
Spiked Amount 100.000			Recovery =	12.100%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.48	58	1382	0.67324		81
3) n-Nitrosodimethylamine	1.71	42	21988	6.96639	ppb	98
4) Pyridine	1.72	79	53893	6.85757	ppb	100
7) Phenol	4.65	94	250482	10.51846	ppb	90
8) Aniline	4.64	93	240981	10.38838	ppb	# 87
9) Bis (2-chloroethyl) ether	4.71	63	105754	10.48865	ppb	97
10) 2-Chlorophenol	4.78	128	195815	11.29814	ppb	98
11) 1,3-DCB	4.94	146	222252	11.22338	ppb	99
12) 1,4-DCB	5.03	146	223877	11.01791	ppb	100
13) Benzyl alcohol	5.21	108	104802	10.39089	ppb	97
14) 1,2-DCB	5.21	146	206238	10.87348	ppb	98
15) 2-Methylphenol	5.34	107	155412	10.70991	ppb	97
16) Bis (2-chloroisopropyl) et	5.34	45	173163	11.63742	ppb	# 88
17) Acetophenone	5.49	105	234120	10.44007	ppb	95
18) 3&4-Methylphenol	5.52	107	384586	21.45807	ppb	99
19) n-Nitrosodi-n-propylamine	5.48	70	116145	9.47300	ppb	96
20) Hexachloroethane	5.57	117	75826	10.51398	ppb	81
23) Nitrobenzene	5.69	77	170582	9.89462	ppb	97
24) Isophorone	5.96	82	298008	10.07146	ppb	95
25) 2-Nitrophenol	6.06	139	107318	11.30918	ppb	99
26) 2,4-Dimethylphenol	6.12	122	167563	11.05925	ppb	99
27) Benzoic acid	6.26	105	83337	8.46946	ppb	96
28) Bis (2-chloroethoxy) metha	6.21	93	202658	10.72609	ppb	99
29) 2,4-Dichlorophenol	6.35	162	160030	11.06528	ppb	100
30) 1,2,4-Trichlorobenzene	6.41	180	182933	11.43968	ppb	99
31) 3,4-Dimethylphenol	6.46	107	219944	10.59004	ppb	98
32) Naphthalene	6.50	128	571280	11.40869	ppb	100
33) 4-Chloroaniline	6.59	127	222510	11.53806	ppb	97
34) 2,6-Dichlorophenol	6.59	162	161963	10.89378	ppb	99
35) Hexachloropropene	6.59	213	99937	9.90244	ppb	98
36) Hexachlorobutadiene	6.63	225	99309	10.69913	ppb	98
37) Caprolactum	6.99	55	60350	10.54999	ppb	92

Data File : M:\YODA\DATA\Y190722\0722Y005.D
 Acq On : 22 Jul 19 14:57
 Sample : 10ug/ml 8270 07/12/19
 Misc :

Vial: 5
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:32:36 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	153114	10.93286	ppb	93
39) 2-Methylnaphthalene	7.30	142	373735	11.34952	ppb	99
40) 1-Methylnaphthalene	7.41	142	387403	11.27475	ppb	99
42) Hexachlorocyclopentadiene	7.47	237	4136	1.72454	ppb	98
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	176321	11.75744	ppb	100
44) 2,4,6-Trichlorophenol	7.66	196	104250	10.80084	ppb	99
45) 2,4,5-Trichlorophenol	7.71	196	111616	11.37921	ppb	# 93
47) 1,1'-Biphenyl	7.84	154	488170	12.34435	ppb	# 98
48) 2-Chloronaphthalene	7.87	162	370340	11.94582	ppb	100
49) 2-Nitroaniline	8.02	65	84128	10.83411	ppb	85
50) Dimethyl phthalate	8.21	163	416968	11.82222	ppb	99
51) 2,6-DNT	8.31	165	94879	11.84877	ppb	97
52) Acenaphthylene	8.35	152	575395	11.91664	ppb	100
53) 3-Nitroaniline	8.51	138	102521	11.76288	ppb	# 88
54) Acenaphthene	8.56	154	377311	12.39989	ppb	98
55) 2,4-Dinitrophenol	8.70	184	14038	4.68342	ppb	98
56) 4-Nitrophenol	8.78	65	39935	9.20265	ppb	80
57) Dibenzofuran	8.76	168	538398	12.20496	ppb	94
58) 2,4-DNT	8.79	165	127838	11.72944	ppb	88
59) 2,3,4,6-Tetrachlorophenol	8.93	232	81339	10.72911	ppb	96
60) Diethyl phthalate	9.03	149	397222	11.54365	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.16	204	220710	12.14078	ppb	97
62) Fluorene	9.16	166	427356	11.63675	ppb	100
63) 4-Nitroaniline	9.23	138	94293	11.57289	ppb	98
66) 4,6-Dinitro-2-methylphenol	9.27	198	63725	13.26532	ppb	96
67) Diphenyl amine	9.31	169	660461	20.92637	ppb	99
68) n-Nitrosodiphenylamine	9.31	169	660461	20.92637	ppb	99
69) 1,2-Diphenylhydrazine	9.35	77	345930	8.89163	ppb	97
70) 4-Bromophenyl phenyl ether	9.74	248	122158	10.08917	ppb	98
71) Hexachlorobenzene	9.80	284	127261	10.06275	ppb	97
72) Atrazine	9.94	200	56541	5.33914	ppb	96
73) Pentachlorophenol	10.06	266	32737	7.74673	ppb	96
74) Phenanthrene	10.29	178	630028	10.91833	ppb	99
75) Anthracene	10.36	178	642848	10.74560	ppb	99
76) Carbazol	10.56	167	587286	10.77676	ppb	99
77) Di-n-butylphthalate	10.95	149	645730	10.26866	ppb	99
78) Fluoranthene	11.69	202	677855	10.96689	ppb	98
80) Benzidine	11.87	184	134874	11.03349	ppb	# 98
81) Pyrene	11.96	202	706700	12.47354	ppb	100
83) Butyl benzylphthalate	12.71	149	276019	11.28610	ppb	82
84) 3,3'-Dichlorobenzidine	13.34	252	193787	11.53281	ppb	98
85) Benz (a) anthracene	13.37	228	675902	11.00459	ppb	100
86) Bis (2-ethylhexyl) phthala	13.37	149	376834	10.80604	ppb	98
87) Chrysene	13.41	228	638925	11.66556	ppb	100
88) Di-n-octylphthalate	14.10	149	617175	11.00300	ppb	# 95
90) Benzo (b) fluoranthene	14.62	252	652864	11.02209	ppb	98
91) Benzo (k) fluoranthene	14.66	252	618688	10.63284	ppb	99
92) Benzo (a) pyrene	15.06	252	598712	11.02449	ppb	99
93) Indeno (1,2,3-cd) pyrene	16.89	276	663063	10.66455	ppb	99
94) Dibenz (a,h) anthracene	16.89	278	581544	10.86152	ppb	97
95) Benzo (g,h,i) perylene	17.42	276	513851	10.72960	ppb	97

(#) = qualifier out of range (m) = manual integration

0722Y005.D Y0722NC.M

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Quantitation Report

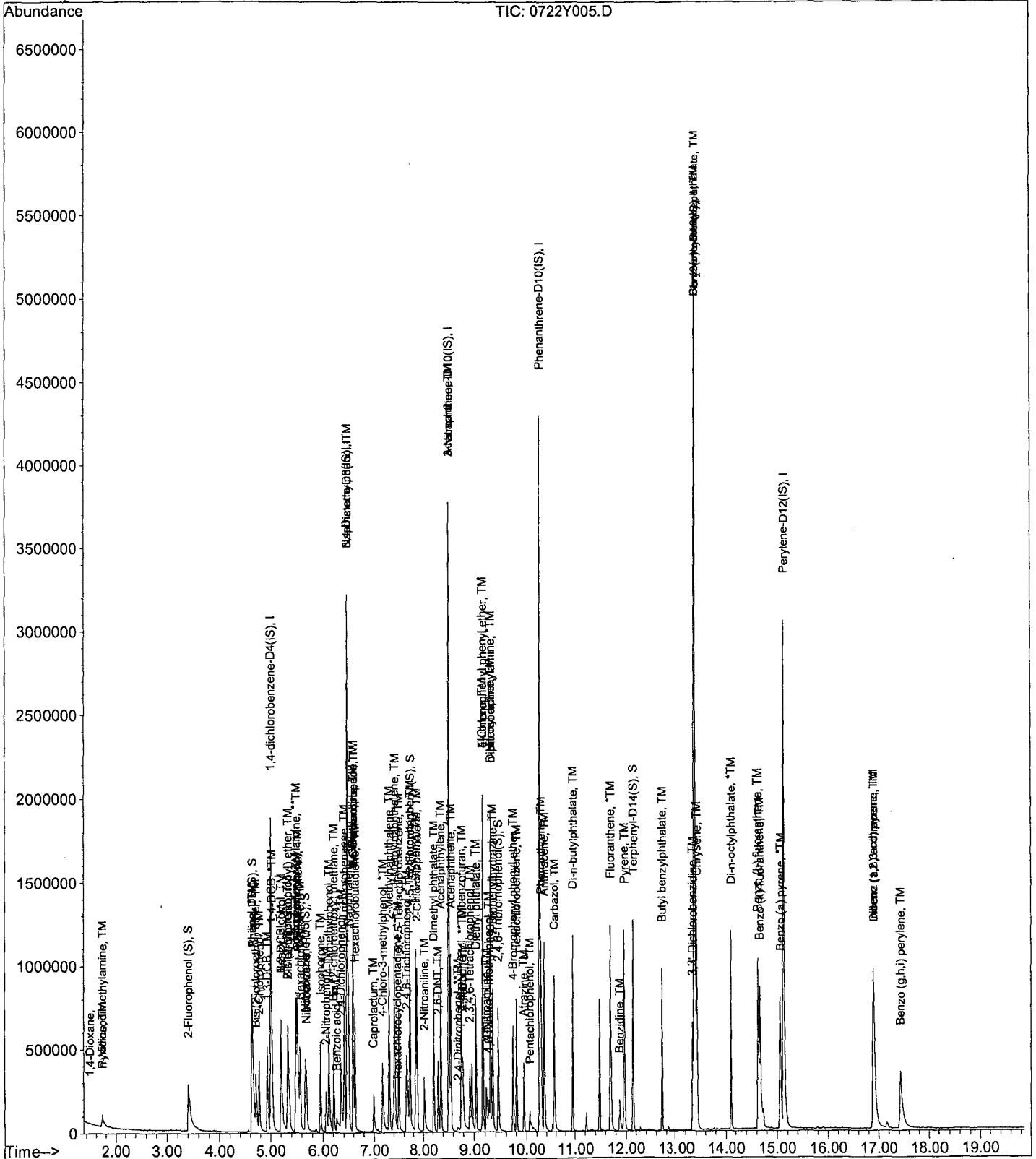
Data File : M:\YODA\DATA\Y190722\0722Y005.D
Acq On : 22 Jul 19 14:57
Sample : 10ug/ml 8270 07/12/19
Misc :

Vial: 5
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y006.D
 Acq On : 22 Jul 19 15:25
 Sample : 20ug/ml 8270 07/12/19
 Misc :

Vial: 6
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:24 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:35:45 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	449552	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.47	136	1802981	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.51	164	964305	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1897463	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.38	240	1747780	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.13	264	1861922	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.39	112	621052	42.38162	ppb	0.00
Spiked Amount 200.000				Recovery = 21.191%		
6) Phenol-D6 (S)	4.62	99	710958	38.92898	ppb	0.00
Spiked Amount 200.000				Recovery = 19.465%		
22) Nitrobenzene-D5 (S)	5.66	82	293880	18.43391	ppb	0.00
Spiked Amount 100.000				Recovery = 18.434%		
46) 2-Fluorobiphenyl (S)	7.72	172	763550	22.36569	ppb	0.00
Spiked Amount 100.000				Recovery = 22.366%		
64) 2,4,6-Tribromophenol (S)	9.45	330	214535	43.17647	ppb	0.00
Spiked Amount 200.000				Recovery = 21.588%		
82) Terphenyl-D14 (S)	12.13	244	900378	22.14400	ppb	0.00
Spiked Amount 100.000				Recovery = 22.144%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.48	58	1648m	0.88374		80
3) n-Nitrosodimethylamine	1.71	42	42917	14.96771	ppb	100
4) Pyridine	1.72	79	98578	13.80773	ppb	99
7) Phenol	4.64	94	446508	20.63998	ppb	90
8) Aniline	4.64	93	440648	20.91034	ppb	93
9) Bis (2-chloroethyl) ether	4.72	63	183864	20.07352	ppb	93
10) 2-Chlorophenol	4.77	128	343946	21.84518	ppb	99
11) 1,3-DCB	4.94	146	389026	21.62523	ppb	99
12) 1,4-DCB	5.02	146	391367	21.20206	ppb	98
13) Benzyl alcohol	5.20	108	195279	21.31291	ppb	99
14) 1,2-DCB	5.20	146	367155	21.30852	ppb	100
15) 2-Methylphenol	5.34	107	282308	21.41553	ppb	99
16) Bis (2-chloroisopropyl) et	5.33	45	301306	22.29018	ppb	100
17) Acetophenone	5.50	105	416480	20.44387	ppb	99
18) 3&4-Methylphenol	5.51	107	672559	41.30778	ppb	96
19) n-Nitrosodi-n-propylamine	5.49	70	203852	18.30232	ppb	98
20) Hexachloroethane	5.57	117	132666	20.24942	ppb	87
23) Nitrobenzene	5.69	77	310328	19.73878	ppb	100
24) Isophorone	5.96	82	545427	20.21318	ppb	93
25) 2-Nitrophenol	6.05	139	198818	22.97458	ppb	98
26) 2,4-Dimethylphenol	6.11	122	305159	22.08551	ppb	96
27) Benzoic acid	6.28	105	188388	20.99445	ppb	99
28) Bis (2-chloroethoxy) metha	6.21	93	357892	20.77128	ppb	99
29) 2,4-Dichlorophenol	6.34	162	290242	22.00669	ppb	99
30) 1,2,4-Trichlorobenzene	6.41	180	318460	21.83786	ppb	99
31) 3,4-Dimethylphenol	6.46	107	393672	20.78517	ppb	100
32) Naphthalene	6.50	128	980235	21.46596	ppb	99
33) 4-Chloroaniline	6.58	127	390582	22.20900	ppb	98
34) 2,6-Dichlorophenol	6.58	162	280825	20.71247	ppb	95
35) Hexachloropropene	6.59	213	181367	19.70641	ppb	98
36) Hexachlorobutadiene	6.63	225	173617	20.51095	ppb	98
37) Caprolactum	7.00	55	115507	22.14199	ppb	97

Data File : M:\YODA\DATA\Y190722\0722Y006.D
 Acq On : 22 Jul 19 15:25
 Sample : 20ug/ml 8270 07/12/19
 Misc :

Vial: 6
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:24 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:35:45 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	279488	21.88345	ppb	96
39) 2-Methylnaphthalene	7.31	142	656540	21.86293	ppb	100
40) 1-Methylnaphthalene	7.42	142	680952	21.73171	ppb	99
42) Hexachlorocyclopentadiene	7.47	237	20014	9.00713	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	312157	22.46685	ppb	99
44) 2,4,6-Trichlorophenol	7.65	196	196020	21.92008	ppb	98
45) 2,4,5-Trichlorophenol	7.71	196	205225	22.58273	ppb	# 92
47) 1,1'-Biphenyl	7.84	154	863483	23.56739	ppb	99
48) 2-Chloronaphthalene	7.87	162	664035	23.11887	ppb	98
49) 2-Nitroaniline	8.01	65	160806	22.35194	ppb	75
50) Dimethyl phthalate	8.22	163	771706	23.61613	ppb	99
51) 2,6-DNT	8.30	165	182224	24.56230	ppb	87
52) Acenaphthylene	8.35	152	1041135	23.27316	ppb	99
53) 3-Nitroaniline	8.50	138	191925	23.76800	ppb	# 94
54) Acenaphthene	8.55	154	661848	23.47669	ppb	99
55) 2,4-Dinitrophenol	8.69	184	58621	21.10917	ppb	99
56) 4-Nitrophenol	8.76	65	81765	20.33701	ppb	99
57) Dibenzofuran	8.76	168	961022	23.51400	ppb	99
58) 2,4-DNT	8.78	165	246842	24.44539	ppb	92
59) 2,3,4,6-Tetrachlorophenol	8.92	232	156036	22.21520	ppb	95
60) Diethyl phthalate	9.04	149	729998	22.89770	ppb	96
61) 4-Chlorophenyl phenyl ethe	9.16	204	397101	23.57686	ppb	95
62) Fluorene	9.16	166	767871	22.56788	ppb	100
63) 4-Nitroaniline	9.23	138	182373	24.15923	ppb	99
66) 4,6-Dinitro-2-methylphenol	9.26	198	135701	23.14173	ppb	90
67) Diphenyl amine	9.31	169	1193523	40.56691	ppb	99
68) n-Nitrosodiphenylamine	9.31	169	1193523	40.56691	ppb	99
69) 1,2-Diphenylhydrazine	9.35	77	614556	16.94529	ppb	92
70) 4-Bromophenyl phenyl ether	9.73	248	229332	20.31854	ppb	# 89
71) Hexachlorobenzene	9.80	284	235010	19.93434	ppb	91
72) Atrazine	9.94	200	104560	10.59176	ppb	97
73) Pentachlorophenol	10.06	266	67449	17.12180	ppb	98
74) Phenanthrene	10.30	178	1120875	20.83761	ppb	99
75) Anthracene	10.35	178	1152872	20.67272	ppb	99
76) Carbazol	10.56	167	1082419	21.30729	ppb	99
77) Di-n-butylphthalate	10.95	149	1242593	21.19757	ppb	98
78) Fluoranthene	11.70	202	1248728	21.67249	ppb	99
80) Benzidine	11.87	184	285936	25.35762	ppb	100
81) Pyrene	11.96	202	1278897	24.47063	ppb	100
83) Butyl benzylphthalate	12.71	149	529453	23.46862	ppb	90
84) 3,3'-Dichlorobenzidine	13.34	252	373113	24.07165	ppb	98
85) Benz (a) anthracene	13.37	228	1187579	20.96079	ppb	99
86) Bis (2-ethylhexyl) phthala	13.37	149	687482	21.37139	ppb	# 94
87) Chrysene	13.41	228	1177980	23.31570	ppb	99
88) Di-n-octylphthalate	14.10	149	1213653	23.45593	ppb	96
90) Benzo (b) fluoranthene	14.62	252	1179913	21.23023	ppb	99
91) Benzo (k) fluoranthene	14.66	252	1187138	21.74414	ppb	99
92) Benzo (a) pyrene	15.06	252	1103210	21.65022	ppb	100
93) Indeno (1,2,3-cd) pyrene	16.88	276	1249836	21.42418	ppb	99
94) Dibenz (a,h) anthracene	16.90	278	1096810	21.83247	ppb	99
95) Benzo (g,h,i) perylene	17.41	276	976213	21.72473	ppb	97

Quantitation Report

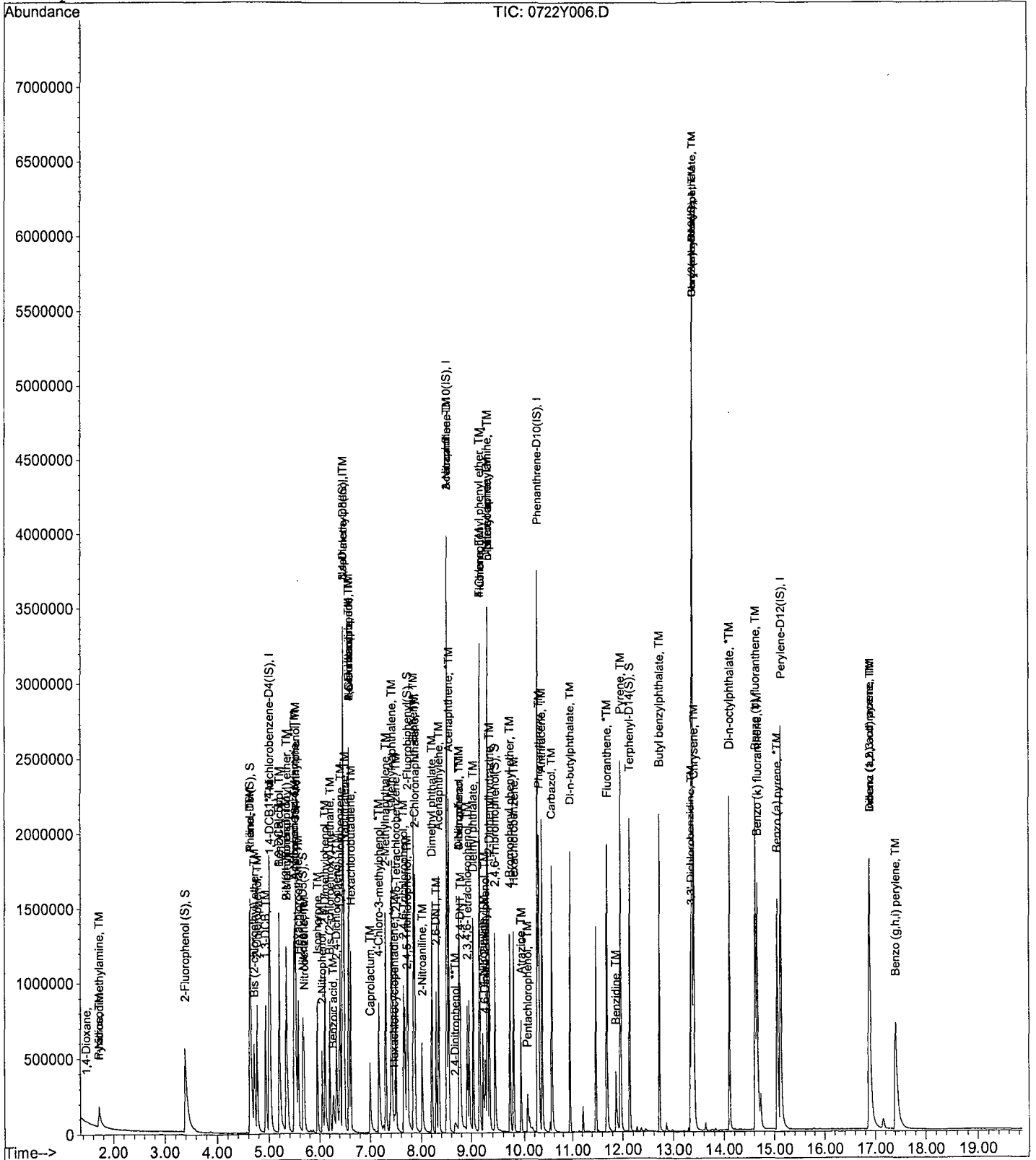
Data File : M:\YODA\DATA\Y190722\0722Y006.D
Acq On : 22 Jul 19 15:25
Sample : 20ug/ml 8270 07/12/19
Misc :

Vial: 6
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 23 8:24 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y007.D
 Acq On : 22 Jul 19 15:53
 Sample : 40ug/ml 8270 07/12/19
 Misc :

Vial: 7
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:35:45 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.01	152	434901	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.48	136	1695022	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	914739	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.26	188	1808689	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.38	240	1597421	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.13	264	1728792	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.39	112	1119111	78.94276	ppb	0.00
Spiked Amount 200.000			Recovery =	39.472%		
6) Phenol-D6 (S)	4.63	99	1197551	67.78173	ppb	0.00
Spiked Amount 200.000			Recovery =	33.891%		
22) Nitrobenzene-D5 (S)	5.67	82	502567	33.53182	ppb	0.00
Spiked Amount 100.000			Recovery =	33.532%		
46) 2-Fluorobiphenyl (S)	7.73	172	1272238	39.28534	ppb	0.00
Spiked Amount 100.000			Recovery =	39.285%		
64) 2,4,6-Tribromophenol (S)	9.46	330	377413	80.07245	ppb	0.00
Spiked Amount 200.000			Recovery =	40.036%		
82) Terphenyl-D14 (S)	12.14	244	1527109	41.09307	ppb	0.00
Spiked Amount 100.000			Recovery =	41.093%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.47	58	4540	2.51660		65
3) n-Nitrosodimethylamine	1.70	42	76662	27.63731	ppb	97
4) Pyridine	1.71	79	196073	28.38897	ppb	100
7) Phenol	4.64	94	783151	37.42097	ppb	96
8) Aniline	4.64	93	768066	37.67536	ppb	97
9) Bis (2-chloroethyl) ether	4.71	63	328033	37.01978	ppb	100
10) 2-Chlorophenol	4.77	128	618839	40.62866	ppb	98
11) 1,3-DCB	4.94	146	700322	40.24107	ppb	99
12) 1,4-DCB	5.03	146	697138	39.03931	ppb	99
13) Benzyl alcohol	5.20	108	346844	39.13009	ppb	98
14) 1,2-DCB	5.20	146	649790	38.98221	ppb	99
15) 2-Methylphenol	5.34	107	485009	38.03163	ppb	99
16) Bis (2-chloroisopropyl) et	5.34	45	507545	38.81235	ppb	# 76
17) Acetophenone	5.49	105	710778	36.06555	ppb	99
18) 3&4-Methylphenol	5.52	107	1163600	73.87452	ppb	100
19) n-Nitrosodi-n-propylamine	5.49	70	350166	32.49785	ppb	99
20) Hexachloroethane	5.58	117	233873	36.89968	ppb	98
23) Nitrobenzene	5.69	77	536348	36.28789	ppb	100
24) Isophorone	5.96	82	936672	36.92336	ppb	100
25) 2-Nitrophenol	6.05	139	361620	44.44882	ppb	98
26) 2,4-Dimethylphenol	6.12	122	529260	40.74423	ppb	99
27) Benzoic acid	6.30	105	376966	44.68576	ppb	99
28) Bis (2-chloroethoxy) metha	6.21	93	610238	37.67266	ppb	99
29) 2,4-Dichlorophenol	6.34	162	505958	40.80606	ppb	99
30) 1,2,4-Trichlorobenzene	6.41	180	555093	40.48897	ppb	100
31) 3,4-Dimethylphenol	6.46	107	672769	37.78339	ppb	99
32) Naphthalene	6.51	128	1716939	39.99363	ppb	99
33) 4-Chloroaniline	6.59	127	657855	39.78899	ppb	95
34) 2,6-Dichlorophenol	6.59	162	478938	37.57433	ppb	99
35) Hexachloropropene	6.59	213	326106	37.68980	ppb	98
36) Hexachlorobutadiene	6.63	225	306496	38.51538	ppb	99
37) Caprolactum	7.02	55	200683	40.91992	ppb	99

Data File : M:\YODA\DATA\Y190722\0722Y007.D
 Acq On : 22 Jul 19 15:53
 Sample : 40ug/ml 8270 07/12/19
 Misc :

Vial: 7
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:35:45 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	495664	41.28153	ppb	87
39) 2-Methylnaphthalene	7.30	142	1152682	40.82936	ppb	99
40) 1-Methylnaphthalene	7.41	142	1165727	39.57220	ppb	99
42) Hexachlorocyclopentadiene	7.47	237	76358	36.22632	ppb	97
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	549442	41.68773	ppb	99
44) 2,4,6-Trichlorophenol	7.66	196	345048	40.67603	ppb	99
45) 2,4,5-Trichlorophenol	7.71	196	358588	41.59672	ppb	99
47) 1,1'-Biphenyl	7.85	154	1489253	42.84926	ppb	100
48) 2-Chloronaphthalene	7.87	162	1154950	42.38927	ppb	99
49) 2-Nitroaniline	8.02	65	282501	41.39521	ppb	95
50) Dimethyl phthalate	8.22	163	1334879	43.06415	ppb	100
51) 2,6-DNT	8.31	165	326631	46.41282	ppb	99
52) Acenaphthylene	8.35	152	1793911	42.27332	ppb	100
53) 3-Nitroaniline	8.51	138	344090	44.92110	ppb	# 86
54) Acenaphthene	8.56	154	1117569	41.78979	ppb	99
55) 2,4-Dinitrophenol	8.66	184	141841	53.84396	ppb	91
56) 4-Nitrophenol	8.76	65	145397	38.12346	ppb	98
57) Dibenzofuran	8.76	168	1645161	42.43447	ppb	97
58) 2,4-DNT	8.79	165	437148	45.63768	ppb	84
59) 2,3,4,6-Tetrachlorophenol	8.92	232	287070	43.08542	ppb	96
60) Diethyl phthalate	9.04	149	1250583	41.35233	ppb	100
61) 4-Chlorophenyl phenyl ethe	9.16	204	663552	41.53145	ppb	97
62) Fluorene	9.16	166	1287866	39.90160	ppb	99
63) 4-Nitroaniline	9.23	138	321115	44.84359	ppb	97
66) 4,6-Dinitro-2-methylphenol	9.27	198	264226	41.45764	ppb	96
67) Diphenyl amine	9.32	169	2026579	72.26269	ppb	99
68) n-Nitrosodiphenylamine	9.32	169	2026579	72.26269	ppb	99
69) 1,2-Diphenylhydrazine	9.36	77	1066020	30.83630	ppb	# 86
70) 4-Bromophenyl phenyl ether	9.74	248	399585	37.14038	ppb	96
71) Hexachlorobenzene	9.81	284	418506	37.24146	ppb	# 85
72) Atrazine	9.95	200	188506	20.03259	ppb	99
73) Pentachlorophenol	10.06	266	133571	35.57096	ppb	98
74) Phenanthrene	10.29	178	1932971	37.69861	ppb	100
75) Anthracene	10.36	178	2024333	38.08097	ppb	100
76) Carbazol	10.56	167	1847970	38.16254	ppb	99
77) Di-n-butylphthalate	10.95	149	2149590	38.47001	ppb	100
78) Fluoranthene	11.69	202	2142695	39.01313	ppb	98
80) Benzidine	11.87	184	539867	52.38342	ppb	99
81) Pyrene	11.96	202	2224463	46.56956	ppb	100
83) Butyl benzylphthalate	12.72	149	961739	46.64281	ppb	97
84) 3,3'-Dichlorobenzidine	13.34	252	657231	46.39284	ppb	99
85) Benz (a) anthracene	13.37	228	2025192	39.10918	ppb	100
86) Bis (2-ethylhexyl) phthala	13.37	149	1187159	40.37828	ppb	98
87) Chrysene	13.41	228	2010912	43.54828	ppb	100
88) Di-n-octylphthalate	14.11	149	2246023	47.49410	ppb	99
90) Benzo (b) fluoranthene	14.62	252	1994855	38.65759	ppb	99
91) Benzo (k) fluoranthene	14.66	252	2164247	42.69398	ppb	100
92) Benzo (a) pyrene	15.06	252	1968144	41.59870	ppb	99
93) Indeno (1,2,3-cd) pyrene	16.88	276	2256782	41.66386	ppb	99
94) Dibenz (a,h) anthracene	16.89	278	1972383	42.28453	ppb	98
95) Benzo (g,h,i) perylene	17.40	276	1774127	42.52196	ppb	99

Quantitation Report

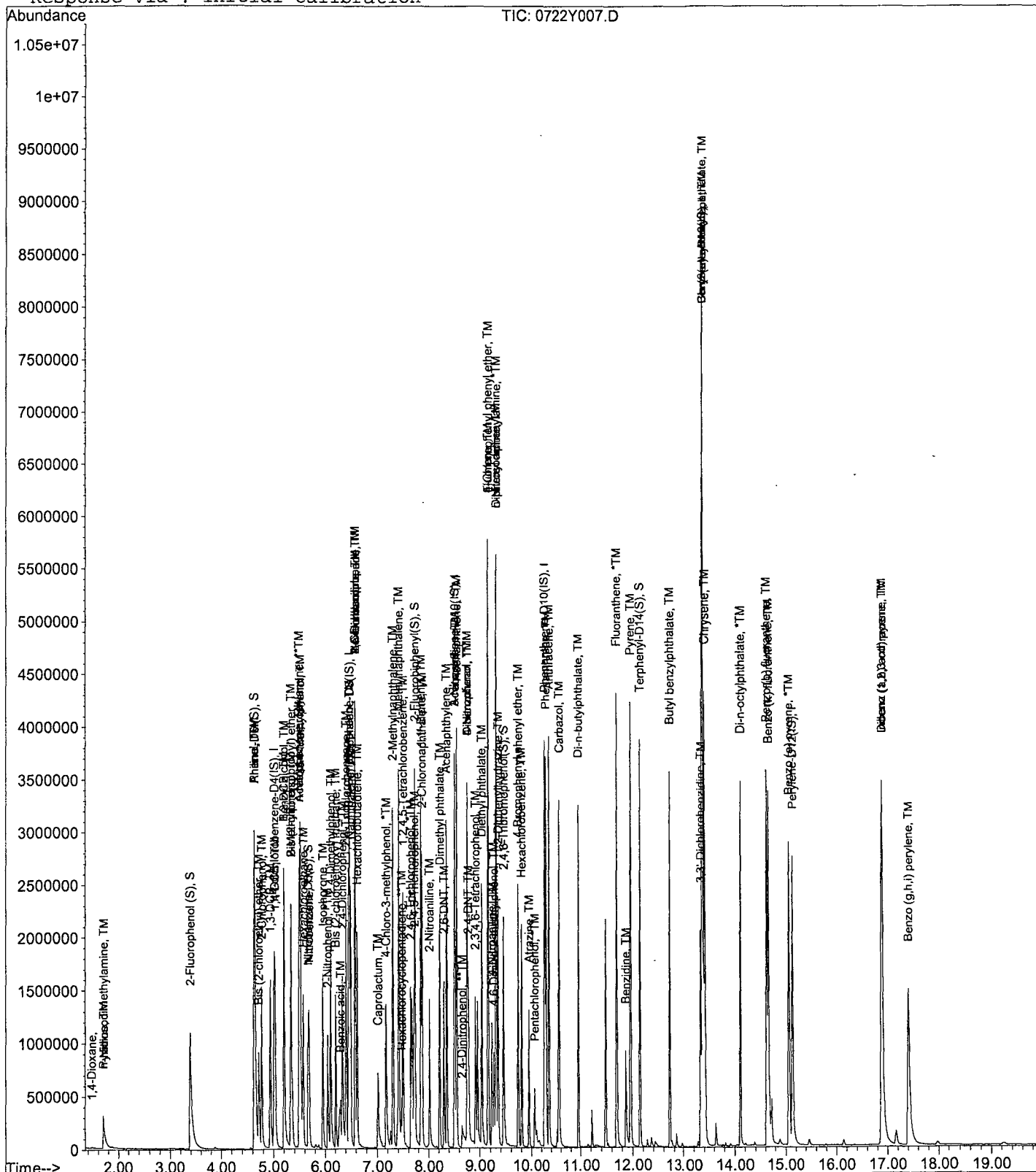
Data File : M:\YODA\DATA\Y190722\0722Y007.D
 Acq On : 22 Jul 19 15:53
 Sample : 40ug/ml 8270 07/12/19
 Misc :

Vial: 7
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y008.D
 Acq On : 22 Jul 19 16:21
 Sample : 50ug/ml 8270 07/12/19
 Misc :

Vial: 8
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:35:45 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.01	152	416163	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.48	136	1667918	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	906758	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1797614	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.38	240	1541141	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.13	264	1693655	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.39	112	1336934	98.55440	ppb	0.00
Spiked Amount 200.000			Recovery =	49.277%		
6) Phenol-D6 (S)	4.63	99	1429162	84.53315	ppb	0.00
Spiked Amount 200.000			Recovery =	42.267%		
22) Nitrobenzene-D5 (S)	5.67	82	605450	41.05274	ppb	0.00
Spiked Amount 100.000			Recovery =	41.053%		
46) 2-Fluorobiphenyl (S)	7.73	172	1551277	48.32338	ppb	0.00
Spiked Amount 100.000			Recovery =	48.323%		
64) 2,4,6-Tribromophenol (S)	9.46	330	472040	101.03012	ppb	0.00
Spiked Amount 200.000			Recovery =	50.515%		
82) Terphenyl-D14 (S)	12.14	244	1857213	51.80090	ppb	0.00
Spiked Amount 100.000			Recovery =	51.801%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.47	58	5936	3.43857		100
3) n-Nitrosodimethylamine	1.70	42	87948	33.13359	ppb	100
4) Pyridine	1.71	79	232128	35.12257	ppb	100
7) Phenol	4.64	94	967072	48.28978	ppb	100
8) Aniline	4.64	93	932390	47.79511	ppb	100
9) Bis (2-chloroethyl) ether	4.71	63	404530	47.70830	ppb	100
10) 2-Chlorophenol	4.77	128	770270	52.84754	ppb	100
11) 1,3-DCB	4.94	146	853552	51.25410	ppb	100
12) 1,4-DCB	5.03	146	862586	50.47923	ppb	100
13) Benzyl alcohol	5.20	108	433088	51.05988	ppb	100
14) 1,2-DCB	5.20	146	793816	49.76685	ppb	100
15) 2-Methylphenol	5.34	107	603605	49.46237	ppb	100
16) Bis (2-chloroisopropyl) et	5.33	45	620953	49.62277	ppb	100
17) Acetophenone	5.49	105	891156	47.25407	ppb	100
18) 3&4-Methylphenol	5.52	107	1430006	94.87586	ppb	100
19) n-Nitrosodi-n-propylamine	5.49	70	437552	42.43627	ppb	100
20) Hexachloroethane	5.58	117	286440	47.22839	ppb	100
23) Nitrobenzene	5.69	77	668853	45.98820	ppb	100
24) Isophorone	5.96	82	1184028	47.43253	ppb	100
25) 2-Nitrophenol	6.05	139	448046	55.96687	ppb	100
26) 2,4-Dimethylphenol	6.12	122	667102	52.19031	ppb	100
27) Benzoic acid	6.31	105	483571	58.25429	ppb	100
28) Bis (2-chloroethoxy) metha	6.21	93	769152	48.25472	ppb	100
29) 2,4-Dichlorophenol	6.34	162	642141	52.63096	ppb	100
30) 1,2,4-Trichlorobenzene	6.41	180	693411	51.39991	ppb	100
31) 3,4-Dimethylphenol	6.46	107	843939	48.16667	ppb	100
32) Napthalene	6.50	128	2079691	49.23063	ppb	100
33) 4-Chloroaniline	6.58	127	797949	49.04655	ppb	100
34) 2,6-Dichlorophenol	6.59	162	587514	46.84150	ppb	100
35) Hexachloropropene	6.59	213	401911	47.20583	ppb	100
36) Hexachlorobutadiene	6.63	225	382861	48.89350	ppb	100
37) Caprolactum	7.03	55	247891	51.36717	ppb	100

(#) = qualifier out of range (m) = manual integration
 0722Y008.D Y0722NC.M Tue Jul 23 09:12:41 2019

Data File : M:\YODA\DATA\Y190722\0722Y008.D
 Acq On : 22 Jul 19 16:21
 Sample : 50ug/ml 8270 07/12/19
 Misc :

Vial: 8
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:35:45 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.16	107	619188	52.40727	ppb	100
39) 2-Methylnaphthalene	7.30	142	1424143	51.26456	ppb	100
40) 1-Methylnaphthalene	7.42	142	1459621	50.35401	ppb	100
42) Hexachlorocyclopentadiene	7.47	237	119645	57.26246	ppb	100
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	683965	52.35113	ppb	100
44) 2,4,6-Trichlorophenol	7.65	196	433619	51.56715	ppb	100
45) 2,4,5-Trichlorophenol	7.71	196	461388	53.99275	ppb	100
47) 1,1'-Biphenyl	7.85	154	1856166	53.87627	ppb	100
48) 2-Chloronaphthalene	7.87	162	1418291	52.51265	ppb	100
49) 2-Nitroaniline	8.02	65	349763	51.70229	ppb	100
50) Dimethyl phthalate	8.22	163	1666226	54.22677	ppb	100
51) 2,6-DNT	8.31	165	410703	58.87274	ppb	100
52) Acenaphthylene	8.35	152	2235476	53.14241	ppb	100
53) 3-Nitroaniline	8.50	138	434614	57.23845	ppb	100
54) Acenaphthene	8.56	154	1390142	52.43978	ppb	100
55) 2,4-Dinitrophenol	8.66	184	198431	75.98897	ppb	100
56) 4-Nitrophenol	8.75	65	185306	49.01536	ppb	100
57) Dibenzofuran	8.76	168	2046345	53.24699	ppb	100
58) 2,4-DNT	8.78	165	554698	58.41945	ppb	100
59) 2,3,4,6-Tetrachlorophenol	8.92	232	366798	55.53609	ppb	100
60) Diethyl phthalate	9.04	149	1579664	52.69361	ppb	100
61) 4-Chlorophenyl phenyl ethe	9.16	204	815907	51.51677	ppb	100
62) Fluorene	9.16	166	1578062	49.32301	ppb	100
63) 4-Nitroaniline	9.24	138	403717	56.87516	ppb	100
66) 4,6-Dinitro-2-methylphenol	9.27	198	342958	52.43640	ppb	100
67) Diphenyl amine	9.32	169	2480968	89.01008	ppb	100
68) n-Nitrosodiphenylamine	9.32	169	2480968	89.01008	ppb	100
69) 1,2-Diphenylhydrazine	9.35	77	1530807	44.55380	ppb	100
70) 4-Bromophenyl phenyl ether	9.74	248	510638	47.75488	ppb	100
71) Hexachlorobenzene	9.80	284	528160	47.28876	ppb	100
72) Atrazine	9.95	200	239643	25.62383	ppb	100
73) Pentachlorophenol	10.06	266	177793	47.63931	ppb	100
74) Phenanthrene	10.29	178	2415787	47.40522	ppb	100
75) Anthracene	10.36	178	2512868	47.56233	ppb	100
76) Carbazol	10.56	167	2335501	48.52771	ppb	100
77) Di-n-butylphthalate	10.95	149	2629794	47.35391	ppb	100
78) Fluoranthene	11.70	202	2668320	48.88277	ppb	100
80) Benzidine	11.87	184	700290	70.43070	ppb	100
81) Pyrene	11.96	202	2748798	59.64812	ppb	100
83) Butyl benzylphthalate	12.72	149	1204617	60.55548	ppb	100
84) 3,3'-Dichlorobenzidine	13.34	252	814912	59.62393	ppb	100
85) Benz (a) anthracene	13.37	228	2482336	49.68783	ppb	100
86) Bis (2-ethylhexyl) phthala	13.38	149	1456149	51.33597	ppb	100
87) Chrysene	13.41	228	2483977	55.75741	ppb	100
88) Di-n-octylphthalate	14.11	149	2780018	60.93265	ppb	100
90) Benzo (b) fluoranthene	14.62	252	2538404	50.21136	ppb	100
91) Benzo (k) fluoranthene	14.66	252	2627814	52.91419	ppb	100
92) Benzo (a) pyrene	15.06	252	2445138	52.75262	ppb	100
93) Indeno (1,2,3-cd) pyrene	16.88	276	2828859	53.30882	ppb	100
94) Dibenz (a,h) anthracene	16.89	278	2475329	54.16778	ppb	100
95) Benzo (g,h,i) perylene	17.40	276	2242403	54.86054	ppb	100

Quantitation Report

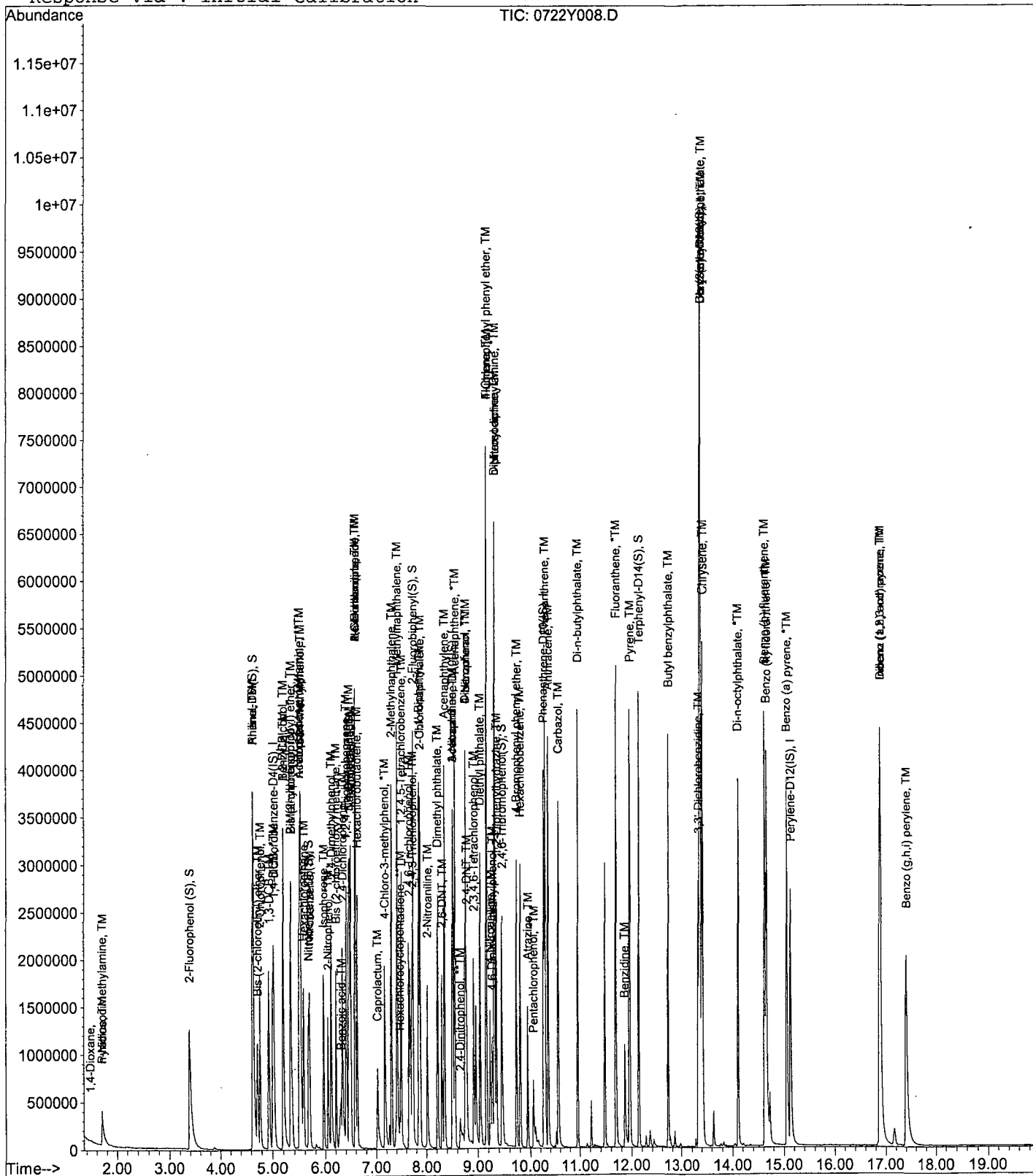
Data File : M:\YODA\DATA\Y190722\0722Y008.D
 Acq On : 22 Jul 19 16:21
 Sample : 50ug/ml 8270 07/12/19
 Misc :

Vial: 8
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y009.D
 Acq On : 22 Jul 19 16:49
 Sample : 60ug/ml 8270 07/12/19
 Misc :

Vial: 9
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:45 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:38:07 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	437675	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.48	136	1720406	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.51	164	937619	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1842343	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.39	240	1607541	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.13	264	1780829	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.38	112	1612028	107.20956	ppb	0.00
Spiked Amount 200.000			Recovery =	53.605%		
6) Phenol-D6 (S)	4.62	99	1692233	95.57774	ppb	0.00
Spiked Amount 200.000			Recovery =	47.789%		
22) Nitrobenzene-D5 (S)	5.66	82	718067	49.13574	ppb	0.00
Spiked Amount 100.000			Recovery =	49.136%		
46) 2-Fluorobiphenyl (S)	7.73	172	1802151	49.66287	ppb	0.00
Spiked Amount 100.000			Recovery =	49.663%		
64) 2,4,6-Tribromophenol (S)	9.46	330	562766	109.26102	ppb	0.00
Spiked Amount 200.000			Recovery =	54.630%		
82) Terphenyl-D14 (S)	12.14	244	2192539	53.48439	ppb	0.00
Spiked Amount 100.000			Recovery =	53.484%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.48	58	6942m	4.52687		45
3) n-Nitrosodimethylamine	1.70	42	121038	54.00330	ppb	97
4) Pyridine	1.71	79	284393	52.07852	ppb	100
7) Phenol	4.64	94	1145828	54.28248	ppb	94
8) Aniline	4.63	93	1121005	54.05728	ppb	# 85
9) Bis (2-chloroethyl) ether	4.72	63	491483	55.21180	ppb	97
10) 2-Chlorophenol	4.77	128	920952	57.12711	ppb	99
11) 1,3-DCB	4.93	146	1031789	56.69173	ppb	98
12) 1,4-DCB	5.02	146	1043327	56.83571	ppb	98
13) Benzyl alcohol	5.20	108	522063	56.90191	ppb	100
14) 1,2-DCB	5.20	146	953510	55.39926	ppb	99
15) 2-Methylphenol	5.34	107	729397	55.43086	ppb	99
16) Bis (2-chloroisopropyl) et	5.33	45	735058	52.52482	ppb	# 87
17) Acetophenone	5.49	105	1066834	53.66137	ppb	99
18) 3&4-Methylphenol	5.52	107	1706286	105.76202	ppb	100
19) n-Nitrosodi-n-propylamine	5.49	70	518839	50.77146	ppb	99
20) Hexachloroethane	5.57	117	344927	54.23276	ppb	84
23) Nitrobenzene	5.69	77	803975	55.25210	ppb	98
24) Isophorone	5.97	82	1420690	56.16339	ppb	92
25) 2-Nitrophenol	6.05	139	547766	63.45967	ppb	96
26) 2,4-Dimethylphenol	6.12	122	794617	57.53359	ppb	98
27) Benzoic acid	6.32	105	499109	58.23316	ppb	100
28) Bis (2-chloroethoxy) metha	6.21	93	917851	55.36882	ppb	99
29) 2,4-Dichlorophenol	6.34	162	766243	58.46976	ppb	99
30) 1,2,4-Trichlorobenzene	6.41	180	833371	57.56733	ppb	99
31) 3,4-Dimethylphenol	6.46	107	1015102	55.90949	ppb	99
32) Naphthalene	6.50	128	2507244	55.67213	ppb	100
33) 4-Chloroaniline	6.58	127	935945	53.74350	ppb	99
34) 2,6-Dichlorophenol	6.58	162	692417	52.76459	ppb	97
35) Hexachloropropene	6.59	213	482994	55.43696	ppb	98
36) Hexachlorobutadiene	6.63	225	461712	56.99151	ppb	99
37) Caprolactum	7.04	55	300817	58.55575	ppb	99

Data File : M:\YODA\DATA\Y190722\0722Y009.D
 Acq On : 22 Jul 19 16:49
 Sample : 60ug/ml 8270 07/12/19
 Misc :

Vial: 9
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:45 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:38:07 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	742100	58.38930	ppb	99
39) 2-Methylnaphthalene	7.31	142	1707887	56.78975	ppb	99
40) 1-Methylnaphthalene	7.42	142	1730112	55.23433	ppb	99
42) Hexachlorocyclopentadiene	7.47	237	173882	95.99836	ppb	98
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	819581	57.17759	ppb	99
44) 2,4,6-Trichlorophenol	7.65	196	526860	58.86615	ppb	99
45) 2,4,5-Trichlorophenol	7.70	196	558447	59.42769	ppb	# 93
47) 1,1'-Biphenyl	7.84	154	2186516	55.88384	ppb	# 98
48) 2-Chloronaphthalene	7.87	162	1682772	55.78230	ppb	100
49) 2-Nitroaniline	8.02	65	422122	57.57672	ppb	98
50) Dimethyl phthalate	8.22	163	1988353	57.42611	ppb	98
51) 2,6-DNT	8.31	165	501942	62.17338	ppb	99
52) Acenaphthylene	8.35	152	2688545	57.25804	ppb	100
53) 3-Nitroaniline	8.50	138	510176	59.56709	ppb	100
54) Acenaphthene	8.56	154	1645420	54.98872	ppb	99
55) 2,4-Dinitrophenol	8.65	184	243776m	92.48619	ppb	91
56) 4-Nitrophenol	8.75	65	222218	57.12374	ppb	96
57) Dibenzofuran	8.76	168	2446444	56.48580	ppb	100
58) 2,4-DNT	8.78	165	662711	60.96695	ppb	98
59) 2,3,4,6-Tetrachlorophenol	8.92	232	446533	62.13068	ppb	98
60) Diethyl phthalate	9.04	149	1864739	56.43276	ppb	100
61) 4-Chlorophenyl phenyl ethe	9.16	204	959331	53.53220	ppb	97
62) Fluorene	9.16	166	1836197	52.14519	ppb	99
63) 4-Nitroaniline	9.24	138	491416	60.93816	ppb	99
66) 4,6-Dinitro-2-methylphenol	9.27	198	414952	59.90914	ppb	98
67) Diphenyl amine	9.32	169	2928675	102.65355	ppb	100
68) n-Nitrosodiphenylamine	9.32	169	2928675	102.65355	ppb	100
69) 1,2-Diphenylhydrazine	9.35	77	1842256	55.72450	ppb	98
70) 4-Bromophenyl phenyl ether	9.74	248	619861	56.96373	ppb	96
71) Hexachlorobenzene	9.80	284	632881	56.24004	ppb	96
72) Atrazine	9.95	200	289997	29.32240	ppb	100
73) Pentachlorophenol	10.06	266	217511	61.88485	ppb	99
74) Phenanthrene	10.29	178	2816064	53.11010	ppb	100
75) Anthracene	10.36	178	2937033	53.72686	ppb	100
76) Carbazol	10.56	167	2745559	54.36181	ppb	100
77) Di-n-butylphthalate	10.95	149	3160640	55.24913	ppb	100
78) Fluoranthene	11.70	202	3182581	55.18420	ppb	99
80) Benzidine	11.86	184	887325	75.68119	ppb	98
81) Pyrene	11.97	202	3263914	60.00730	ppb	100
83) Butyl benzylphthalate	12.72	149	1427380	62.33458	ppb	99
84) 3,3'-Dichlorobenzidine	13.34	252	978772	63.06674	ppb	99
85) Benz (a) anthracene	13.37	228	2974744	55.31685	ppb	100
86) Bis (2-ethylhexyl) phthala	13.38	149	1696787	55.39657	ppb	99
87) Chrysene	13.41	228	2893904	57.15954	ppb	99
88) Di-n-octylphthalate	14.10	149	3364339	64.39260	ppb	# 94
90) Benzo (b) fluoranthene	14.62	252	3070425	56.24455	ppb	99
91) Benzo (k) fluoranthene	14.66	252	3073129	56.50474	ppb	100
92) Benzo (a) pyrene	15.06	252	2939565	57.96905	ppb	99
93) Indeno (1,2,3-cd) pyrene	16.89	276	3399948	58.81639	ppb	100
94) Dibenz (a,h) anthracene	16.90	278	2976911	59.57297	ppb	99
95) Benzo (g,h,i) perylene	17.41	276	2685608	59.89385	ppb	99

(#) = qualifier out of range (m) = manual integration

0722Y009.D Y0722NC.M

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Quantitation Report

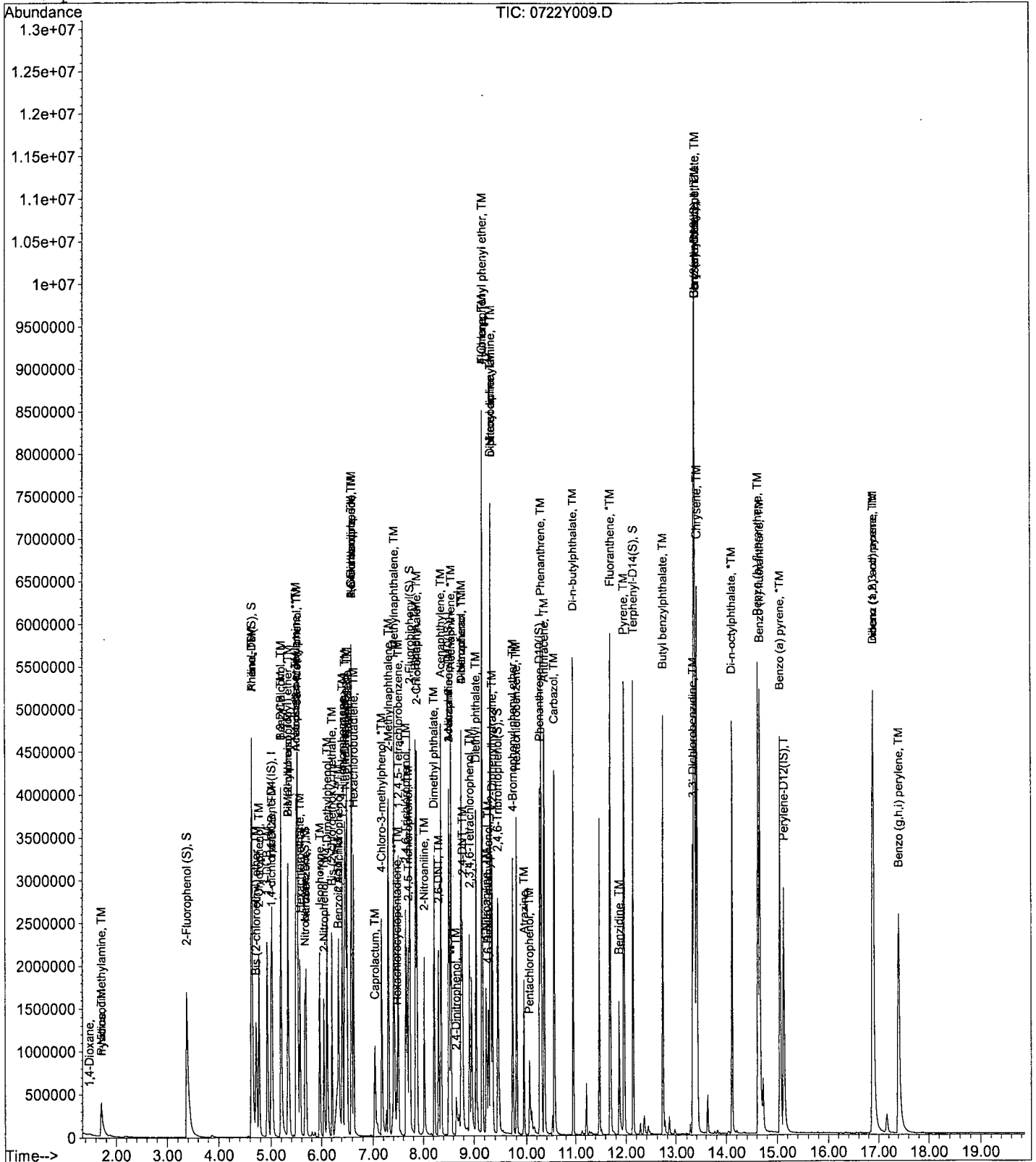
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 Acq On : 22 Jul 19 16:49
 Sample : 60ug/ml 8270 07/12/19
 Misc :

Vial: 9
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:45 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y190722\0722Y010.D
 Acq On : 22 Jul 19 17:17
 Sample : 80ug/ml 8270 07/12/19
 Misc :

Vial: 10
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:46 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 17:50:09 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.01	152	422671	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.48	136	1669353	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	905246	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1837346	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.39	240	1538156	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.14	264	1745092	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.38	112	2066331	146.98991	ppb	0.00
Spiked Amount 200.000			Recovery =	73.495%		
6) Phenol-D6 (S)	4.63	99	2120145	136.12499	ppb	0.00
Spiked Amount 200.000			Recovery =	68.063%		
22) Nitrobenzene-D5 (S)	5.67	82	923542	70.77873	ppb	0.00
Spiked Amount 100.000			Recovery =	70.779%		
46) 2-Fluorobiphenyl (S)	7.73	172	2251275	70.51067	ppb	0.00
Spiked Amount 100.000			Recovery =	70.511%		
64) 2,4,6-Tribromophenol (S)	9.46	330	730628	152.07906	ppb	0.00
Spiked Amount 200.000			Recovery =	76.040%		
82) Terphenyl-D14 (S)	12.14	244	2799653	72.89144	ppb	0.00
Spiked Amount 100.000			Recovery =	72.891%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.47	58	8554	6.67820		91
3) n-Nitrosodimethylamine	1.69	42	162191	82.53792	ppb	87
4) Pyridine	1.70	79	403533	84.37735	ppb	96
7) Phenol	4.65	94	1387486	69.85551	ppb	84
8) Aniline	4.64	93	1426432	73.85061	ppb	# 96
9) Bis (2-chloroethyl) ether	4.72	63	629192	74.33303	ppb	93
10) 2-Chlorophenol	4.77	128	1182620	75.48069	ppb	99
11) 1,3-DCB	4.94	146	1330066	75.32748	ppb	100
12) 1,4-DCB	5.03	146	1333436	75.22611	ppb	100
13) Benzyl alcohol	5.21	108	672312	76.93627	ppb	95
14) 1,2-DCB	5.20	146	1216306	74.02032	ppb	99
15) 2-Methylphenol	5.34	107	943686	75.20546	ppb	99
16) Bis (2-chloroisopropyl) et	5.33	45	928661	69.09613	ppb	96
17) Acetophenone	5.50	105	1375888	73.75039	ppb	97
18) 3&4-Methylphenol	5.52	107	2151118	143.51527	ppb	96
19) n-Nitrosodi-n-propylamine	5.50	70	667264	72.34755	ppb	99
20) Hexachloroethane	5.58	117	446102	74.39339	ppb	100
23) Nitrobenzene	5.69	77	1033417	75.27100	ppb	97
24) Isophorone	5.97	82	1864699	77.32981	ppb	99
25) 2-Nitrophenol	6.05	139	711440	82.41463	ppb	98
26) 2,4-Dimethylphenol	6.12	122	1036273	76.90910	ppb	98
27) Benzoic acid	6.34	105	663728	80.71664	ppb	98
28) Bis (2-chloroethoxy) metha	6.22	93	1187960	74.87666	ppb	97
29) 2,4-Dichlorophenol	6.34	162	989795	77.42557	ppb	99
30) 1,2,4-Trichlorobenzene	6.41	180	1081322	76.44216	ppb	99
31) 3,4-Dimethylphenol	6.46	107	1306929	75.13868	ppb	98
32) Naphthalene	6.51	128	3204627	73.84697	ppb	99
33) 4-Chloroaniline	6.59	127	1124848	68.68776	ppb	96
34) 2,6-Dichlorophenol	6.59	162	873852	71.34942	ppb	98
35) Hexachloropropene	6.59	213	622217	77.34861	ppb	99
36) Hexachlorobutadiene	6.63	225	598302	77.18330	ppb	99
37) Caprolactum	7.05	55	400377	79.22139	ppb	99

Data File : M:\YODA\DATA\Y190722\0722Y010.D
 Acq On : 22 Jul 19 17:17
 Sample : 80ug/ml 8270 07/12/19
 Misc :

Vial: 10
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:46 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 17:50:09 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	980242	78.62503	ppb	92
39) 2-Methylnaphthalene	7.30	142	2160923	74.31757	ppb	99
40) 1-Methylnaphthalene	7.42	142	2210853	73.48526	ppb	99
42) Hexachlorocyclopentadiene	7.47	237	279754	82.81229	ppb	100
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	1065201	76.30187	ppb	99
44) 2,4,6-Trichlorophenol	7.66	196	696744	80.10084	ppb	99
45) 2,4,5-Trichlorophenol	7.71	196	731505	79.10127	ppb	99
47) 1,1'-Biphenyl	7.85	154	2771620	72.56990	ppb	98
48) 2-Chloronaphthalene	7.88	162	2170777	74.02629	ppb	97
49) 2-Nitroaniline	8.02	65	550085	77.24621	ppb	91
50) Dimethyl phthalate	8.22	163	2601608	76.30355	ppb	99
51) 2,6-DNT	8.31	165	651434	80.34710	ppb	87
52) Acenaphthylene	8.35	152	3415852	74.51654	ppb	100
53) 3-Nitroaniline	8.51	138	657807	77.55445	ppb	93
54) Acenaphthene	8.56	154	2112619	72.61464	ppb	100
55) 2,4-Dinitrophenol	8.66	184	358399m	105.36927	ppb	97
56) 4-Nitrophenol	8.75	65	290526	78.78486	ppb	94
57) Dibenzofuran	8.76	168	3130346	74.00607	ppb	95
58) 2,4-DNT	8.79	165	868084	80.28114	ppb	89
59) 2,3,4,6-Tetrachlorophenol	8.92	232	596505	84.18512	ppb	98
60) Diethyl phthalate	9.05	149	2398508	74.55840	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.16	204	1212449	70.99473	ppb	96
62) Fluorene	9.17	166	2322746	70.29886	ppb	98
63) 4-Nitroaniline	9.25	138	642323	79.55641	ppb	100
66) 4,6-Dinitro-2-methylphenol	9.28	198	573201	88.99629	ppb	98
67) Diphenyl amine	9.32	169	3722897	138.64184	ppb	100
68) n-Nitrosodiphenylamine	9.32	169	3722897	138.64184	ppb	100
69) 1,2-Diphenylhydrazine	9.36	77	2320560	74.95643	ppb	# 89
70) 4-Bromophenyl phenyl ether	9.74	248	804711	76.13385	ppb	95
71) Hexachlorobenzene	9.81	284	847147	77.57710	ppb	# 86
72) Atrazine	9.95	200	386725	39.34956	ppb	96
73) Pentachlorophenol	10.06	266	307047	91.51224	ppb	97
74) Phenanthrene	10.29	178	3658631	71.50259	ppb	100
75) Anthracene	10.36	178	3780700	71.82454	ppb	99
76) Carbazol	10.56	167	3553229	72.57597	ppb	98
77) Di-n-butylphthalate	10.95	149	4087803	74.14917	ppb	99
78) Fluoranthene	11.70	202	4058534	72.53278	ppb	98
80) Benzidine	11.87	184	1144628	90.77728	ppb	100
81) Pyrene	11.97	202	4171708	76.89439	ppb	99
83) Butyl benzylphthalate	12.72	149	1831013	80.18500	ppb	93
84) 3,3'-Dichlorobenzidine	13.35	252	1258051	80.93991	ppb	# 98
85) Benz (a) anthracene	13.38	228	3740129	74.00832	ppb	100
86) Bis (2-ethylhexyl) phthala	13.38	149	2063704	71.62398	ppb	99
87) Chrysene	13.41	228	3770245	76.35309	ppb	99
88) Di-n-octylphthalate	14.11	149	4235223	80.94007	ppb	98
90) Benzo (b) fluoranthene	14.63	252	4354959	81.71693	ppb	98
91) Benzo (k) fluoranthene	14.67	252	3680501	70.55089	ppb	98
92) Benzo (a) pyrene	15.07	252	3864242	78.12166	ppb	98
93) Indeno (1,2,3-cd) pyrene	16.89	276	4483596	79.28853	ppb	99
94) Dibenz (a,h) anthracene	16.91	278	3879445	79.55640	ppb	98
95) Benzo (g,h,i) perylene	17.41	276	3578990	80.76459	ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

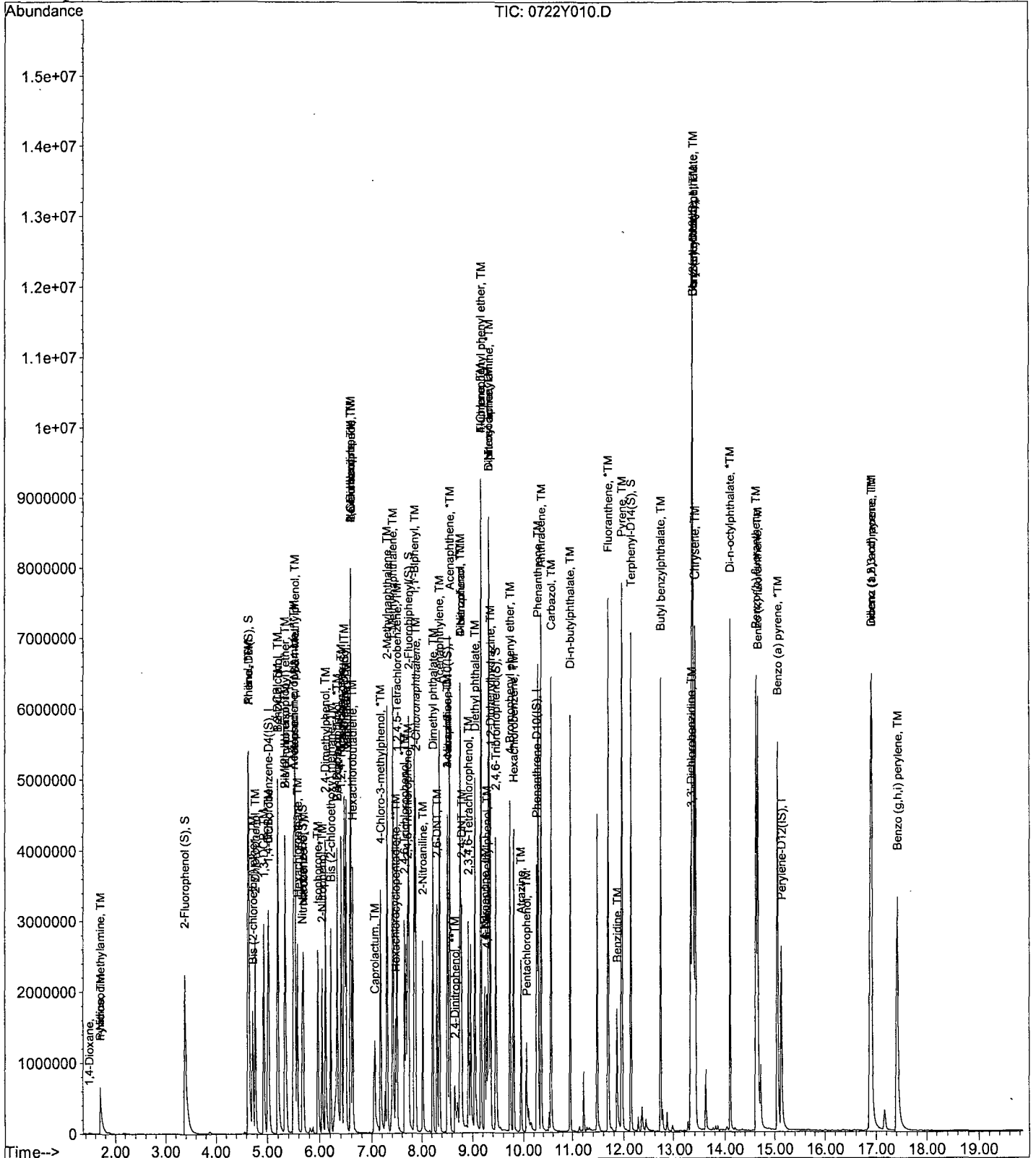
Data File : M:\YODA\DATA\Y190722\0722Y010.D
Acq On : 22 Jul 19 17:17
Sample : 80ug/ml 8270 07/12/19
Misc :

Vial: 10
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 23 8:46 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y011.D
 Acq On : 22 Jul 19 17:45
 Sample : 100ug/ml 8270 07/12/19
 Misc :

Vial: 11
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:47 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 17:50:09 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.01	152	462838	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.48	136	1798921	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	994363	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	2065221	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.39	240	1675670	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.15	264	1951293	40.00000	ppb	0.02

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.39	112	2801865	182.01547	ppb	0.00
Spiked Amount	200.000		Recovery	=	91.007%	
6) Phenol-D6 (S)	4.64	99	2757691	161.69305	ppb	0.00
Spiked Amount	200.000		Recovery	=	80.847%	
22) Nitrobenzene-D5 (S)	5.68	82	1250807	88.95543	ppb	0.00
Spiked Amount	100.000		Recovery	=	88.955%	
46) 2-Fluorobiphenyl (S)	7.74	172	2941483	83.87147	ppb	0.00
Spiked Amount	100.000		Recovery	=	83.871%	
64) 2,4,6-Tribromophenol (S)	9.47	330	1021627	193.59187	ppb	0.00
Spiked Amount	200.000		Recovery	=	96.796%	
82) Terphenyl-D14 (S)	12.15	244	3714695	88.77841	ppb	0.00
Spiked Amount	100.000		Recovery	=	88.778%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.47	58	12433	8.86420		75
3) n-Nitrosodimethylamine	1.70	42	217647	101.14698	ppb	100
4) Pyridine	1.71	79	540705	103.24777	ppb	98
7) Phenol	4.66	94	1836616	84.44304	ppb	80
8) Aniline	4.64	93	1870543	88.43907	ppb	# 79
9) Bis (2-chloroethyl) ether	4.73	63	841111	90.74557	ppb	92
10) 2-Chlorophenol	4.78	128	1615119	94.13878	ppb	98
11) 1,3-DCB	4.94	146	1768812	91.48194	ppb	98
12) 1,4-DCB	5.03	146	1768858	91.13031	ppb	99
13) Benzyl alcohol	5.21	108	913145	95.42748	ppb	99
14) 1,2-DCB	5.20	146	1617682	89.90311	ppb	98
15) 2-Methylphenol	5.34	107	1263329	91.94154	ppb	98
16) Bis (2-chloroisopropyl) et	5.34	45	1229980	83.57339	ppb	# 82
17) Acetophenone	5.50	105	1858400	90.96910	ppb	99
18) 3&4-Methylphenol	5.53	107	2817041	171.63288	ppb	97
19) n-Nitrosodi-n-propylamine	5.51	70	728509	72.13308	ppb	99
20) Hexachloroethane	5.58	117	589503	89.77587	ppb	92
23) Nitrobenzene	5.70	77	1400860	94.68538	ppb	100
24) Isophorone	5.99	82	2561188	98.56342	ppb	94
25) 2-Nitrophenol	6.06	139	974060	104.70992	ppb	95
26) 2,4-Dimethylphenol	6.12	122	1392839	95.92694	ppb	99
27) Benzoic acid	6.36	105	976965	110.25239	ppb	97
28) Bis (2-chloroethoxy) metha	6.22	93	1593579	93.20825	ppb	99
29) 2,4-Dichlorophenol	6.35	162	1337451	97.08522	ppb	98
30) 1,2,4-Trichlorobenzene	6.42	180	1430027	93.81196	ppb	99
31) 3,4-Dimethylphenol	6.47	107	1720490	91.79094	ppb	100
32) Napthalene	6.51	128	4201904	89.85400	ppb	100
33) 4-Chloroaniline	6.60	127	1358084	76.95702	ppb	94
34) 2,6-Dichlorophenol	6.59	162	1137395	86.17871	ppb	97
35) Hexachloropropene	6.59	213	822198	94.84691	ppb	97
36) Hexachlorobutadiene	6.64	225	799165	95.66992	ppb	99
37) Caprolactum	7.08	55	546327	100.31412	ppb	95

Data File : M:\YODA\DATA\Y190722\0722Y011.D
 Acq On : 22 Jul 19 17:45
 Sample : 100ug/ml 8270 07/12/19
 Misc :

Vial: 11
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:47 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 17:50:09 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.18	107	1332114	99.15280	ppb	93
39) 2-Methylnaphthalene	7.30	142	2876492	91.80186	ppb	99
40) 1-Methylnaphthalene	7.42	142	2929016	90.34376	ppb	100
42) Hexachlorocyclopentadiene	7.48	237	463958	107.91561	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.51	216	1439079	93.84473	ppb	99
44) 2,4,6-Trichlorophenol	7.66	196	951976	99.63490	ppb	100
45) 2,4,5-Trichlorophenol	7.72	196	999274	98.37221	ppb	99
47) 1,1'-Biphenyl	7.86	154	3638478	86.72899	ppb	99
48) 2-Chloronaphthalene	7.88	162	2892828	89.80801	ppb	99
49) 2-Nitroaniline	8.03	65	744695	95.20230	ppb	95
50) Dimethyl phthalate	8.23	163	3509158	93.69739	ppb	99
51) 2,6-DNT	8.32	165	892658	100.23204	ppb	91
52) Acenaphthylene	8.36	152	4516447	89.69583	ppb	99
53) 3-Nitroaniline	8.52	138	881092	94.56951	ppb	90
54) Acenaphthene	8.57	154	2789731	87.29452	ppb	100
55) 2,4-Dinitrophenol	8.66	184	543188m	145.38480	ppb	94
56) 4-Nitrophenol	8.76	65	413874	102.17568	ppb	92
57) Dibenzofuran	8.77	168	4115204	88.57028	ppb	96
58) 2,4-DNT	8.80	165	1202620	101.25159	ppb	84
59) 2,3,4,6-Tetrachlorophenol	8.93	232	830315	106.68068	ppb	98
60) Diethyl phthalate	9.06	149	3282647	92.89690	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.17	204	1595502	85.05144	ppb	100
62) Fluorene	9.17	166	3026835	83.39826	ppb	99
63) 4-Nitroaniline	9.26	138	887397	100.06019	ppb	99
66) 4,6-Dinitro-2-methylphenol	9.29	198	801387	110.69594	ppb	96
67) Diphenyl amine	9.34	169	4916676	162.89558	ppb	98
68) n-Nitrosodiphenylamine	9.34	169	4916676	162.89558	ppb	98
69) 1,2-Diphenylhydrazine	9.36	77	3086544	88.69783	ppb #	83
70) 4-Bromophenyl phenyl ether	9.75	248	1123231	94.54343	ppb	99
71) Hexachlorobenzene	9.82	284	1164684	94.88712	ppb #	84
72) Atrazine	9.96	200	533051	48.25372	ppb	96
73) Pentachlorophenol	10.07	266	464788	123.24056	ppb	100
74) Phenanthrene	10.30	178	4904500	85.27511	ppb	100
75) Anthracene	10.37	178	5026536	84.95596	ppb	99
76) Carbazol	10.57	167	4745182	86.22773	ppb	98
77) Di-n-butylphthalate	10.96	149	5359696	86.49299	ppb	99
78) Fluoranthene	11.70	202	5373587	85.43854	ppb	98
80) Benzidine	11.87	184	1601348	116.57634	ppb #	97
81) Pyrene	11.97	202	5475195	92.63866	ppb	99
83) Butyl benzylphthalate	12.73	149	2454618	98.67281	ppb	98
84) 3,3'-Dichlorobenzidine	13.36	252	1698474	100.30793	ppb #	97
85) Benz (a) anthracene	13.37	228	4885979	88.74776	ppb	99
86) Bis (2-ethylhexyl) phthala	13.38	149	2612510	83.23020	ppb	98
87) Chrysene	13.43	228	5036880	93.63334	ppb	99
88) Di-n-octylphthalate	14.12	149	5643837	99.00877	ppb	98
90) Benzo (b) fluoranthene	14.64	252	5944100	99.74931	ppb	99
91) Benzo (k) fluoranthene	14.67	252	4860324	83.32141	ppb	98
92) Benzo (a) pyrene	15.07	252	5246564	94.85887	ppb	98
93) Indeno (1,2,3-cd) pyrene	16.91	276	6095397	96.40104	ppb	99
94) Dibenz (a,h) anthracene	16.93	278	5279293	96.82269	ppb	98
95) Benzo (g,h,i) perylene	17.43	276	4963616	100.17389	ppb	99

Quantitation Report

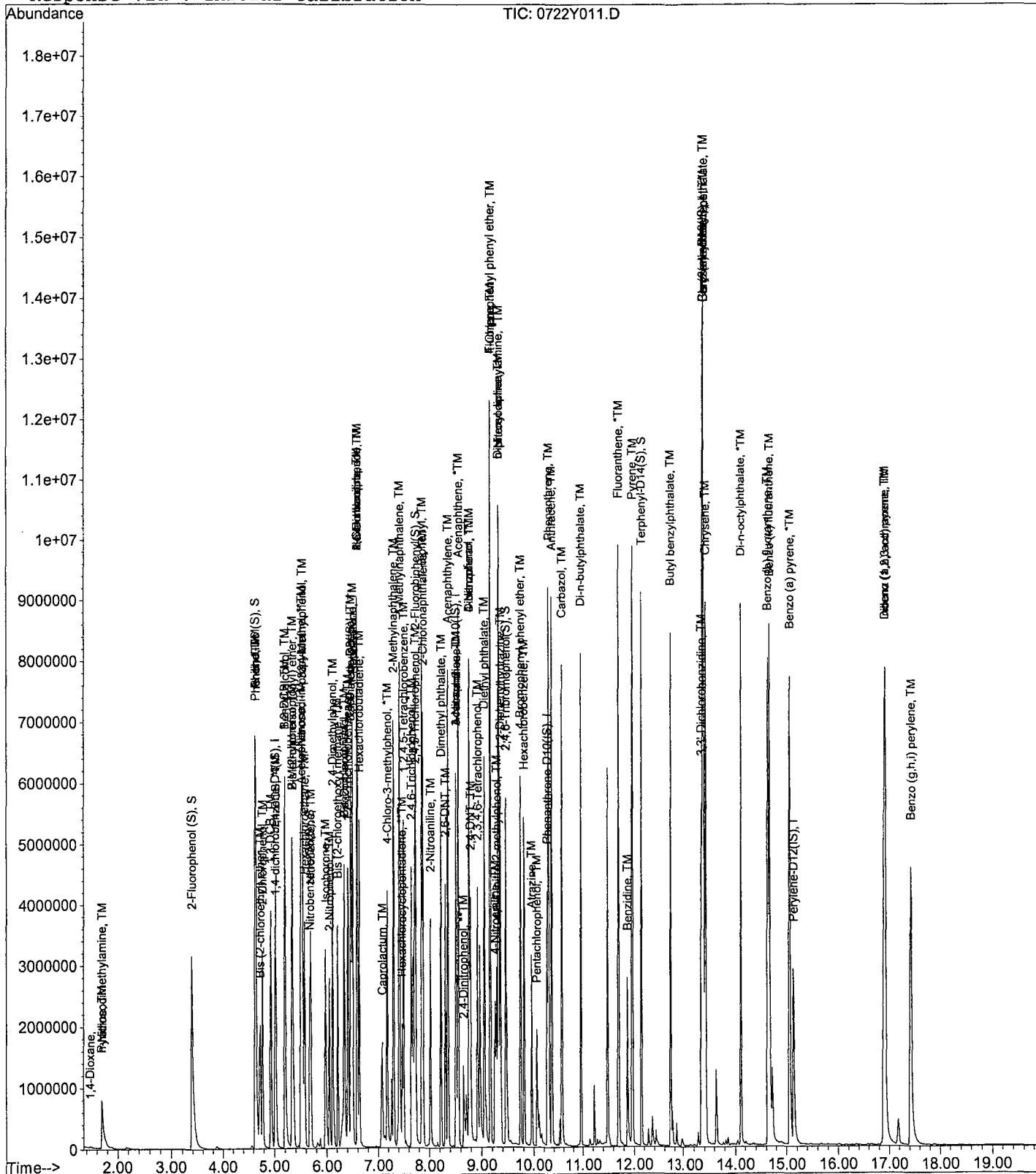
Data File : M:\YODA\DATA\Y190722\0722Y011.D
 Acq On : 22 Jul 19 17:45
 Sample : 100ug/ml 8270 07/12/19
 Misc :

Vial: 11
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:47 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration



Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/22/19
Instrument: Yoda
Initial Cal. Date: 07/22/19
Data File: 0722Y012.D

		Compound	MEAN	CCRF	%D	%Drift
1		1,4-Dioxane	0.1026	0.1187	16	
2	TM	n-Nitrosodimethylamine	0.1822	0.1783	2.1	TM
3	TM	Pyridine	0.4491	0.4549	1.3	TM
4	*TM	Phenol	1.834	1.787	2.6	*TM
5	TM	Aniline	1.792	1.766	1.5	TM
6	TM	Bis (2-chloroethyl) ether	0.7838	0.7329	6.5	TM
7	TM	2-Chlorophenol	1.476	1.411	4.4	TM
8	TM	1,3-DCB	1.664	1.602	3.7	TM
9	*TM	1,4-DCB	1.669	1.609	3.6	*TM
10	TM	Benzyl alcohol	0.8153	0.7742	5.0	TM
11	TM	1,2-DCB	1.541	1.489	3.4	TM
12	TM	2-Methylphenol	1.170	1.104	5.7	TM
13	TM	Bis (2-chloroisopropyl) ether	1.229	1.132	7.9	TM
14	TM	Acetophenone	1.734	1.642	5.3	TM
15	TM	3&4-Methylphenol	1.388	1.338	3.6	TM
16	**TM	n-Nitrosodi-n-propylamine	0.8309	0.8000	3.7	**TM
17	TM	Hexachloroethane	0.5589	0.5299	5.2	TM
18	TM	Nitrobenzene	0.3264	0.3093	5.2	TM
19	TM	Isophorone	0.5763	0.5510	4.4	TM
20	*TM	2-Nitrophenol	0.2084	0.2022	3.0	*TM
21	TM	2,4-Dimethylphenol	0.3230	0.3049	5.6	TM
22	TM	Benzoic acid	0.2059	0.2204	7.0	TM
23	TM	Bis (2-chloroethoxy) methane	0.3785	0.3473	8.2	TM
24	*TM	2,4-Dichlorophenol	0.3080	0.2921	5.2	*TM
25	TM	1,2,4-Trichlorobenzene	0.3410	0.3179	6.8	TM
26	TM	3,4-Dimethylphenol	0.4139	0.3814	7.9	TM
27	TM	Naphthalene	1.039	0.9689	6.7	TM
28	TM	4-Chloroaniline	0.3876	0.3645	6.0	TM
29	TM	2,6-Dichlorophenol	0.2912	0.2685	7.8	TM
30	TM	Hexachloropropene	0.1918	0.1871	2.5	TM
31	*TM	Hexachlorobutadiene	0.1873	0.1766	5.7	*TM
32	TM	Caprolactam	0.1198	0.1123	6.3	TM
33	*TM	4-Chloro-3-methylphenol	0.2988	0.2816	5.8	*TM
34	TM	2-Methylnaphthalene	0.6972	0.6480	7.0	TM
35	TM	1-Methylnaphthalene	0.7198	0.6567	8.8	TM
36	**TMQ	Hexachlorocyclopentadiene	0.1159	0.1025	12	**TMQ 1.2
37	TM	1,2,4,5-Tetrachlorobenzene	0.6219	0.5683	8.6	TM
38	*TM	2,4,6-Trichlorophenol	0.3871	0.3643	5.9	*TM
39	TM	2,4,5-Trichlorophenol	0.4107	0.3840	6.5	TM
40	TM	1,1'-Biphenyl	1.681	1.532	8.9	TM

Average

5.8

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 07/22/19
Instrument: Yoda
Cal. Date: 07/22/19
Data File: 0722Y012.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	2-Chloronaphthalene	1.294	1.222	5.6	TM
42	TM	2-Nitroaniline	0.3096	0.2944	4.9	TM
43	TM	Dimethyl phthalate	1.508	1.381	8.4	TM
44	TM	2,6-DNT	0.3603	0.3483	3.3	TM
45	TM	Acenaphthylene	2.021	1.901	6.0	TM
46	TM	3-Nitroaniline	0.3743	0.3600	3.8	TM
47	*TM	Acenaphthene	1.280	1.177	8.0	*TM
48	**TML	2,4-Dinitrophenol	0.1738	0.1616	7.0	**TML 6.8
49	**TM	4-Nitrophenol	0.1595	0.1551	2.8	**TM
50	TM	Dibenzofuran	1.865	1.708	8.4	TM
51	TM	2,4-DNT	0.4806	0.4686	2.5	TM
52	TM	2,3,4,6-Tetrachlorophenol	0.3190	0.3176	0.44	TM
53	TM	Diethyl phthalate	1.419	1.301	8.4	TM
54	TM	4-Chlorophenyl phenyl ether	0.7497	0.6828	8.9	TM
55	TM	Fluorene	1.447	1.338	7.6	TM
56	TM	4-Nitroaniline	0.3596	0.3331	7.3	TM
57	TM	4,6-Dinitro-2-methylphenol	0.1469	0.1431	2.6	TM
58	TM	Diphenyl amine	0.5749	0.5329	7.3	TM
59	*TM	n-Nitrosodiphenylamine	0.5749	0.5329	7.3	*TM
60	TM	1,2-Diphenylhydrazine	0.6498	0.6635	2.1	TM
61	TM	4-Bromophenyl phenyl ether	0.2297	0.2121	7.7	TM
62	TM	Hexachlorobenzene	0.2387	0.2309	3.3	TM
63	TM	Atrazine	0.2137	0.2028	5.1	TM
64	*TM	Pentachlorophenol	0.0772	0.0724	6.3	*TM
65	TM	Phenanthrene	1.102	1.044	5.3	TM
66	TM	Anthracene	1.132	1.049	7.4	TM
67	TM	Carbazol	1.052	0.9902	5.9	TM
68	TM	Di-n-butylphthalate	1.181	1.128	4.4	TM
69	*TM	Fluoranthene	1.207	1.152	4.6	*TM
70	TM	Benzidine	0.3585	0.4215	18	TM
71	TM	Pyrene	1.414	1.323	6.4	TM
72	TM	Butyl benzylphthalate	0.5899	0.5689	3.6	TM
73	TM	3,3'-Dichlorobenzidine	0.4083	0.4447	8.9	TM
74	TM	Benz (a) anthracene	1.302	1.197	8.1	TM
75	TM	Bis (2-ethylhexyl) phthalate	0.7295	0.6984	4.3	TM
76	TM	Chrysene	1.285	1.225	4.7	TM
77	*TM	Di-n-octylphthalate	1.345	1.322	1.8	*TM
78	TM	Benzo (b) fluoranthene	1.211	1.168	3.6	TM
79	TM	Benzo (k) fluoranthene	1.200	1.158	3.5	TM
80	*TM	Benzo (a) pyrene	1.135	1.093	3.7	*TM

Average 5.7

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 07/22/19
Instrument: Yoda
Cal. Date: 07/22/19
Data File: 0722Y012.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Indeno (1,2,3-cd) pyrene	1.300	1.261	3.0	TM
82	TM	Dibenz (a,h) anthracene	1.119	1.096	2.1	TM
83	TM	Benzo (g,h,i) perylene	1.026	0.9709	5.4	TM
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120						

Average

3.5

Data File : M:\YODA\DATA\Y190722\0722Y012.D
 Acq On : 22 Jul 19 18:13
 Sample : SS 8270 07/12/19
 Misc :

Vial: 12
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:51 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.01	152	400759	40.00000	ppb	0.00
21) Naphthalene-D8 (IS)	6.48	136	1606893	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	873084	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.26	188	1720103	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.38	240	1524774	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.14	264	1641605	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	0.00	112	0	0.00000	ppb	
Spiked Amount	200.000					
Recovery						0.000%
6) Phenol-D6 (S)	0.00	99	0	0.00000	ppb	
Spiked Amount	200.000					
Recovery						0.000%
22) Nitrobenzene-D5 (S)	5.58	82	51484	4.12079	ppb	-0.09
Spiked Amount	100.000					
Recovery						4.121%
46) 2-Fluorobiphenyl (S)	7.73	172	1647	0.05373	ppb	0.00
Spiked Amount	100.000					
Recovery						0.054%
64) 2,4,6-Tribromophenol (S)	9.47	330	581	0.12348	ppb	0.02
Spiked Amount	200.000					
Recovery						0.062%
82) Terphenyl-D14 (S)	12.15	244	3446	0.09011	ppb	0.00
Spiked Amount	100.000					
Recovery						0.090%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.48	58	5945	5.78574		66
3) n-Nitrosodimethylamine	1.70	42	89331	48.93887	ppb	98
4) Pyridine	1.70	79	227893	50.64892	ppb	99
7) Phenol	4.65	94	895203	48.70855	ppb	86
8) Aniline	4.64	93	884610	49.27417	ppb	# 87
9) Bis (2-chloroethyl) ether	4.71	63	367166	46.75600	ppb	97
10) 2-Chlorophenol	4.78	128	707024	47.81847	ppb	98
11) 1,3-DCB	4.94	146	802470	48.13171	ppb	99
12) 1,4-DCB	5.03	146	805820	48.19554	ppb	100
13) Benzyl alcohol	5.20	108	387858	47.48240	ppb	96
14) 1,2-DCB	5.20	146	745839	48.30130	ppb	99
15) 2-Methylphenol	5.33	107	552983	47.16001	ppb	98
16) Bis (2-chloroisopropyl) et	5.33	45	567166	46.06069	ppb	# 73
17) Acetophenone	5.49	105	822363	47.32797	ppb	99
18) 3&4-Methylphenol	5.52	107	1340449	96.39021	ppb	99
19) n-Nitrosodi-n-propylamine	5.49	70	400775	48.14100	ppb	99
20) Hexachloroethane	5.58	117	265451	47.40694	ppb	97
23) Nitrobenzene	5.69	77	621234	47.38159	ppb	97
24) Isophorone	5.97	82	1106827	47.81098	ppb	93
25) 2-Nitrophenol	6.05	139	406118	48.50955	ppb	94
26) 2,4-Dimethylphenol	6.11	122	612378	47.20043	ppb	100
27) Benzoic acid	6.31	105	442622	53.50978	ppb	97
28) Bis (2-chloroethoxy) metha	6.22	93	697630	45.87849	ppb	98
29) 2,4-Dichlorophenol	6.34	162	586634	47.41683	ppb	98
30) 1,2,4-Trichlorobenzene	6.41	180	638582	46.61372	ppb	98
31) 3,4-Dimethylphenol	6.46	107	766042	46.07320	ppb	98
32) Naphthalene	6.50	128	1946116	46.64261	ppb	99
33) 4-Chloroaniline	6.59	127	732101	47.01205	ppb	95
34) 2,6-Dichlorophenol	6.59	162	539232	46.09079	ppb	98
35) Hexachloropropene	6.59	213	375869	48.77062	ppb	98
36) Hexachlorobutadiene	6.62	225	354790	47.16110	ppb	100
37) Caprolactum	7.02	55	225543	46.84997	ppb	99

(#) = qualifier out of range (m) = manual integration
 0722Y012.D Y0722NC.M Tue Jul 23 09:13:08 2019

Data File : M:\YODA\DATA\Y190722\0722Y012.D
 Acq On : 22 Jul 19 18:13
 Sample : SS 8270 07/12/19
 Misc :

Vial: 12
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:51 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	565579	47.11704	ppb	89
39) 2-Methylnaphthalene	7.30	142	1301674	46.47777	ppb	99
40) 1-Methylnaphthalene	7.41	142	1319004	45.61343	ppb	99
42) Hexachlorocyclopentadiene	7.47	237	111916	49.38448	ppb	100
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	620199	45.68722	ppb	98
44) 2,4,6-Trichlorophenol	7.66	196	397569	47.05919	ppb	98
45) 2,4,5-Trichlorophenol	7.71	196	419125	46.74915	ppb	99
47) 1,1'-Biphenyl	7.85	154	1671676	45.57011	ppb	99
48) 2-Chloronaphthalene	7.88	162	1333244	47.18645	ppb	97
49) 2-Nitroaniline	8.02	65	321291	47.53884	ppb	88
50) Dimethyl phthalate	8.22	163	1507514	45.80835	ppb	99
51) 2,6-DNT	8.31	165	380110	48.33379	ppb	88
52) Acenaphthylene	8.35	152	2074200	47.01785	ppb	100
53) 3-Nitroaniline	8.51	138	392837	48.07868	ppb	90
54) Acenaphthene	8.56	154	1284740	45.99698	ppb	99
55) 2,4-Dinitrophenol	8.66	184	176322m	46.61220	ppb	91
56) 4-Nitrophenol	8.76	65	169223	48.59429	ppb	97
57) Dibenzofuran	8.76	168	1864363	45.80467	ppb	96
58) 2,4-DNT	8.79	165	511462	48.75236	ppb	87
59) 2,3,4,6-Tetrachlorophenol	8.93	232	346621	49.77939	ppb	96
60) Diethyl phthalate	9.05	149	1419515	45.82227	ppb	96
61) 4-Chlorophenyl phenyl ethe	9.16	204	745214	45.54304	ppb	94
62) Fluorene	9.17	166	1459708	46.20465	ppb	98
63) 4-Nitroaniline	9.23	138	363577	46.32704	ppb	96
66) 4,6-Dinitro-2-methylphenol	9.27	198	307695	48.70687	ppb	93
67) Diphenyl amine	9.32	169	2291433	92.68835	ppb	99
68) n-Nitrosodiphenylamine	9.32	169	2291433	92.68835	ppb	99
69) 1,2-Diphenylhydrazine	9.35	77	1426711	51.05555	ppb	91
70) 4-Bromophenyl phenyl ether	9.73	248	456026	46.16052	ppb	93
71) Hexachlorobenzene	9.81	284	496373	48.35974	ppb	# 87
72) Atrazine	9.95	200	218048	23.72858	ppb	98
73) Pentachlorophenol	10.06	266	155617	46.85052	ppb	98
74) Phenanthrene	10.29	178	2244381	47.34255	ppb	100
75) Anthracene	10.36	178	2255263	46.31009	ppb	100
76) Carbazol	10.56	167	2129002	47.04663	ppb	98
77) Di-n-butylphthalate	10.96	149	2425520	47.77655	ppb	99
78) Fluoranthene	11.69	202	2477572	47.72253	ppb	97
80) Benzidine	11.87	184	803378	58.78756	ppb	99
81) Pyrene	11.96	202	2521631	46.79629	ppb	100
83) Butyl benzylphthalate	12.71	149	1084346	48.22370	ppb	90
84) 3,3'-Dichlorobenzidine	13.35	252	847524	54.45254	ppb	99
85) Benz (a) anthracene	13.37	228	2281534	45.95399	ppb	99
86) Bis (2-ethylhexyl) phthala	13.37	149	1331051	47.86706	ppb	# 95
87) Chrysene	13.42	228	2334506	47.65919	ppb	100
88) Di-n-octylphthalate	14.11	149	2519215	49.12065	ppb	# 95
90) Benzo (b) fluoranthene	14.63	252	2396061	48.19985	ppb	99
91) Benzo (k) fluoranthene	14.66	252	2375891	48.23090	ppb	99
92) Benzo (a) pyrene	15.06	252	2241812	48.13736	ppb	100
93) Indeno (1,2,3-cd) pyrene	16.89	276	2587882	48.48869	ppb	100
94) Dibenz (a,h) anthracene	16.90	278	2248596	48.96689	ppb	99
95) Benzo (g,h,i) perylene	17.41	276	1992268	47.30672	ppb	98

Quantitation Report

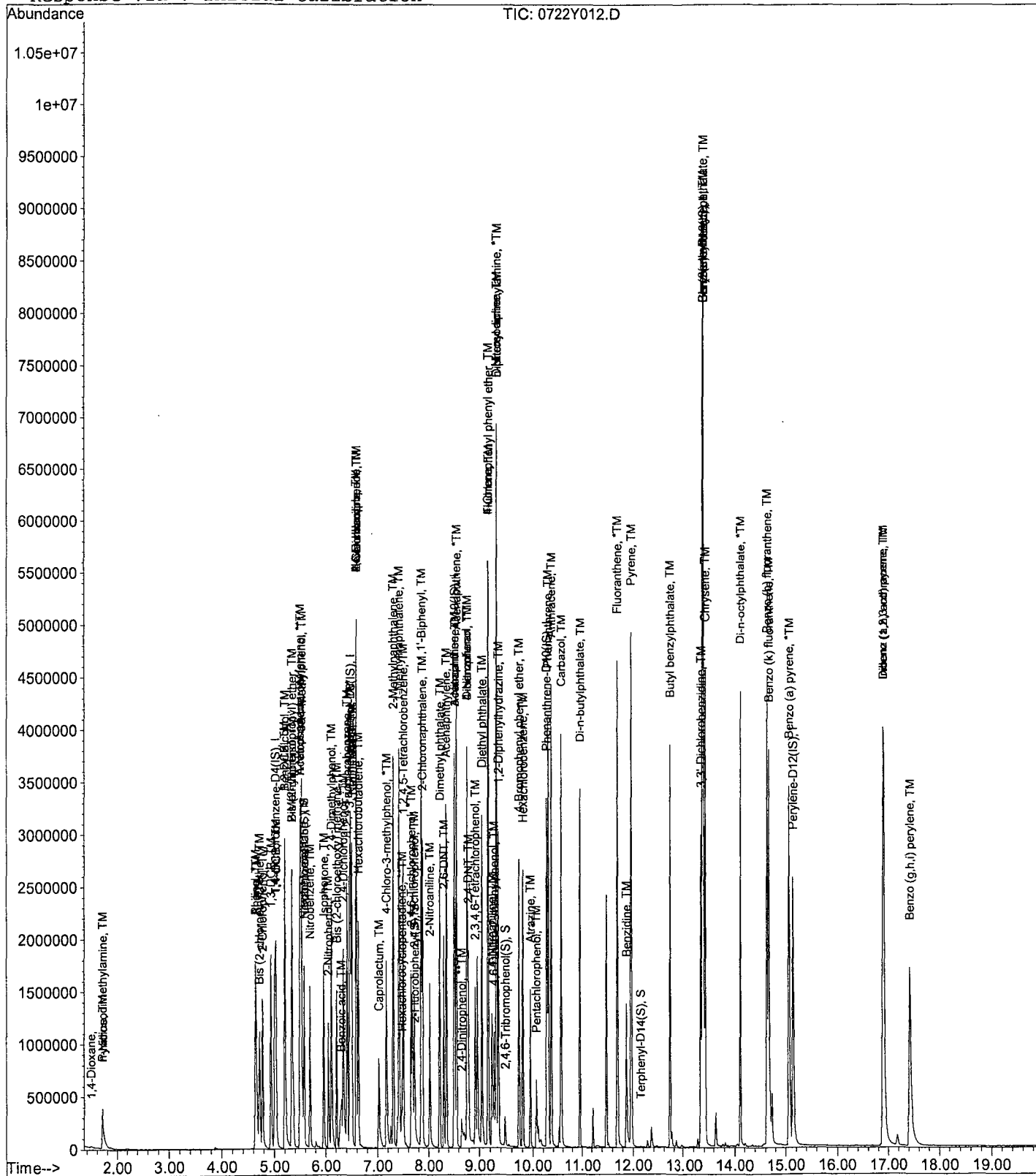
Data File : M:\YODA\DATA\Y190722\0722Y012.D
Acq On : 22 Jul 19 18:13
Sample : SS 8270 07/12/19
Misc :

Vial: 12
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 23 8:51 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/29/19
Instrument: Yoda
Initial Cal. Date: 07/22/19
Data File: 0722Y121.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I
2		1,4-Dioxane	0.1026	0.1734	69	*
3	TM	n-Nitrosodimethylamine	0.1822	0.2338	28	TM *
4	TM	Pyridine	0.4491	0.6601	47	TM *
5	S	2-Fluorophenol (S)	1.326	1.249	5.8	S
6	S	Phenol-D6 (S)	1.394	1.314	5.7	S
7	*TM	Phenol	1.834	1.735	5.4	*TM
8	TM	Aniline	1.792	1.658	7.5	TM
9	TM	Bis (2-chloroethyl) ether	0.7838	0.6730	14	TM
10	TM	2-Chlorophenol	1.476	1.443	2.2	TM
11	TM	1,3-DCB	1.664	1.634	1.8	TM
12	*TM	1,4-DCB	1.669	1.631	2.3	*TM
13	TM	Benzyl alcohol	0.8153	0.7970	2.2	TM
14	TM	1,2-DCB	1.541	1.500	2.7	TM
15	TM	2-Methylphenol	1.170	1.113	4.9	TM
16	TM	Bis (2-chloroisopropyl) ether	1.229	0.9786	20	TM
17	TM	Acetophenone	1.734	1.644	5.2	TM
18	TM	3&4-Methylphenol	1.388	1.328	4.3	TM
19	**TM	n-Nitrosodi-n-propylamine	0.8309	0.7746	6.8	**TM
20	TM	Hexachloroethane	0.5589	0.5302	5.1	TM
21	I	Napthalene-D8(IS)	ISTD			I
22	S	Nitrobenzene-D5(S)	0.3110	0.2826	9.1	S
23	TM	Nitrobenzene	0.3264	0.3052	6.5	TM
24	TM	Isophorone	0.5763	0.5444	5.5	TM
25	*TM	2-Nitrophenol	0.2084	0.2211	6.1	*TM
26	TM	2,4-Dimethylphenol	0.3230	0.3207	0.69	TM
27	TM	Benzoic acid	0.2059	0.2347	14	TM
28	TM	Bis (2-chloroethoxy) methane	0.3785	0.3547	6.3	TM
29	*TM	2,4-Dichlorophenol	0.3080	0.3108	0.91	*TM
30	TM	1,2,4-Trichlorobenzene	0.3410	0.3445	1.0	TM
31	TM	3,4-Dimethylphenol	0.4139	0.4127	0.28	TM
32	TM	Napthalene	1.039	1.016	2.2	TM
33	TM	4-Chloroaniline	0.3876	0.3761	3.0	TM
34	TM	2,6-Dichlorophenol	0.2912	0.2886	0.92	TM
35	TM	Hexachloropropene	0.1918	0.2058	7.3	TM
36	*TM	Hexachlorobutadiene	0.1873	0.1953	4.3	*TM
37	TM	Caprolactum	0.1198	0.1077	10	TM
38	*TM	4-Chloro-3-methylphenol	0.2988	0.3024	1.2	*TM
39	TM	2-Methylnapthalene	0.6972	0.6895	1.1	TM
40	TM	1-Methylnapthalene	0.7198	0.6994	2.8	TM

Average

8.5

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 07/29/19
Instrument: Yoda
Cal. Date: 07/22/19
Data File: 0722Y121.D

		Compound	MEAN	CCRF	%D	%Drift
41	I	Acenaphthene-D10(IS)	ISTD			I
42	**TMQ	Hexachlorocyclopentadiene	0.1159	0.1040	10	**TMQ 0.46
43	TM	1,2,4,5-Tetrachlorobenzene	0.6219	0.6377	2.5	TM
44	*TM	2,4,6-Trichlorophenol	0.3871	0.4047	4.6	*TM
45	TM	2,4,5-Trichlorophenol	0.4107	0.4209	2.5	TM
46	S	2-Fluorobiphenyl(S)	1.404	1.349	4.0	S
47	TM	1,1'-Biphenyl	1.681	1.621	3.5	TM
48	TM	2-Chloronaphthalene	1.294	1.266	2.2	TM
49	TM	2-Nitroaniline	0.3096	0.2844	8.1	TM
50	TM	Dimethyl phthalate	1.508	1.495	0.86	TM
51	TM	2,6-DNT	0.3603	0.3686	2.3	TM
52	TM	Acenaphthylene	2.021	1.970	2.5	TM
53	TM	3-Nitroaniline	0.3743	0.3759	0.41	TM
54	*TM	Acenaphthene	1.280	1.231	3.8	*TM
55	**TML	2,4-Dinitrophenol	0.1738	0.1424	18	**TML 15
56	**TM	4-Nitrophenol	0.1595	0.1578	1.1	**TM
57	TM	Dibenzofuran	1.865	1.831	1.8	TM
58	TM	2,4-DNT	0.4806	0.5004	4.1	TM
59	TM	2,3,4,6-Tetrachlorophenol	0.3190	0.3527	11	TM
60	TM	Diethyl phthalate	1.419	1.395	1.7	TM
61	TM	4-Chlorophenyl phenyl ether	0.7497	0.7290	2.8	TM
62	TM	Fluorene	1.447	1.377	4.9	TM
63	TM	4-Nitroaniline	0.3596	0.3620	0.68	TM
64	S	2,4,6-Tribromophenol(S)	0.2156	0.2532	17	S
65	I	Phenanthrene-D10(IS)	ISTD			I
66	TM	4,6-Dinitro-2-methylphenol	0.1469	0.1593	8.5	TM
67	TM	Diphenyl amine	0.5749	0.5558	3.3	TM
68	*TM	n-Nitrosodiphenylamine	0.5749	0.5558	3.3	*TM
69	TM	1,2-Diphenylhydrazine	0.6498	0.6244	3.9	TM
70	TM	4-Bromophenyl phenyl ether	0.2297	0.2418	5.3	TM
71	TM	Hexachlorobenzene	0.2387	0.2620	9.8	TM
72	TM	Atrazine	0.2137	0.2242	4.9	TM
73	*TM	Pentachlorophenol	0.0772	0.1024	33	*TM
74	TM	Phenanthrene	1.102	1.061	3.8	TM
75	TM	Anthracene	1.132	1.125	0.68	TM
76	TM	Carbazol	1.052	1.036	1.5	TM
77	TM	Di-n-butylphthalate	1.181	1.199	1.6	TM
78	*TM	Fluoranthene	1.207	1.213	0.45	*TM
79	I	Chrysene-D12(IS)	ISTD			I
80	TM	Benzidine	0.3585	0.3265	8.9	TM

Average

5.4

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 07/29/19
Instrument: Yoda
Cal. Date: 07/22/19
Data File: 0722Y121.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Pyrene	1.414	1.352	4.3	TM
82	S	Terphenyl-D14(S)	1.003	0.9648	3.8	S
83	TM	Butyl benzylphthalate	0.5899	0.5861	0.65	TM
84	TM	3,3'-Dichlorobenzidine	0.4083	0.4441	8.8	TM
85	TM	Benz (a) anthracene	1.302	1.236	5.1	TM
86	TM	Bis (2-ethylhexyl) phthalate	0.7295	0.7253	0.57	TM
87	TM	Chrysene	1.285	1.288	0.23	TM
88	*TM	Di-n-octylphthalate	1.345	1.394	3.6	*TM
89	I	Perylene-D12(IS)	ISTD			I
90	TM	Benzo (b) fluoranthene	1.211	1.182	2.4	TM
91	TM	Benzo (k) fluoranthene	1.200	1.160	3.3	TM
92	*TM	Benzo (a) pyrene	1.135	1.135	0.03	*TM
93	TM	Indeno (1,2,3-cd) pyrene	1.300	1.318	1.3	TM
94	TM	Dibenz (a,h) anthracene	1.119	1.168	4.4	TM
95	TM	Benzo (g,h,i) perylene	1.026	1.067	4.0	TM
96						
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120						

Average

3.0

Data File : M:\YODA\DATA\Y190722\0722Y121.D
 Acq On : 29 Jul 19 10:45
 Sample : 50ug/ml 8270 07/12/19
 Misc :

Vial: 21
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 29 11:15 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.01	152	283867	40.00000	ppb	0.00
21) Naphthalene-D8 (IS)	6.49	136	1092758	40.00000	ppb	0.01
41) Acenaphthene-D10 (IS)	8.53	164	603872	40.00000	ppb	0.01
65) Phenanthrene-D10 (IS)	10.28	188	1210711	40.00000	ppb	0.01
79) Chrysene-D12 (IS)	13.40	240	1108196	40.00000	ppb	0.01
89) Perylene-D12 (IS)	15.15	264	1284644	40.00000	ppb	0.02

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.40	112	886181	94.17646	ppb	0.01
Spiked Amount 200.000			Recovery =	47.088%		
6) Phenol-D6 (S)	4.64	99	932171	94.25818	ppb	0.01
Spiked Amount 200.000			Recovery =	47.129%		
22) Nitrobenzene-D5 (S)	5.68	82	386008	45.43263	ppb	0.01
Spiked Amount 100.000			Recovery =	45.433%		
46) 2-Fluorobiphenyl (S)	7.74	172	1018170	48.01963	ppb	0.01
Spiked Amount 100.000			Recovery =	48.020%		
64) 2,4,6-Tribromophenol (S)	9.47	330	382274	117.46067	ppb	0.01
Spiked Amount 200.000			Recovery =	58.731%		
82) Terphenyl-D14 (S)	12.15	244	1336527	48.08490	ppb	0.01
Spiked Amount 100.000			Recovery =	48.085%		

Target Compounds

					Qvalue
2) 1,4-Dioxane	1.48	58	6153	8.45400	64
3) n-Nitrosodimethylamine	1.70	42	82966	64.16826	ppb 95
4) Pyridine	1.71	79	234234	73.49495	ppb 98
7) Phenol	4.66	94	615633	47.29051	ppb 88
8) Aniline	4.65	93	588300	46.26309	ppb 95
9) Bis (2-chloroethyl) ether	4.73	63	238806	42.93273	ppb 87
10) 2-Chlorophenol	4.78	128	511987	48.88649	ppb 99
11) 1,3-DCB	4.95	146	579655	49.08406	ppb 99
12) 1,4-DCB	5.04	146	578717	48.86562	ppb 100
13) Benzyl alcohol	5.21	108	282809	48.87891	ppb 99
14) 1,2-DCB	5.21	146	532120	48.65099	ppb 99
15) 2-Methylphenol	5.35	107	394868	47.54254	ppb 98
16) Bis (2-chloroisopropyl) et	5.34	45	347247	39.81320	ppb # 85
17) Acetophenone	5.51	105	583364	47.39826	ppb 99
18) 3&4-Methylphenol	5.53	107	942764	95.70927	ppb 98
19) n-Nitrosodi-n-propylamine	5.51	70	274872	46.61367	ppb 96
20) Hexachloroethane	5.58	117	188117	47.43009	ppb 87
23) Nitrobenzene	5.70	77	416886	46.75571	ppb 96
24) Isophorone	5.97	82	743655	47.23701	ppb 97
25) 2-Nitrophenol	6.06	139	301965	53.03891	ppb 97
26) 2,4-Dimethylphenol	6.13	122	438108	49.65586	ppb 98
27) Benzoic acid	6.32	105	320624	56.99794	ppb 98
28) Bis (2-chloroethoxy) metha	6.22	93	484545	46.85771	ppb 99
29) 2,4-Dichlorophenol	6.35	162	424514	50.45687	ppb 99
30) 1,2,4-Trichlorobenzene	6.42	180	470513	50.50468	ppb 99
31) 3,4-Dimethylphenol	6.47	107	563746	49.85884	ppb 98
32) Naphthalene	6.51	128	1387782	48.91008	ppb 100
33) 4-Chloroaniline	6.60	127	513775	48.51478	ppb # 94
34) 2,6-Dichlorophenol	6.60	162	394153	49.54117	ppb 100
35) Hexachloropropene	6.60	213	281149	53.64401	ppb 98
36) Hexachlorobutadiene	6.64	225	266792	52.14928	ppb 99
37) Caprolactum	7.05	55	147117	44.93718	ppb # 87

(#) = qualifier out of range (m) = manual integration

Data File : M:\YODA\DATA\Y190722\0722Y121.D
 Acq On : 29 Jul 19 10:45
 Sample : 50ug/ml 8270 07/12/19
 Misc :

Vial: 21
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 29 11:15 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.19	107	413030	50.59752	ppb	93
39) 2-Methylnaphthalene	7.32	142	941821	49.45092	ppb	99
40) 1-Methylnaphthalene	7.43	142	955310	48.57960	ppb	98
42) Hexachlorocyclopentadiene	7.48	237	78526	49.77024	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.51	216	481349	51.26664	ppb	99
44) 2,4,6-Trichlorophenol	7.67	196	305463	52.27592	ppb	99
45) 2,4,5-Trichlorophenol	7.72	196	317694	51.23306	ppb	98
47) 1,1'-Biphenyl	7.86	154	1223619	48.22645	ppb	99
48) 2-Chloronaphthalene	7.88	162	955950	48.91635	ppb	98
49) 2-Nitroaniline	8.03	65	214681	45.92559	ppb	99
50) Dimethyl phthalate	8.23	163	1128341	49.57181	ppb	100
51) 2,6-DNT	8.32	165	278220	51.14946	ppb	99
52) Acenaphthylene	8.36	152	1486734	48.72553	ppb	100
53) 3-Nitroaniline	8.52	138	283710	50.20257	ppb	# 86
54) Acenaphthene	8.57	154	929121	48.09473	ppb	99
55) 2,4-Dinitrophenol	8.68	184	107505	42.66696	ppb	97
56) 4-Nitrophenol	8.78	65	119119	49.45589	ppb	91
57) Dibenzofuran	8.77	168	1381955	49.08901	ppb	99
58) 2,4-DNT	8.80	165	377760	52.06063	ppb	83
59) 2,3,4,6-Tetrachlorophenol	8.94	232	266194	55.27186	ppb	93
60) Diethyl phthalate	9.06	149	1052812	49.13587	ppb	95
61) 4-Chlorophenyl phenyl ethe	9.17	204	550294	48.62358	ppb	96
62) Fluorene	9.17	166	1039376	47.56675	ppb	99
63) 4-Nitroaniline	9.26	138	273249	50.33938	ppb	90
66) 4,6-Dinitro-2-methylphenol	9.28	198	241128	54.22897	ppb	95
67) Diphenyl amine	9.33	169	1682290	96.67915	ppb	100
68) n-Nitrosodiphenylamine	9.33	169	1682290	96.67915	ppb	100
69) 1,2-Diphenylhydrazine	9.37	77	945014	48.04621	ppb	# 80
70) 4-Bromophenyl phenyl ether	9.75	248	366005	52.63590	ppb	98
71) Hexachlorobenzene	9.82	284	396524	54.88571	ppb	# 82
72) Atrazine	9.96	200	169615	26.22393	ppb	98
73) Pentachlorophenol	10.07	266	155023	66.30823	ppb	100
74) Phenanthrene	10.30	178	1605483	48.11436	ppb	99
75) Anthracene	10.37	178	1702294	49.66232	ppb	100
76) Carbazol	10.57	167	1568121	49.23183	ppb	98
77) Di-n-butylphthalate	10.96	149	1814655	50.78295	ppb	100
78) Fluoranthene	11.71	202	1835268	50.22392	ppb	99
80) Benzidine	11.88	184	452214	45.53008	ppb	98
81) Pyrene	11.98	202	1873485	47.83756	ppb	100
83) Butyl benzylphthalate	12.73	149	811844	49.67686	ppb	98
84) 3,3'-Dichlorobenzidine	13.36	252	615207	54.38464	ppb	# 97
85) Benz (a) anthracene	13.39	228	1712031	47.44569	ppb	99
86) Bis (2-ethylhexyl) phthala	13.39	149	1004768	49.71607	ppb	99
87) Chrysene	13.42	228	1784095	50.11394	ppb	99
88) Di-n-octylphthalate	14.12	149	1931097	51.80741	ppb	99
90) Benzo (b) fluoranthene	14.64	252	1898737	48.80884	ppb	98
91) Benzo (k) fluoranthene	14.68	252	1863280	48.33512	ppb	98
92) Benzo (a) pyrene	15.08	252	1822732	50.01402	ppb	98
93) Indeno (1,2,3-cd) pyrene	16.91	276	2115830	50.65970	ppb	96
94) Dibenz (a,h) anthracene	16.93	278	1875704	52.19648	ppb	97
95) Benzo (g,h,i) perylene	17.44	276	1713092	51.98065	ppb	98

Quantitation Report

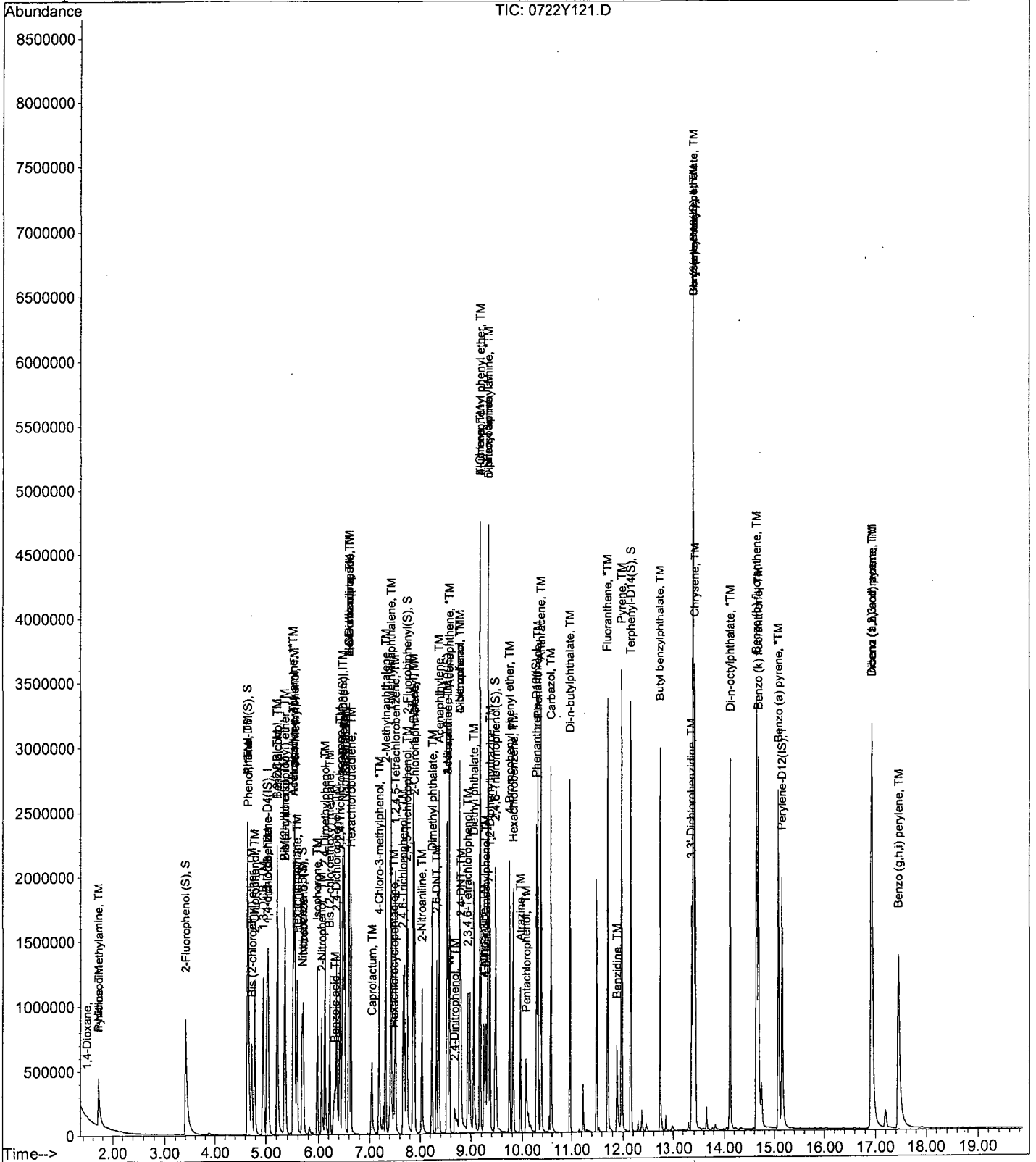
Data File : M:\YODA\DATA\Y190722\0722Y121.D
Acq On : 29 Jul 19 10:45
Sample : 50ug/ml 8270 07/12/19
Misc :

Vial: 21
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 29 11:15 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/29/19
Instrument: Yoda
Initial Cal. Date: 07/22/19
Data File: 0722Y141.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I
2		1,4-Dioxane	0.1026	0.1084	5.7	
3	TM	n-Nitrosodimethylamine	0.1822	0.2578	41	TM
4	TM	Pyridine	0.4491	0.6255	39	TM
5	S	2-Fluorophenol (S)	1.326	1.261	4.9	S
6	S	Phenol-D6 (S)	1.394	1.329	4.6	S
7	*TM	Phenol	1.834	1.744	4.9	*TM
8	TM	Aniline	1.792	1.608	10	TM
9	TM	Bis (2-chloroethyl) ether	0.7838	0.6928	12	TM
10	TM	2-Chlorophenol	1.476	1.447	1.9	TM
11	TM	1,3-DCB	1.664	1.601	3.8	TM
12	*TM	1,4-DCB	1.669	1.631	2.3	*TM
13	TM	Benzyl alcohol	0.8153	0.8201	0.59	TM
14	TM	1,2-DCB	1.541	1.505	2.3	TM
15	TM	2-Methylphenol	1.170	1.140	2.6	TM
16	TM	Bis (2-chloroisopropyl) ether	1.229	0.9871	20	TM
17	TM	Acetophenone	1.734	1.675	3.4	TM
18	TM	3&4-Methylphenol	1.388	1.366	1.6	TM
19	**TM	n-Nitrosodi-n-propylamine	0.8309	0.7985	3.9	**TM
20	TM	Hexachloroethane	0.5589	0.5202	6.9	TM
21	I	Napthalene-D8(IS)	ISTD			I
22	S	Nitrobenzene-D5(S)	0.3110	0.2853	8.3	S
23	TM	Nitrobenzene	0.3264	0.3089	5.4	TM
24	TM	Isophorone	0.5763	0.5613	2.6	TM
25	*TM	2-Nitrophenol	0.2084	0.2235	7.3	*TM
26	TM	2,4-Dimethylphenol	0.3230	0.3301	2.2	TM
27	TM	Benzoic acid	0.2059	0.1910	7.2	TM
28	TM	Bis (2-chloroethoxy) methane	0.3785	0.3610	4.6	TM
29	*TM	2,4-Dichlorophenol	0.3080	0.3209	4.2	*TM
30	TM	1,2,4-Trichlorobenzene	0.3410	0.3457	1.4	TM
31	TM	3,4-Dimethylphenol	0.4139	0.4207	1.6	TM
32	TM	Naphthalene	1.039	1.032	0.66	TM
33	TM	4-Chloroaniline	0.3876	0.3734	3.7	TM
34	TM	2,6-Dichlorophenol	0.2912	0.2909	0.10	TM
35	TM	Hexachloropropene	0.1918	0.2036	6.1	TM
36	*TM	Hexachlorobutadiene	0.1873	0.1982	5.9	*TM
37	TM	Caprolactum	0.1198	0.1107	7.7	TM
38	*TM	4-Chloro-3-methylphenol	0.2988	0.3161	5.8	*TM
39	TM	2-Methylnaphthalene	0.6972	0.7044	1.0	TM
40	TM	1-Methylnaphthalene	0.7198	0.7159	0.55	TM

Average

6.5

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 07/29/19
Instrument: Yoda
Cal. Date: 07/22/19
Data File: 0722Y141.D

		Compound	MEAN	CCRF	%D	%Drift
41	I	Acenaphthene-D10(IS)	ISTD			I
42	**TMQ	Hexachlorocyclopentadiene	0.1159	0.1077	7.1	**TMQ 1.4
43	TM	1,2,4,5-Tetrachlorobenzene	0.6219	0.6388	2.7	TM
44	*TM	2,4,6-Trichlorophenol	0.3871	0.4114	6.3	*TM
45	TM	2,4,5-Trichlorophenol	0.4107	0.4289	4.4	TM
46	S	2-Fluorobiphenyl(S)	1.404	1.376	2.0	S
47	TM	1,1'-Biphenyl	1.681	1.629	3.1	TM
48	TM	2-Chloronaphthalene	1.294	1.277	1.3	TM
49	TM	2-Nitroaniline	0.3096	0.2940	5.0	TM
50	TM	Dimethyl phthalate	1.508	1.525	1.2	TM
51	TM	2,6-DNT	0.3603	0.3780	4.9	TM
52	TM	Acenaphthylene	2.021	2.023	0.07	TM
53	TM	3-Nitroaniline	0.3743	0.3815	1.9	TM
54	*TM	Acenaphthene	1.280	1.239	3.2	*TM
55	**TML	2,4-Dinitrophenol	0.1738	0.1879	8.2	**TML 4.1
56	**TM	4-Nitrophenol	0.1595	0.1572	1.5	**TM
57	TM	Dibenzofuran	1.865	1.852	0.67	TM
58	TM	2,4-DNT	0.4806	0.5155	7.3	TM
59	TM	2,3,4,6-Tetrachlorophenol	0.3190	0.3603	13	TM
60	TM	Diethyl phthalate	1.419	1.439	1.4	TM
61	TM	4-Chlorophenyl phenyl ether	0.7497	0.7517	0.27	TM
62	TM	Fluorene	1.447	1.420	1.9	TM
63	TM	4-Nitroaniline	0.3596	0.3835	6.7	TM
64	S	2,4,6-Tribromophenol(S)	0.2156	0.2612	21	S
65	I	Phenanthrene-D10(IS)	ISTD			I
66	TM	4,6-Dinitro-2-methylphenol	0.1469	0.1533	4.3	TM
67	TM	Diphenyl amine	0.5749	0.5505	4.2	TM
68	*TM	n-Nitrosodiphenylamine	0.5749	0.5505	4.2	*TM
69	TM	1,2-Diphenylhydrazine	0.6498	0.6232	4.1	TM
70	TM	4-Bromophenyl phenyl ether	0.2297	0.2419	5.3	TM
71	TM	Hexachlorobenzene	0.2387	0.2637	10	TM
72	TM	Atrazine	0.2137	0.2021	5.4	TM
73	*TM	Pentachlorophenol	0.0772	0.0989	28	*TM
74	TM	Phenanthrene	1.102	1.065	3.4	TM
75	TM	Anthracene	1.132	1.114	1.6	TM
76	TM	Carbazol	1.052	1.029	2.2	TM
77	TM	Di-n-butylphthalate	1.181	1.172	0.69	TM
78	*TM	Fluoranthene	1.207	1.205	0.16	*TM
79	I	Chrysene-D12(IS)	ISTD			I
80	TM	Benzidine	0.3585	0.1634	54	TM *NT
Average					6.3	

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 07/29/19
Instrument: Yoda
Cal. Date: 07/22/19
Data File: 0722Y141.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Pyrene	1.414	1.369	3.2	TM
82	S	Terphenyl-D14(S)	1.003	0.9613	4.2	S
83	TM	Butyl benzylphthalate	0.5899	0.5955	0.96	TM
84	TM	3,3'-Dichlorobenzidine	0.4083	0.4821	18	TM
85	TM	Benz (a) anthracene	1.302	1.262	3.1	TM
86	TM	Bis (2-ethylhexyl) phthalate	0.7295	0.7102	2.6	TM
87	TM	Chrysene	1.285	1.273	0.97	TM
88	*TM	Di-n-octylphthalate	1.345	1.399	4.0	*TM
89	I	Perylene-D12(IS)	ISTD			I
90	TM	Benzo (b) fluoranthene	1.211	1.262	4.2	TM
91	TM	Benzo (k) fluoranthene	1.200	1.067	11	TM
92	*TM	Benzo (a) pyrene	1.135	1.135	0.06	*TM
93	TM	Indeno (1,2,3-cd) pyrene	1.300	1.295	0.41	TM
94	TM	Dibenz (a,h) anthracene	1.119	1.155	3.2	TM
95	TM	Benzo (g,h,i) perylene	1.026	1.071	4.4	TM
96						
97						
98						
99						
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115						
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117						
118						
119						
120						

Average

4.3

Data File : M:\YODA\DATA\Y190722\0722Y141.D
 Acq On : 29 Jul 19 21:03
 Sample : 50ug/ml 8270 07/12/19 (3)
 Misc :

Vial: 41
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 30 7:24 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	338373	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.48	136	1326301	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	741640	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1527025	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.39	240	1382392	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.15	264	1619107	40.00000	ppb	0.02

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.38	112	1066572	95.08879	ppb	0.00
Spiked Amount 200.000			Recovery =	47.545%		
6) Phenol-D6 (S)	4.63	99	1124428	95.38373	ppb	0.00
Spiked Amount 200.000			Recovery =	47.692%		
22) Nitrobenzene-D5 (S)	5.67	82	473018	45.87025	ppb	0.00
Spiked Amount 100.000			Recovery =	45.870%		
46) 2-Fluorobiphenyl (S)	7.73	172	1276044	49.00224	ppb	0.00
Spiked Amount 100.000			Recovery =	49.002%		
64) 2,4,6-Tribromophenol (S)	9.47	330	484207	121.14361	ppb	0.00
Spiked Amount 200.000			Recovery =	60.572%		
82) Terphenyl-D14 (S)	12.15	244	1661128	47.90926	ppb	0.00
Spiked Amount 100.000			Recovery =	47.909%		

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.47	58	4587m	5.28717		1
3) n-Nitrosodimethylamine	1.70	42	109028	70.74201	ppb	93
4) Pyridine	1.71	79	264555	69.63743	ppb	98
7) Phenol	4.64	94	737822	47.54697	ppb	99
8) Aniline	4.63	93	680109	44.86767	ppb #	78
9) Bis (2-chloroethyl) ether	4.71	63	293045	44.19740	ppb	92
10) 2-Chlorophenol	4.77	128	612195	49.03870	ppb	97
11) 1,3-DCB	4.93	146	677346	48.11723	ppb	98
12) 1,4-DCB	5.02	146	689857	48.86697	ppb	98
13) Benzyl alcohol	5.20	108	346888	50.29638	ppb	98
14) 1,2-DCB	5.20	146	636655	48.83211	ppb	99
15) 2-Methylphenol	5.34	107	482310	48.71649	ppb	99
16) Bis (2-chloroisopropyl) et	5.33	45	417505	40.15776	ppb	89
17) Acetophenone	5.49	105	708626	48.30132	ppb	99
18) 3&4-Methylphenol	5.52	107	1155909	98.44504	ppb	97
19) n-Nitrosodi-n-propylamine	5.49	70	337723	48.04660	ppb	99
20) Hexachloroethane	5.57	117	220039	46.54197	ppb	90
23) Nitrobenzene	5.69	77	512116	47.32249	ppb	97
24) Isophorone	5.97	82	930643	48.70526	ppb	92
25) 2-Nitrophenol	6.05	139	370577	53.62883	ppb	97
26) 2,4-Dimethylphenol	6.12	122	547291	51.10807	ppb	98
27) Benzoic acid	6.33	105	316648	46.37904	ppb	96
28) Bis (2-chloroethoxy) metha	6.21	93	598434	47.68097	ppb	100
29) 2,4-Dichlorophenol	6.34	162	531956	52.09378	ppb	99
30) 1,2,4-Trichlorobenzene	6.41	180	573171	50.69045	ppb	99
31) 3,4-Dimethylphenol	6.46	107	697432	50.82092	ppb	96
32) Napthalene	6.51	128	1710604	49.67164	ppb	99
33) 4-Chloroaniline	6.59	127	619054	48.16278	ppb	96
34) 2,6-Dichlorophenol	6.59	162	482358	49.95199	ppb	99
35) Hexachloropropene	6.59	213	337520	53.05986	ppb	99
36) Hexachlorobutadiene	6.63	225	328631	52.92562	ppb	100
37) Caprolactum	7.04	55	183455	46.16942	ppb	90

(#) = qualifier out of range (m) = manual integration

Data File : M:\YODA\DATA\Y190722\0722Y141.D
 Acq On : 29 Jul 19 21:03
 Sample : 50ug/ml 8270 07/12/19 (3)
 Misc :

Vial: 41
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 30 7:24 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	524081	52.89662	ppb	96
39) 2-Methylnaphthalene	7.30	142	1167850	50.52135	ppb	99
40) 1-Methylnaphthalene	7.42	142	1186818	49.72509	ppb	99
42) Hexachlorocyclopentadiene	7.47	237	99827	50.71108	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	592229	51.35896	ppb	99
44) 2,4,6-Trichlorophenol	7.66	196	381413	53.14841	ppb	98
45) 2,4,5-Trichlorophenol	7.71	196	397607	52.20920	ppb	96
47) 1,1'-Biphenyl	7.85	154	1509872	48.45415	ppb	98
48) 2-Chloronaphthalene	7.88	162	1184129	49.33664	ppb	97
49) 2-Nitroaniline	8.02	65	272579	47.47941	ppb	89
50) Dimethyl phthalate	8.22	163	1414034	50.58316	ppb	99
51) 2,6-DNT	8.31	165	350393	52.45173	ppb	87
52) Acenaphthylene	8.35	152	1875006	50.03544	ppb	100
53) 3-Nitroaniline	8.51	138	353633	50.95137	ppb	92
54) Acenaphthene	8.56	154	1148459	48.40524	ppb	99
55) 2,4-Dinitrophenol	8.67	184	174220	52.04667	ppb	94
56) 4-Nitrophenol	8.76	65	145733	49.26593	ppb	98
57) Dibenzofuran	8.76	168	1717200	49.66644	ppb	96
58) 2,4-DNT	8.79	165	477908	53.62774	ppb	86
59) 2,3,4,6-Tetrachlorophenol	8.93	232	333983	56.46534	ppb	94
60) Diethyl phthalate	9.05	149	1333648	50.68048	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.16	204	696858	50.13583	ppb	93
62) Fluorene	9.17	166	1316613	49.06149	ppb	100
63) 4-Nitroaniline	9.24	138	355494	53.32530	ppb	97
66) 4,6-Dinitro-2-methylphenol	9.28	198	292595	52.17290	ppb	96
67) Diphenyl amine	9.32	169	2101549	95.75596	ppb	100
68) n-Nitrosodiphenylamine	9.32	169	2101549	95.75596	ppb	100
69) 1,2-Diphenylhydrazine	9.36	77	1189635	47.95445	ppb	# 89
70) 4-Bromophenyl phenyl ether	9.74	248	461742	52.64883	ppb	90
71) Hexachlorobenzene	9.81	284	503353	55.24040	ppb	88
72) Atrazine	9.96	200	192866	23.64197	ppb	98
73) Pentachlorophenol	10.07	266	188740	64.00732	ppb	98
74) Phenanthrene	10.30	178	2032619	48.29691	ppb	99
75) Anthracene	10.36	178	2126278	49.18207	ppb	99
76) Carbazol	10.56	167	1963660	48.87953	ppb	97
77) Di-n-butylphthalate	10.96	149	2237914	49.65484	ppb	99
78) Fluoranthene	11.70	202	2300844	49.92207	ppb	98
80) Benzidine	11.88	184	282358	22.78977	ppb	99
81) Pyrene	11.96	202	2365648	48.42329	ppb	99
83) Butyl benzylphthalate	12.72	149	1029084	50.47981	ppb	93
84) 3,3'-Dichlorobenzidine	13.35	252	833140	59.04163	ppb	99
85) Benz (a) anthracene	13.38	228	2180031	48.43209	ppb	99
86) Bis (2-ethylhexyl) phthala	13.38	149	1227260	48.68027	ppb	# 95
87) Chrysene	13.42	228	2198938	49.51524	ppb	100
88) Di-n-octylphthalate	14.11	149	2417677	51.99618	ppb	97
90) Benzo (b) fluoranthene	14.64	252	2553622	52.08319	ppb	97
91) Benzo (k) fluoranthene	14.67	252	2159358	44.44436	ppb	99
92) Benzo (a) pyrene	15.07	252	2298009	50.02970	ppb	97
93) Indeno (1,2,3-cd) pyrene	16.91	276	2621169	49.79481	ppb	96
94) Dibenz (a,h) anthracene	16.92	278	2336728	51.59318	ppb	96
95) Benzo (g,h,i) perylene	17.43	276	2167894	52.19228	ppb	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

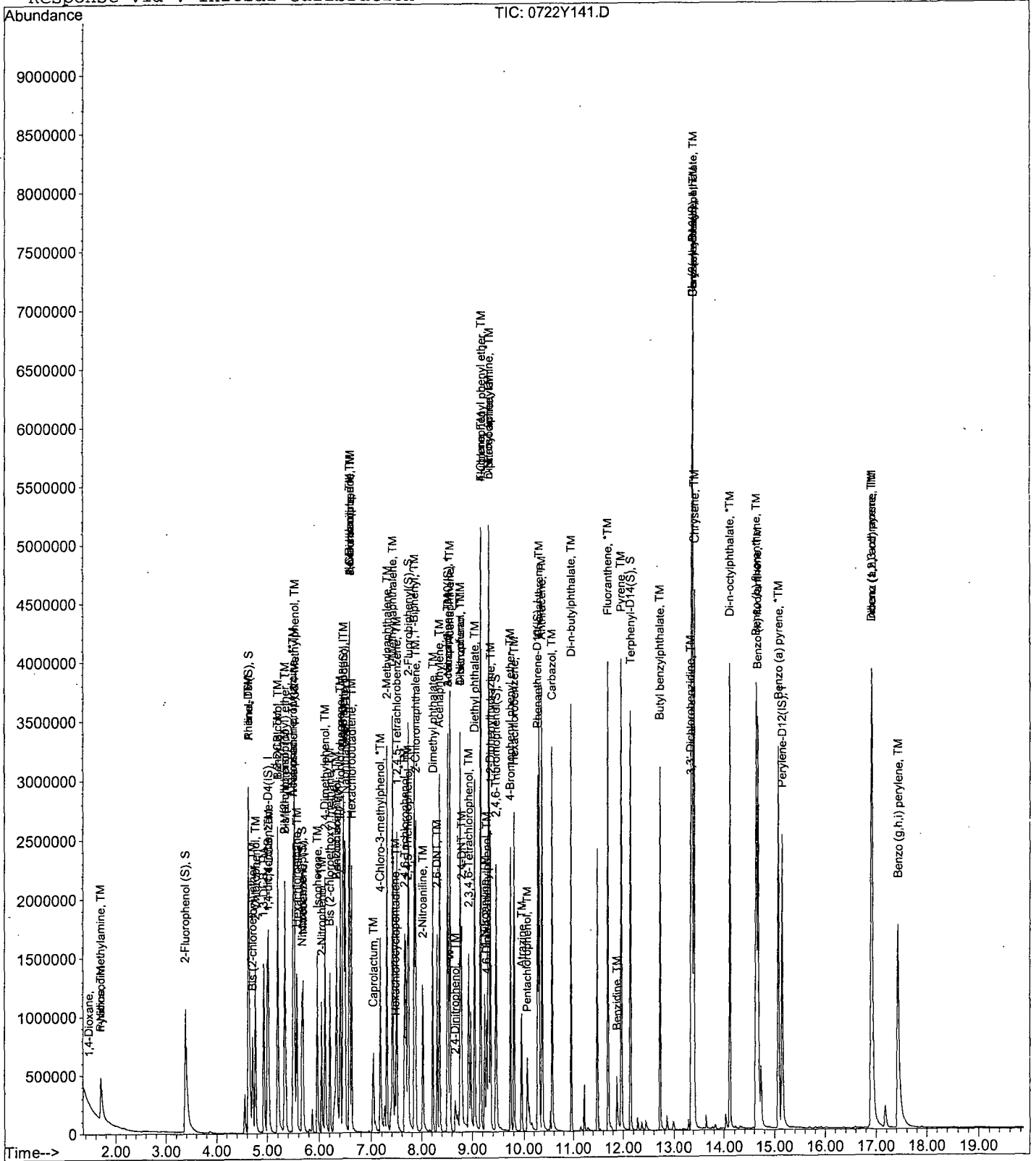
Data File : M:\YODA\DATA\Y190722\0722Y141.D
Acq On : 29 Jul 19 21:03
Sample : 50ug/ml 8270 07/12/19 (3)
Misc :

Vial: 41
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 30 7:24 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/31/19
Instrument: Yoda
Initial Cal. Date: 07/22/19
Data File: 0722Y144.D

	Compound	MEAN	CCRF	%D	%Drift
1	I 1,4-dichlorobenzene-D4(IS)	ISTD			I
2	1,4-Dioxane	0.1026	0.1323	29	*
3	TM n-Nitrosodimethylamine	0.1822	0.2197	21	TM *
4	TM Pyridine	0.4491	0.6410	43	TM *NT
5	S 2-Fluorophenol (S)	1.326	1.244	6.2	S
6	S Phenol-D6 (S)	1.394	1.324	5.0	S
7	*TM Phenol	1.834	1.752	4.5	*TM
8	TM Aniline	1.792	1.629	9.1	TM
9	TM Bis (2-chloroethyl) ether	0.7838	0.6737	14	TM
10	TM 2-Chlorophenol	1.476	1.466	0.65	TM
11	TM 1,3-DCB	1.664	1.623	2.5	TM
12	*TM 1,4-DCB	1.669	1.645	1.5	*TM
13	TM Benzyl alcohol	0.8153	0.8130	0.28	TM
14	TM 1,2-DCB	1.541	1.504	2.4	TM
15	TM 2-Methylphenol	1.170	1.146	2.0	TM
16	TM Bis (2-chloroisopropyl) ether	1.229	0.9774	20	TM
17	TM Acetophenone	1.734	1.690	2.6	TM
18	TM 3&4-Methylphenol	1.388	1.363	1.8	TM
19	**TM n-Nitrosodi-n-propylamine	0.8309	0.7780	6.4	**TM
20	TM Hexachloroethane	0.5589	0.5216	6.7	TM
21	I Napthalene-D8(IS)	ISTD			I
22	S Nitrobenzene-D5(S)	0.3110	0.2830	9.0	S
23	TM Nitrobenzene	0.3264	0.3005	7.9	TM
24	TM Isophorone	0.5763	0.5454	5.4	TM
25	*TM 2-Nitrophenol	0.2084	0.2191	5.1	*TM
26	TM 2,4-Dimethylphenol	0.3230	0.3281	1.6	TM
27	TM Benzoic acid	0.2059	0.2101	2.1	TM
28	TM Bis (2-chloroethoxy) methane	0.3785	0.3566	5.8	TM
29	*TM 2,4-Dichlorophenol	0.3080	0.3145	2.1	*TM
30	TM 1,2,4-Trichlorobenzene	0.3410	0.3505	2.8	TM
31	TM 3,4-Dimethylphenol	0.4139	0.4127	0.29	TM
32	TM Napthalene	1.039	1.030	0.86	TM
33	TM 4-Chloroaniline	0.3876	0.3862	0.37	TM
34	TM 2,6-Dichlorophenol	0.2912	0.2934	0.75	TM
35	TM Hexachloropropene	0.1918	0.2064	7.6	TM
36	*TM Hexachlorobutadiene	0.1873	0.1963	4.8	*TM
37	TM Caprolactum	0.1198	0.1053	12	TM
38	*TM 4-Chloro-3-methylphenol	0.2988	0.3079	3.0	*TM
39	TM 2-Methylnapthalene	0.6972	0.7026	0.78	TM
40	TM 1-Methylnapthalene	0.7198	0.7166	0.45	TM

Average

6.6

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 07/31/19
Instrument: Yoda
Cal. Date: 07/22/19
Data File: 0722Y144.D

		Compound	MEAN	CCRF	%D		%Drift
41	I	Acenaphthene-D10(IS)	ISTD			I	
42	**TMQ	Hexachlorocyclopentadiene	0.1159	0.1107	4.4	**TMQ	3.0
43	TM	1,2,4,5-Tetrachlorobenzene	0.6219	0.6437	3.5	TM	
44	*TM	2,4,6-Trichlorophenol	0.3871	0.4151	7.3	*TM	
45	TM	2,4,5-Trichlorophenol	0.4107	0.4274	4.1	TM	
46	S	2-Fluorobiphenyl(S)	1.404	1.387	1.2	S	
47	TM	1,1'-Biphenyl	1.681	1.630	3.0	TM	
48	TM	2-Chloronaphthalene	1.294	1.276	1.4	TM	
49	TM	2-Nitroaniline	0.3096	0.2870	7.3	TM	
50	TM	Dimethyl phthalate	1.508	1.515	0.51	TM	
51	TM	2,6-DNT	0.3603	0.3735	3.7	TM	
52	TM	Acenaphthylene	2.021	2.038	0.85	TM	
53	TM	3-Nitroaniline	0.3743	0.3731	0.32	TM	
54	*TM	Acenaphthene	1.280	1.251	2.2	*TM	
55	**TML	2,4-Dinitrophenol	0.1738	0.1871	7.7	**TML	3.7
56	**TM	4-Nitrophenol	0.1595	0.1521	4.7	**TM	
57	TM	Dibenzofuran	1.865	1.855	0.50	TM	
58	TM	2,4-DNT	0.4806	0.5038	4.8	TM	
59	TM	2,3,4,6-Tetrachlorophenol	0.3190	0.3530	11	TM	
60	TM	Diethyl phthalate	1.419	1.433	0.94	TM	
61	TM	4-Chlorophenyl phenyl ether	0.7497	0.7560	0.84	TM	
62	TM	Fluorene	1.447	1.424	1.6	TM	
63	TM	4-Nitroaniline	0.3596	0.3687	2.6	TM	
64	S	2,4,6-Tribromophenol(S)	0.2156	0.2584	20	S	
65	I	Phenanthrene-D10(IS)	ISTD			I	
66	TM	4,6-Dinitro-2-methylphenol	0.1469	0.1613	9.8	TM	
67	TM	Diphenyl amine	0.5749	0.5660	1.6	TM	
68	*TM	n-Nitrosodiphenylamine	0.5749	0.5660	1.6	*TM	
69	TM	1,2-Diphenylhydrazine	0.6498	0.6141	5.5	TM	
70	TM	4-Bromophenyl phenyl ether	0.2297	0.2461	7.1	TM	
71	TM	Hexachlorobenzene	0.2387	0.2688	13	TM	
72	TM	Atrazine	0.2137	0.2105	1.5	TM	
73	*TM	Pentachlorophenol	0.0772	0.0993	28	*TM	*
74	TM	Phenanthrene	1.102	1.079	2.1	TM	
75	TM	Anthracene	1.132	1.129	0.28	TM	
76	TM	Carbazol	1.052	1.052	0.00	TM	
77	TM	Di-n-butylphthalate	1.181	1.207	2.3	TM	
78	*TM	Fluoranthene	1.207	1.230	1.9	*TM	
79	I	Chrysene-D12(IS)	ISTD			I	
80	TM	Benzidine	0.3585	0.1785	50	TM	*NT
Average					5.9		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 07/31/19

Matrix: 0

Instrument: Yoda

Cal. Date: 07/22/19

Data File: 0722Y144.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Pyrene	1.414	1.348	4.7	TM
82	S	Terphenyl-D14(S)	1.003	0.9891	1.4	S
83	TM	Butyl benzylphthalate	0.5899	0.5771	2.2	TM
84	TM	3,3'-Dichlorobenzidine	0.4083	0.4679	15	TM
85	TM	Benz (a) anthracene	1.302	1.263	3.0	TM
86	TM	Bis (2-ethylhexyl) phthalate	0.7295	0.7253	0.57	TM
87	TM	Chrysene	1.285	1.278	0.51	TM
88	*TM	Di-n-octylphthalate	1.345	1.394	3.6	*TM
89	I	Perylene-D12(I)	ISTD			I
90	TM	Benzo (b) fluoranthene	1.211	1.269	4.7	TM
91	TM	Benzo (k) fluoranthene	1.200	1.078	10	TM
92	*TM	Benzo (a) pyrene	1.135	1.127	0.70	*TM
93	TM	Indeno (1,2,3-cd) pyrene	1.300	1.330	2.3	TM
94	TM	Dibenz (a,h) anthracene	1.119	1.175	5.0	TM
95	TM	Benzo (g,h,i) perylene	1.026	1.101	7.3	TM
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120						

Average

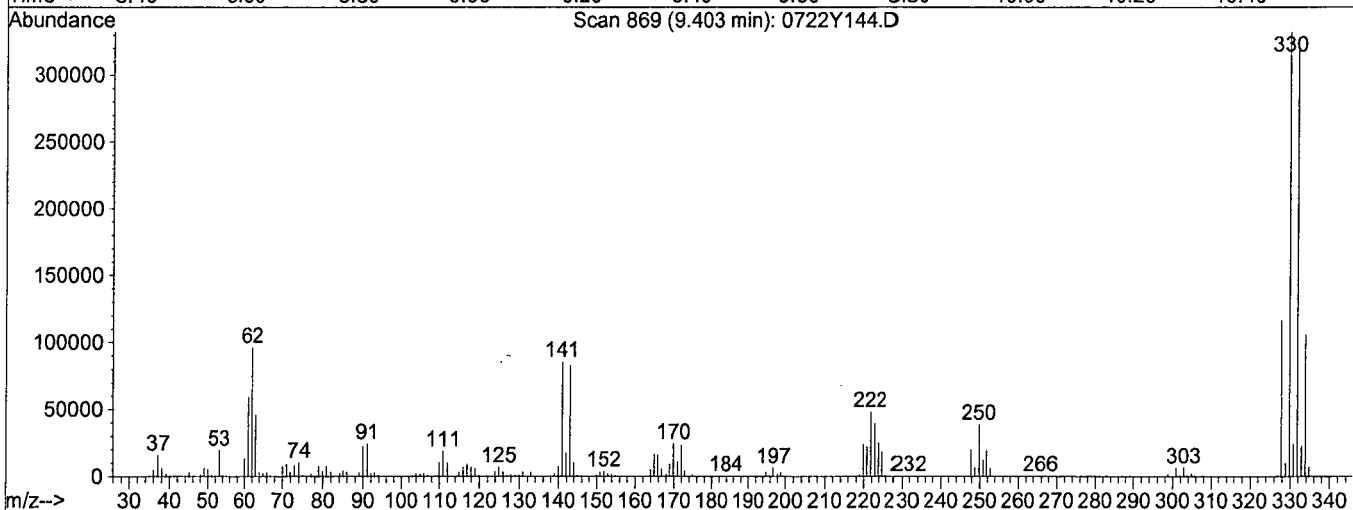
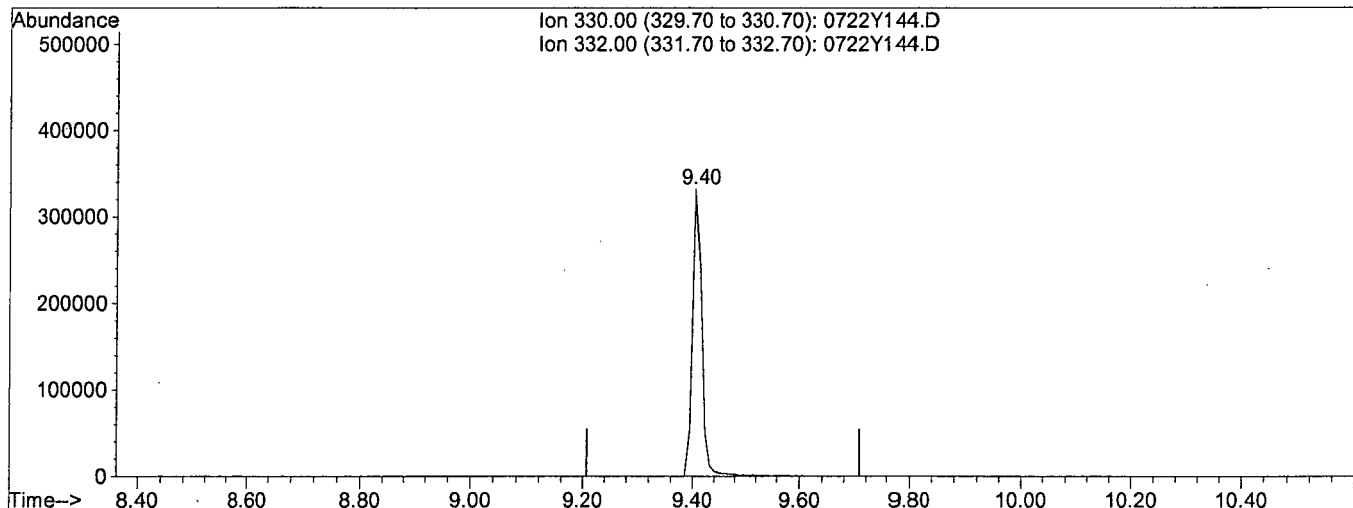
4.4

Quantitation Report

Data File : M:\YODA\DATA\Y190722\0722Y144.D
 Acq On : 31 Jul 19 10:06
 Sample : 50ug/ml 8270 07/12/19 (6)
 Misc :
 Quant Time: Jul 31 10:15 2019

Vial: 44
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Multiple Level Calibration



TIC: 0722Y144.D

(64) 2,4,6-Tribromophenol(S) (S)

9.40min 122.0755ppb

response 405999

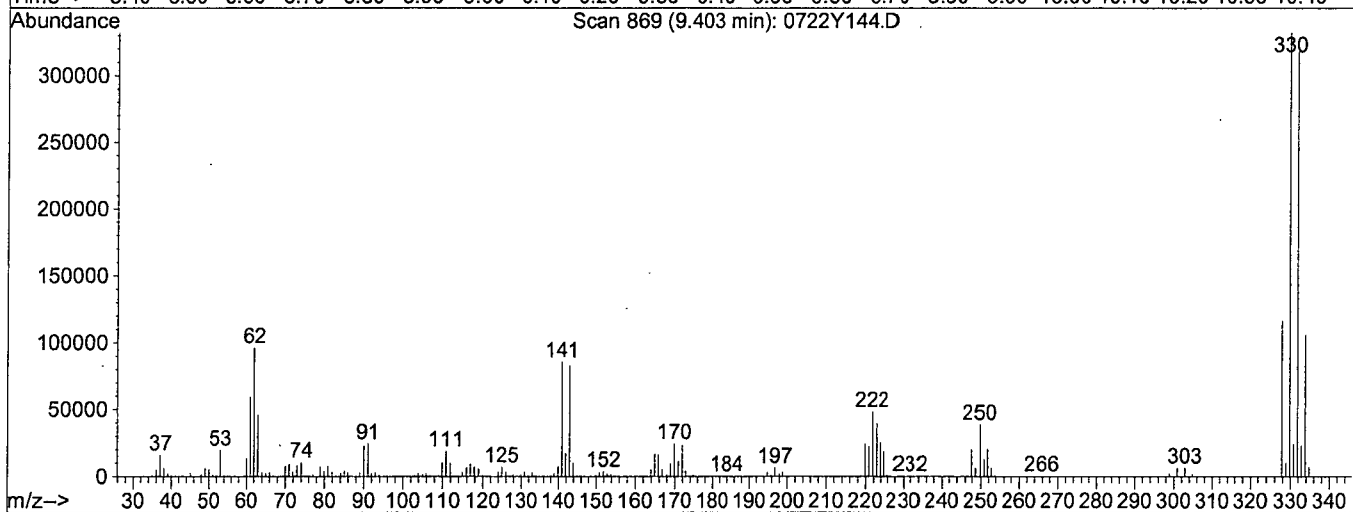
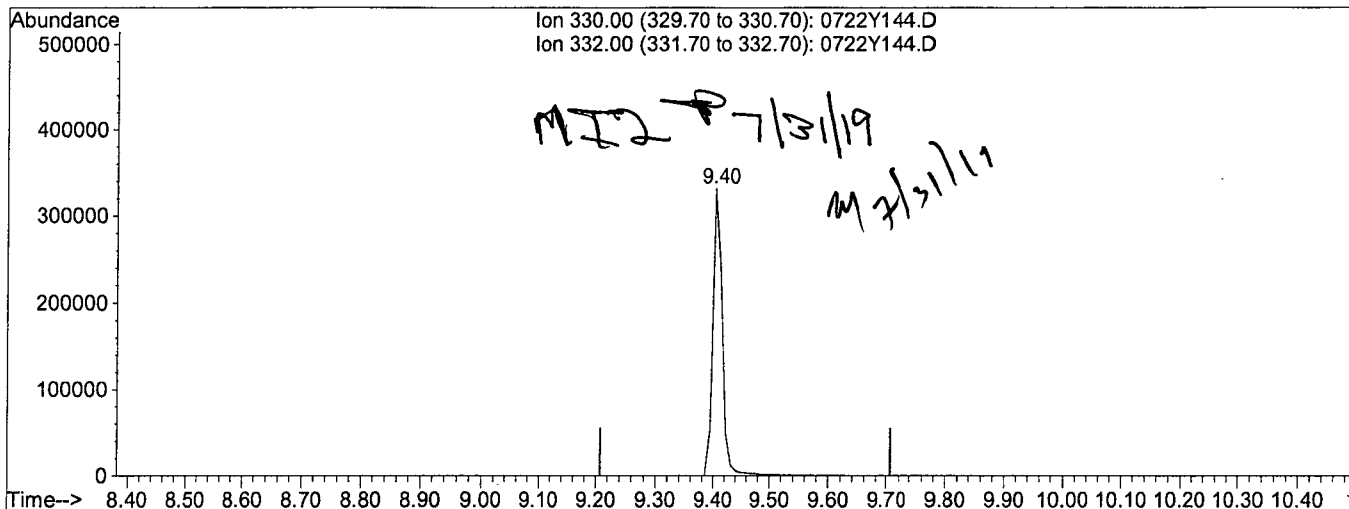
Ion	Exp%	Act%
330.00	100	100
332.00	96.40	95.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190722\0722Y144.D
Acq On : 31 Jul 19 10:06
Sample : 50ug/ml 8270 07/12/19 (6)
Misc :
Quant Time: Jul 31 10:25 2019

Vial: 44
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00
Quant Results File: temp.res

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Multiple Level Calibration



TIC: 0722Y144.D

(64) 2,4,6-Tribromophenol(S) (S)

9.40min 119.8526ppb m

response 398606

Ion	Exp%	Act%
330.00	100	100
332.00	96.40	95.84
0.00	0.00	0.00
0.00	0.00	0.00

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 07/31/19

Matrix: _____

Instrument: Yoda

Initial Cal. Date: 07/22/19

Data File: 0722Y152.D

	Compound	MEAN	CCRF	%D	%Drift
1	I 1,4-dichlorobenzene-D4(IS)	ISTD			I
2	1,4-Dioxane	0.1026	0.1290	26	
3	TM n-Nitrosodimethylamine	0.1822	0.2585	42	TM
4	TM Pyridine	0.4491	0.6865	53	TM
5	S 2-Fluorophenol (S)	1.326	1.265	4.6	S
6	S Phenol-D6 (S)	1.394	1.337	4.0	S
7	*TM Phenol	1.834	1.746	4.8	*TM
8	TM Aniline	1.792	1.628	9.1	TM
9	TM Bis (2-chloroethyl) ether	0.7838	0.6787	13	TM
10	TM 2-Chlorophenol	1.476	1.466	0.64	TM
11	TM 1,3-DCB	1.664	1.610	3.3	TM
12	*TM 1,4-DCB	1.669	1.614	3.3	*TM
13	TM Benzyl alcohol	0.8153	0.8334	2.2	TM
14	TM 1,2-DCB	1.541	1.515	1.7	TM
15	TM 2-Methylphenol	1.170	1.161	0.80	TM
16	TM Bis (2-chloroisopropyl) ether	1.229	0.9799	20	TM
17	TM Acetophenone	1.734	1.701	1.9	TM
18	TM 3&4-Methylphenol	1.388	1.368	1.5	TM
19	**TM n-Nitrosodi-n-propylamine	0.8309	0.8077	2.8	**TM
20	TM Hexachloroethane	0.5589	0.5245	6.2	TM
21	I Naphthalene-D8(IS)	ISTD			I
22	S Nitrobenzene-D5(S)	0.3110	0.2824	9.2	S
23	TM Nitrobenzene	0.3264	0.2995	8.2	TM
24	TM Isophorone	0.5763	0.5576	3.2	TM
25	*TM 2-Nitrophenol	0.2084	0.2252	8.1	*TM
26	TM 2,4-Dimethylphenol	0.3230	0.3306	2.4	TM
27	TM Benzoic acid	0.2059	0.2089	1.4	TM
28	TM Bis (2-chloroethoxy) methane	0.3785	0.3608	4.7	TM
29	*TM 2,4-Dichlorophenol	0.3080	0.3237	5.1	*TM
30	TM 1,2,4-Trichlorobenzene	0.3410	0.3451	1.2	TM
31	TM 3,4-Dimethylphenol	0.4139	0.4214	1.8	TM
32	TM Naphthalene	1.039	1.024	1.4	TM
33	TM 4-Chloroaniline	0.3876	0.3924	1.2	TM
34	TM 2,6-Dichlorophenol	0.2912	0.2924	0.39	TM
35	TM Hexachloropropene	0.1918	0.1967	2.5	TM
36	*TM Hexachlorobutadiene	0.1873	0.1957	4.5	*TM
37	TM Caprolactum	0.1198	0.1100	8.2	TM
38	*TM 4-Chloro-3-methylphenol	0.2988	0.3180	6.4	*TM
39	TM 2-Methylnaphthalene	0.6972	0.7051	1.1	TM
40	TM 1-Methylnaphthalene	0.7198	0.7307	1.5	TM

*NT

Average

7.2

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 07/31/19
Instrument: Yoda
Cal. Date: 07/22/19
Data File: 0722Y152.D

		Compound	MEAN	CCRF	%D	%Drift
41	I	Acenaphthene-D10(IS)	ISTD			I
42	**TMQ	Hexachlorocyclopentadiene	0.1159	0.1039	10	**TMQ 0.55
43	TM	1,2,4,5-Tetrachlorobenzene	0.6219	0.6325	1.7	TM
44	*TM	2,4,6-Trichlorophenol	0.3871	0.4146	7.1	*TM
45	TM	2,4,5-Trichlorophenol	0.4107	0.4298	4.6	TM
46	S	2-Fluorobiphenyl(S)	1.404	1.365	2.8	S
47	TM	1,1'-Biphenyl	1.681	1.612	4.1	TM
48	TM	2-Chloronaphthalene	1.294	1.262	2.5	TM
49	TM	2-Nitroaniline	0.3096	0.2870	7.3	TM
50	TM	Dimethyl phthalate	1.508	1.494	0.94	TM
51	TM	2,6-DNT	0.3603	0.3758	4.3	TM
52	TM	Acenaphthylene	2.021	1.981	2.0	TM
53	TM	3-Nitroaniline	0.3743	0.3820	2.1	TM
54	*TM	Acenaphthene	1.280	1.237	3.4	*TM
55	**TML	2,4-Dinitrophenol	0.1738	0.0607	65	**TML 48
56	**TM	4-Nitrophenol	0.1595	0.1626	1.9	**TM
57	TM	Dibenzofuran	1.865	1.822	2.3	TM
58	TM	2,4-DNT	0.4806	0.5120	6.5	TM
59	TM	2,3,4,6-Tetrachlorophenol	0.3190	0.3754	18	TM
60	TM	Diethyl phthalate	1.419	1.421	0.15	TM
61	TM	4-Chlorophenyl phenyl ether	0.7497	0.7453	0.58	TM
62	TM	Fluorene	1.447	1.414	2.3	TM
63	TM	4-Nitroaniline	0.3596	0.3742	4.1	TM
64	S	2,4,6-Tribromophenol(S)	0.2156	0.2673	24	S
65	I	Phenanthrene-D10(IS)	ISTD			I
66	TM	4,6-Dinitro-2-methylphenol	0.1469	0.1116	24	TM
67	TM	Diphenyl amine	0.5749	0.5551	3.4	TM
68	*TM	n-Nitrosodiphenylamine	0.5749	0.5551	3.4	*TM
69	TM	1,2-Diphenylhydrazine	0.6498	0.6158	5.2	TM
70	TM	4-Bromophenyl phenyl ether	0.2297	0.2424	5.5	TM
71	TM	Hexachlorobenzene	0.2387	0.2676	12	TM
72	TM	Atrazine	0.2137	0.1890	12	TM
73	*TM	Pentachlorophenol	0.0772	0.1041	35	*TM
74	TM	Phenanthrene	1.102	1.048	5.0	TM
75	TM	Anthracene	1.132	1.118	1.3	TM
76	TM	Carbazol	1.052	1.034	1.7	TM
77	TM	Di-n-butylphthalate	1.181	1.169	0.99	TM
78	*TM	Fluoranthene	1.207	1.208	0.05	*TM
79	I	Chrysene-D12(IS)	ISTD			I
80	TM	Benzidine	0.3585	0.3198	11	TM

Average

8.1

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 07/31/19
Instrument: Yoda
Cal. Date: 07/22/19
Data File: 0722Y152.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Pyrene	1.414	1.350	4.5	TM
82	S	Terphenyl-D14(S)	1.003	0.9613	4.2	S
83	TM	Butyl benzylphthalate	0.5899	0.5801	1.7	TM
84	TM	3,3'-Dichlorobenzidine	0.4083	0.4712	15	TM
85	TM	Benz (a) anthracene	1.302	1.252	3.9	TM
86	TM	Bis (2-ethylhexyl) phthalate	0.7295	0.6972	4.4	TM
87	TM	Chrysene	1.285	1.265	1.6	TM
88	*TM	Di-n-octylphthalate	1.345	1.400	4.0	*TM
89	I	Perylene-D12(IS)	ISTD			I
90	TM	Benzo (b) fluoranthene	1.211	1.232	1.7	TM
91	TM	Benzo (k) fluoranthene	1.200	1.092	9.0	TM
92	*TM	Benzo (a) pyrene	1.135	1.118	1.5	*TM
93	TM	Indeno (1,2,3-cd) pyrene	1.300	1.301	0.08	TM
94	TM	Dibenz (a,h) anthracene	1.119	1.147	2.5	TM
95	TM	Benzo (g,h,i) perylene	1.026	1.080	5.3	TM
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Average

4.2

Data File : M:\YODA\DATA\Y190722\0722Y152.D
 Acq On : 31 Jul 19 14:08
 Sample : 50ug/ml 8270 07/12/19 (3)
 Misc :

Vial: 52
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 31 15:04 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.97	152	344780	40.00000	ppb	-0.04
21) Napthalene-D8 (IS)	6.44	136	1360984	40.00000	ppb	-0.04
41) Acenaphthene-D10 (IS)	8.46	164	775495	40.00000	ppb	-0.06
65) Phenanthrene-D10 (IS)	10.21	188	1581678	40.00000	ppb	-0.06
79) Chrysene-D12 (IS)	13.32	240	1455178	40.00000	ppb	-0.07
89) Perylene-D12 (IS)	15.04	264	1714406	40.00000	ppb	-0.09
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.35	112	1090611	95.42511	ppb	-0.04
Spiked Amount	200.000		Recovery	=	47.713%	
6) Phenol-D6 (S)	4.60	99	1152561	95.95337	ppb	-0.03
Spiked Amount	200.000		Recovery	=	47.977%	
22) Nitrobenzene-D5 (S)	5.63	82	480439	45.40261	ppb	-0.04
Spiked Amount	100.000		Recovery	=	45.403%	
46) 2-Fluorobiphenyl (S)	7.68	172	1323523	48.60668	ppb	-0.05
Spiked Amount	100.000		Recovery	=	48.607%	
64) 2,4,6-Tribromophenol (S)	9.41	330	518226	123.99461	ppb	-0.05
Spiked Amount	200.000		Recovery	=	61.998%	
82) Terphenyl-D14 (S)	12.07	244	1748612	47.90986	ppb	-0.07
Spiked Amount	100.000		Recovery	=	47.910%	
Target Compounds						
3) n-Nitrosodimethylamine	1.68	42	111394	70.93405	ppb	Qvalue 95
4) Pyridine	1.69	79	295852	76.42843	ppb	97
7) Phenol	4.61	94	752313	47.57990	ppb	93
8) Aniline	4.60	93	701606	45.42573	ppb	# 80
9) Bis (2-chloroethyl) ether	4.68	63	292517	43.29794	ppb	88
10) 2-Chlorophenol	4.74	128	631924	49.67840	ppb	95
11) 1,3-DCB	4.90	146	693842	48.37314	ppb	99
12) 1,4-DCB	4.99	146	695555	48.35501	ppb	99
13) Benzyl alcohol	5.17	108	359168	51.10916	ppb	96
14) 1,2-DCB	5.16	146	652759	49.13690	ppb	99
15) 2-Methylphenol	5.31	107	500376	49.60207	ppb	96
16) Bis (2-chloroisopropyl) et	5.30	45	422306	39.86472	ppb	# 71
17) Acetophenone	5.46	105	732947	49.03071	ppb	94
18) 3&4-Methylphenol	5.48	107	1178894	98.53683	ppb	94
19) n-Nitrosodi-n-propylamine	5.46	70	348097	48.60220	ppb	96
20) Hexachloroethane	5.54	117	226048	46.92447	ppb	97
23) Nitrobenzene	5.65	77	509593	45.88934	ppb	99
24) Isophorone	5.93	82	948653	48.38260	ppb	95
25) 2-Nitrophenol	6.01	139	383182	54.03984	ppb	97
26) 2,4-Dimethylphenol	6.08	122	562483	51.18818	ppb	98
27) Benzoic acid	6.29	105	355350	50.72131	ppb	96
28) Bis (2-chloroethoxy) metha	6.18	93	613781	47.65751	ppb	97
29) 2,4-Dichlorophenol	6.30	162	550668	52.55198	ppb	100
30) 1,2,4-Trichlorobenzene	6.37	180	587040	50.59396	ppb	100
31) 3,4-Dimethylphenol	6.42	107	716894	50.90784	ppb	96
32) Napthalene	6.46	128	1742116	49.29753	ppb	100
33) 4-Chloroaniline	6.55	127	667590	50.61531	ppb	# 94
34) 2,6-Dichlorophenol	6.55	162	497366	50.19362	ppb	99
35) Hexachloropropene	6.55	213	334623	51.26388	ppb	99
36) Hexachlorobutadiene	6.59	225	332852	52.23934	ppb	99
37) Caprolactum	7.00	55	187190	45.90887	ppb	90
38) 4-Chloro-3-methylphenol	7.13	107	540964	53.20923	ppb	97

(#) = qualifier out of range (m) = manual integration

Data File : M:\YODA\DATA\Y190722\0722Y152.D
 Acq On : 31 Jul 19 14:08
 Sample : 50ug/ml 8270 07/12/19 (3)
 Misc :

Vial: 52
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 31 15:04 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) 2-Methylnaphthalene	7.26	142	1199536	50.56969	ppb	98
40) 1-Methylnaphthalene	7.37	142	1243105	50.75611	ppb	99
42) Hexachlorocyclopentadiene	7.42	237	100677	49.72568	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.45	216	613142	50.85126	ppb	99
44) 2,4,6-Trichlorophenol	7.61	196	401897	53.55792	ppb	98
45) 2,4,5-Trichlorophenol	7.66	196	416628	52.31854	ppb	97
47) 1,1'-Biphenyl	7.80	154	1563054	47.97102	ppb	99
48) 2-Chloronaphthalene	7.83	162	1222983	48.73098	ppb	98
49) 2-Nitroaniline	7.97	65	278174	46.33867	ppb	99
50) Dimethyl phthalate	8.18	163	1447855	49.53194	ppb	99
51) 2,6-DNT	8.26	165	364265	52.14780	ppb	95
52) Acenaphthylene	8.31	152	1919962	48.99839	ppb	100
53) 3-Nitroaniline	8.46	138	370324	51.02689	ppb	# 86
54) Acenaphthene	8.51	154	1198777	48.32028	ppb	98
55) 2,4-Dinitrophenol	8.62	184	58802	25.81533	ppb	97
56) 4-Nitrophenol	8.70	65	157581	50.94561	ppb	85
57) Dibenzofuran	8.71	168	1765796	48.84238	ppb	98
58) 2,4-DNT	8.74	165	496341	53.26470	ppb	# 76
59) 2,3,4,6-Tetrachlorophenol	8.87	232	363888	58.83550	ppb	96
60) Diethyl phthalate	8.99	149	1377831	50.07369	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.11	204	722506	49.71180	ppb	96
62) Fluorene	9.11	166	1371127	48.86236	ppb	99
63) 4-Nitroaniline	9.20	138	362723	52.03436	ppb	# 87
66) 4,6-Dinitro-2-methylphenol	9.22	198	220710	37.99515	ppb	97
67) Diphenyl amine	9.27	169	2195126	96.56368	ppb	99
68) n-Nitrosodiphenylamine	9.27	169	2195126	96.56368	ppb	99
69) 1,2-Diphenylhydrazine	9.30	77	1217462	47.38040	ppb	# 89
70) 4-Bromophenyl phenyl ether	9.68	248	479334	52.76618	ppb	94
71) Hexachlorobenzene	9.75	284	529154	56.06532	ppb	# 85
72) Atrazine	9.90	200	186857	22.11390	ppb	98
73) Pentachlorophenol	10.00	266	205820	67.38781	ppb	99
74) Phenanthrene	10.24	178	2071332	47.51614	ppb	100
75) Anthracene	10.30	178	2209707	49.34572	ppb	100
76) Carbazol	10.51	167	2044917	49.14332	ppb	99
77) Di-n-butylphthalate	10.90	149	2311097	49.50675	ppb	100
78) Fluoranthene	11.64	202	2388205	50.02708	ppb	97
80) Benzidine	11.80	184	581722	44.60364	ppb	99
81) Pyrene	11.90	202	2455832	47.75490	ppb	100
83) Butyl benzylphthalate	12.65	149	1055200	49.17188	ppb	99
84) 3,3'-Dichlorobenzidine	13.28	252	857159	57.70545	ppb	# 96
85) Benz (a) anthracene	13.31	228	2277743	48.07179	ppb	99
86) Bis (2-ethylhexyl) phthala	13.31	149	1268169	47.78687	ppb	99
87) Chrysene	13.35	228	2300724	49.21591	ppb	100
88) Di-n-octylphthalate	14.03	149	2546298	52.02325	ppb	98
90) Benzo (b) fluoranthene	14.54	252	2640891	50.86901	ppb	98
91) Benzo (k) fluoranthene	14.58	252	2339974	45.48465	ppb	97
92) Benzo (a) pyrene	14.97	252	2395717	49.25763	ppb	97
93) Indeno (1,2,3-cd) pyrene	16.75	276	2789102	50.03978	ppb	98
94) Dibenz (a,h) anthracene	16.76	278	2458318	51.26065	ppb	97
95) Benzo (g,h,i) perylene	17.25	276	2314662	52.62810	ppb	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

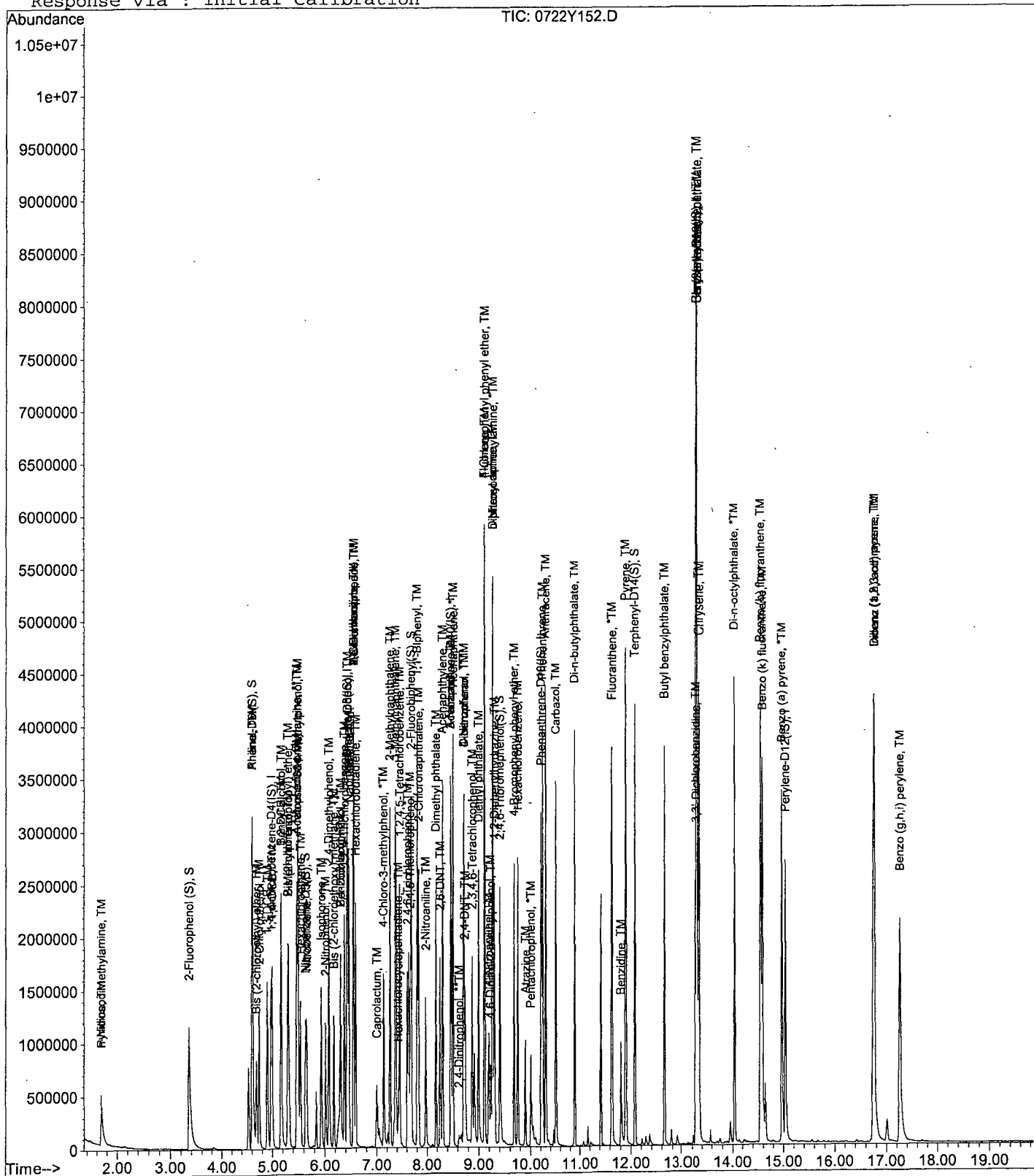
Data File : M:\YODA\DATA\Y190722\0722Y152.D
Acq On : 31 Jul 19 14:08
Sample : 50ug/ml 8270 07/12/19 (3)
Misc :

Vial: 52
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 31 15:04 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



ORGANICS
Raw Data

Data File : M:\YODA\DATA\Y190722\0722Y136.D
 Acq On : 29 Jul 19 18:43
 Sample : AZ95330W16 1/800
 Misc :

Vial: 36
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Jul 31 16:59 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	171528	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.47	136	915271	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.51	164	633436	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1287038	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.39	240	1303314	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.14	264	1402899	40.00000	ppb	0.01
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.38	112	1568982	344.92749	ppb	0.00
Spiked Amount 250.000			Recovery =	137.971%		
6) Phenol-D6 (S)	4.62	99	1662497	347.75567	ppb	0.00
Spiked Amount 250.000			Recovery =	139.102%		
22) Nitrobenzene-D5 (S)	5.66	82	793339	139.35247	ppb	0.00
Spiked Amount 125.000			Recovery =	111.482%		
46) 2-Fluorobiphenyl (S)	7.73	172	1944251	109.27053	ppb	0.00
Spiked Amount 125.000			Recovery =	87.417%		
64) 2,4,6-Tribromophenol (S)	9.46	330	695419	254.63402	ppb	0.00
Spiked Amount 250.000			Recovery =	101.854%		
82) Terphenyl-D14 (S)	12.14	244	2119735	81.05691	ppb	0.00
Spiked Amount 125.000			Recovery =	64.846%		
Target Compounds						
32) Naphthalene	6.50	128	1197543	62.98723	ppb	99
40) 1-Methylnaphthalene	7.42	142	316051	23.98563	ppb	98
50) Dimethyl phthalate	8.22	163	131510	6.88502	ppb	99
51) 2,6-DNT	8.17	165	8125	1.78003	ppb	# 85
57) Dibenzofuran	8.77	168	22098	0.93540	ppb	93

Quantitation Report

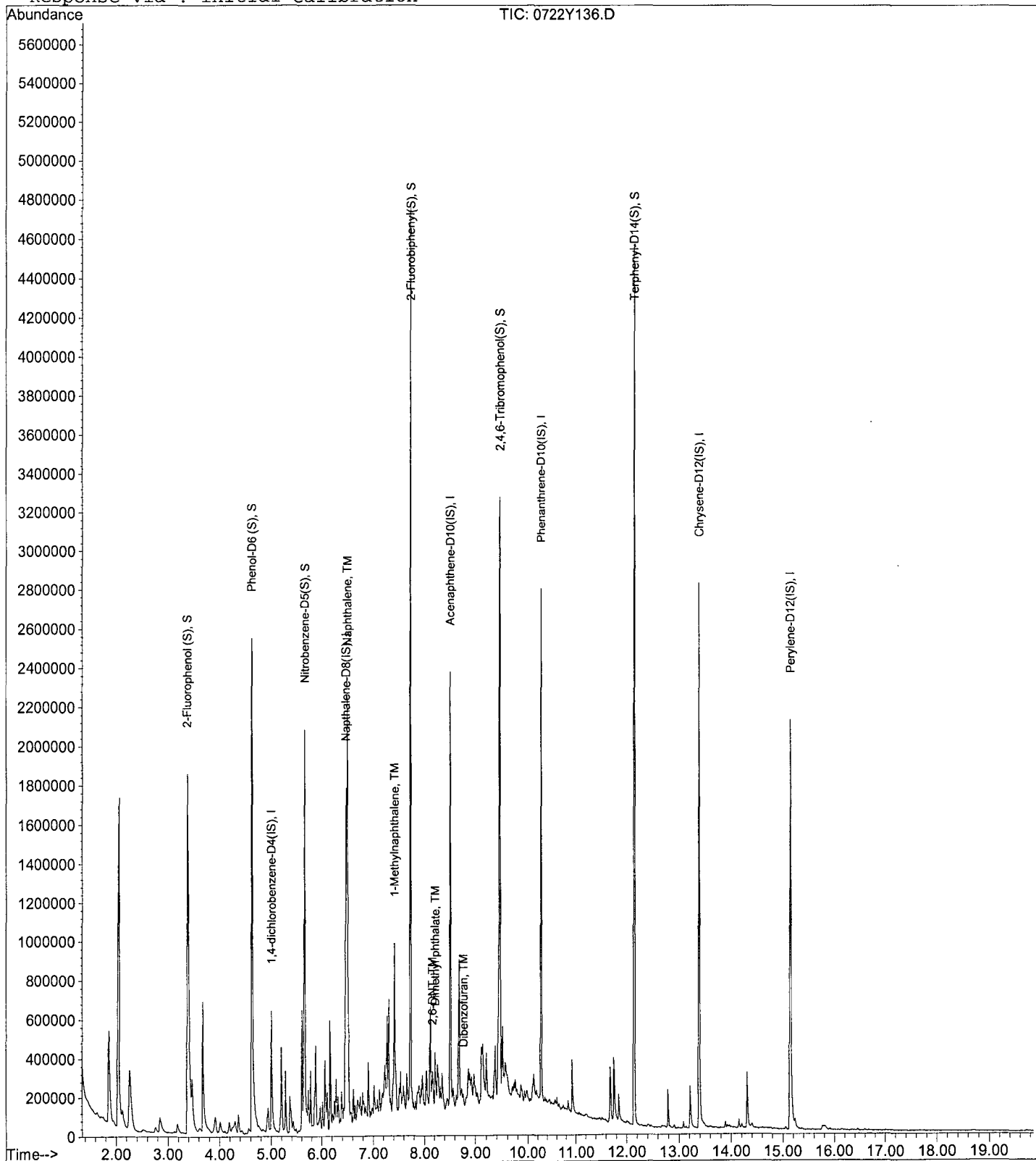
Data File : M:\YODA\DATA\Y190722\0722Y136.D
Acq On : 29 Jul 19 18:43
Sample : AZ95330W16 1/800
Misc :

Vial: 36
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 31 16:59 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y137.D Vial: 37
 Acq On : 29 Jul 19 19:11 Operator: MA,SS
 Sample : AZ95332W16 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Aug 2 14:27 2019 Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	264900	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.47	136	1144155	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	690478	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1382828	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.38	240	1352501	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.14	264	1468033	40.00000	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.40	112	1523315	216.84661	ppb	0.00
Spiked Amount 250.000			Recovery =	86.739%		
6) Phenol-D6 (S)	4.63	99	1655059	224.17124	ppb	0.00
Spiked Amount 250.000			Recovery =	89.668%		
22) Nitrobenzene-D5 (S)	5.66	82	797287	112.03027	ppb	0.00
Spiked Amount 125.000			Recovery =	89.624%		
46) 2-Fluorobiphenyl (S)	7.73	172	1991948	102.70264	ppb	0.00
Spiked Amount 125.000			Recovery =	82.162%		
64) 2,4,6-Tribromophenol (S)	9.46	330	703589	236.34250	ppb	0.00
Spiked Amount 250.000			Recovery =	94.537%		
82) Terphenyl-D14 (S)	12.15	244	2501718	92.18459	ppb	0.00
Spiked Amount 125.000			Recovery =	73.748%		
Target Compounds						Qvalue
50) Dimethyl phthalate	8.21	163	126168	6.05967	ppb	97

Quantitation Report

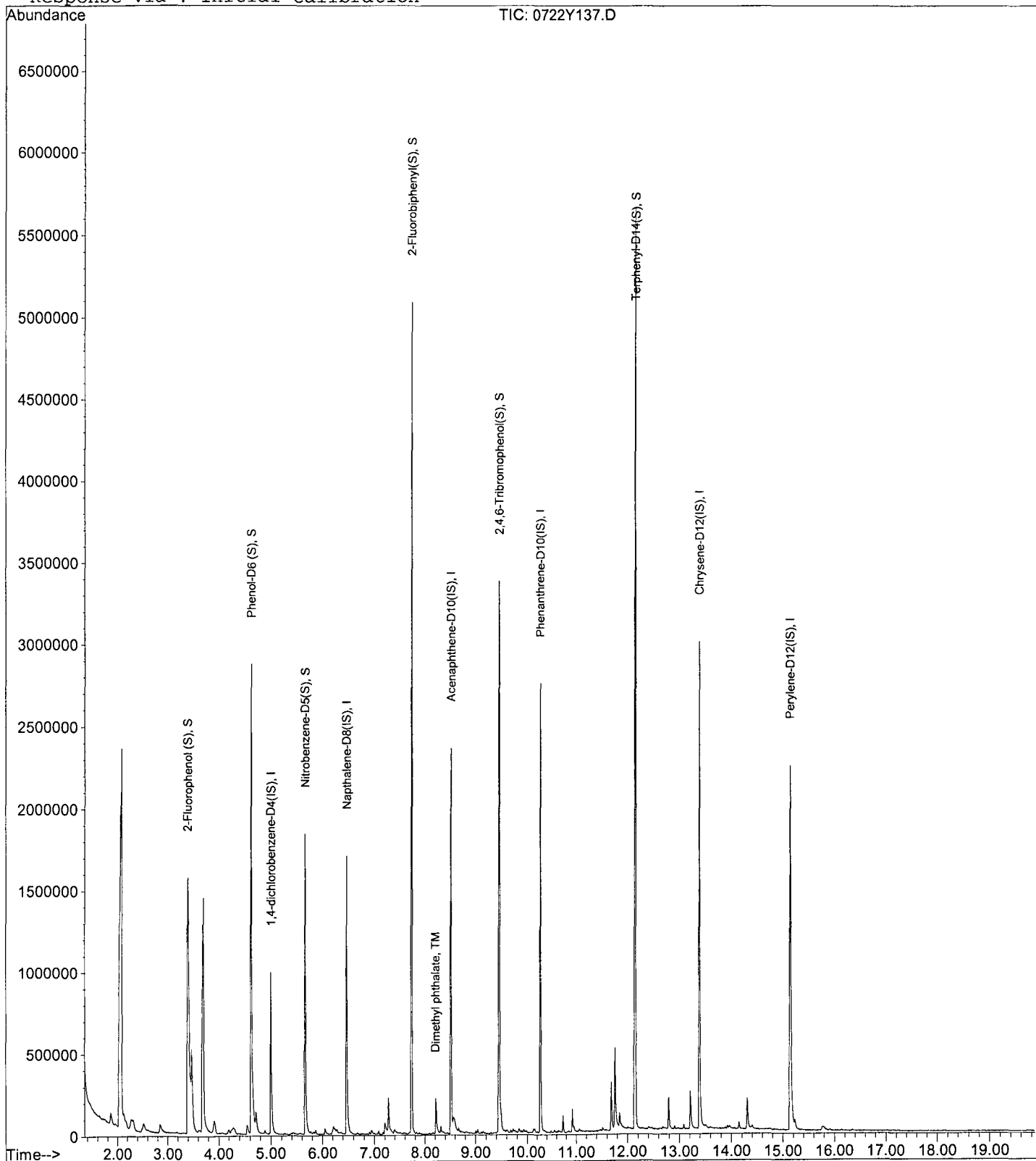
Data File : M:\YODA\DATA\Y190722\0722Y137.D
Acq On : 29 Jul 19 19:11
Sample : AZ95332W16 1/800
Misc :

Vial: 37
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Aug 2 14:27 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y138.D Vial: 38
 Acq On : 29 Jul 19 19:39 Operator: MA,SS
 Sample : AZ95334W16 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Aug 2 14:28 2019 Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	260815	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.47	136	1127384	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.51	164	678139	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1339005	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.39	240	1345258	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.14	264	1444983	40.00000	ppb	0.01
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.39	112	1529596	221.15107	ppb	0.00
Spiked Amount 250.000			Recovery =	88.460%		
6) Phenol-D6 (S)	4.63	99	1647342	226.62070	ppb	0.00
Spiked Amount 250.000			Recovery =	90.648%		
22) Nitrobenzene-D5 (S)	5.66	82	800073	114.09413	ppb	0.00
Spiked Amount 125.000			Recovery =	91.275%		
46) 2-Fluorobiphenyl (S)	7.73	172	1993546	104.65524	ppb	0.00
Spiked Amount 125.000			Recovery =	83.724%		
64) 2,4,6-Tribromophenol (S)	9.46	330	693159	237.07555	ppb	0.00
Spiked Amount 250.000			Recovery =	94.830%		
82) Terphenyl-D14 (S)	12.15	244	2527978	93.65377	ppb	0.01
Spiked Amount 125.000			Recovery =	74.923%		
Target Compounds						
50) Dimethyl phthalate	8.21	163	137495	6.72384	ppb	Qvalue 98

Quantitation Report

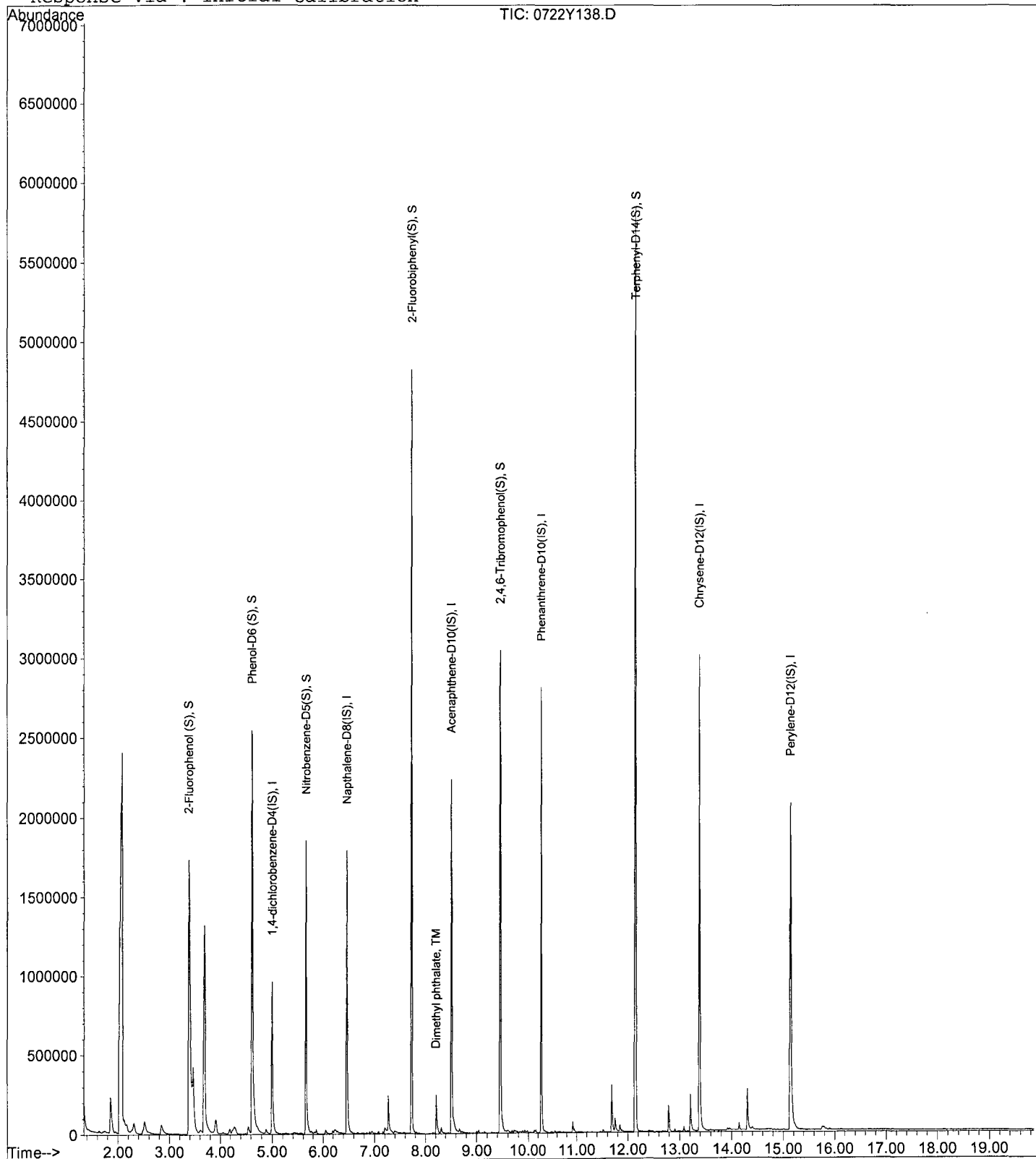
Data File : M:\YODA\DATA\Y190722\0722Y138.D
Acq On : 29 Jul 19 19:39
Sample : AZ95334W16 1/800
Misc :

Vial: 38
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Aug 2 14:28 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y139.D Vial: 39
 Acq On : 29 Jul 19 20:06 Operator: MA,SS
 Sample : AZ95336W16 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Jul 31 15:39 2019 Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	271451	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.47	136	1204639	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.51	164	700026	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1391415	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.39	240	1376421	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.14	264	1477657	40.00000	ppb	0.01
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.39	112	1479789	205.56692	ppb	0.00
Spiked Amount 250.000			Recovery =	82.227%		
6) Phenol-D6 (S)	4.63	99	1601430	211.67272	ppb	0.00
Spiked Amount 250.000			Recovery =	84.669%		
22) Nitrobenzene-D5 (S)	5.66	82	781298	104.27144	ppb	0.00
Spiked Amount 125.000			Recovery =	83.417%		
46) 2-Fluorobiphenyl (S)	7.73	172	1966873	100.02662	ppb	0.00
Spiked Amount 125.000			Recovery =	80.022%		
64) 2,4,6-Tribromophenol (S)	9.46	330	686545	227.47175	ppb	0.00
Spiked Amount 250.000			Recovery =	90.989%		
82) Terphenyl-D14 (S)	12.15	244	2467478	89.34280	ppb	0.01
Spiked Amount 125.000			Recovery =	71.474%		
Target Compounds						
50) Dimethyl phthalate	8.22	163	139439	6.60571	ppb	99

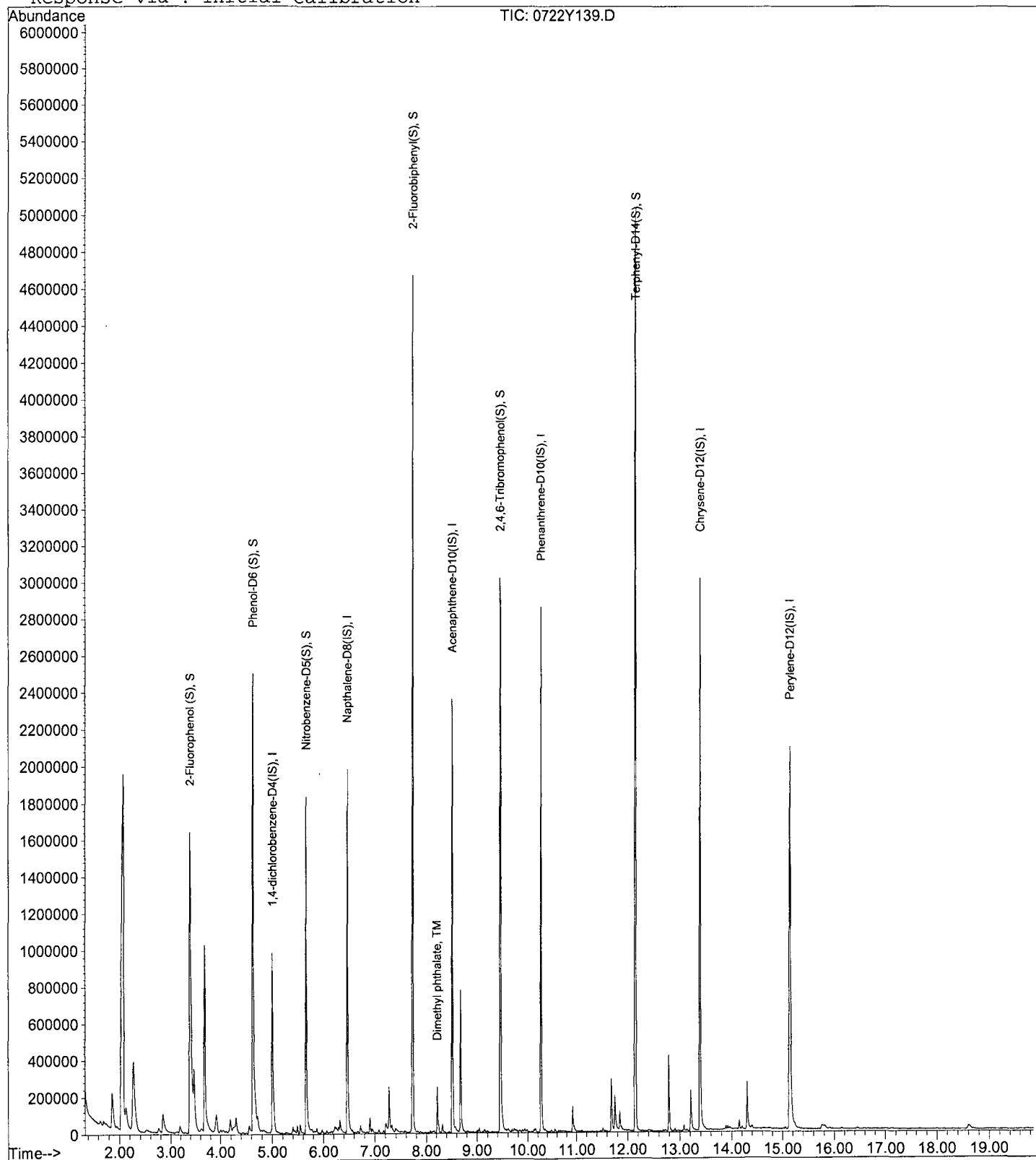
Data File : M:\YODA\DATA\Y190722\0722Y139.D
Acq On : 29 Jul 19 20:06
Sample : AZ95336W16 1/800
Misc :

Vial: 39
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 31 15:39 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y140.D Vial: 40
 Acq On : 29 Jul 19 20:35 Operator: MA,SS
 Sample : AZ95338W16 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Jul 31 15:40 2019 Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	285353	40.00000	ppb	-0.01
21) Napthalene-D8 (IS)	6.48	136	1231017	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	681694	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.26	188	1359875	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.38	240	1342135	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.14	264	1454544	40.00000	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.39	112	1494615	197.51122	ppb	0.00
Spiked Amount 250.000			Recovery =	79.004%		
6) Phenol-D6 (S)	4.63	99	1617478	203.37816	ppb	0.00
Spiked Amount 250.000			Recovery =	81.351%		
22) Nitrobenzene-D5 (S)	5.66	82	782944	102.25209	ppb	-0.01
Spiked Amount 125.000			Recovery =	81.802%		
46) 2-Fluorobiphenyl (S)	7.73	172	1966043	102.67318	ppb	0.00
Spiked Amount 125.000			Recovery =	82.138%		
64) 2,4,6-Tribromophenol (S)	9.46	330	691183	235.16690	ppb	0.00
Spiked Amount 250.000			Recovery =	94.067%		
82) Terphenyl-D14 (S)	12.15	244	2446715	90.85414	ppb	0.00
Spiked Amount 125.000			Recovery =	72.683%		
Target Compounds						
50) Dimethyl phthalate	8.21	163	159872	7.77736	ppb	Qvalue 97

Quantitation Report

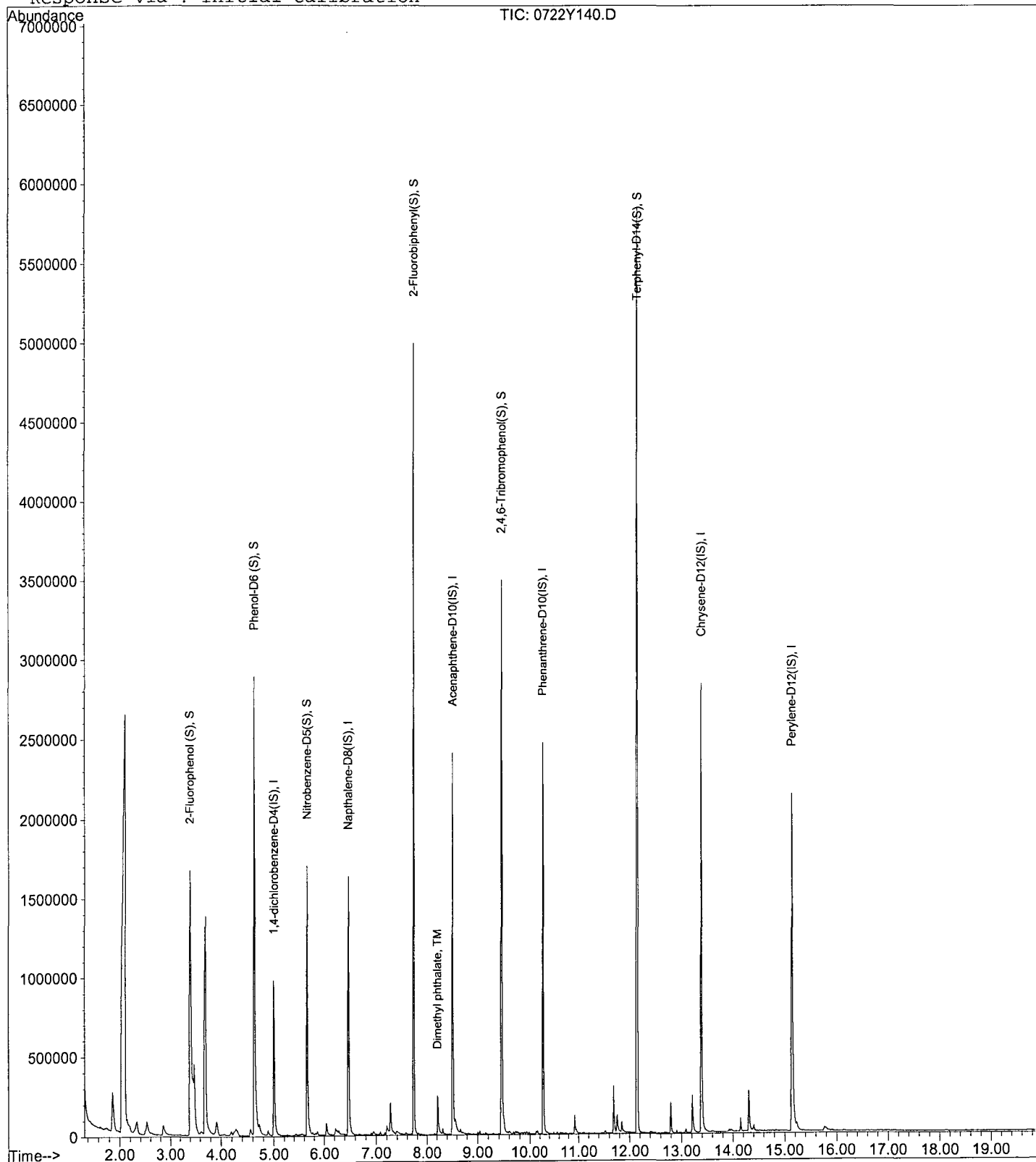
Data File : M:\YODA\DATA\Y190722\0722Y140.D
Acq On : 29 Jul 19 20:35
Sample : AZ95338W16 1/800
Misc :

Vial: 40
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 31 15:40 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y151.D Vial: 51
 Acq On : 31 Jul 19 13:41 Operator: MA,SS
 Sample : AZ95329W16 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Jul 31 15:32 2019 Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.97	152	258494	40.00000	ppb	-0.04
21) Napthalene-D8 (IS)	6.43	136	1104479	40.00000	ppb	-0.04
41) Acenaphthene-D10 (IS)	8.47	164	649624	40.00000	ppb	-0.05
65) Phenanthrene-D10 (IS)	10.21	188	1279979	40.00000	ppb	-0.05
79) Chrysene-D12 (IS)	13.31	240	1264846	40.00000	ppb	-0.07
89) Perylene-D12 (IS)	15.03	264	1405395	40.00000	ppb	-0.10

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol (S)	3.39	112	765400	111.65620	ppb	0.00
Spiked Amount 250.000			Recovery =	44.662%		
6) Phenol-D6 (S)	4.60	99	1148733	159.44724	ppb	-0.03
Spiked Amount 250.000			Recovery =	63.779%		
22) Nitrobenzene-D5 (S)	5.63	82	730741	106.36814	ppb	-0.04
Spiked Amount 125.000			Recovery =	85.094%		
46) 2-Fluorobiphenyl (S)	7.69	172	1938114	106.21130	ppb	-0.04
Spiked Amount 125.000			Recovery =	84.969%		
64) 2,4,6-Tribromophenol (S)	9.40	330	261826	93.48100	ppb	-0.05
Spiked Amount 250.000			Recovery =	37.392%		
82) Terphenyl-D14 (S)	12.08	244	2504103	98.66704	ppb	-0.06
Spiked Amount 125.000			Recovery =	78.934%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
32) Naphthalene	6.46	128	1178546	51.36889	ppb	99
39) 2-Methylnaphthalene	7.26	142	226306	14.69531	ppb	96
40) 1-Methylnaphthalene	7.37	142	312362	19.64465	ppb	98
50) Dimethyl phthalate	8.17	163	85931	4.38669	ppb	100
57) Dibenzofuran	8.72	168	21860	0.90226	ppb	97
80) Benzidine	11.81	184	290870	32.07320	ppb	98
86) Bis (2-ethylhexyl) phthala	13.30	149	15986	0.86628	ppb	95

Quantitation Report

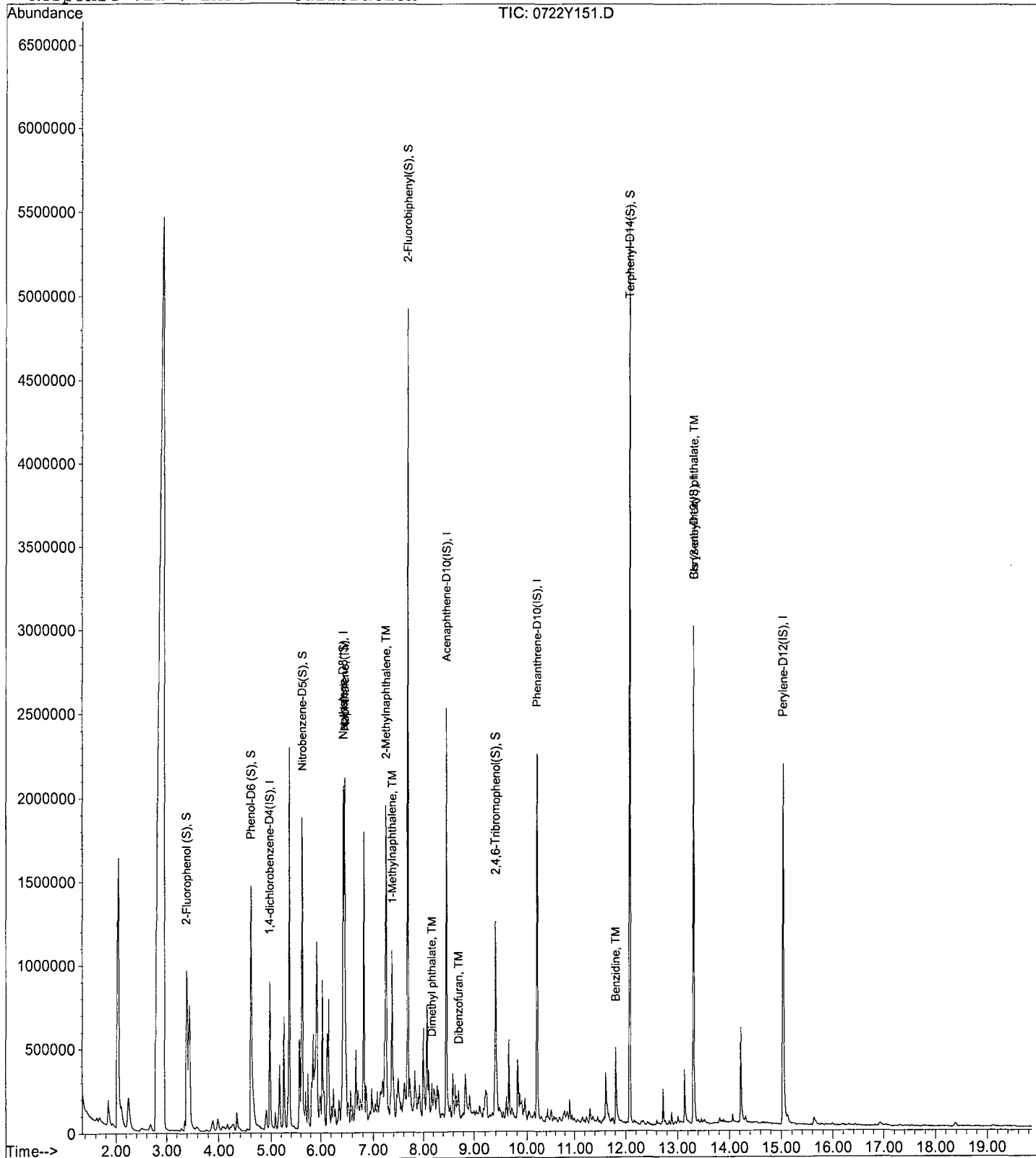
Data File : M:\YODA\DATA\Y190722\0722Y151.D
Acq On : 31 Jul 19 13:41
Sample : AZ95329W16 1/800
Misc :

Vial: 51
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 31 15:32 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y127.D Vial: 27
 Acq On : 29 Jul 19 14:31 Operator: MA,SS
 Sample : 190725A BLK 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Jul 30 12:54 2019 Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	277806	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.47	136	1158336	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	692778	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1407707	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.38	240	1400268	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.14	264	1506562	40.00000	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.38	112	1460893	198.29952	ppb	0.00
Spiked Amount 250.000			Recovery =	79.320%		
6) Phenol-D6 (S)	4.62	99	1546555	199.74326	ppb	0.00
Spiked Amount 250.000			Recovery =	79.897%		
22) Nitrobenzene-D5 (S)	5.66	82	797125	110.63625	ppb	0.00
Spiked Amount 125.000			Recovery =	88.509%		
46) 2-Fluorobiphenyl (S)	7.73	172	1889854	97.11529	ppb	0.00
Spiked Amount 125.000			Recovery =	77.692%		
64) 2,4,6-Tribromophenol (S)	9.46	330	698155	233.73857	ppb	0.00
Spiked Amount 250.000			Recovery =	93.496%		
82) Terphenyl-D14 (S)	12.15	244	2503311	89.09661	ppb	0.00
Spiked Amount 125.000			Recovery =	71.278%		
Target Compounds						Qvalue
50) Dimethyl phthalate	8.22	163	72265	3.45926	ppb	99

Quantitation Report

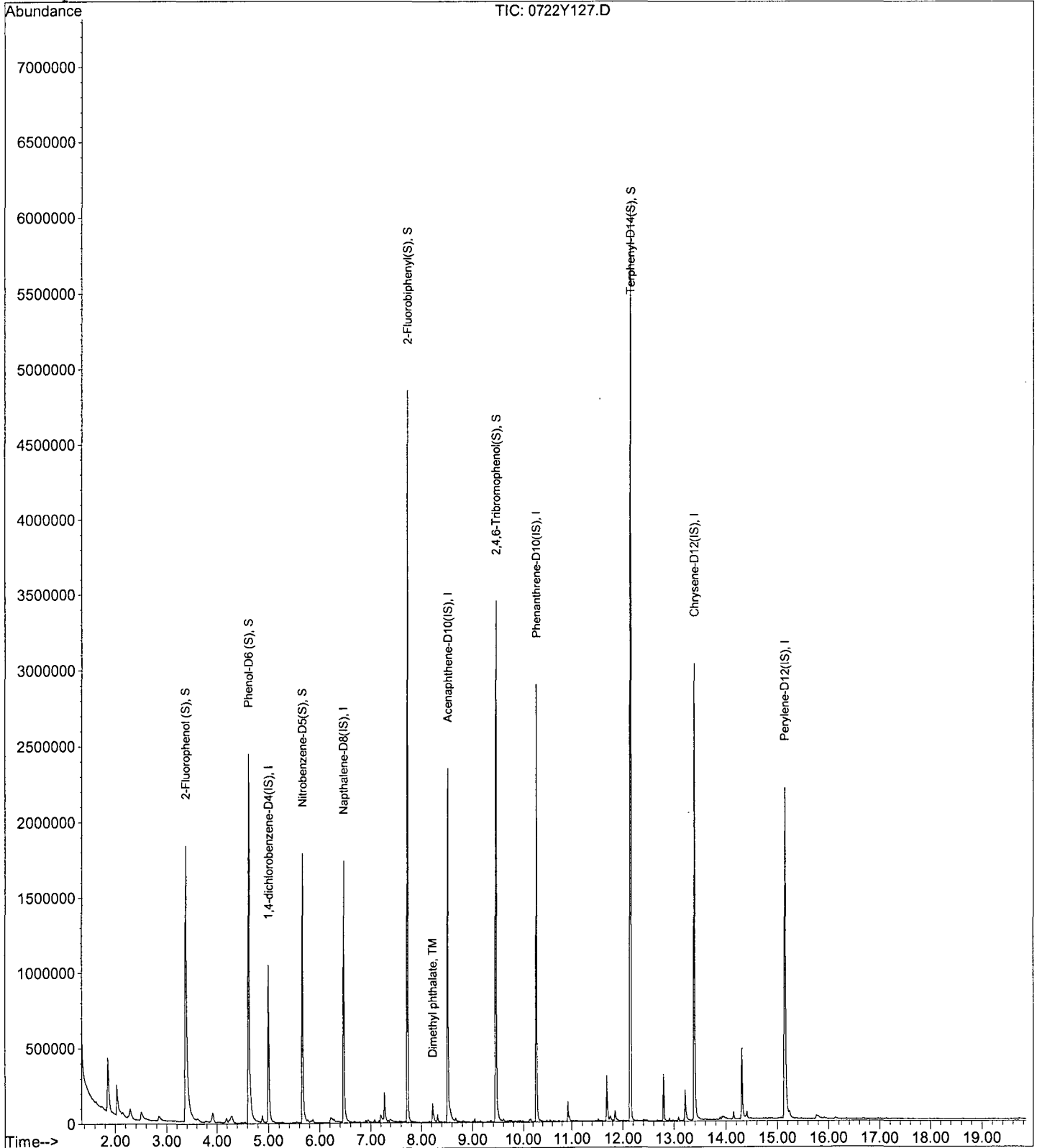
Data File : M:\YODA\DATA\Y190722\0722Y127.D
Acq On : 29 Jul 19 14:31
Sample : 190725A BLK 1/800
Misc :

Vial: 27
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 30 12:54 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y128.D
 Acq On : 29 Jul 19 15:00
 Sample : 190725A LCS-1 1/800
 Misc :

Vial: 28
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Jul 30 7:44 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	276356	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.47	136	1135465	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	688835	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1424540	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.39	240	1320111	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.14	264	1532801	40.00000	ppb	0.01

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.38	112	1507442	205.69161	ppb	0.00
Spiked Amount	250.000		Recovery	=	82.277%	
6) Phenol-D6 (S)	4.63	99	1552644	201.58182	ppb	0.00
Spiked Amount	250.000		Recovery	=	80.633%	
22) Nitrobenzene-D5 (S)	5.66	82	762483	107.95978	ppb	0.00
Spiked Amount	125.000		Recovery	=	86.368%	
46) 2-Fluorobiphenyl (S)	7.73	172	1939755	100.25017	ppb	0.00
Spiked Amount	125.000		Recovery	=	80.200%	
64) 2,4,6-Tribromophenol (S)	9.46	330	702217	236.44425	ppb	0.00
Spiked Amount	250.000		Recovery	=	94.578%	
82) Terphenyl-D14 (S)	12.15	244	2556129	96.50057	ppb	0.01
Spiked Amount	125.000		Recovery	=	77.201%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.47	58	10056	17.74012		83
3) n-Nitrosodimethylamine	1.69	42	80202	79.64552	ppb	97
4) Pyridine	1.70	79	159056	64.07870	ppb	99
7) Phenol	4.65	94	567307	55.95337	ppb	79
8) Aniline	4.63	93	375358	37.89985	ppb	# 77
9) Bis (2-chloroethyl) ether	4.72	63	217717	50.25643	ppb	82
10) 2-Chlorophenol	4.77	128	463125	56.77854	ppb	97
11) 1,3-DCB	4.93	146	422153	45.89832	ppb	99
12) 1,4-DCB	5.02	146	432307	46.86897	ppb	98
13) Benzyl alcohol	5.20	108	261249	57.97476	ppb	99
14) 1,2-DCB	5.20	146	416921	48.94315	ppb	99
15) 2-Methylphenol	5.34	107	353203	54.60229	ppb	98
16) Bis (2-chloroisopropyl) et	5.33	45	311355	45.83534	ppb	90
17) Acetophenone	5.49	105	541019	56.44055	ppb	95
18) 3&4-Methylphenol	5.52	107	849522	110.73417	ppb	100
19) n-Nitrosodi-n-propylamine	5.49	70	252728	55.02907	ppb	96
20) Hexachloroethane	5.57	117	115281	37.31983	ppb	95
23) Nitrobenzene	5.69	77	385945	52.07185	ppb	95
24) Isophorone	5.96	82	701390	53.59579	ppb	94
25) 2-Nitrophenol	6.05	139	279616	59.08269	ppb	95
26) 2,4-Dimethylphenol	6.12	122	365243	49.80024	ppb	100
27) Benzoic acid	6.31	105	264836	56.63702	ppb	99
28) Bis (2-chloroethoxy) metha	6.21	93	455667	53.00963	ppb	98
29) 2,4-Dichlorophenol	6.34	162	399279	57.09065	ppb	100
30) 1,2,4-Trichlorobenzene	6.41	180	365367	47.17909	ppb	99
31) 3,4-Dimethylphenol	6.46	107	502928	53.50875	ppb	97
32) Napthalene	6.50	128	1207962	51.21423	ppb	100
33) 4-Chloroaniline	6.58	127	259412	29.46805	ppb	98
34) 2,6-Dichlorophenol	6.58	162	371710	56.20383	ppb	96
35) Hexachloropropene	6.59	213	170860	39.21799	ppb	99
36) Hexachlorobutadiene	6.63	225	173324	40.75628	ppb	98
37) Caprolactum	7.03	55	127558	46.87172	ppb	87

(#) = qualifier out of range (m) = manual integration
 0722Y128.D Y0722NC.M Sat Aug 24 10:51:47 2019

Data File : M:\YODA\DATA\Y190722\0722Y128.D
 Acq On : 29 Jul 19 15:00
 Sample : 190725A LCS-1 1/800
 Misc :

Vial: 28
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Jul 30 7:44 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.18	107	393406	57.97608	ppb	93
39) 2-Methylnaphthalene	7.31	142	815405	51.50385	ppb	100
40) 1-Methylnaphthalene	7.42	142	832261	50.91308	ppb	98
42) Hexachlorocyclopentadiene	7.47	237	2068	15.90278	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	399915	46.67477	ppb	99
44) 2,4,6-Trichlorophenol	7.66	196	306985	57.57049	ppb	100
45) 2,4,5-Trichlorophenol	7.71	196	302011	53.37080	ppb	99
47) 1,1'-Biphenyl	7.85	154	1073434	46.36114	ppb	99
48) 2-Chloronaphthalene	7.87	162	862481	48.36243	ppb	99
49) 2-Nitroaniline	8.02	65	203246	47.64561	ppb	98
50) Dimethyl phthalate	8.22	163	1135780	54.67997	ppb	100
51) 2,6-DNT	8.31	165	261389	52.65986	ppb	99
52) Acenaphthylene	8.35	152	1360709	48.86841	ppb	100
53) 3-Nitroaniline	8.51	138	221896	43.02694	ppb	# 86
54) Acenaphthene	8.56	154	846998	48.04490	ppb	99
55) 2,4-Dinitrophenol	8.66	184	143386	59.54398	ppb	96
56) 4-Nitrophenol	8.76	65	121966	55.49010	ppb	98
57) Dibenzofuran	8.76	168	1283685	49.96761	ppb	97
58) 2,4-DNT	8.79	165	363397	54.88005	ppb	# 79
59) 2,3,4,6-Tetrachlorophenol	8.93	232	251648	57.25838	ppb	95
60) Diethyl phthalate	9.05	149	1005773	51.43840	ppb	96
61) 4-Chlorophenyl phenyl ethe	9.16	204	526053	50.93559	ppb	97
62) Fluorene	9.16	166	986126	49.45417	ppb	100
63) 4-Nitroaniline	9.25	138	253553	51.18677	ppb	# 86
66) 4,6-Dinitro-2-methylphenol	9.27	198	232864	55.63677	ppb	98
67) Diphenyl amine	9.32	169	1476492	90.14443	ppb	100
68) n-Nitrosodiphenylamine	9.32	169	1476492	90.14443	ppb	100
69) 1,2-Diphenylhydrazine	9.36	77	878906	47.47218	ppb	# 78
70) 4-Bromophenyl phenyl ether	9.74	248	345699	52.81643	ppb	98
71) Hexachlorobenzene	9.81	284	371308	54.60092	ppb	# 83
72) Atrazine	9.95	200	154350	25.35222	ppb	98
73) Pentachlorophenol	10.06	266	174708	79.38893	ppb	99
74) Phenanthrene	10.29	178	1514637	48.22291	ppb	100
75) Anthracene	10.36	178	1569518	48.64459	ppb	100
76) Carbazol	10.56	167	1446404	48.24273	ppb	98
77) Di-n-butylphthalate	10.95	149	1717593	51.06460	ppb	100
78) Fluoranthene	11.70	202	1707565	49.64371	ppb	99
80) Benzidine	11.90	184	35973	3.80056	ppb	98
81) Pyrene	11.97	202	1757523	47.09079	ppb	100
83) Butyl benzylphthalate	12.72	149	767348	49.27085	ppb	97
84) 3,3'-Dichlorobenzidine	13.35	252	360233	33.41601	ppb	98
85) Benz (a) anthracene	13.38	228	1631320	47.43954	ppb	98
86) Bis (2-ethylhexyl) phthala	13.38	149	943466	48.98616	ppb	98
87) Chrysene	13.42	228	1670074	49.22576	ppb	100
88) Di-n-octylphthalate	14.11	149	1846409	51.97947	ppb	100
90) Benzo (b) fluoranthene	14.63	252	1793185	48.29096	ppb	98
91) Benzo (k) fluoranthene	14.67	252	1766043	47.99467	ppb	98
92) Benzo (a) pyrene	15.07	252	1648072	47.37532	ppb	99
93) Indeno (1,2,3-cd) pyrene	16.90	276	1894514	47.52112	ppb	96
94) Dibenz (a,h) anthracene	16.91	278	1750862	51.04296	ppb	97
95) Benzo (g,h,i) perylene	17.42	276	1684365	53.54319	ppb	98

(#) = qualifier out of range (m) = manual integration
 0722Y128.D Y0722NC.M Sat Aug 24 10:51:48 2019

Quantitation Report

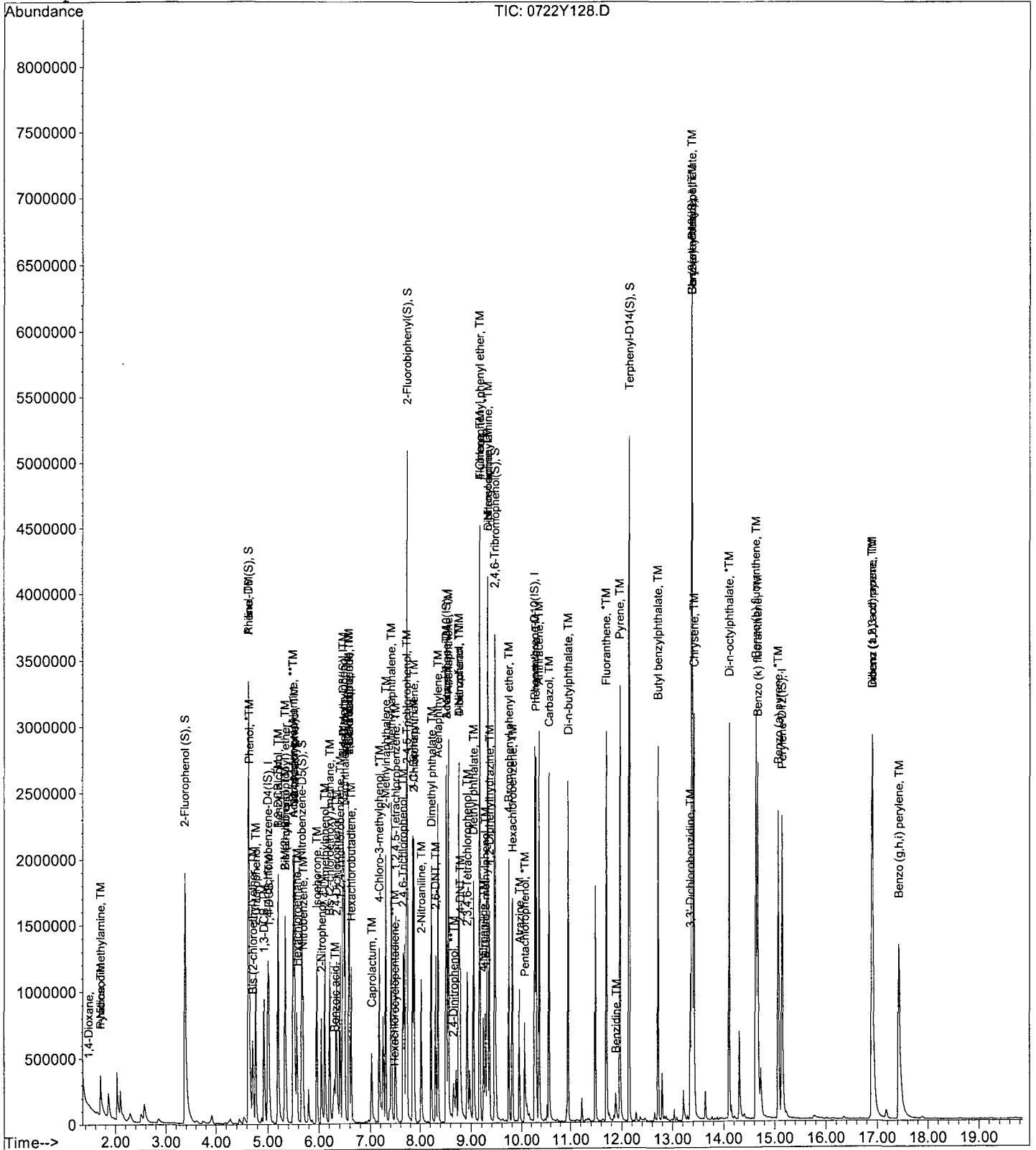
Data File : M:\YODA\DATA\Y190722\0722Y128.D
Acq On : 29 Jul 19 15:00
Sample : 190725A LCS-1 1/800
Misc :

Vial: 28
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 30 7:44 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y129.D
 Acq On : 29 Jul 19 15:27
 Sample : 190725A LCSD-1 1/800
 Misc :

Vial: 29
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Jul 30 7:44 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	277066	40.00000	ppb	0.00
21) Naphthalene-D8 (IS)	6.47	136	1172430	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	702341	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1425790	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.39	240	1330405	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.14	264	1539575	40.00000	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.38	112	1505064	204.84087	ppb	0.00
Spiked Amount	250.000		Recovery	=	81.936%	
6) Phenol-D6 (S)	4.63	99	1576300	204.12867	ppb	0.00
Spiked Amount	250.000		Recovery	=	81.652%	
22) Nitrobenzene-D5 (S)	5.66	82	764577	104.84310	ppb	0.00
Spiked Amount	125.000		Recovery	=	83.874%	
46) 2-Fluorobiphenyl (S)	7.73	172	1935817	98.12276	ppb	0.00
Spiked Amount	125.000		Recovery	=	78.498%	
64) 2,4,6-Tribromophenol (S)	9.46	330	712153	235.17866	ppb	0.00
Spiked Amount	250.000		Recovery	=	94.072%	
82) Terphenyl-D14 (S)	12.15	244	2525165	94.59397	ppb	0.00
Spiked Amount	125.000		Recovery	=	75.675%	
Target Compounds						
2) 1,4-Dioxane	1.46	58	13227	23.27439	#	41
3) n-Nitrosodimethylamine	1.69	42	82425	81.64334	ppb	98
4) Pyridine	1.71	79	118120	47.46491	ppb	98
7) Phenol	4.65	94	558350	54.92882	ppb	# 77
8) Aniline	4.64	93	222092	22.36714	ppb	# 41
9) Bis (2-chloroethyl) ether	4.71	63	218199	50.23862	ppb	84
10) 2-Chlorophenol	4.77	128	458364	56.05084	ppb	96
11) 1,3-DCB	4.93	146	439427	47.65399	ppb	99
12) 1,4-DCB	5.02	146	448125	48.45940	ppb	99
13) Benzyl alcohol	5.20	108	261219	57.81955	ppb	100
14) 1,2-DCB	5.20	146	440504	51.57908	ppb	99
15) 2-Methylphenol	5.34	107	354259	54.62520	ppb	98
16) Bis (2-chloroisopropyl) et	5.33	45	309216	45.40380	ppb	86
17) Acetophenone	5.49	105	541666	56.36325	ppb	96
18) 3&4-Methylphenol	5.52	107	860785	111.91476	ppb	99
19) n-Nitrosodi-n-propylamine	5.49	70	248551	53.98089	ppb	97
20) Hexachloroethane	5.57	117	123476	39.87036	ppb	95
23) Nitrobenzene	5.69	77	386869	50.55084	ppb	95
24) Isophorone	5.96	82	696385	51.53560	ppb	95
25) 2-Nitrophenol	6.05	139	277835	56.85544	ppb	95
26) 2,4-Dimethylphenol	6.12	122	400558	52.89344	ppb	99
27) Benzoic acid	6.32	105	318260	65.91622	ppb	98
28) Bis (2-chloroethoxy) metha	6.21	93	442101	49.80989	ppb	98
29) 2,4-Dichlorophenol	6.34	162	398554	55.19027	ppb	100
30) 1,2,4-Trichlorobenzene	6.41	180	374686	46.85701	ppb	100
31) 3,4-Dimethylphenol	6.46	107	505085	52.04395	ppb	98
32) Naphthalene	6.50	128	1247932	51.24070	ppb	100
33) 4-Chloroaniline	6.59	127	60921	6.70217	ppb	96
34) 2,6-Dichlorophenol	6.58	162	372999	54.62057	ppb	95
35) Hexachloropropene	6.59	213	178690	39.72209	ppb	99
36) Hexachlorobutadiene	6.63	225	182849	41.64043	ppb	98
37) Caprolactum	7.03	55	131013	46.62345	ppb	92

(#) = qualifier out of range (m) = manual integration
 0722Y129.D Y0722NC.M Sat Aug 24 10:51:52 2019

Data File : M:\YODA\DATA\Y190722\0722Y129.D
 Acq On : 29 Jul 19 15:27
 Sample : 190725A LCSD-1 1/800
 Misc :

Vial: 29
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Jul 30 7:44 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	394417	56.29248	ppb	96
39) 2-Methylnaphthalene	7.30	142	833193	50.96813	ppb	99
40) 1-Methylnaphthalene	7.42	142	830942	49.22972	ppb	99
42) Hexachlorocyclopentadiene	7.47	237	3530	17.12080	ppb	98
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	400217	45.81178	ppb	100
44) 2,4,6-Trichlorophenol	7.66	196	302142	55.57264	ppb	99
45) 2,4,5-Trichlorophenol	7.71	196	305419	52.93516	ppb	97
47) 1,1'-Biphenyl	7.85	154	1076655	45.60605	ppb	98
48) 2-Chloronaphthalene	7.87	162	858353	47.20540	ppb	98
49) 2-Nitroaniline	8.02	65	197690	45.45197	ppb	97
50) Dimethyl phthalate	8.22	163	1121727	52.96494	ppb	99
51) 2,6-DNT	8.31	165	261965	51.76102	ppb	97
52) Acenaphthylene	8.35	152	1347073	47.44837	ppb	100
53) 3-Nitroaniline	8.52	138	59283	11.27427	ppb	# 89
54) Acenaphthene	8.56	154	839838	46.72266	ppb	98
55) 2,4-Dinitrophenol	8.66	184	132755	55.59919	ppb	96
56) 4-Nitrophenol	8.77	65	125521	56.00932	ppb	87
57) Dibenzofuran	8.76	168	1279701	48.85464	ppb	98
58) 2,4-DNT	8.79	165	352656	52.23380	ppb	# 80
59) 2,3,4,6-Tetrachlorophenol	8.93	232	254710	56.84061	ppb	93
60) Diethyl phthalate	9.05	149	1013077	50.81561	ppb	96
61) 4-Chlorophenyl phenyl ethe	9.16	204	524506	49.80919	ppb	96
62) Fluorene	9.16	166	979127	48.15892	ppb	99
63) 4-Nitroaniline	9.23	138	203030	40.19910	ppb	96
66) 4,6-Dinitro-2-methylphenol	9.27	198	235188	56.14277	ppb	98
67) Diphenyl amine	9.32	169	1180955	72.03777	ppb	99
68) n-Nitrosodiphenylamine	9.32	169	1180955	72.03777	ppb	99
69) 1,2-Diphenylhydrazine	9.36	77	808845	43.64969	ppb	# 80
70) 4-Bromophenyl phenyl ether	9.74	248	346238	52.85240	ppb	95
71) Hexachlorobenzene	9.81	284	366285	53.81507	ppb	# 86
72) Atrazine	9.95	200	72399	11.88122	ppb	99
73) Pentachlorophenol	10.06	266	182751	82.97094	ppb	100
74) Phenanthrene	10.30	178	1509697	48.02349	ppb	99
75) Anthracene	10.36	178	1554937	48.15043	ppb	99
76) Carbazol	10.56	167	1430382	47.66651	ppb	97
77) Di-n-butylphthalate	10.96	149	1682784	49.98586	ppb	99
78) Fluoranthene	11.70	202	1692530	49.16346	ppb	98
80) Benzidine	11.92	184	3036	0.31827	ppb	# 66
81) Pyrene	11.96	202	1751337	46.56196	ppb	99
83) Butyl benzylphthalate	12.72	149	758575	48.33067	ppb	96
84) 3,3'-Dichlorobenzidine	13.35	252	136766	12.58855	ppb	98
85) Benz (a) anthracene	13.38	228	1597497	46.09650	ppb	99
86) Bis (2-ethylhexyl) phthala	13.38	149	962760	49.60115	ppb	97
87) Chrysene	13.42	228	1679634	49.12447	ppb	99
88) Di-n-octylphthalate	14.11	149	1842859	51.47811	ppb	99
90) Benzo (b) fluoranthene	14.63	252	1751256	46.95429	ppb	99
91) Benzo (k) fluoranthene	14.67	252	1787427	48.36208	ppb	99
92) Benzo (a) pyrene	15.06	252	1645583	47.09564	ppb	99
93) Indeno (1,2,3-cd) pyrene	16.90	276	1876708	46.86736	ppb	96
94) Dibenz (a,h) anthracene	16.91	278	1743147	50.59445	ppb	98
95) Benzo (g,h,i) perylene	17.42	276	1667967	52.78863	ppb	99

(#) = qualifier out of range (m) = manual integration
 0722Y129.D Y0722NC.M Sat Aug 24 10:51:53 2019

Quantitation Report

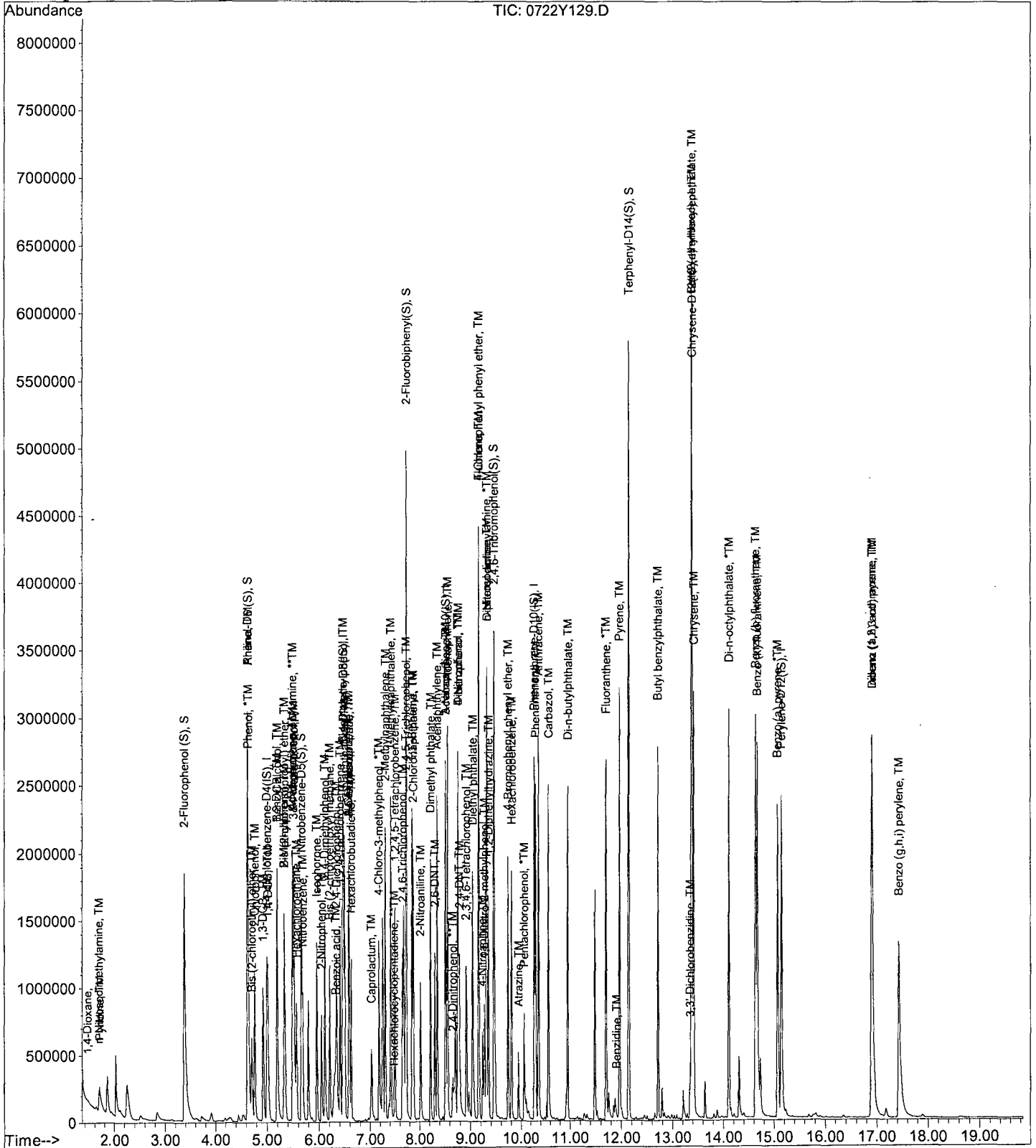
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Acq On : 29 Jul 19 15:27
Sample : 190725A LCSD-1 1/800
Misc :

Vial: 29
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 30 7:44 2019

Quant Results File: Y0722NC.RES

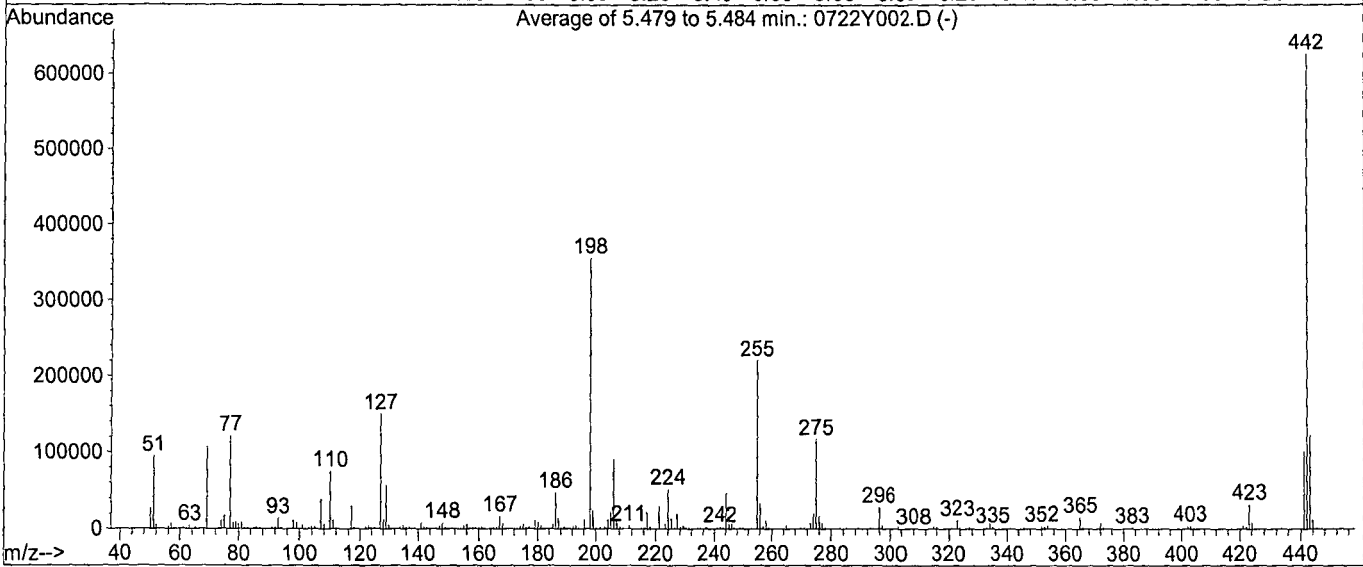
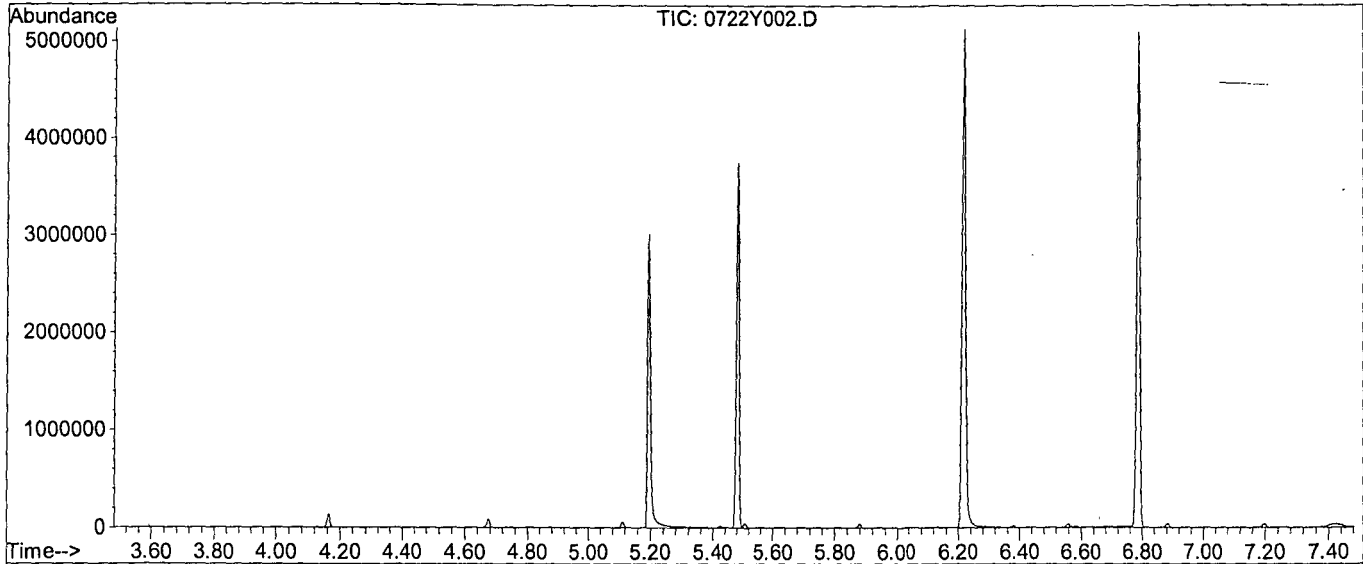
Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y002.D
 Acq On : 22 Jul 19 13:46
 Sample : SV TUNE 07/11/19
 Misc :

Vial: 2
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C



Spectrum Information: Average of 5.479 to 5.484 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	26.6	94405	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.5	531	PASS
127	198	10	80	42.2	149845	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	355456	PASS
199	198	5	9	6.7	23792	PASS
275	198	10	60	32.8	116749	PASS
365	198	1	100	4.2	14956	PASS
441	442	0.01	24	16.1	100755	PASS
442	198	50	500	176.3	626581	PASS
443	442	15	24	19.5	122216	PASS

Data File Name: 0722Y002.D
Data File Path: M:\YODA\DATA\Y190722\
Operator: MA,SS
Date Acquired: 22 Jul 2019 13:46
Method File: DFTPP2.M
Sample Name: SV TUNE 07/11/19
Vial Number: 2
Instrument Name: Yoda

#	Name	Ret Time	Target Response
1)	DDT	6.87	36257100
2)	DDD	6.46	129952
3)	DDE	6.66	0

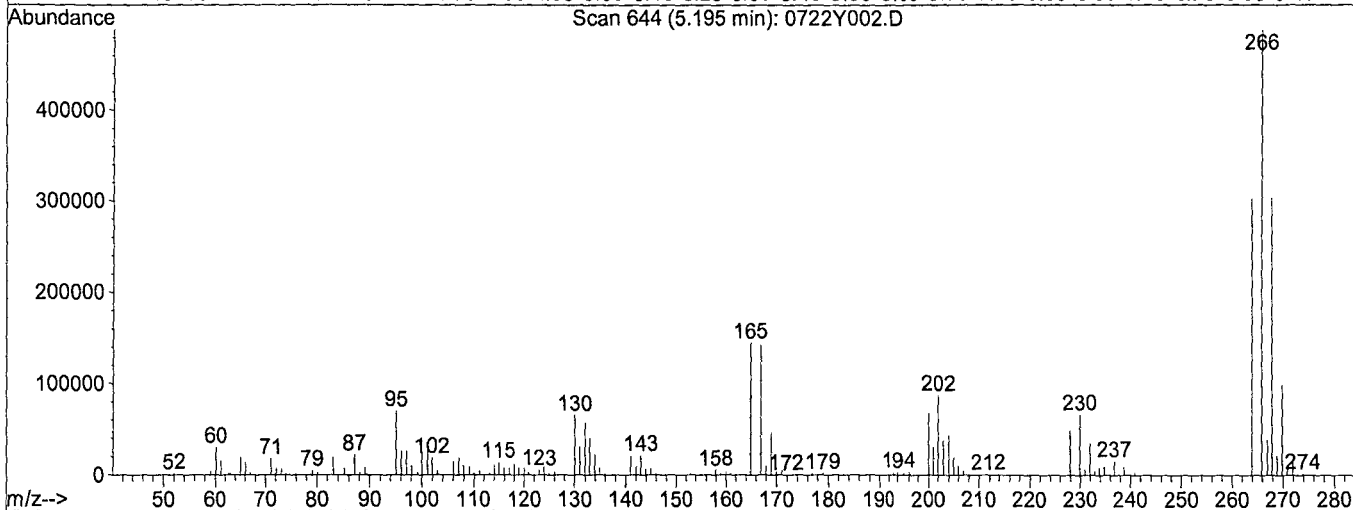
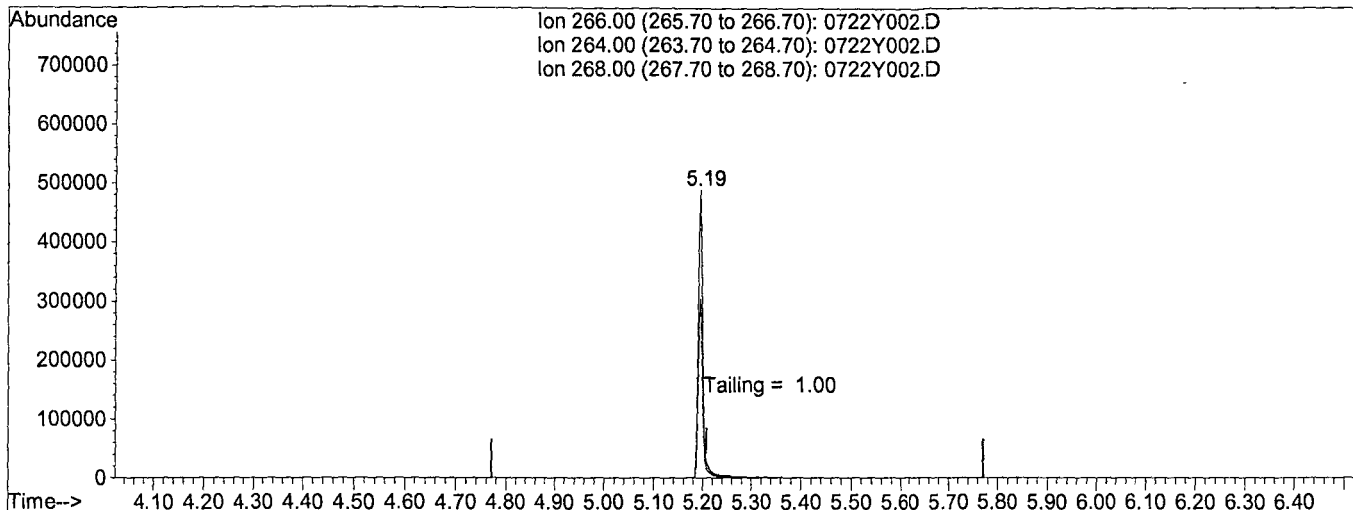
Breakdown 0.36

Quantitation Report

Data File : M:\YODA\DATA\Y190722\0722Y002.D
 Acq On : 22 Jul 19 13:46
 Sample : SV TUNE 07/11/19
 Misc :
 Quant Time: Jul 22 13:41 2019

Vial: 2
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190722\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Tue Jul 16 08:38:31 2019
 Response via : Single Level Calibration



TIC: 0722Y002.D

(5) Pentachlorophenol

5.20min 0.0000

response 3128882

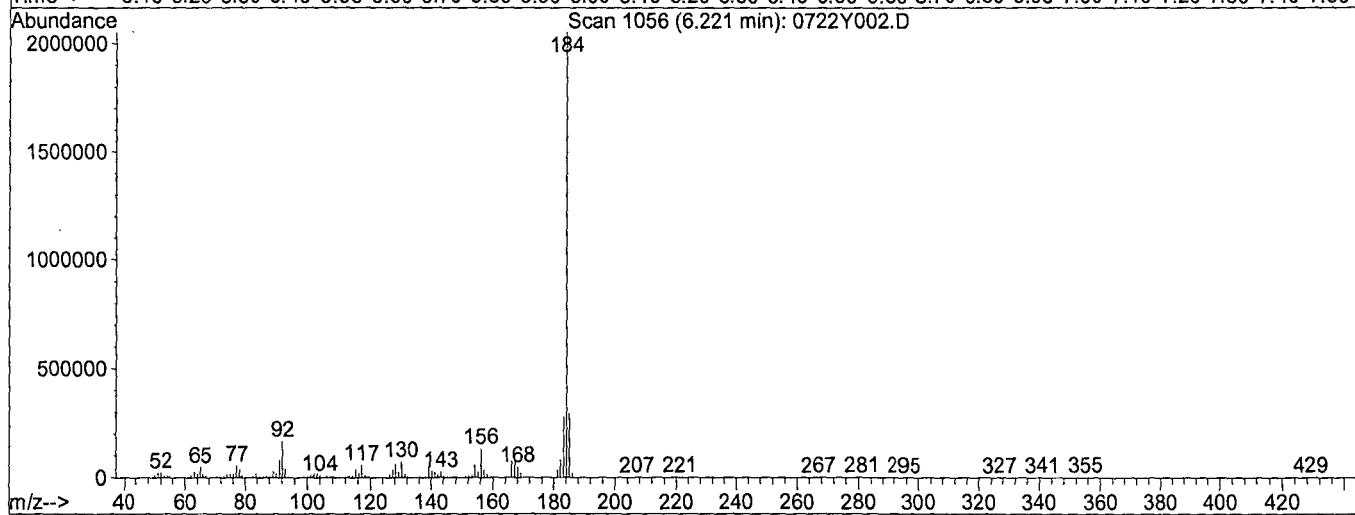
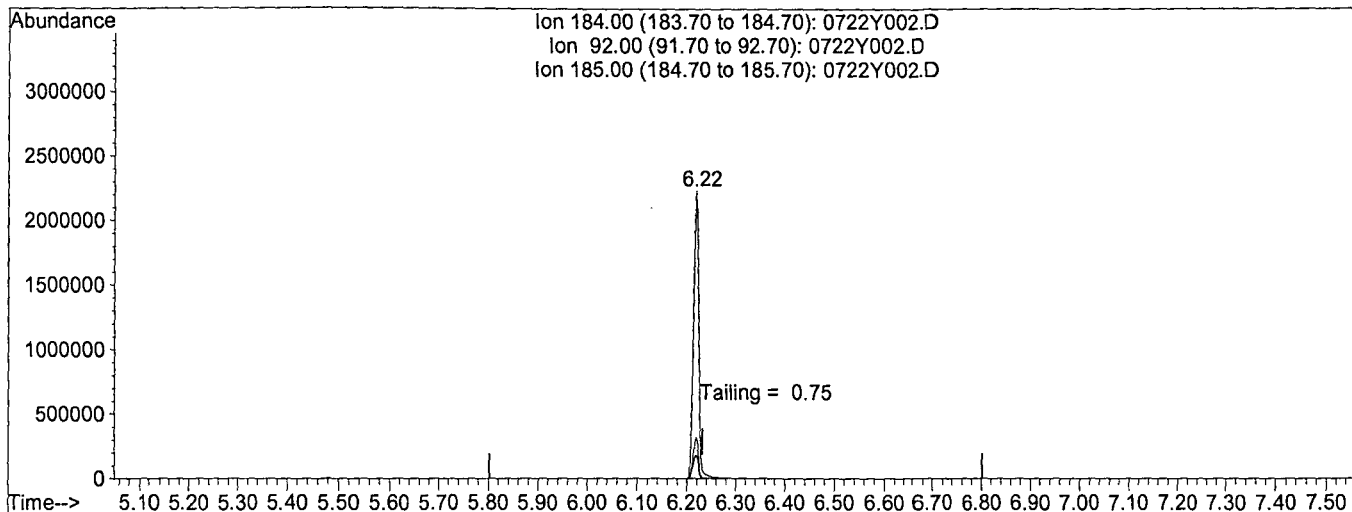
Ion	Exp%	Act%
266.00	100	100
264.00	63.30	61.86
268.00	65.70	62.20
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190722\0722Y002.D
 Acq On : 22 Jul 19 13:46
 Sample : SV TUNE 07/11/19
 Misc :
 Quant Time: Jul 22 13:41 2019

Vial: 2
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190722\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Tue Jul 16 08:38:31 2019
 Response via : Single Level Calibration



TIC: 0722Y002.D

(6) Benzidine

6.22min 0.0000

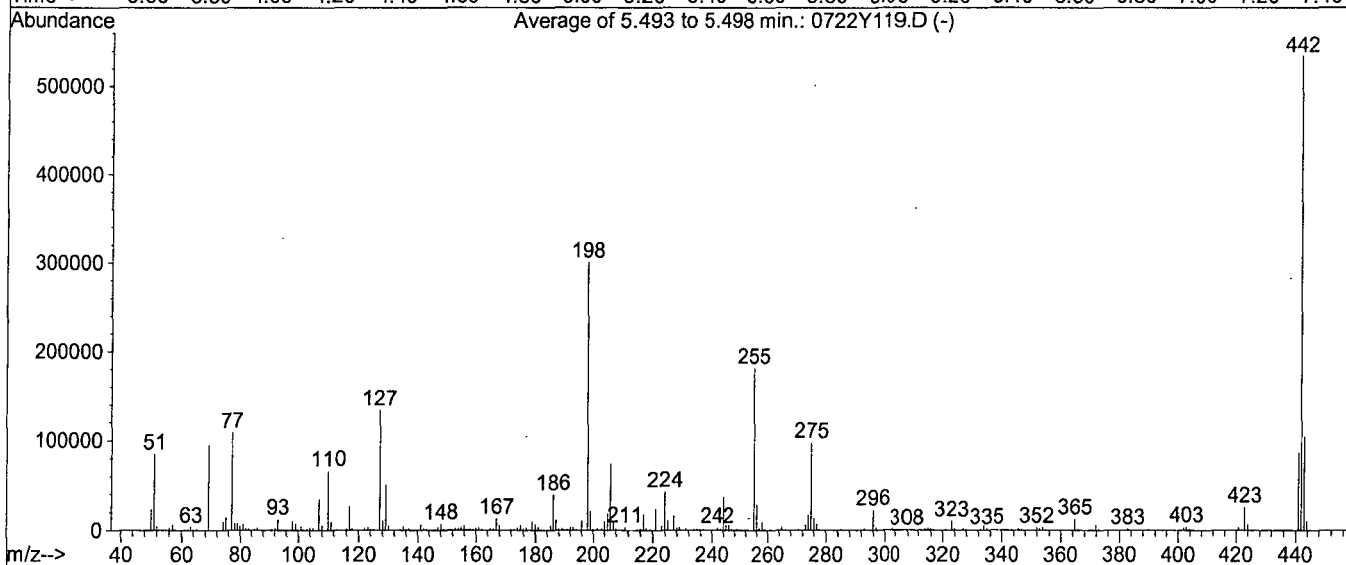
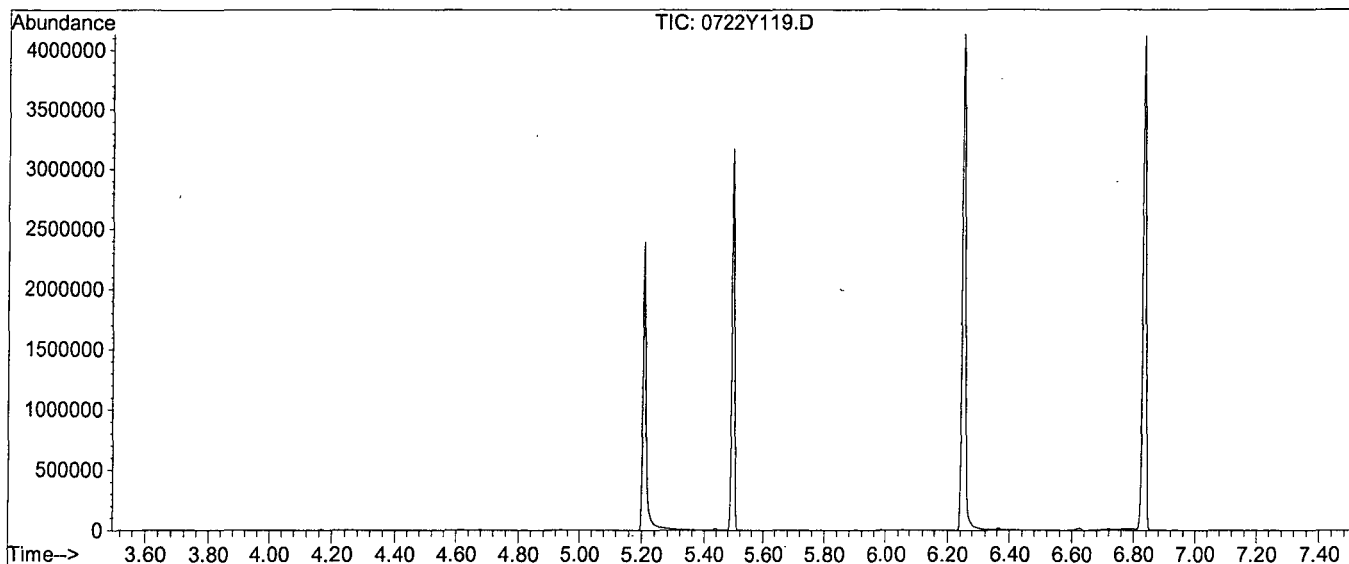
response 16652803

Ion	Exp%	Act%
184.00	100	100
92.00	7.90	8.30
185.00	14.30	14.23
0.00	0.00	0.00

Data File : M:\YODA\DATA\Y190722\0722Y119.D
 Acq On : 29 Jul 19 9:07
 Sample : SV TUNE 7/11/19
 Misc :

Vial: 19
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C



Spectrum Information: Average of 5.493 to 5.498 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	28.1	84492	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.5	452	PASS
127	198	10	80	44.5	133675	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	300501	PASS
199	198	5	9	6.9	20781	PASS
275	198	10	60	32.4	97267	PASS
365	198	1	100	4.2	12550	PASS
441	442	0.01	24	16.3	86808	PASS
442	198	50	500	177.6	533739	PASS
443	442	15	24	19.6	104669	PASS

Data File Name: 0722Y119.D
Data File Path: M:\YODA\DATA\Y190722\
Operator: MA,SS
Date Acquired: 29 Jul 2019 09:07
Method File: DFTPP2.M
Sample Name: SV TUNE 7/11/19
Vial Number: 19
Instrument Name: Yoda

#	Name	Ret Time	Target Response
1)	DDT	6.84	30611700
2)	DDD	6.63	218403
3)	DDE	6.77	0

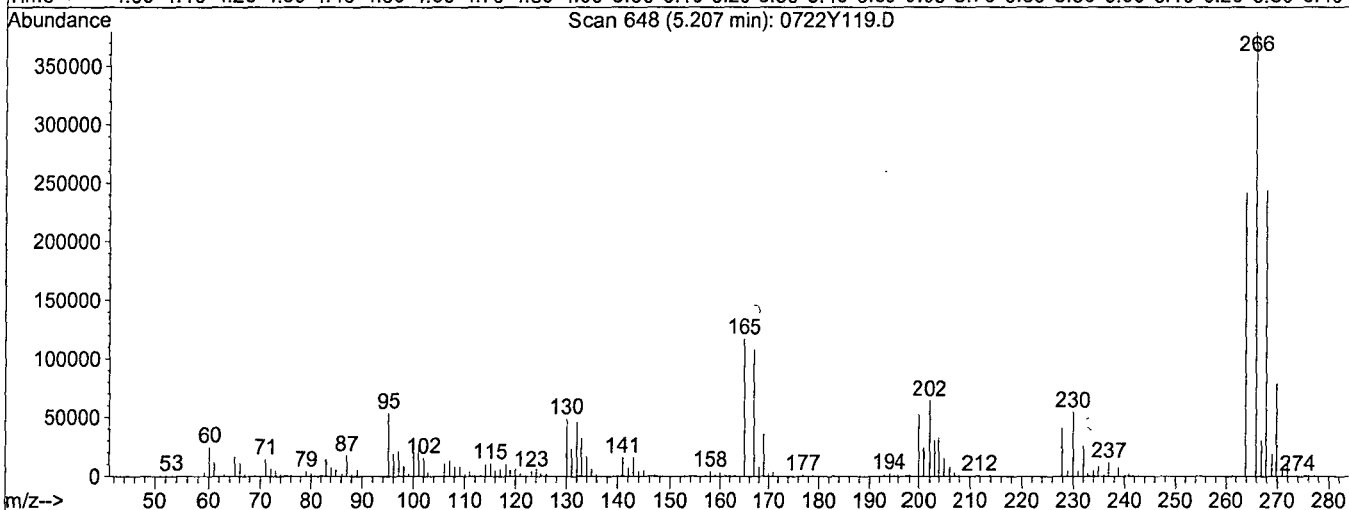
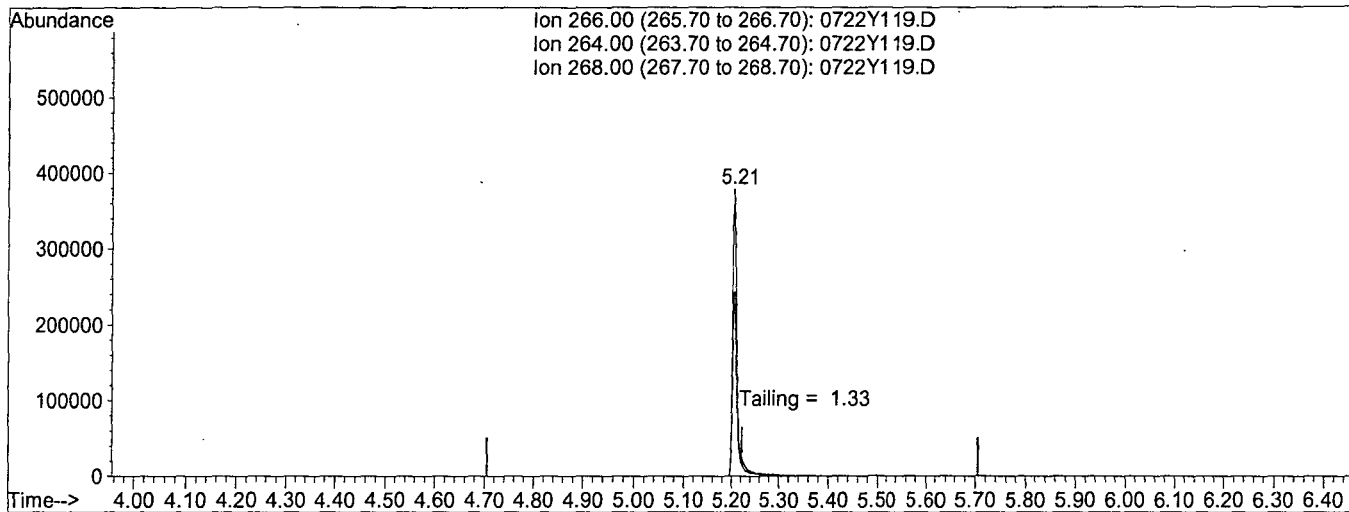
Breakdown 0.71

Quantitation Report

Data File : M:\YODA\DATA\Y190722\0722Y119.D
 Acq On : 29 Jul 19 9:07
 Sample : SV TUNE 7/11/19
 Misc :
 Quant Time: Jul 29 9:04 2019

Vial: 19
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res.

Method : M:\YODA\DATA\Y190722\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Tue Jul 23 10:22:22 2019
 Response via : Single Level Calibration



TIC: 0722Y119.D

(5) Pentachlorophenol

5.21min 0.0000

response 2535809

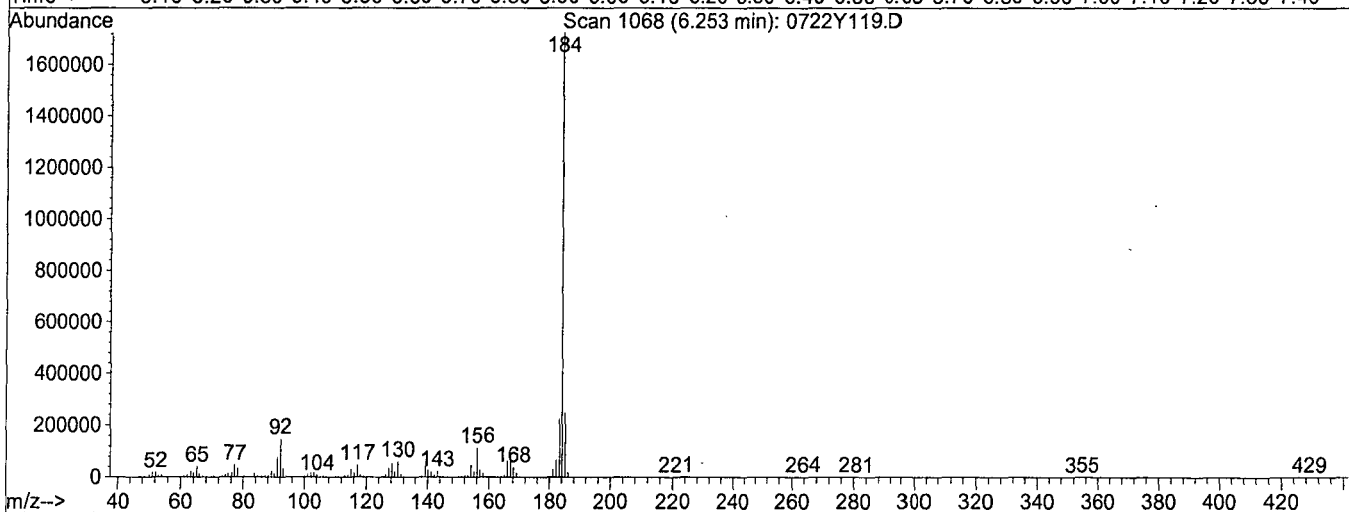
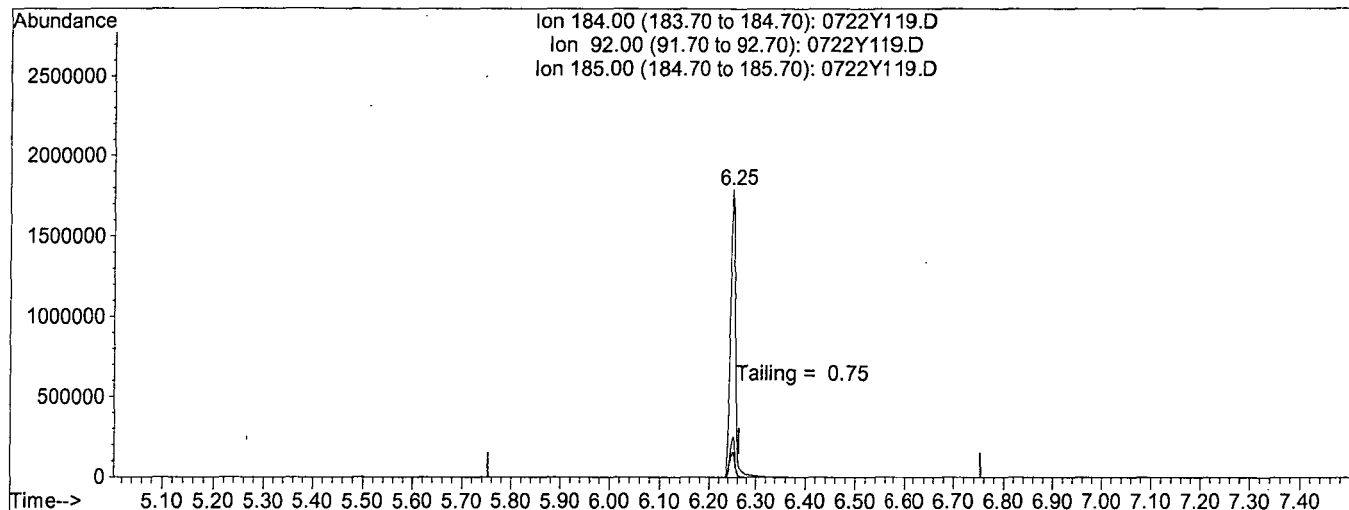
Ion	Exp%	Act%
266.00	100	100
264.00	66.20	61.24
268.00	69.40	63.48
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190722\0722Y119.D
 Acq On : 29 Jul 19 9:07
 Sample : SV TUNE 7/11/19
 Misc :
 Quant Time: Jul 29 9:04 2019

Vial: 19
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190722\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Tue Jul 23 10:22:22 2019
 Response via : Single Level Calibration



TIC: 0722Y119.D

(6) Benzidine

6.25min 0.0000

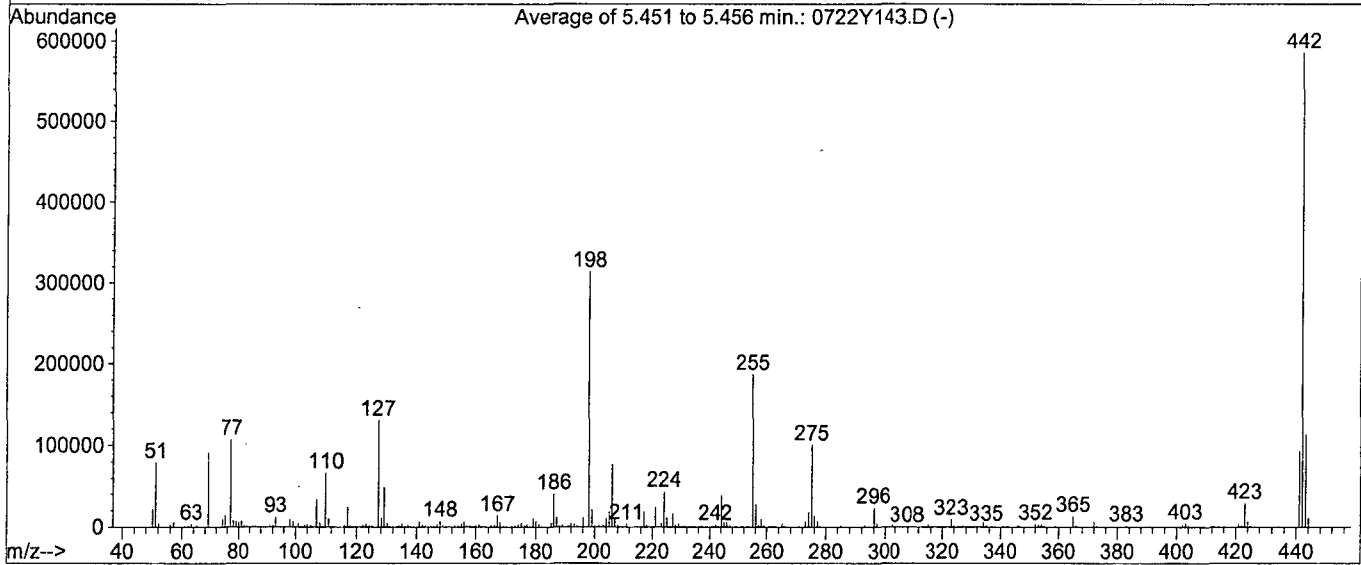
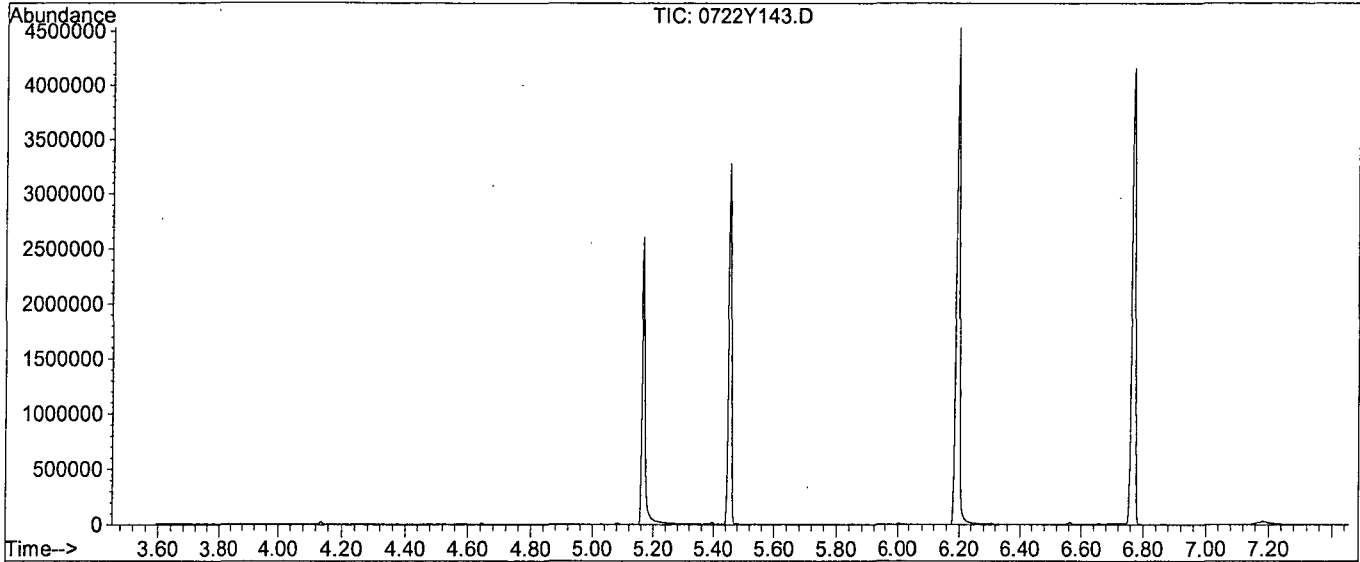
response 14109616

Ion	Exp%	Act%
184.00	100	100
92.00	8.60	8.82
185.00	14.80	14.02
0.00	0.00	0.00

Data File : M:\YODA\DATA\Y190722\0722Y143.D
 Acq On : 31 Jul 19 9:45
 Sample : SV TUNE 7/11/19
 Misc :

Vial: 43
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C



Spectrum Information: Average of 5.451 to 5.456 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	25.1	78774	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.3	289	PASS
127	198	10	80	41.5	130224	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	313664	PASS
199	198	5	9	6.7	20979	PASS
275	198	10	60	31.9	100181	PASS
365	198	1	100	4.1	12894	PASS
441	442	0.01	24	15.8	92528	PASS
442	198	50	500	186.9	586155	PASS
443	442	15	24	19.3	112939	PASS

Data File Name: 0722Y143.D
Data File Path: M:\YODA\DATA\Y190722\
Operator: MA,SS
Date Acquired: 31 Jul 2019 09:45
Method File: DFTPP2.M
Sample Name: SV TUNE 7/11/19
Vial Number: 43
Instrument Name: Yoda

#	Name	Ret Time	Target Response
1)	DDT	6.77	31872500
2)	DDD	6.31	137712
3)	DDE	6.56	140580

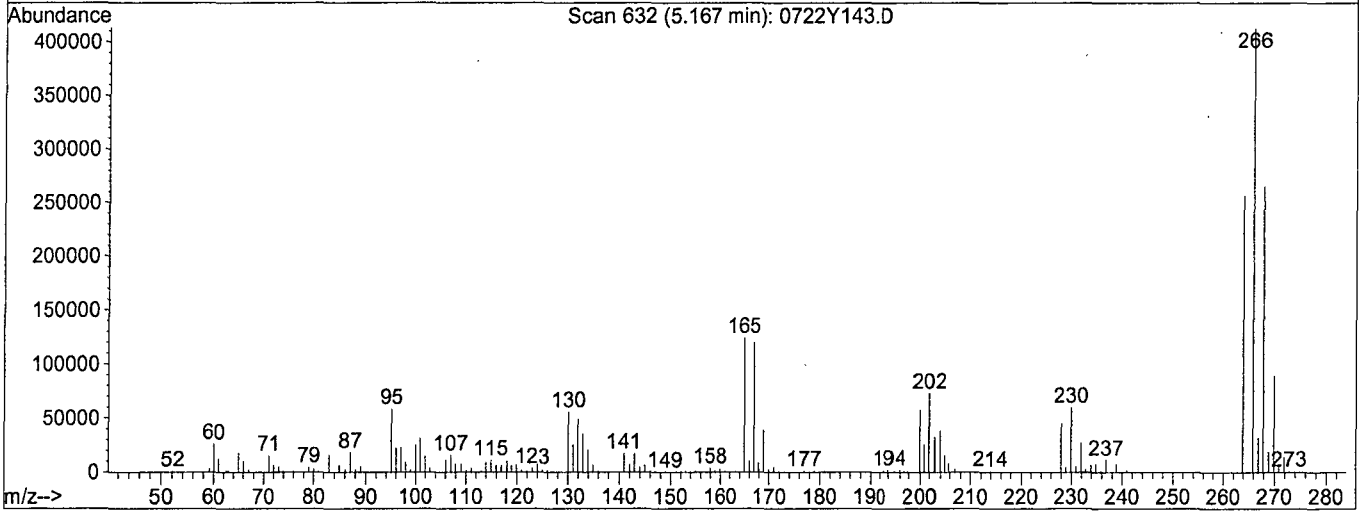
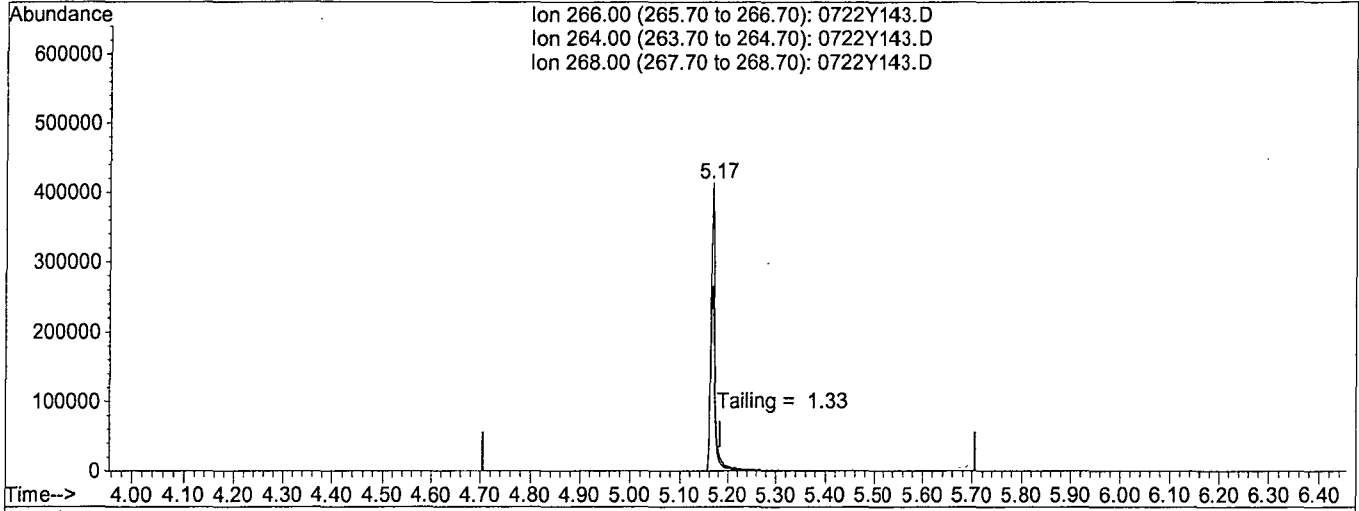
Breakdown 0.87

Quantitation Report

Data File : M:\YODA\DATA\Y190722\0722Y143.D
 Acq On : 31 Jul 19 9:45
 Sample : SV TUNE 7/11/19
 Misc :
 Quant Time: Jul 31 9:44 2019

Vial: 43
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190722\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Tue Jul 23 10:22:22 2019
 Response via : Single Level Calibration



TIC: 0722Y143.D

(5) Pentachlorophenol

5.17min 0.0000

response 2600402

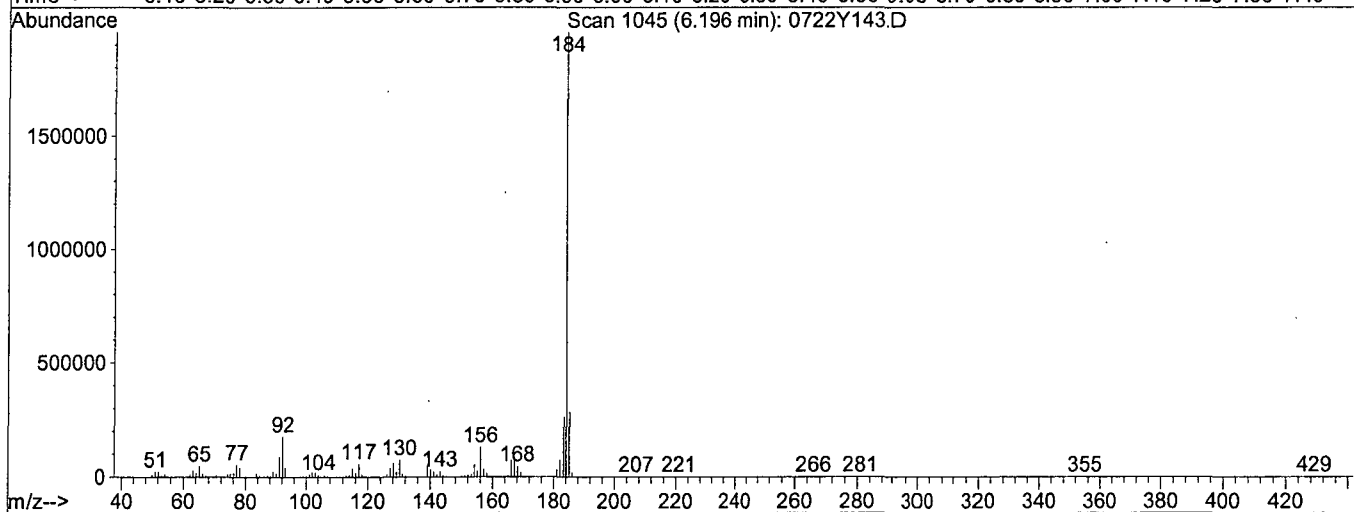
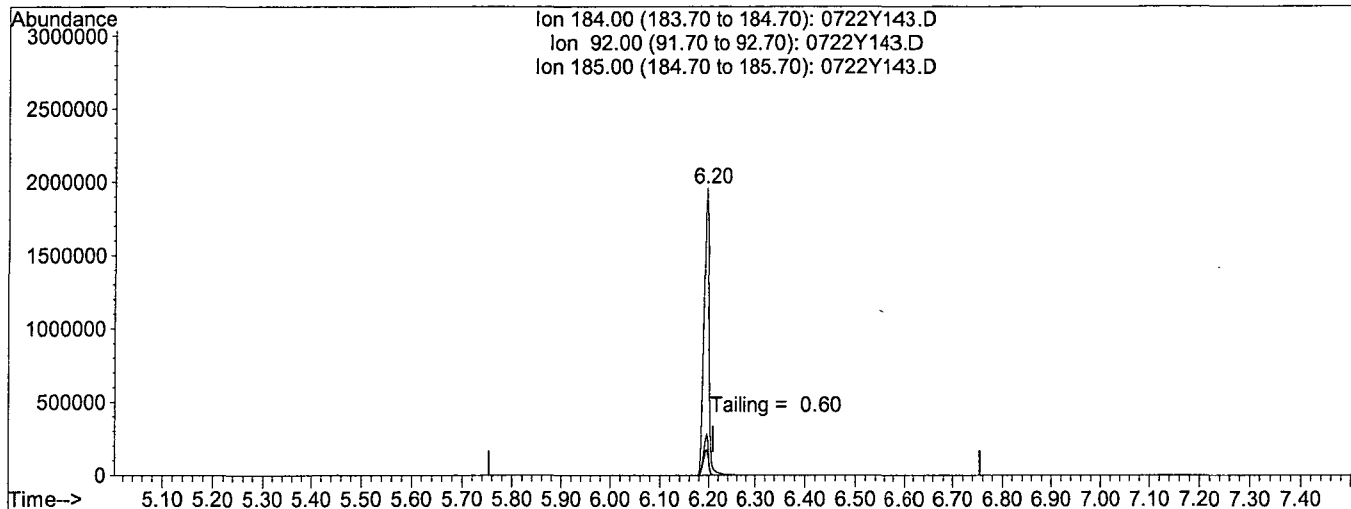
Ion	Exp%	Act%
266.00	100	100
264.00	66.20	63.01
268.00	69.40	65.22
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190722\0722Y143.D
 Acq On : 31 Jul 19 9:45
 Sample : SV TUNE 7/11/19
 Misc :
 Quant Time: Jul 31 9:44 2019

Vial: 43
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190722\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Tue Jul 23 10:22:22 2019
 Response via : Single Level Calibration



TIC: 0722Y143.D

(6) Benzidine

6.20min 0.0000

response 14639050

Ion	Exp%	Act%
184.00	100	100
92.00	8.60	8.88
185.00	14.80	14.12
0.00	0.00	0.00

Name of Final Standard

8270 Full Scan Standard Curve

Prep'd By
(Initials)

GA

Prep Date

07/12/19

Exp Date

10/20/19

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	4 uL	200uL	MC 56258 192uL	4 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	4 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	4 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	5 uL	200uL	MC 56258 190uL	5 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	5 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	4 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	5 uL	100uL	MC 56258 90uL	10 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	5 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	10 uL	100uL	MC 56258 80uL	20 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	10 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	20 uL	100uL	MC 56258 60uL	40 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	20 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	50 uL	200 uL	MC 56258 100uL	50 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	50 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	4 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	30 uL	100uL	MC 56258 40uL	60 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	30 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	40 uL	100uL	MC 56258 20uL	80 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	40 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	50 uL	100uL	na	100 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	50 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	2 uL	*	*	*

Name of Final Standard **8270 Full Scan Spike**
 Prep Date **03/05/19**
 Exp Date **10/20/19**

Prep'd By (Initials) **GA**

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
10001	Absolute	10001	2000	051018-39827 051018-39828	03/05/20	2.0 mL	20 mL	NA	200 ug/mL
10002	Absolute	10002	2000	051018-39832 051018-39833	03/05/20	2.0 mL	*	*	200 ug/mL
10004	Absolute	10004	2000	031618-39836 031618-39839	01/30/20	2.0 mL	*	*	200 ug/mL
10005	Absolute	10005	2000	032018-40011 032018-40012	01/30/20	2.0 mL	*	*	200 ug/mL
10006	Absolute	10006	2000	071318-39842 071318-39843	01/30/20	2.0 mL	*	*	200 ug/mL
10007	Absolute	10007	2000	080116-40016 080116-40017	01/30/20	2.0 mL	*	*	200 ug/mL
10018	Absolute	10018	2000	062718-39847 062718-39848	01/30/20	2.0 mL	*	*	200 ug/mL
70023	Absolute	70023	1000	091217-39852 091217-39853	01/30/20	2.0 mL	*	*	100 ug/mL
82705	Absolute	82705	2000	081418-40020 081418-40021	01/30/20	2.0 mL	*	*	200 ug/mL
94552	Absolute	94552	various	102017-40026 102017-40027	10/20/19	2.0 mL	*	*	various

Name of Final Standard **8270 SS STOCK**
 Prep Date **03/05/19**
 Exp Date **01/08/20**

Prep'd By (Initials) **GA**

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
10001	Absolute	10001	2000	031618-39202	03/05/20	1.0 mL	10 mL	NA	200 ug/mL
10002	Absolute	10002	2000	G34-020217-38182	02/02/20	1.0 mL	*	*	200 ug/mL
10004	Absolute	10004	2000	010815-38625	01/08/20	1.0 mL	*	*	200 ug/mL
10005	Absolute	10005	2000	041317-37804	03/05/20	1.0 mL	*	*	200 ug/mL
10006	Absolute	10006	2000	011718-38827	03/05/20	1.0 mL	*	*	200 ug/mL
10007	Absolute	10007	2000	020515-38627	02/05/20	1.0 mL	*	*	200 ug/mL
10018	Absolute	10018	2000	G34-030216-38195	03/05/20	1.0 mL	*	*	200 ug/mL
70023	Absolute	70023	1000	013118-38830	03/05/20	1.0 mL	*	*	100 ug/mL
82705	Absolute	82705	2000	090617-38832	03/05/20	1.0 mL	*	*	200 ug/mL
94552	Absolute	94552	various	013118-40453	01/31/20	1.0 mL	*	*	various

Final **8270 Surrogate 200/400 ppm**
 Prep Date 07/10/19
 Exp Date 06/24/20

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Initial Standard	Supplier	P/N# (or APPL Mix)	Conc.(range)	QA # (or reference)	Exp Date	Aliquot from Stock	Final Volume	Solvent + Lot# (or)	Standard Conc.
Surrogate	Restek	33029	ug/mL	39902	06/24/20	200 uL	5 mL	4,600 uL	400 ug/mL
Surrogate	Restek	31086	ug/mL	40114	06/24/20	200 uL	*	*	200 ug/mL

Final **8270 Internal Standard**
 Prep Date 05/17/19
 Exp Date 05/17/20

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Initial Standard	Supplier	P/N# (or APPL Mix)	Conc.(range)	QA # (or reference)	Exp Date	Aliquot from Stock	Final Volume	Solvent + Lot# (or)	Standard Conc.
e Internal	Restek	31206	2000ug/mL	39543	11/30/24	2 mL	2 mL	NA	2000ug/mL

Name of Final Standard **8270 Full Scan Second Source**
 Prep Date 07/12/19
 Exp Date 01/08/20

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
8270 SS Stock	o2si	8270 SS Stock	200 ug/mL	03/05/19	01/08/20	50 uL	200uL	MC 56258 150uL	50 ug/mL
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	4 uL	*	*	*

Name of Final Standard Semivolatle (SV) Tuning Solution
 Prep Date 07/11/19
 Exp Date 09/30/19

Prep'd By (Initials) JP

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Semivolatle GC/MS Tuning Standard	Ultra Scientific	GCM-150-1	1,000 ug/mL	CR3789-38879	09/30/19	1,250 uL	25 mL	MC #58240	50 ug/mL

Name of Final Standard 8270 Spike
 Prep Date 06/14/19
 Exp Date 06/14/20
 Methanol Lot# 208858

Prep'd By (Initials) JP

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent (or APPL Prep Date)	Final Standard Conc (range)
8270 Stock spike	APPL	8270 STD	200:100 ug/mL	06/14/19	06/14/20	6.25 mL	25 mL	Methanol 208858	50:25 ug/mL

Name of Final Standard 8270 Spike
 Prep Date 05/29/19
 Exp Date 05/16/20
 Methanol Lot# 208858

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent (or APPL Prep Date)	Final Standard Conc (range)
8270 Stock spike	APPL	8270 STD	200:100 ug/mL	05/16/19	5/16/20	12.5 mL	50 mL	Methanol 208858	50:25 ug/mL

Organic Extraction Worksheet

Method	Continuous Liquid/Liquid SVOC 3520C	Extraction Set	190725A	Extraction Method	LIQ003	Units	mL
Spiked ID 1	8270T Spike 6/19/19-12/19/19	Surrogate ID 1	8270 Surrogate 6/24/19-4/10/20				
Spiked ID 2	Sim Spike 7/8/19-7/8/20	Surrogate ID 2	SIM Surrogate 7/1/19-1/24/20				
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC: yes					
Spiked ID 7		Ext. Start Time:	07/25/19 12:30				
Spiked ID 8		Ext. End Time:	07/29/19 10:50				
		GC Requires Extract By:	07/30/19 0:00				
		pH1	2	07/25/19 15:00	Water Bath Temp 1 °C	75/74.2	EWB5 °
		pH2	14	07/26/19 9:25	Water Bath Temp 2 °C	75/74.9	EWB6
		pH3			Water Bath Temp 3 °C		

Spiked By: DL

Date 07/25/19

Witnessed By: CFM

Date 07/25/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	190725A Blk			1,0.050	1,2	800	1	2/1	07/25/19 12:30	
					equip					e-hp51 e-wb5
2	190725A LCS-1	1	1	1	1	800	1	2/1	07/25/19 12:30	
					equip					E-HP50 E-WB5
3	190725A LCS-2	0.125	2	0.050	2	800	1	2/1	07/25/19 12:30	
					equip					E-HP48 E-WB5
4	190725A LCS-1	1	1	1	1	800	1	2/1	07/25/19 12:30	
					equip					E-HP49 E-WB5
5	190725A LCS-2	0.125	2	0.050	2	800	1	2/1	07/25/19 12:30	
					equip					E-HP47 E-WB5
6	AZ95187 AZ95187W14			1,0.050	1,2	800	1	2/1	07/25/19 12:30	89570
					equip					E-HP25 E-WB5
7	AZ95189 MS-1 AZ95189W24	1	1	1	1	800	1	2/1	07/25/19 12:30	
					equip					E-HP26 E-WB5
8	AZ95189 MSD-1 AZ95189W31	1	1	1	1	800	1	2/1	07/25/19 12:30	
					equip					E-HP27 E-WB6
9	AZ95189 MS-2 AZ95189W27	0.125	2	0.050	2	800	1	2/1	07/25/19 12:30	
					equip					E-HP28 E-WB6
10	AZ95189 MSD-2 AZ95189W30	0.125	2	0.050	2	800	1	2/1	07/25/19 12:30	
					equip					E-HP29 E-WB6
11	AZ95189 AZ95189W26			1,0.050	1,2	800	1	2/1	07/25/19 12:30	89570
					equip					E-HP30 E-WB5
12	AZ95190 AZ95190W07			1,0.050	1,2	800	1	2/1	07/25/19 12:30	89570
					equip					E-HP17 E-WB6
13	AZ95329 AZ95329W16			1,0.050	1,2	800	1	2/1	07/25/19 14:35	89593
					equip					E-HP16 E-WB6
14	AZ95330 AZ95330W16			1,0.050	1,2	800	1	2/1	07/25/19 14:35	89593
					equip					E-HP15 E-WB6
15	AZ95332 AZ95332W16			1,0.050	1,2	800	1	2/1	07/25/19 14:35	89593
					equip					E-HP14 E-WB6
16	AZ95334 AZ95334W16			1,0.050	1,2	800	1	2/1	07/25/19 14:35	89593
					equip					E-HP13 E-WB6

Solvent and Lot#	
PH Strips	HC863463
Dichloromethane (DCM)	58240
i+1 H2SO4	7/2/19
10N NaOH	7/16/19
Filter Paper	400163
Acidified Na2SO4	2/28/19
B. Na2SO4	2019010772

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	JF
Date	7/29/19
Time	11:40
Refrigerator	6C-C

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	07/29/19 5:43:13 PM

Reviewed By: Page 484 of 907 Date 7/29/19

Organic Extraction Worksheet



Method	Continuous Liquid/Liquid SVOC 3520C	Extraction Set	190725A	Extraction Method	LIQ003	Units	mL
Spiked ID 1	8270T Spike 6/19/19-12/19/19	Surrogate ID 1	8270	Surrogate 6/24/19-4/10/20			
Spiked ID 2	Sim Spike 7/8/19-7/8/20	Surrogate ID 2	SIM	Surrogate 7/1/19-1/24/20			
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:		yes			
Spiked ID 7		Ext. Start Time:		07/25/19 12:30			
Spiked ID 8		Ext. End Time:		07/29/19 10:50			
		GC Requires Extract By:		07/30/19 0:00			
pH1	2	07/25/19 15:00	Water Bath Temp 1 °C	75/74.2	EWB5	°	
pH2	14	07/26/19 9:25	Water Bath Temp 2 °C	75/74.9	EWB6		
pH3			Water Bath Temp 3 °C				

Spiked By: DL

Date 07/25/19

Witnessed By: CFM

Date 07/25/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
17	AZ95336 			1,0.050	1,2	800	1	2/1	07/25/19 14:35	89593
					equip	E-HP12 E-WB6				
18	AZ95338 			1,0.050	1,2	800	1	2/1	07/25/19 14:35	89593
					equip	E-HP11 e-wb6				

SS 7/29/19

Solvent and Lot#	
PH Strips	HC863463
Dichloromethane (DCM)	58240
I+1 H2SO4	7/2/19
10N NaOH	7/16/19
Filter Paper	400163
Acidified Na2SO4	2/28/19
B. Na2SO4	2019010772

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	
Date	
Time	
Refrigerator	

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	07/29/19 5:43:13 PM

Reviewed By: Page 485 of 997e

Organic Extraction Worksheet

Method	Continuous Liquid/Liquid SVOC 3520C	Extraction Set	190725A	Extraction Method	LIQ003	Units	mL
Spiked ID 1	8270T Spike	Surrogate ID 1	8270 Surrogate				
Spiked ID 2	Sim Spike	Surrogate ID 2	SIM Surrogate				
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:		yes			
Spiked ID 7		Ext. Start Time:		07/25/19 12:30			
Spiked ID 8		Ext. End Time:					
GC Requires Extract By:				07/30/19 0:00			
pH1				Water Bath Temp 1 °C			
pH2				Water Bath Temp 2 °C			
pH3				Water Bath Temp 3 °C			

Spiked By:

Date

Witnessed By:

Date

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	190725A Blk			1,0.050	1,2	800	1	2/1	07/25/19 12:30	
					equip					
2	190725A LCS-1	1	1	1	1	800	1	2/1	07/25/19 12:30	
					equip					
3	190725A LCS-2	0.125	2	0.050	2	800	1	2/1	07/25/19 12:30	
					equip					
4	190725A LCSD-1	1	1	1	1	800	1	2/1	07/25/19 12:30	
					equip					
5	190725A LCSD-2	0.125	2	0.050	2	800	1	2/1	07/25/19 12:30	
					equip					
6	AZ95187 AZ95187W14			1,0.050	1,2	800	1	2/1	07/25/19 12:30	89570
					equip					
7	AZ95189 MS-1 AZ95189W24	1	1	1	1	800	1	2/1	07/25/19 12:30	
					equip					
8	AZ95189 MSD-1 AZ95189W31	1	1	1	1	800	1	2/1	07/25/19 12:30	
					equip					
9	AZ95189 MS-2 AZ95189W27	0.125	2	0.050	2	800	1	2/1	07/25/19 12:30	
					equip					
10	AZ95189 MSD-2 AZ95189W30	0.125	2	0.050	2	800	1	2/1	07/25/19 12:30	
					equip					
11	AZ95189 AZ95189W26			1,0.050	1,2	800	1	2/1	07/25/19 12:30	89570
					equip					
12	AZ95190 AZ95190W07			1,0.050	1,2	800	1	2/1	07/25/19 12:30	89570
					equip					
13	AZ95329 AZ95329W16			1,0.050	1,2	800	1	2/1	07/25/19 14:35	89593
					equip					
14	AZ95330 AZ95330W16			1,0.050	1,2	800	1	2/1	07/25/19 14:35	89593
					equip					
15	AZ95332 AZ95332W16			1,0.050	1,2	800	1	2/1	07/25/19 14:35	89593
					equip					
16	AZ95334 AZ95334W16			1,0.050	1,2	800	1	2/1	07/25/19 14:35	89593
					equip					

Solvent and Lot#	
PH Strips	*
Dichloromethane (DCM)	*
1+1 H2SO4	*
10N NaOH	*
Filter Paper	*
Acidified Na2SO4	*
B. Na2SO4	*

Extraction COC Transfer	
Extraction lab employee Initials	
GC analyst's initials	<i>TS</i>
Date	7/29/19
Time	11:40
Refrigerator	GC

Technician's Initials	
Scanned By	
Sample Preparation	
Extraction	
Concentration	
Modified	07/29/19 11:34:35 AM

Reviewed By:

Date

Organic Extraction Worksheet



Method	Continuous Liquid/Liquid SVOC 3520C	Extraction Set	190725A	Extraction Method	LIQ003	Units	mL
Spiked ID 1	8270T Spike		Surrogate ID 1	8270 Surrogate			
Spiked ID 2	Sim Spike		Surrogate ID 2	SIM Surrogate			
Spiked ID 3			Surrogate ID 3				
Spiked ID 4			Surrogate ID 4				
Spiked ID 5			Surrogate ID 5				
Spiked ID 6			Sufficient Vol for Matrix QC:		yes		
Spiked ID 7			Ext. Start Time:		07/25/19 12:30		
Spiked ID 8			Ext. End Time:				
				GC Requires Extract By:		07/30/19 0:00	
				pH1		Water Bath Temp 1 °C	
				pH2		Water Bath Temp 2 °C	
				pH3		Water Bath Temp 3 °C	

Spiked By:

Date

Witnessed By:

Date

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
17	AZ95336 			1,0.050	1,2 equip	800	1	2/1	07/25/19 14:35	89593
18	AZ95338 			1,0.050	1,2 equip	800	1	2/1	07/25/19 14:35	89593

Solvent and Lot#	
PH Strips	*
Dichloromethane (DCM)	*
1+1 H2SO4	*
10N NaOH	*
Filter Paper	*
Acidified Na2SO4	*
B. Na2SO4	*

Extraction COC Transfer	
Extraction lab employee Initials	
GC analyst's initials	
Date	
Time	
Refrigerator	

Technician's Initials	
Scanned By	
Sample Preparation	
Extraction	
Concentration	
Modified	07/29/19 11:34:35 AM

Reviewed By:

Date

Injection Log

Directory: M:\YODA\DATA\Y190722\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	2	0722Y002.D	1	SV TUNE 07/11/19		22 Jul 19 13:46
2	3	0722Y003.D	1	4ug/ml 8270 07/12/19		22 Jul 19 14:01
3	4	0722Y004.D	1	5ug/ml 8270 07/12/19		22 Jul 19 14:29
4	5	0722Y005.D	1	10ug/ml 8270 07/12/19		22 Jul 19 14:57
5	6	0722Y006.D	1	20ug/ml 8270 07/12/19		22 Jul 19 15:25
6	7	0722Y007.D	1	40ug/ml 8270 07/12/19		22 Jul 19 15:53
7	8	0722Y008.D	1	50ug/ml 8270 07/12/19		22 Jul 19 16:21
8	9	0722Y009.D	1	60ug/ml 8270 07/12/19		22 Jul 19 16:49
9	10	0722Y010.D	1	80ug/ml 8270 07/12/19		22 Jul 19 17:17
10	11	0722Y011.D	1	100ug/ml 8270 07/12/19		22 Jul 19 17:45
11	12	0722Y012.D	1	SS 8270 07/12/19		22 Jul 19 18:13
12	19	0722Y119.D	1	SV TUNE 7/11/19		29 Jul 19 9:07
13	21	0722Y121.D	1	50ug/ml 8270 07/12/19		29 Jul 19 10:45
14	27	0722Y127.D	1.25	190725A BLK 1/800		29 Jul 19 14:31
15	28	0722Y128.D	1.25	190725A LCS-1 1/800		29 Jul 19 15:00
16	29	0722Y129.D	1.25	190725A LCSD-1 1/800		29 Jul 19 15:27
17	36	0722Y136.D	1.25	AZ95330W16 1/800		29 Jul 19 18:43
18	37	0722Y137.D	1.25	AZ95332W16 1/800		29 Jul 19 19:11
19	38	0722Y138.D	1.25	AZ95334W16 1/800		29 Jul 19 19:39
20	39	0722Y139.D	1.25	AZ95336W16 1/800		29 Jul 19 20:06
21	40	0722Y140.D	1.25	AZ95338W16 1/800		29 Jul 19 20:35
22	41	0722Y141.D	1	50ug/ml 8270 07/12/19 (3)		29 Jul 19 21:03
23	43	0722Y143.D	1	SV TUNE 7/11/19		31 Jul 19 9:45
24	44	0722Y144.D	1	50ug/ml 8270 07/12/19 (6)		31 Jul 19 10:06
25	51	0722Y151.D	1.25	AZ95329W16 1/800		31 Jul 19 13:41
26	52	0722Y152.D	1	50ug/ml 8270 07/12/19 (3)		31 Jul 19 14:08

Injection Log

Directory: M:\YODA\DATA\Y190722\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	2	0722Y002.D	1	SV TUNE 07/11/19		22 Jul 19 13:46
2	3	0722Y003.D	1	4ug/ml 8270 07/12/19		22 Jul 19 14:01
3	4	0722Y004.D	1	5ug/ml 8270 07/12/19		22 Jul 19 14:29
4	5	0722Y005.D	1	10ug/ml 8270 07/12/19		22 Jul 19 14:57
5	6	0722Y006.D	1	20ug/ml 8270 07/12/19		22 Jul 19 15:25
6	7	0722Y007.D	1	40ug/ml 8270 07/12/19		22 Jul 19 15:53
7	8	0722Y008.D	1	50ug/ml 8270 07/12/19		22 Jul 19 16:21
8	9	0722Y009.D	1	60ug/ml 8270 07/12/19		22 Jul 19 16:49
9	10	0722Y010.D	1	80ug/ml 8270 07/12/19		22 Jul 19 17:17
10	11	0722Y011.D	1	100ug/ml 8270 07/12/19		22 Jul 19 17:45
11	12	0722Y012.D	1	SS 8270 07/12/19		22 Jul 19 18:13
12	19	0722Y119.D	1	SV TUNE 7/11/19		29 Jul 19 9:07
13	21	0722Y121.D	1	50ug/ml 8270 07/12/19		29 Jul 19 10:45
14	27	0722Y127.D	1.25	190725A BLK 1/800		29 Jul 19 14:31
15	28	0722Y128.D	1.25	190725A LCS-1 1/800		29 Jul 19 15:00
16	29	0722Y129.D	1.25	190725A LCSD-1 1/800		29 Jul 19 15:27
17	36	0722Y136.D	1.25	AZ95330W16 1/800		29 Jul 19 18:43
18	37	0722Y137.D	1.25	AZ95332W16 1/800		29 Jul 19 19:11
19	38	0722Y138.D	1.25	AZ95334W16 1/800		29 Jul 19 19:39
20	39	0722Y139.D	1.25	AZ95336W16 1/800		29 Jul 19 20:06
21	40	0722Y140.D	1.25	AZ95338W16 1/800		29 Jul 19 20:35
22	41	0722Y141.D	1	50ug/ml 8270 07/12/19 (3)		29 Jul 19 21:03
23	43	0722Y143.D	1	SV TUNE 7/11/19		31 Jul 19 9:45
24	44	0722Y144.D	1	50ug/ml 8270 07/12/19 (6)		31 Jul 19 10:06
25	51	0722Y151.D	1.25	AZ95329W16 1/800		31 Jul 19 13:41
26	52	0722Y152.D	1	50ug/ml 8270 07/12/19 (3)		31 Jul 19 14:08

ORGANICS
Calibration Data

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/30/19
Instrument: Linus

Initials: _____

0730L004.D 0730L005.D 0730L006.D 0730L007.D 0730L003.D 0730L008.D 0730L009.D 0730L010.D

	Compound	1	2	3	4	5	6	7	8			Avg	%RSD	Type	r ²	Q	MRF
1	I 1,4-dichlorobenzene-D4(IS)																
2	TM 2-(2-Methoxyethoxy)ethanol	0.0513	0.0486	0.0503	0.0603	0.0658	0.0514	0.0494	0.0498			0.05	12	TM			
3	I Napthalene-D8(IS)																
4	I Acenaphthene-D10(IS)																
5	I Phenanthrene-D10(IS)																
6	I Chrysene-D12(IS)																
7	I Perylene-D12(IS)																
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
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32																	
33																	
34																	
35																	

Data File : M:\LINUS\DATA\L190730M\0730L003.D Vial: 3
 Acq On : 30 Jul 19 11:54 Operator: MA
 Sample : 500ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 30 15:11 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.15	152	1252960m	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.06	136	4766611	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3290611	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	6280174	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	7882794	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	8242249	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.72	45	1031220	602.48523	ppb	100

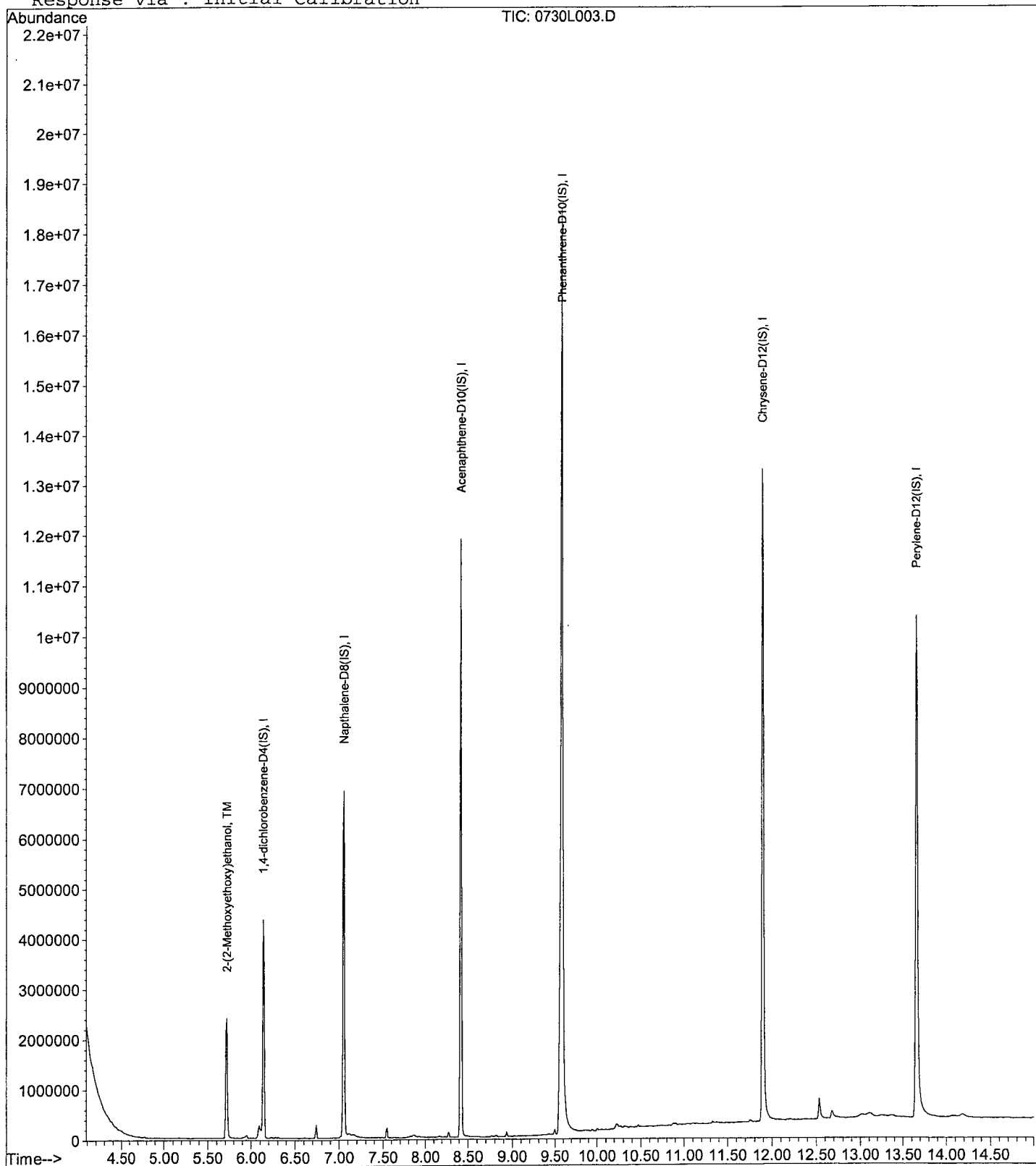
Data File : M:\LINUS\DATA\L190730M\0730L003.D
Acq On : 30 Jul 19 11:54
Sample : 500ug/ml MEE 04/30/19
Misc :

Vial: 3
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:11 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration

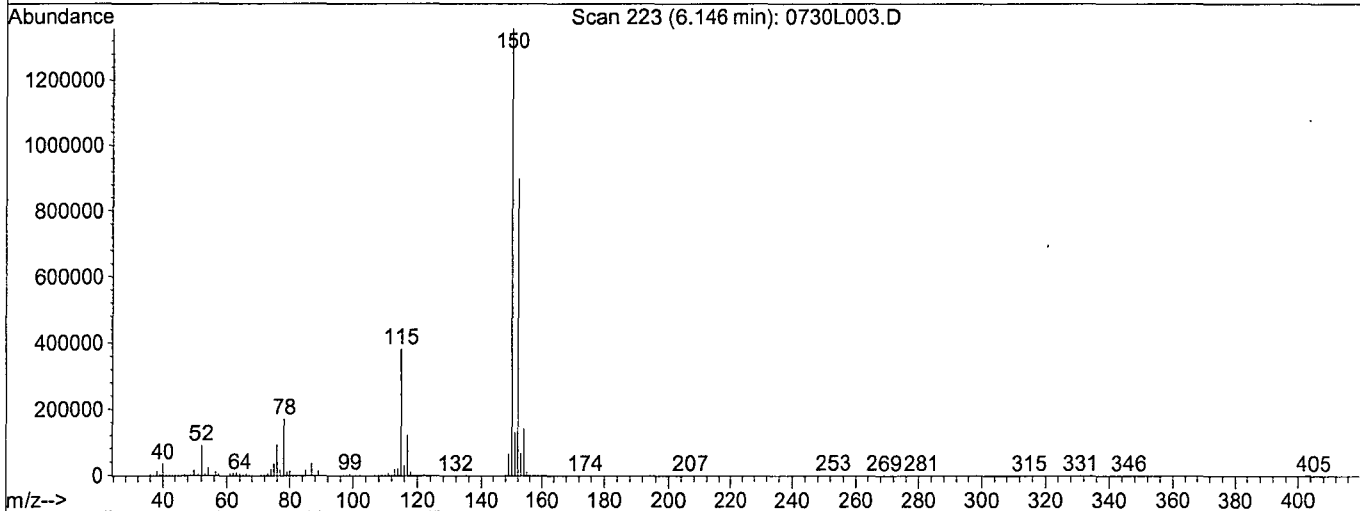
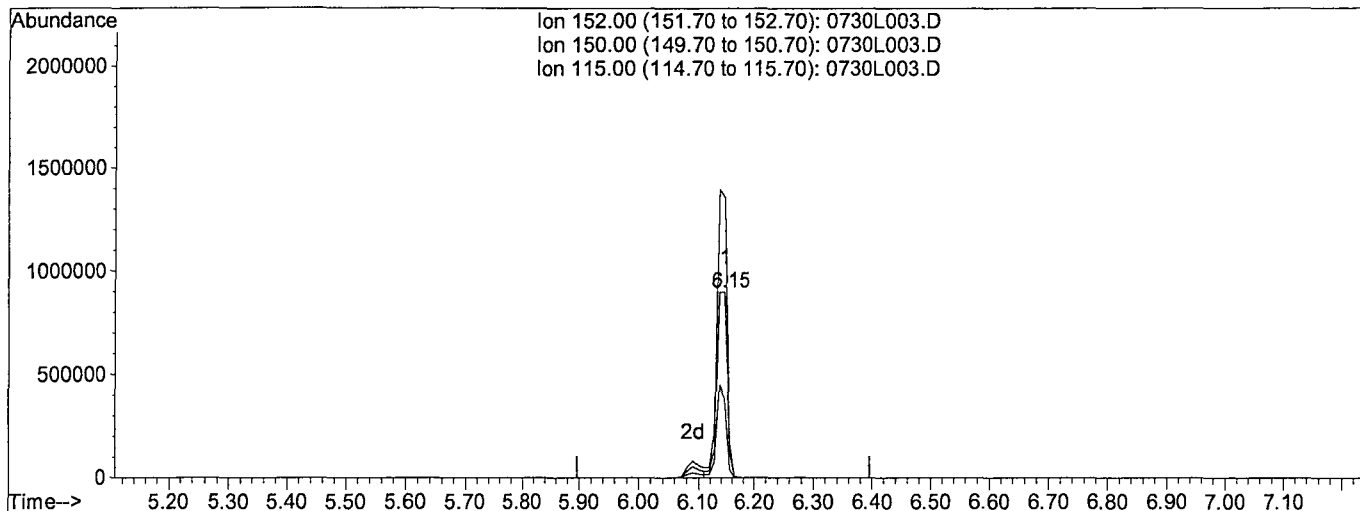


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L003.D
 Acq On : 30 Jul 19 11:54
 Sample : 500ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:11 2019

Vial: 3
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L003.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.15min 40.0000ppb

response 1162118

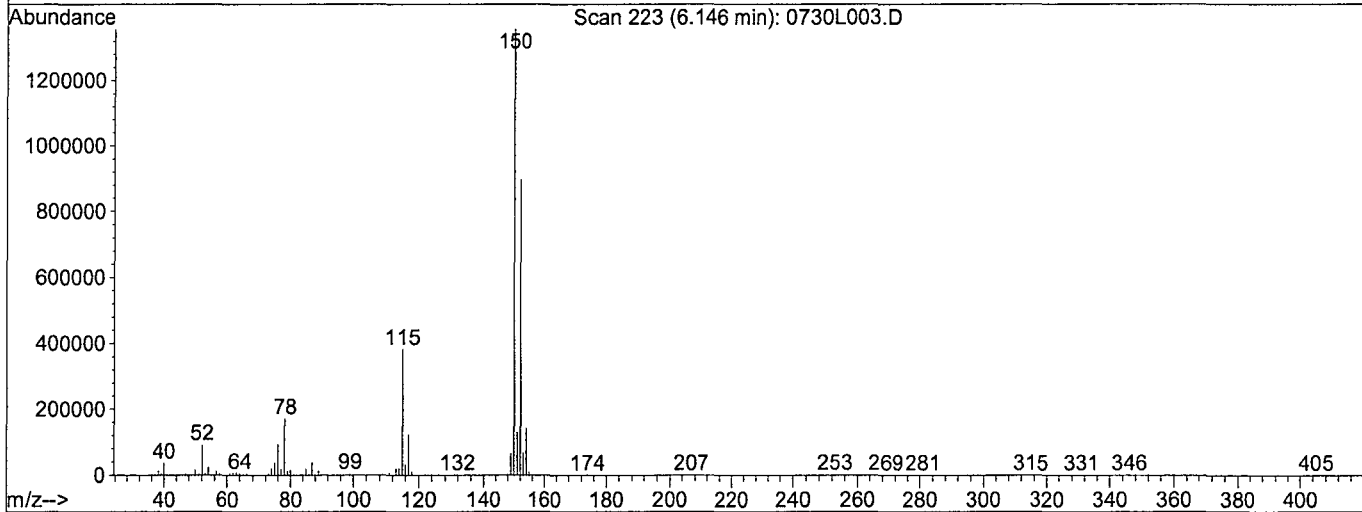
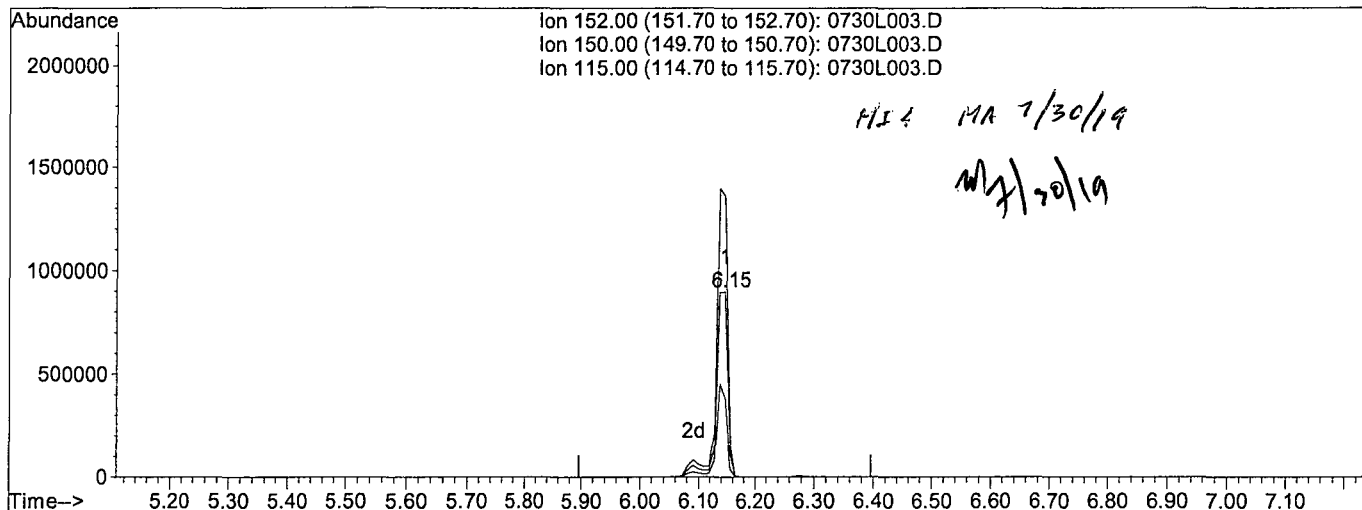
Ion	Exp%	Act%
152.00	100	100
150.00	151.30	151.29
115.00	42.60	42.59
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L003.D
 Acq On : 30 Jul 19 11:54
 Sample : 500ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:11 2019

Vial: 3
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L003.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.15min 40.0000ppb m

response 1252960

Ion	Exp%	Act%
152.00	100	100
150.00	151.30	151.32
115.00	42.60	42.57
0.00	0.00	0.00

Data File : M:\LINUS\DATA\L190730M\0730L004.D Vial: 4
 Acq On : 30 Jul 19 12:18 Operator: MA
 Sample : 50ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 30 15:11 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.10	152	1583836	40.00000	ppb	-0.05
3) Napthalene-D8 (IS)	7.05	136	4068946	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3257857	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7336759	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	7870725	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	9316764	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.67	45	101552	46.93648	ppb	98

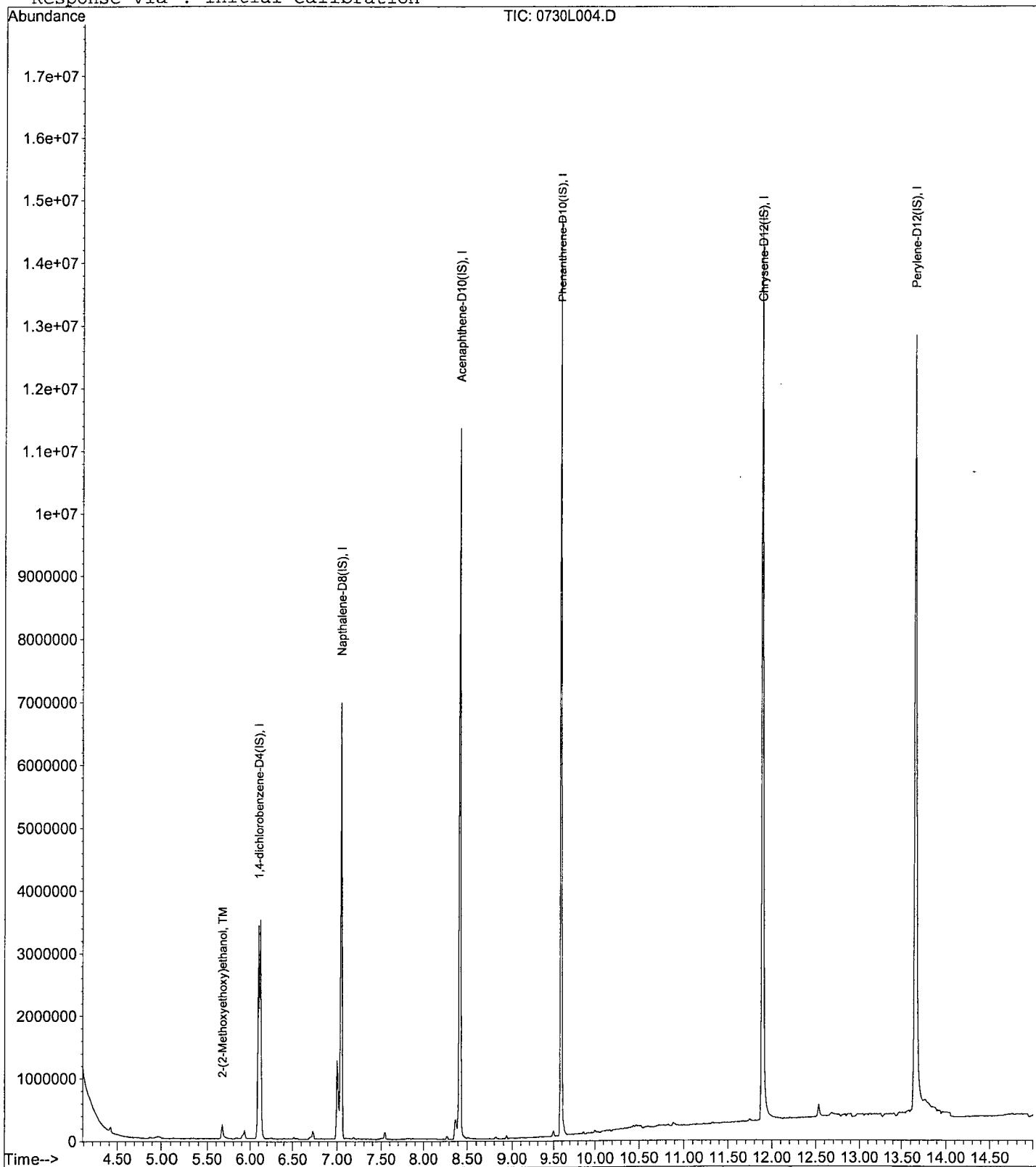
Data File : M:\LINUS\DATA\L190730M\0730L004.D
Acq On : 30 Jul 19 12:18
Sample : 50ug/ml MEE 04/30/19
Misc :

Vial: 4
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:11 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L005.D Vial: 5
 Acq On : 30 Jul 19 13:17 Operator: MA
 Sample : 100ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 30 15:11 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.10	152	1470082	40.00000	ppb	-0.05
3) Napthalene-D8 (IS)	7.05	136	4360086	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3657157	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.60	188	7715173	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.93	240	7945115	40.00000	ppb	0.04
7) Perylene-D12 (IS)	13.71	264	7813985	40.00000	ppb	0.06

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.66	45	178738	89.00361	ppb	96

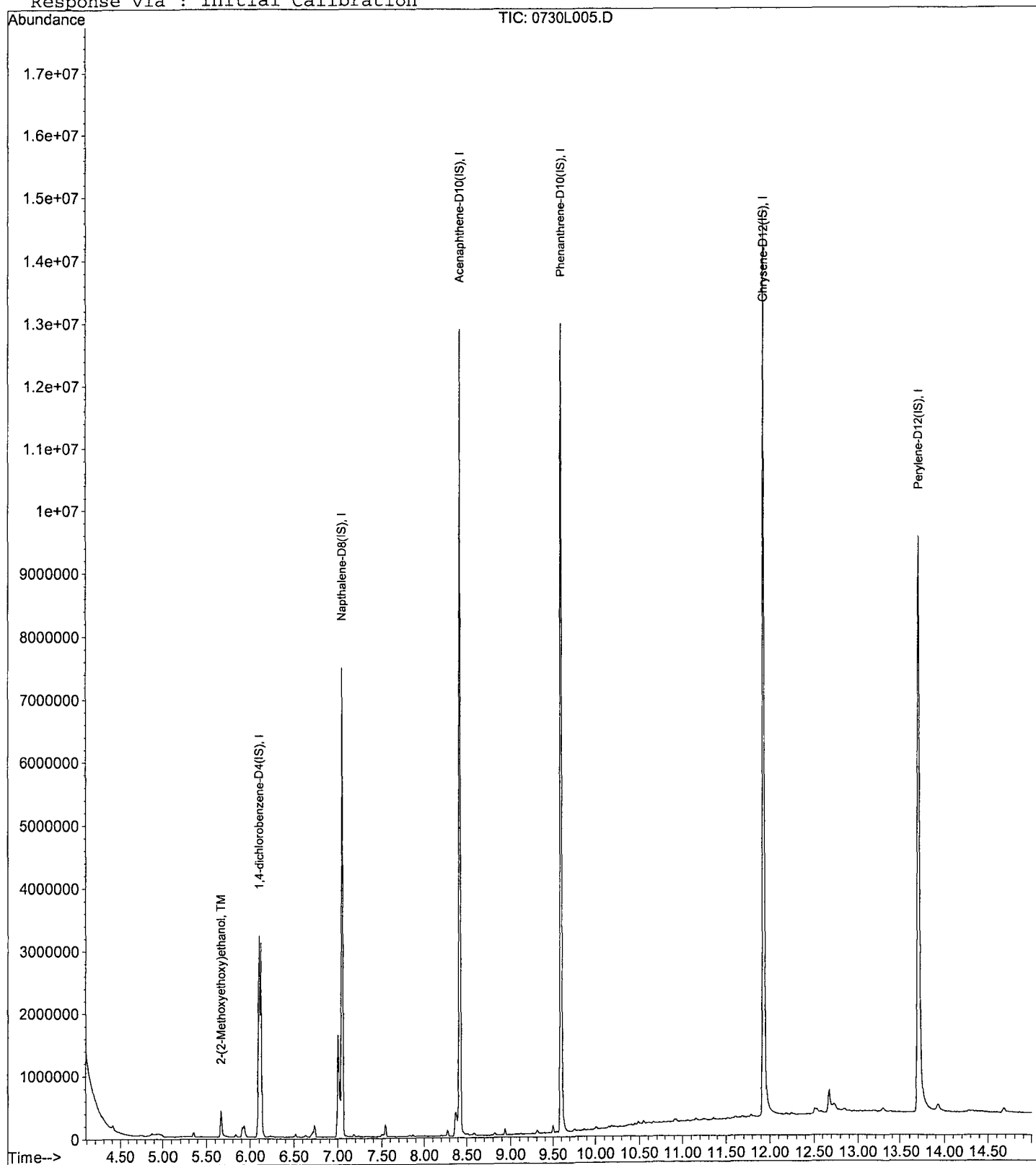
Data File : M:\LINUS\DATA\L190730M\0730L005.D
Acq On : 30 Jul 19 13:17
Sample : 100ug/ml MEE 04/30/19
Misc :

Vial: 5
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:11 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L006.D
 Acq On : 30 Jul 19 13:41
 Sample : 200ug/ml MEE 04/30/19
 Misc :

Vial: 6
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Jul 30 15:12 2019

Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.13	152	1461825m	40.00000	ppb	-0.02
3) Napthalene-D8 (IS)	7.05	136	5084767	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3673311	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7619869	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	8245101	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	8432192	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.68	45	367317	183.94074	ppb	99

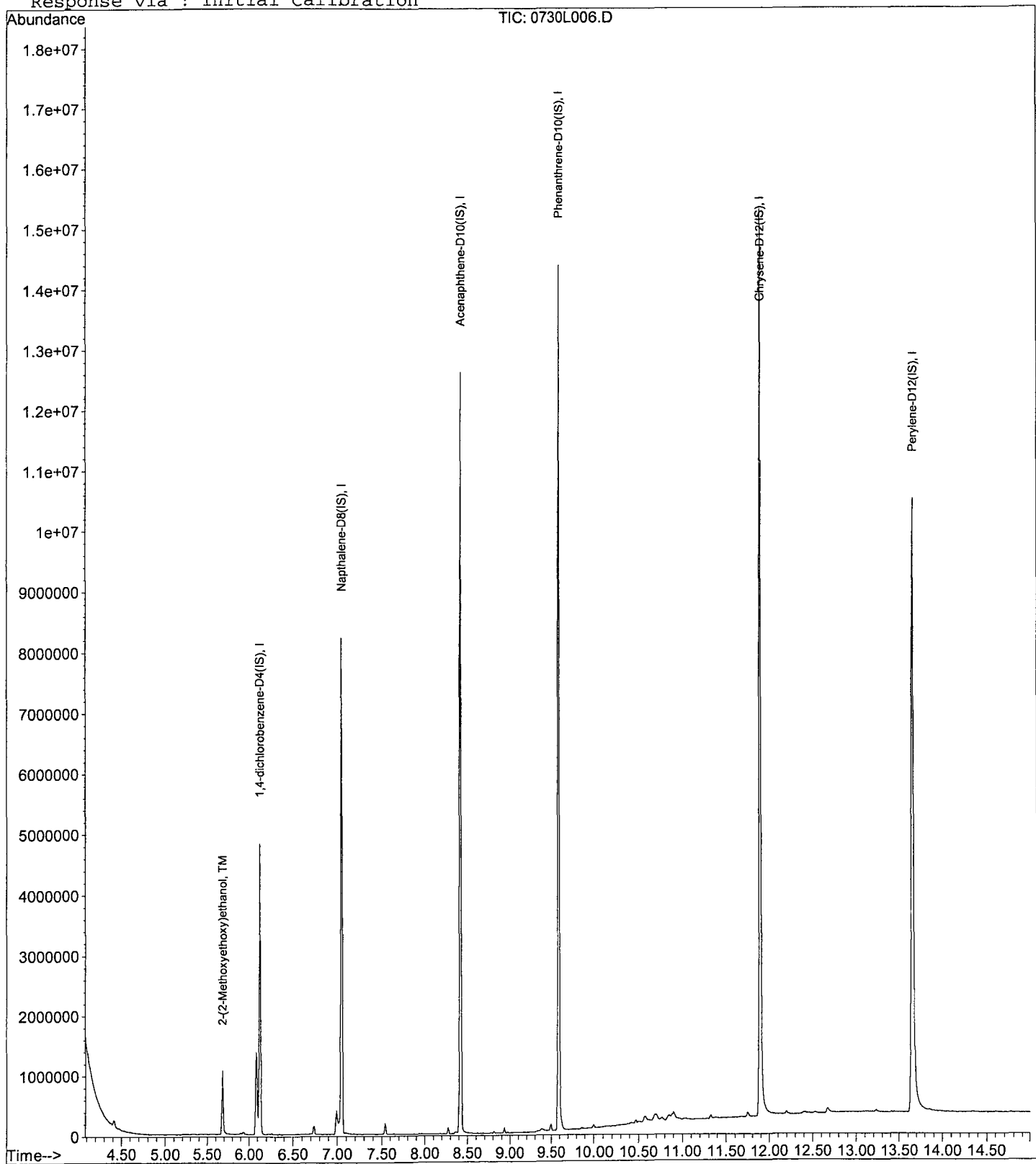
Data File : M:\LINUS\DATA\L190730M\0730L006.D
Acq On : 30 Jul 19 13:41
Sample : 200ug/ml MEE 04/30/19
Misc :

Vial: 6
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:12 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration

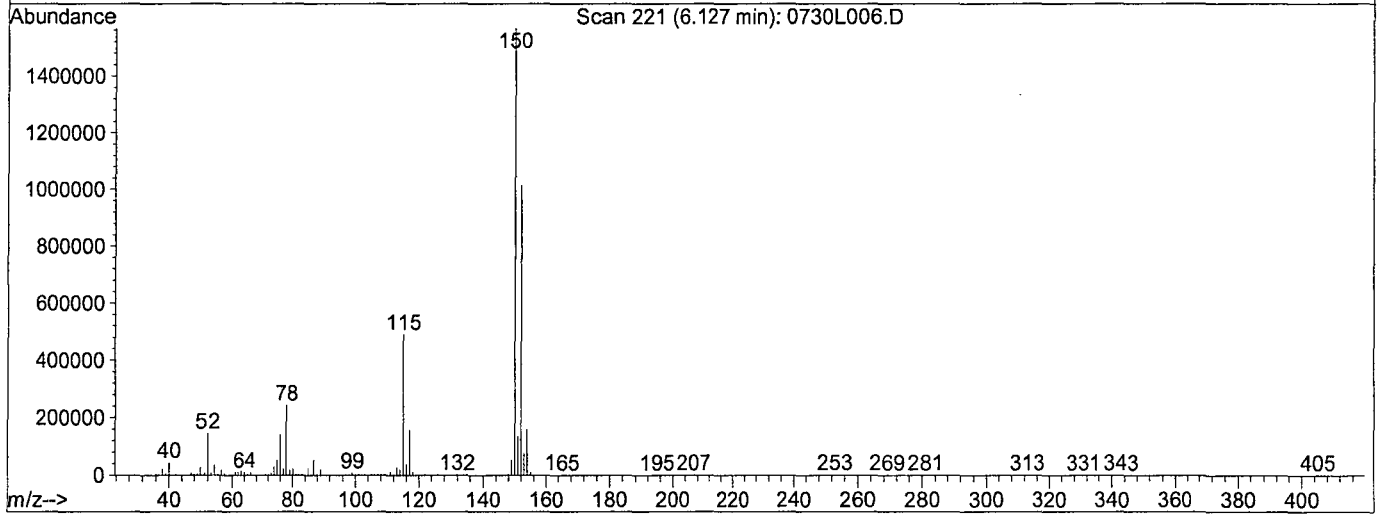
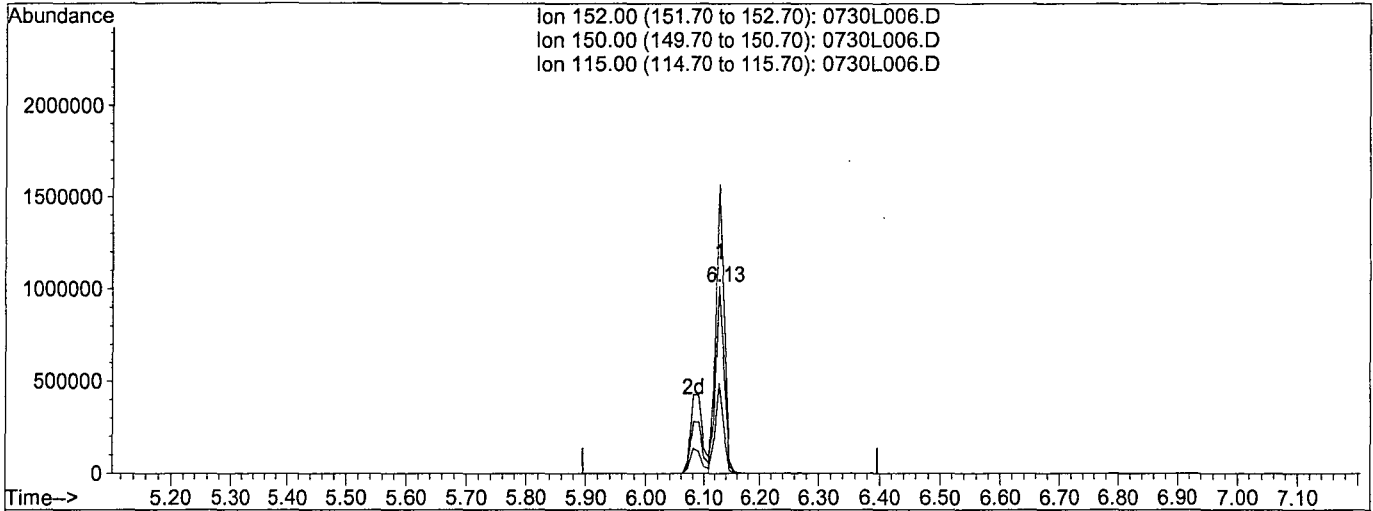


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L006.D
 Acq On : 30 Jul 19 13:41
 Sample : 200ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:11 2019

Vial: 6
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L006.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.000ppb

response 1047104

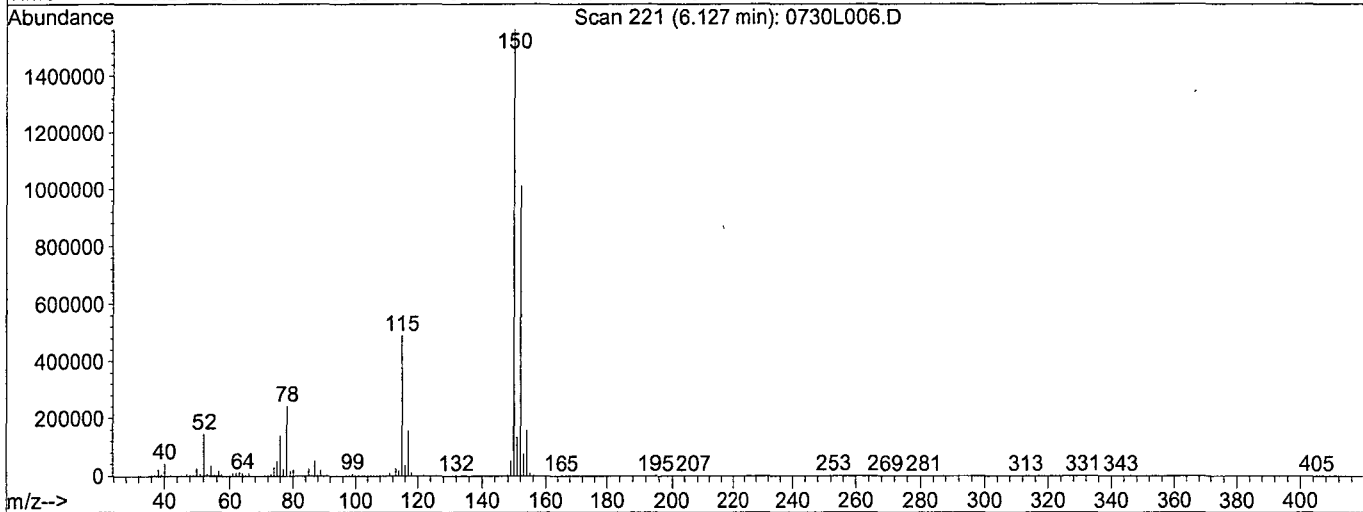
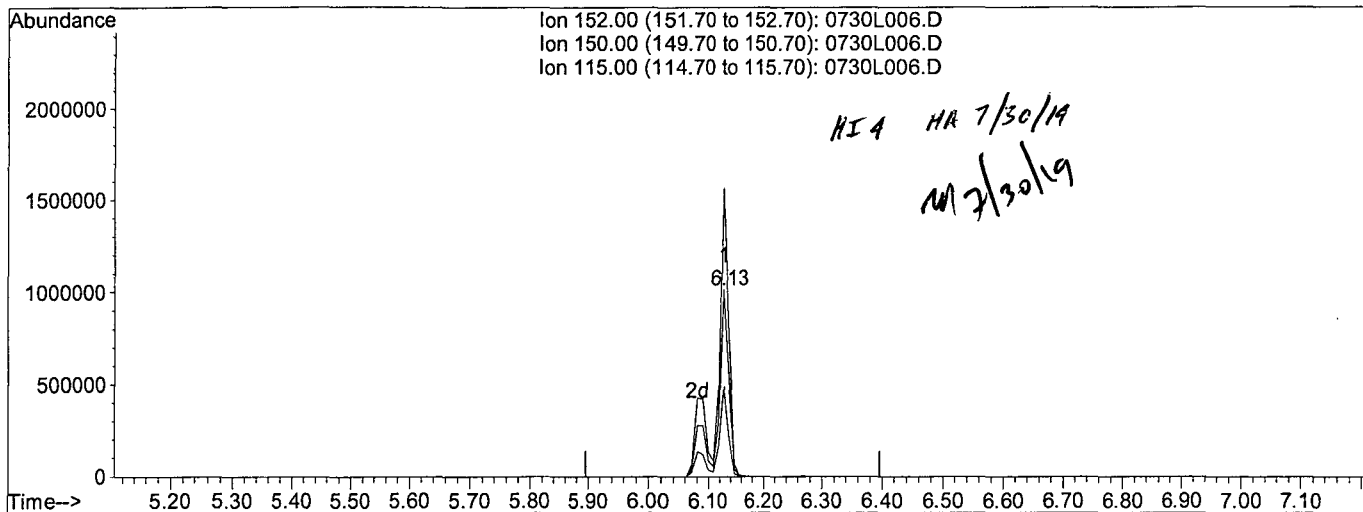
Ion	Exp%	Act%
152.00	100	100
150.00	151.30	154.77
115.00	42.60	48.39
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L006.D
 Acq On : 30 Jul 19 13:41
 Sample : 200ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:12 2019

Vial: 6
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L006.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb m

response 1461825

Ion	Exp%	Act%
152.00	100	100
150.00	151.30	154.73
115.00	42.60	48.40
0.00	0.00	0.00

Data File : M:\LINUS\DATA\L190730M\0730L007.D
 Acq On : 30 Jul 19 14:04
 Sample : 400ug/ml MEE 04/30/19
 Misc :

Vial: 7
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Jul 30 15:13 2019

Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.13	152	1382825m	40.00000	ppb	-0.02
3) Napthalene-D8 (IS)	7.05	136	4970142	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3606286	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7424397	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.88	240	7867434	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.64	264	7875034	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	5.69	45	833210	441.08221	ppb	98

Quantitation Report

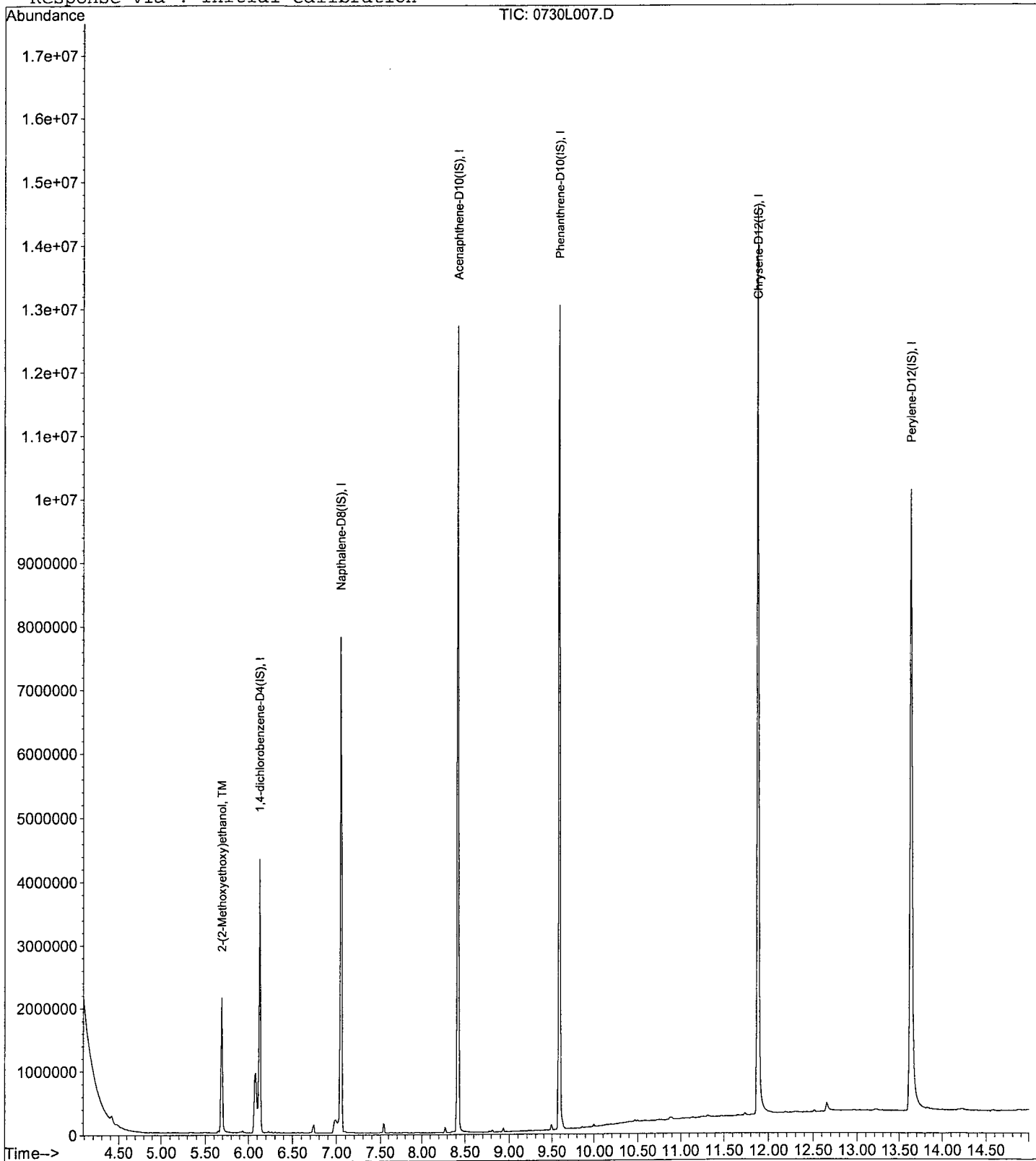
Data File : M:\LINUS\DATA\L190730M\0730L007.D
Acq On : 30 Jul 19 14:04
Sample : 400ug/ml MEE 04/30/19
Misc :

Vial: 7
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:13 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration

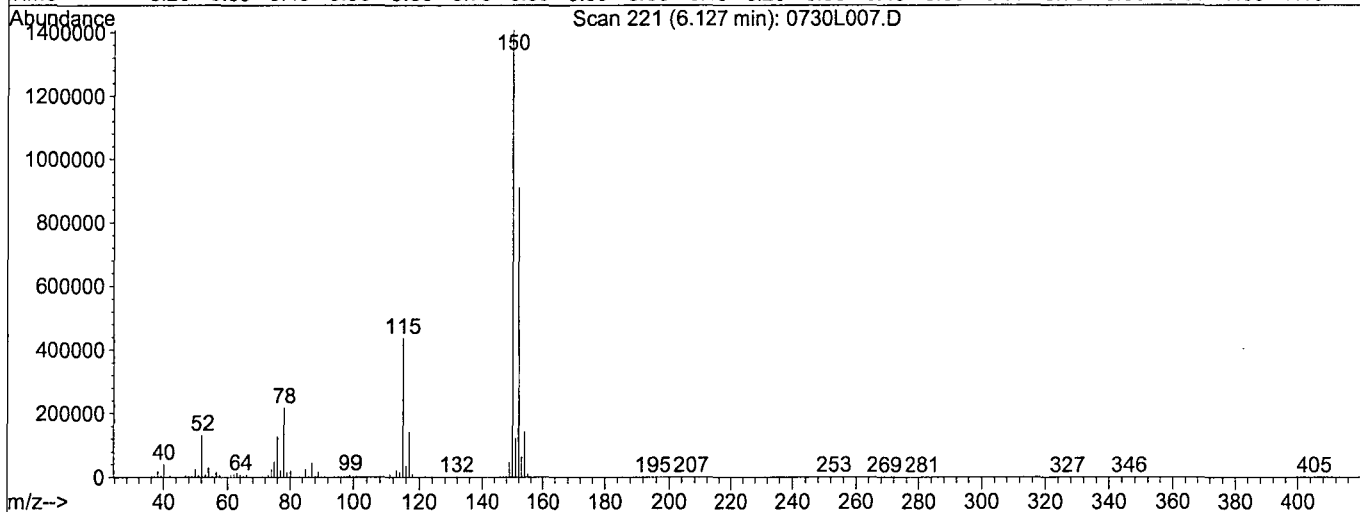
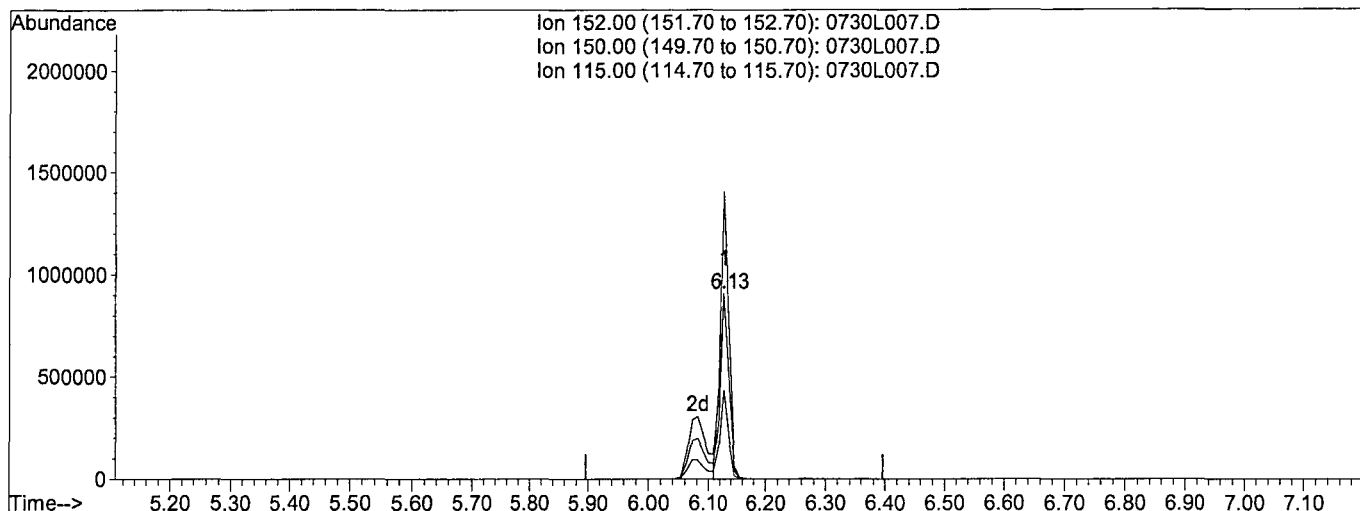


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L007.D
 Acq On : 30 Jul 19 14:04
 Sample : 400ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:11 2019

Vial: 7
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L007.D

(1) 1,4-dichlorobenzene-D4(1S) (I)

6.13min 40.0000ppb

response 957510

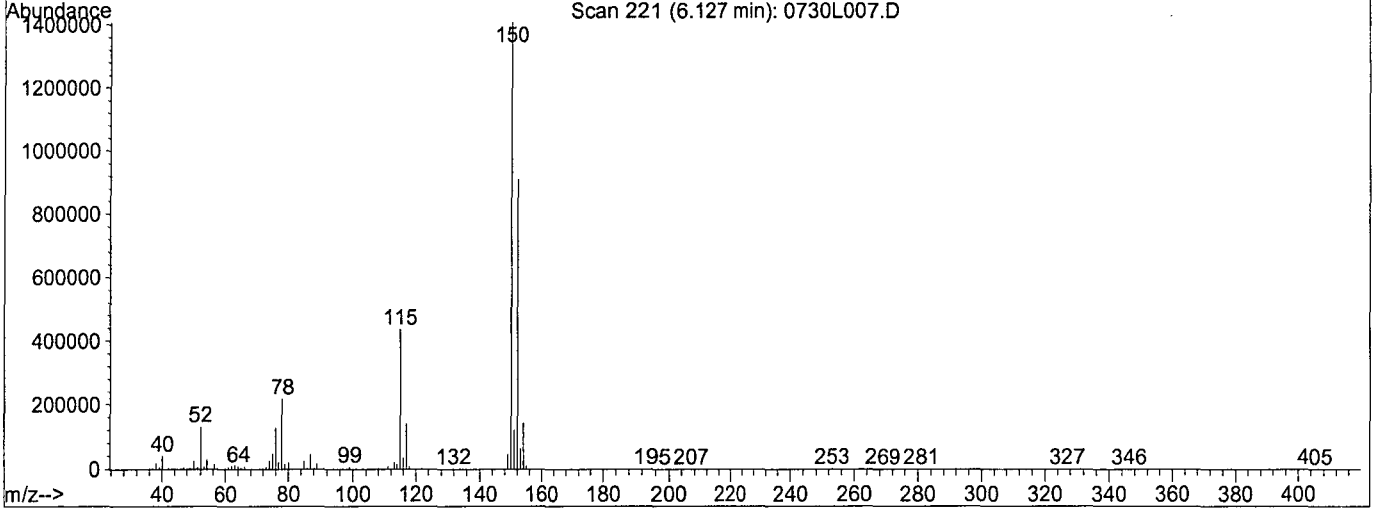
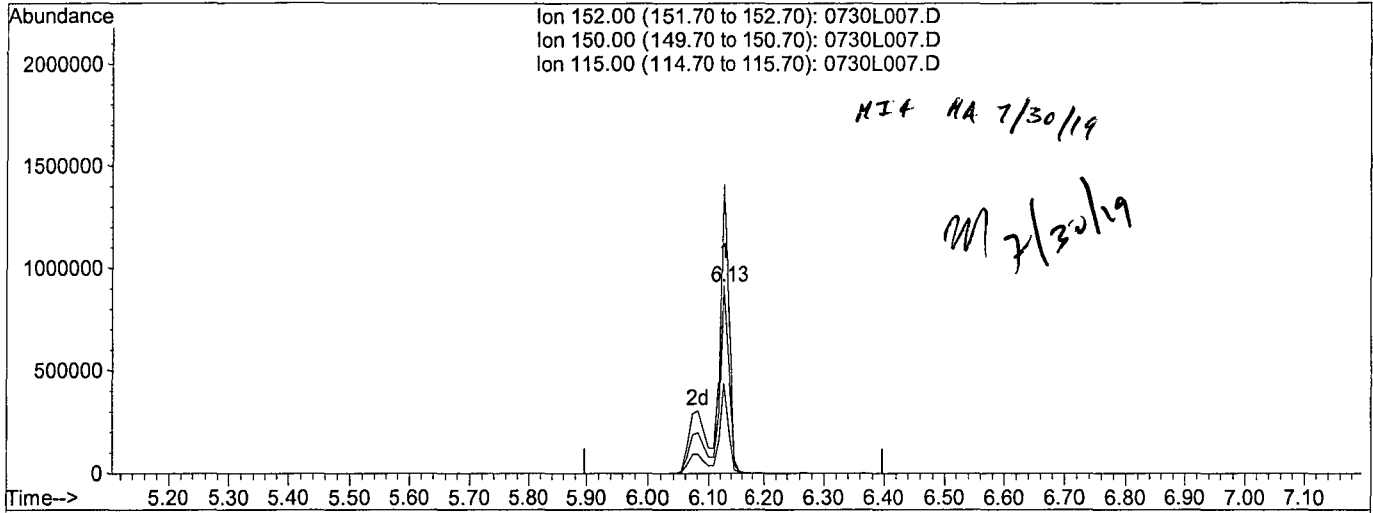
Ion	Exp%	Act%
152.00	100	100
150.00	151.30	154.57
115.00	42.60	47.94
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L007.D
 Acq On : 30 Jul 19 14:04
 Sample : 400ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:13 2019

Vial: 7
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L007.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb m

response 1382825

Ion	Exp%	Act%
152.00	100	100
150.00	151.30	154.56
115.00	42.60	47.96
0.00	0.00	0.00

Data File : M:\LINUS\DATA\L190730M\0730L008.D Vial: 8
 Acq On : 30 Jul 19 14:27 Operator: MA
 Sample : 600ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 30 15:13 2019

Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.12	152	1716822m	40.00000	ppb	-0.03
3) Napthalene-D8 (IS)	7.05	136	6268016	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	4318908	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	9164097	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	9844624	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	9933894	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	5.69	45	1324145	564.60219	ppb	100

Quantitation Report

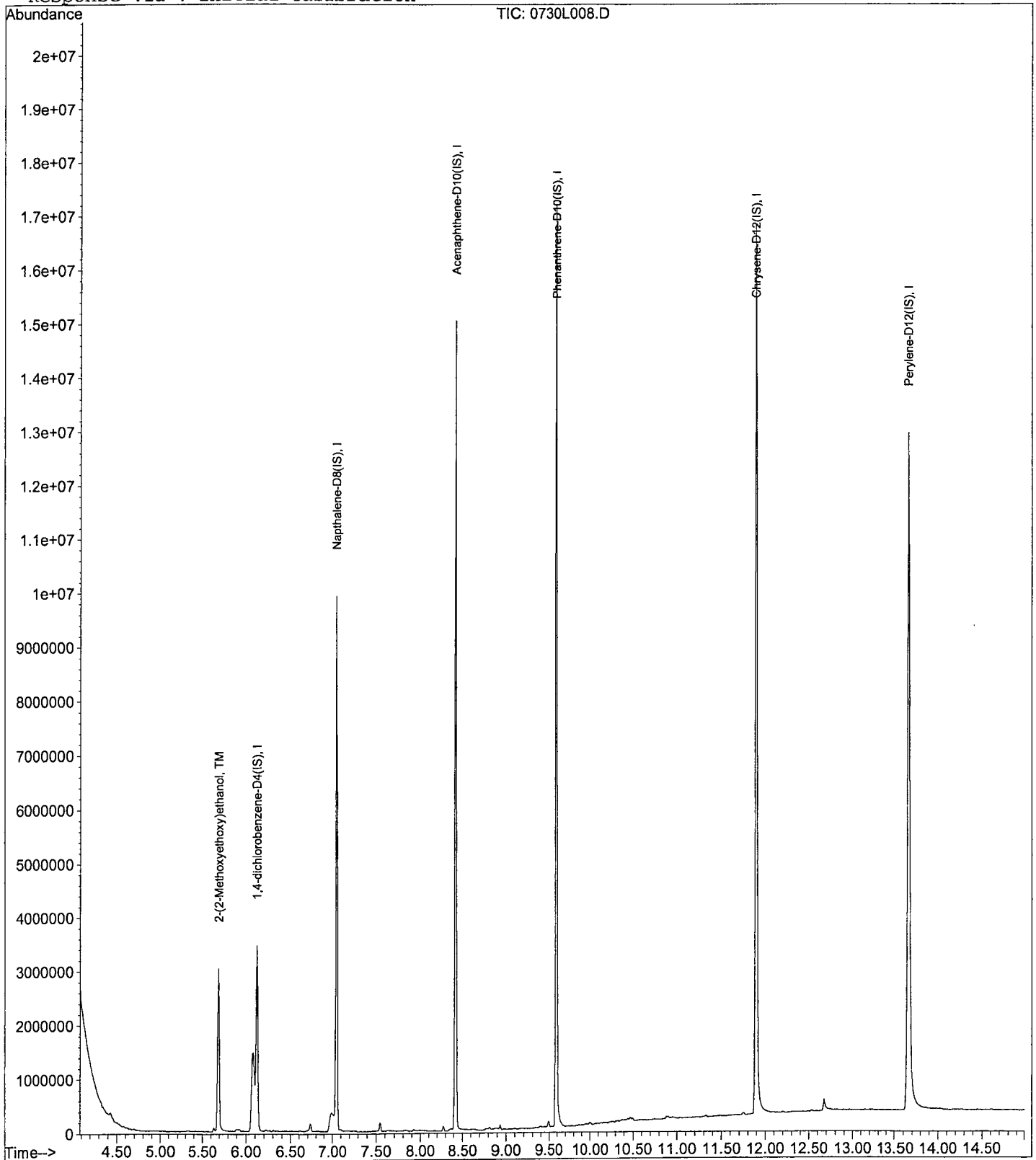
Data File : M:\LINUS\DATA\L190730M\0730L008.D
Acq On : 30 Jul 19 14:27
Sample : 600ug/ml MEE 04/30/19
Misc :

Vial: 8
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:13 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration

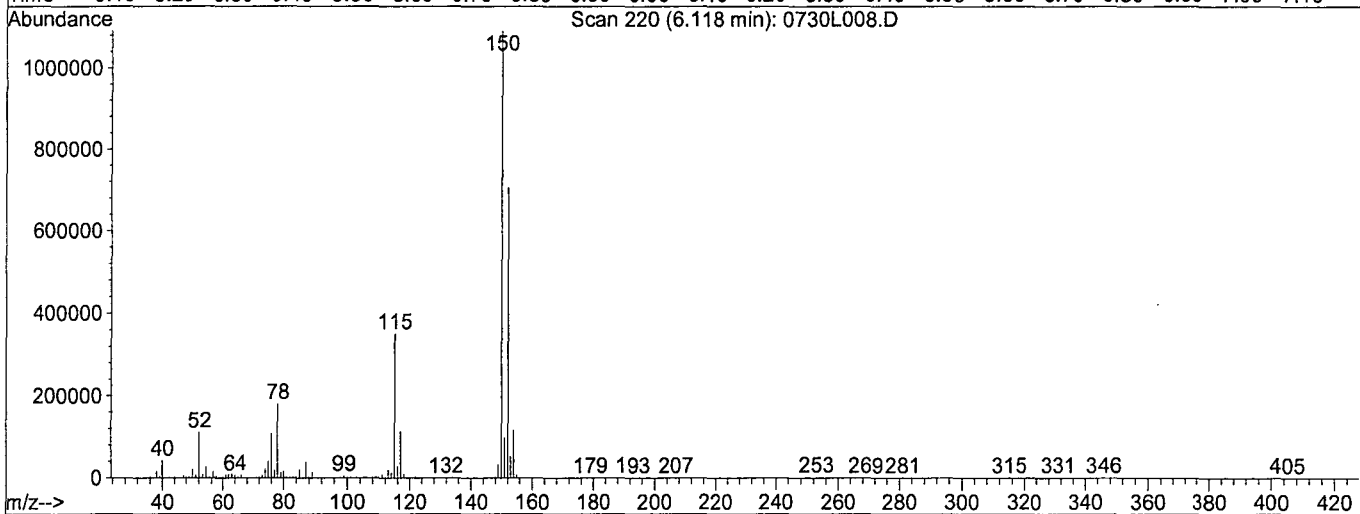
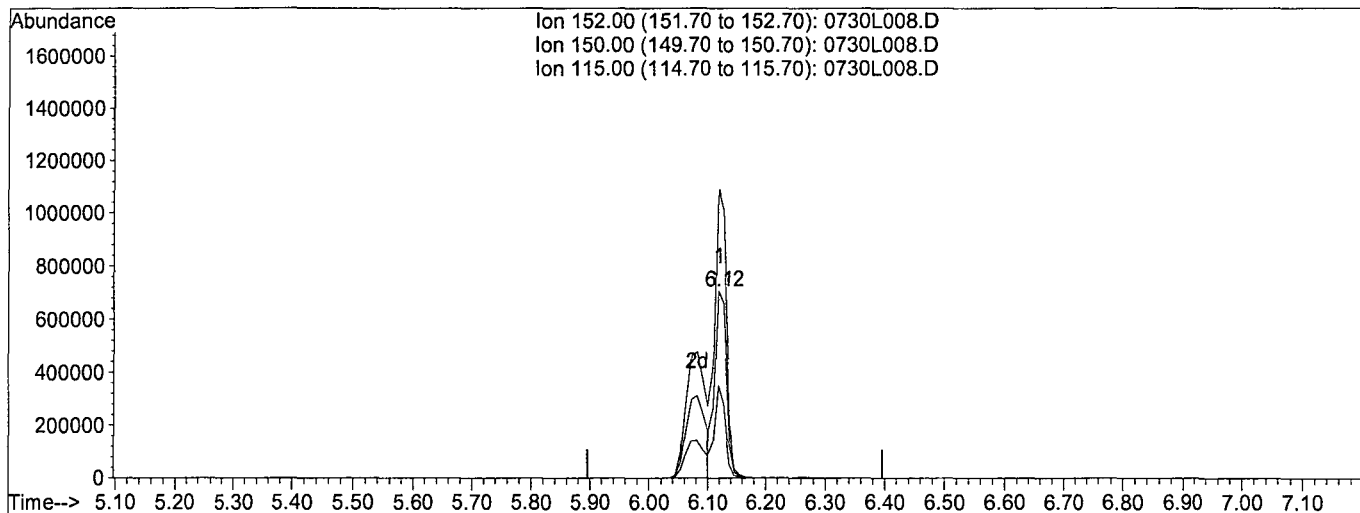


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L008.D
 Acq On : 30 Jul 19 14:27
 Sample : 600ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:11 2019

Vial: 8
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L008.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.12min 40.0000ppb

response 1002516

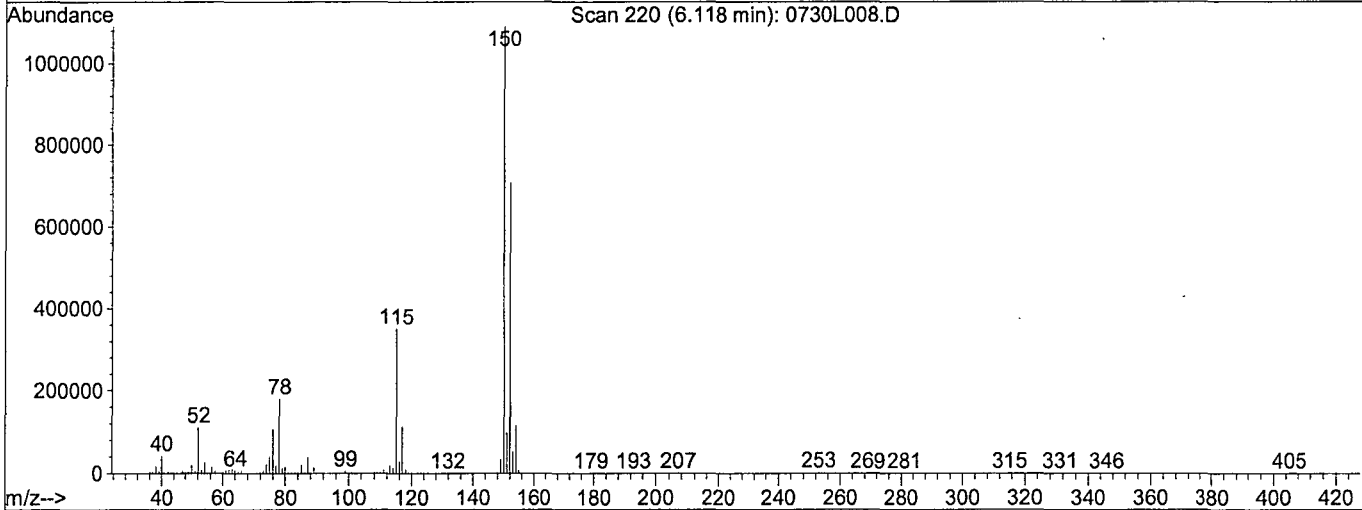
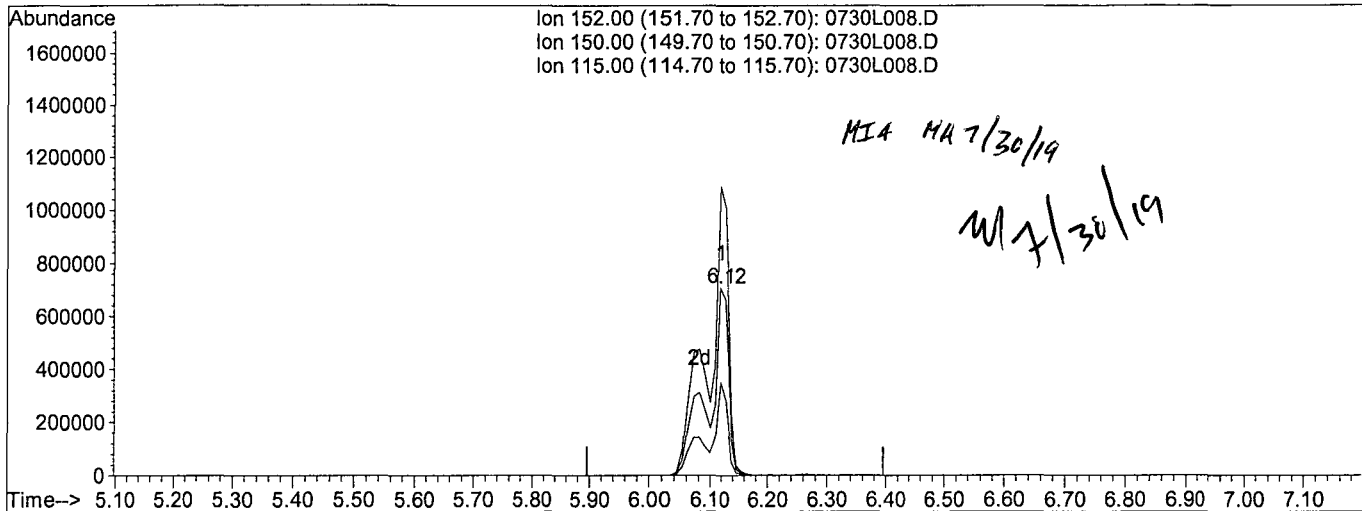
Ion	Exp%	Act%
152.00	100	100
150.00	151.30	154.35
115.00	42.60	49.55
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L008.D
 Acq On : 30 Jul 19 14:27
 Sample : 600ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:13 2019

Vial: 8
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L008.D

(1) 1,4-dichlorobenzene-D4(1S) (I)

6.12min 40.0000ppb m

response 1716822

Ion	Exp%	Act%
152.00	100	100
150.00	151.30	154.38
115.00	42.60	49.62
0.00	0.00	0.00

Data File : M:\LINUS\DATA\L190730M\0730L009.D Vial: 9
 Acq On : 30 Jul 19 14:51 Operator: MA
 Sample : 800ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 30 15:10 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.12	152	1669070m	40.00000	ppb	-0.03
3) Napthalene-D8 (IS)	7.05	136	5374930	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	4141489	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	8405653	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	9474975	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	9450888	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.69	45	1649063	723.26089	ppb	99

Quantitation Report

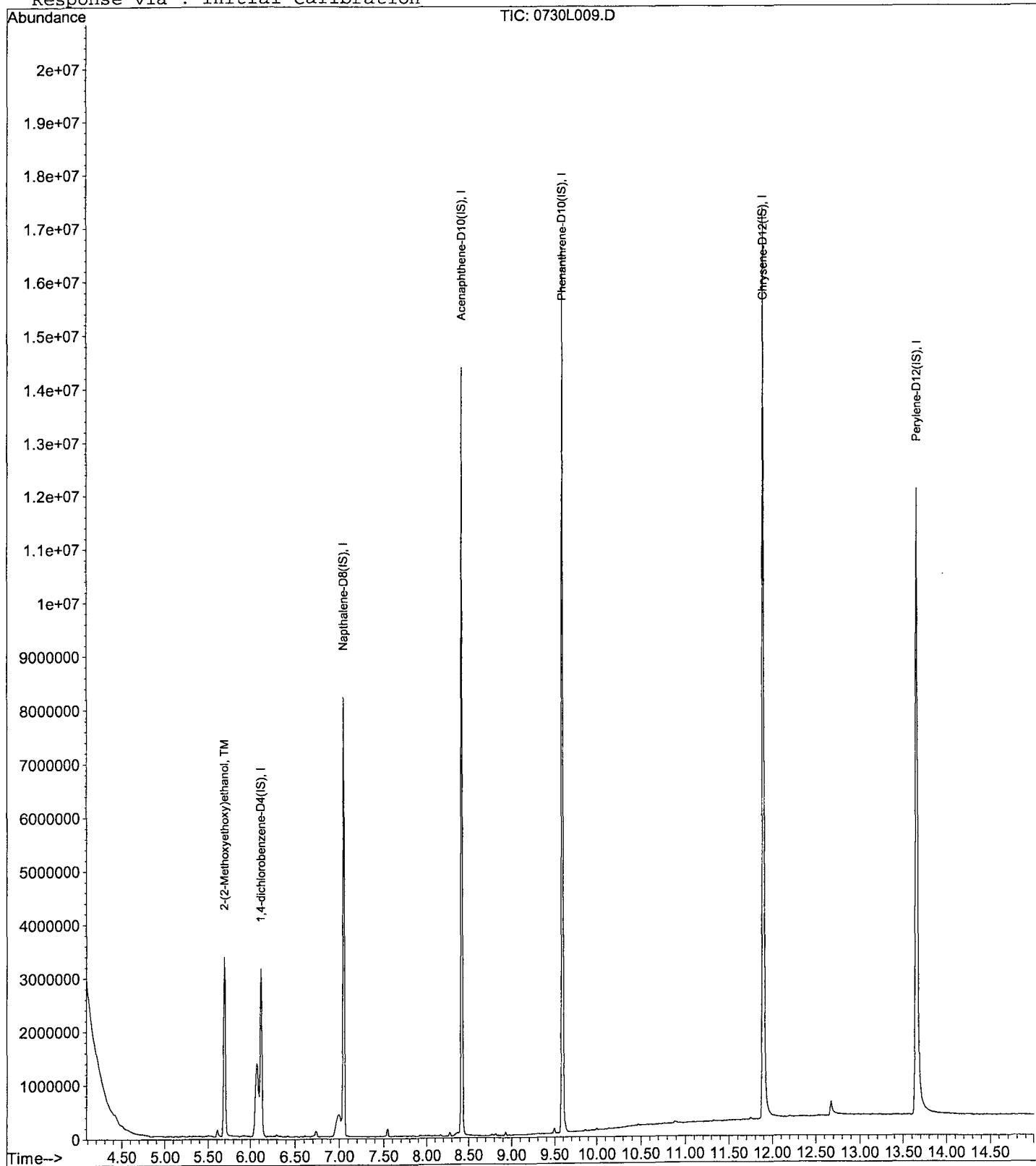
Data File : M:\LINUS\DATA\L190730M\0730L009.D
Acq On : 30 Jul 19 14:51
Sample : 800ug/ml MEE 04/30/19
Misc :

Vial: 9
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:10 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L009.D

Vial: 9

Acq On : 30 Jul 19 14:51

Operator: MA

Sample : 800ug/ml MEE 04/30/19

Inst : Linus

Misc :

Multiplr: 1.00

Quant Time: Jul 30 15:10 2019

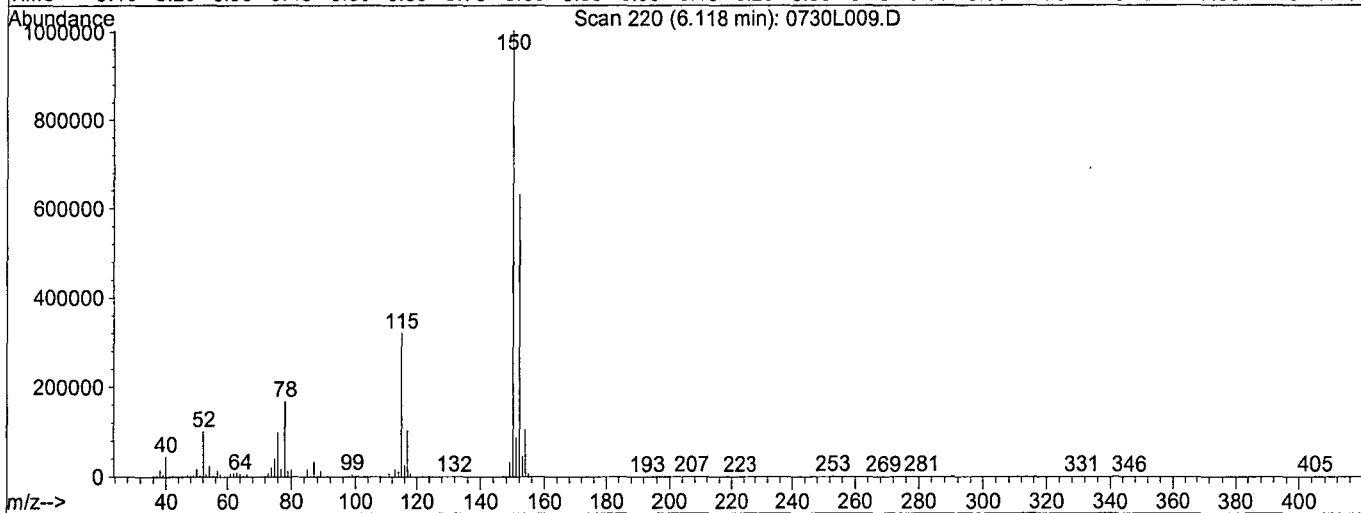
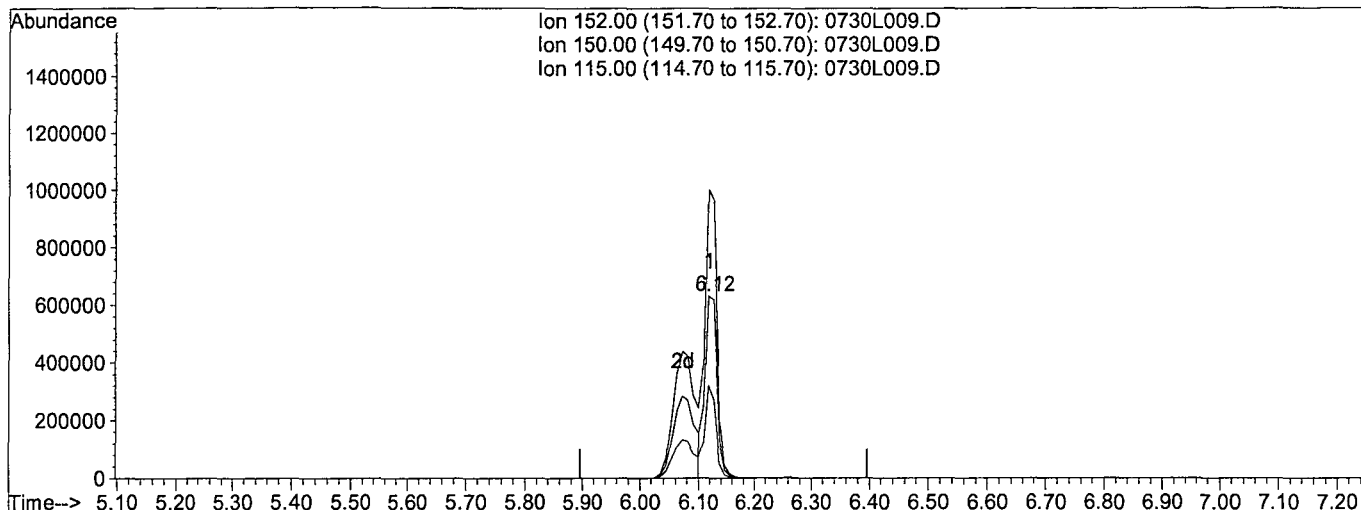
Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)

Title : EPA 8270C

Last Update : Tue Jul 30 15:09:12 2019

Response via : Multiple Level Calibration



TIC: 0730L009.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.12min 40.0000ppb

response 933046

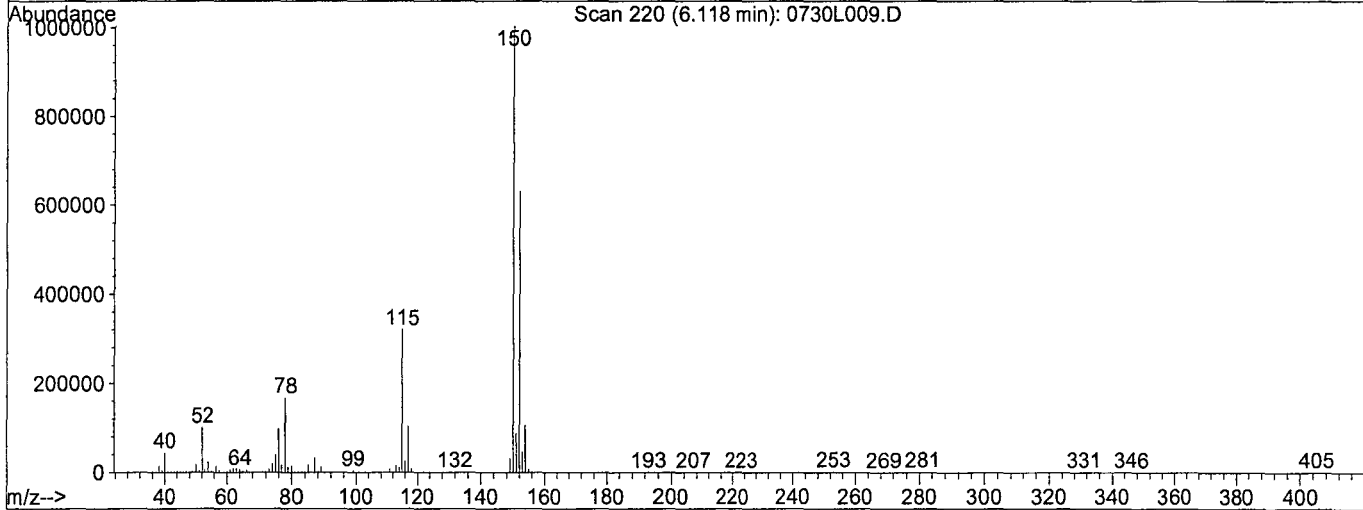
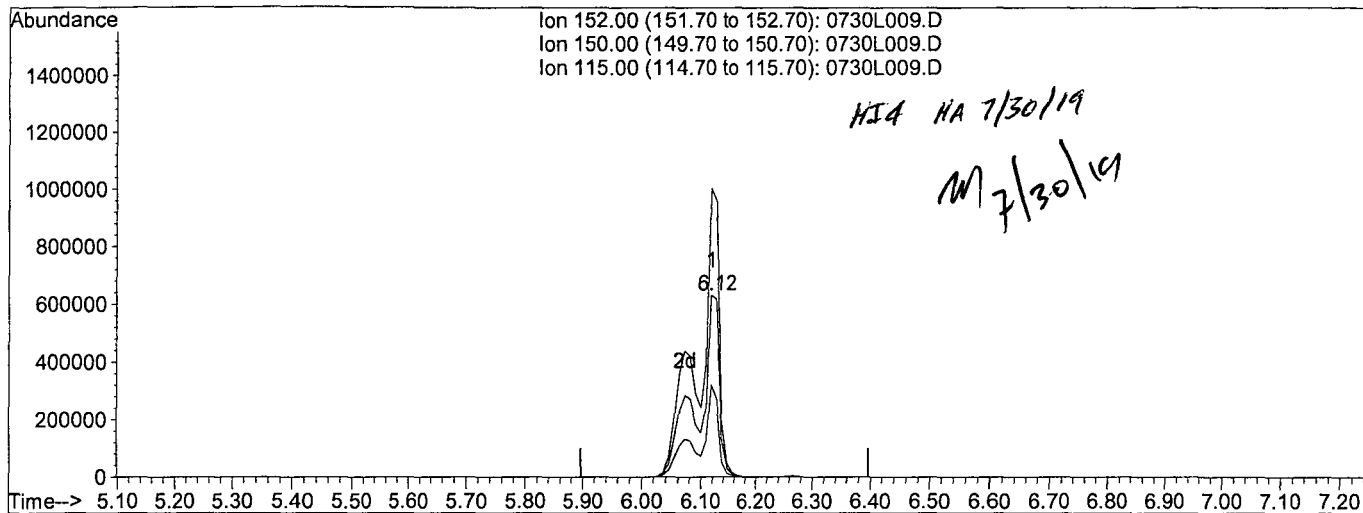
Ion	Exp%	Act%
152.00	100	100
150.00	151.30	158.87
115.00	42.60	50.79
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L009.D
 Acq On : 30 Jul 19 14:51
 Sample : 800ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:10 2019

Vial: 9
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L009.D

(1) 1,4-dichlorobenzene-D4(1S) (I)

6.12min 40.0000ppb m

response 1669070

Ion	Exp%	Act%
152.00	100	100
150.00	151.30	158.89
115.00	42.60	50.84
0.00	0.00	0.00

Data File : M:\LINUS\DATA\L190730M\0730L010.D
 Acq On : 30 Jul 19 15:13
 Sample : 1000ug/ml MEE 04/30/19
 Misc :

Vial: 10
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Jul 30 15:42 2019

Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:12:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.13	152	1481485m	40.00000	ppb	-0.02
3) Napthalene-D8 (IS)	7.05	136	5786003	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	4262349	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	8581509	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	9894804	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	9883087	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.71	45	1845695	925.02058	ppb	99

Quantitation Report

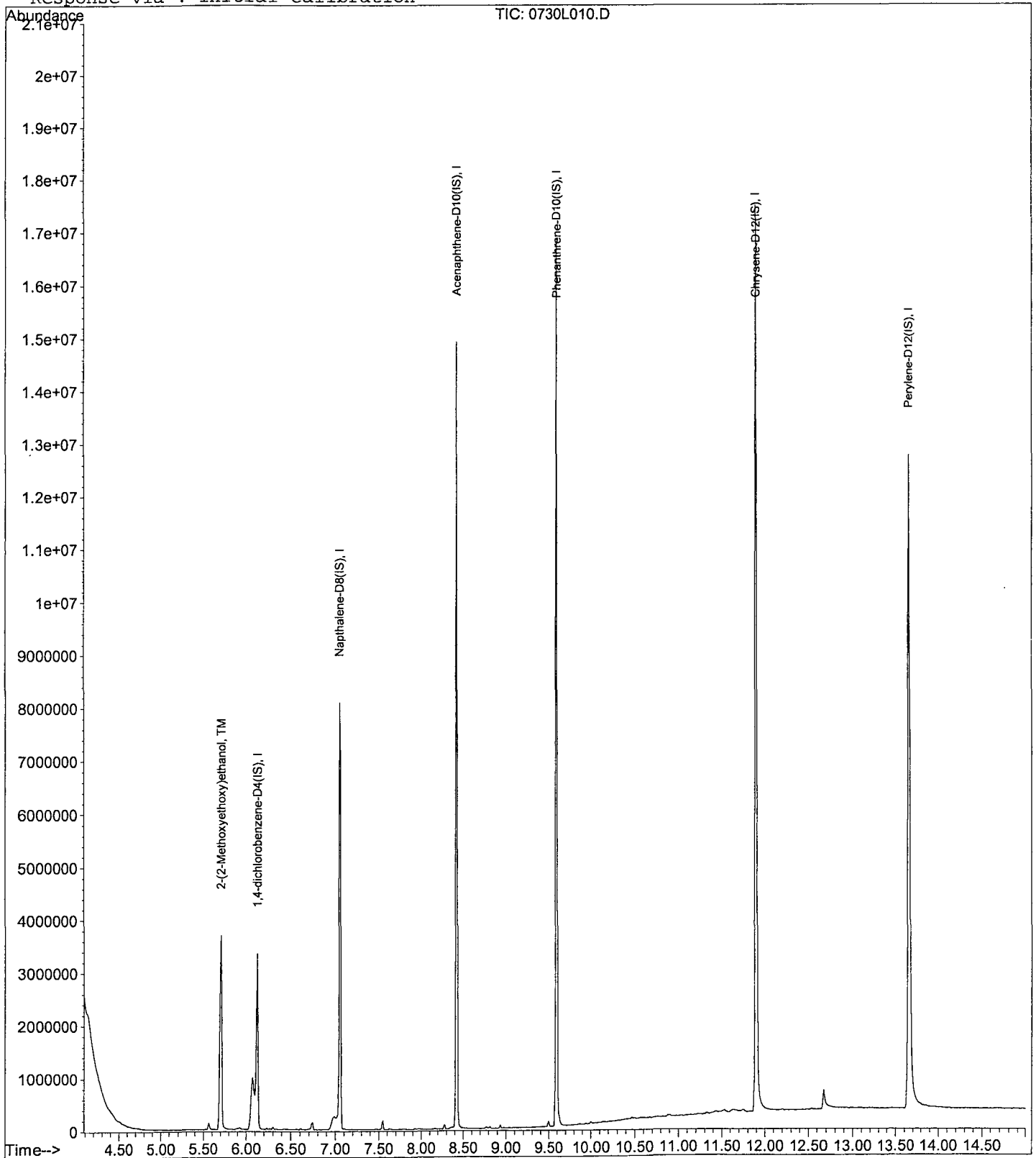
Data File : M:\LINUS\DATA\L190730M\0730L010.D
Acq On : 30 Jul 19 15:13
Sample : 1000ug/ml MEE 04/30/19
Misc :

Vial: 10
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:42 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration

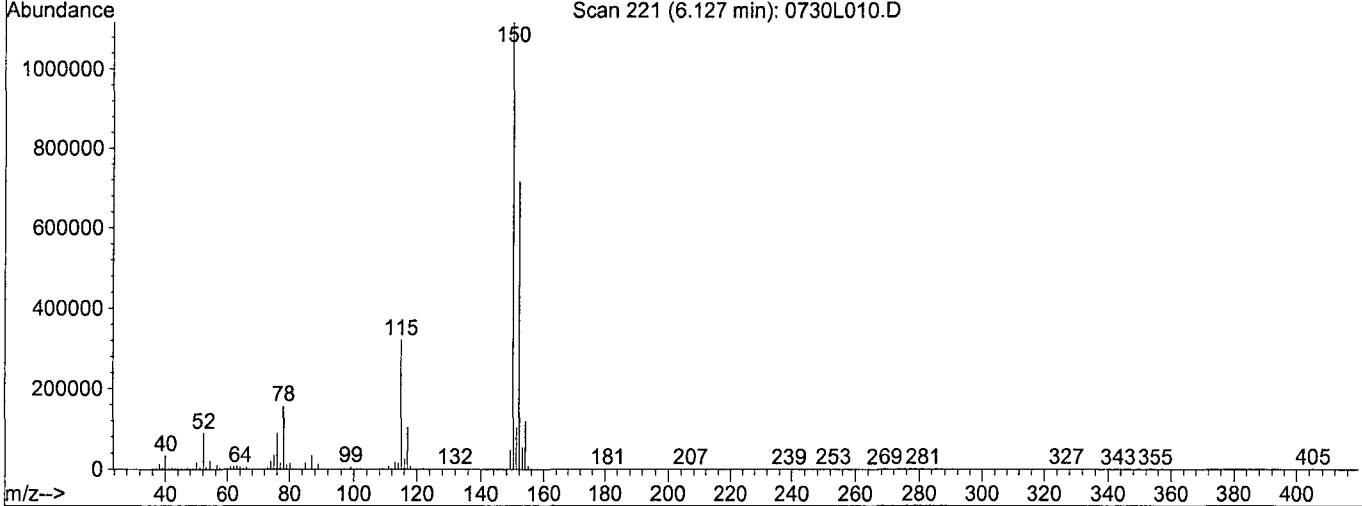
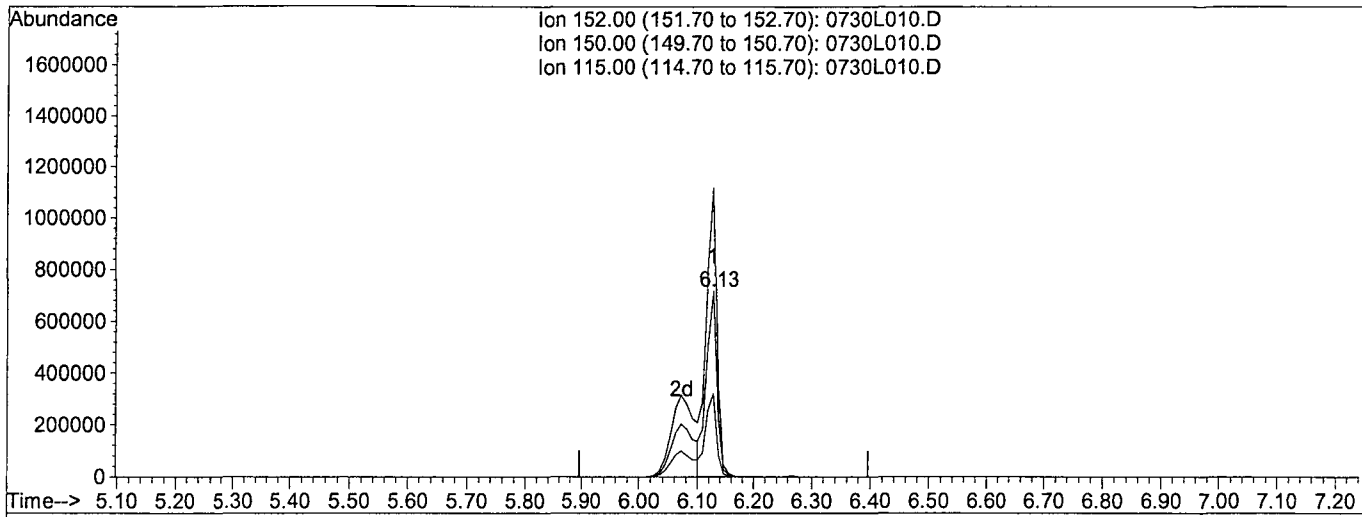


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L010.D
 Acq On : 30 Jul 19 15:13
 Sample : 1000ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:42 2019

Vial: 10
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:12:18 2019
 Response via : Multiple Level Calibration



TIC: 0730L010.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb

response 924804

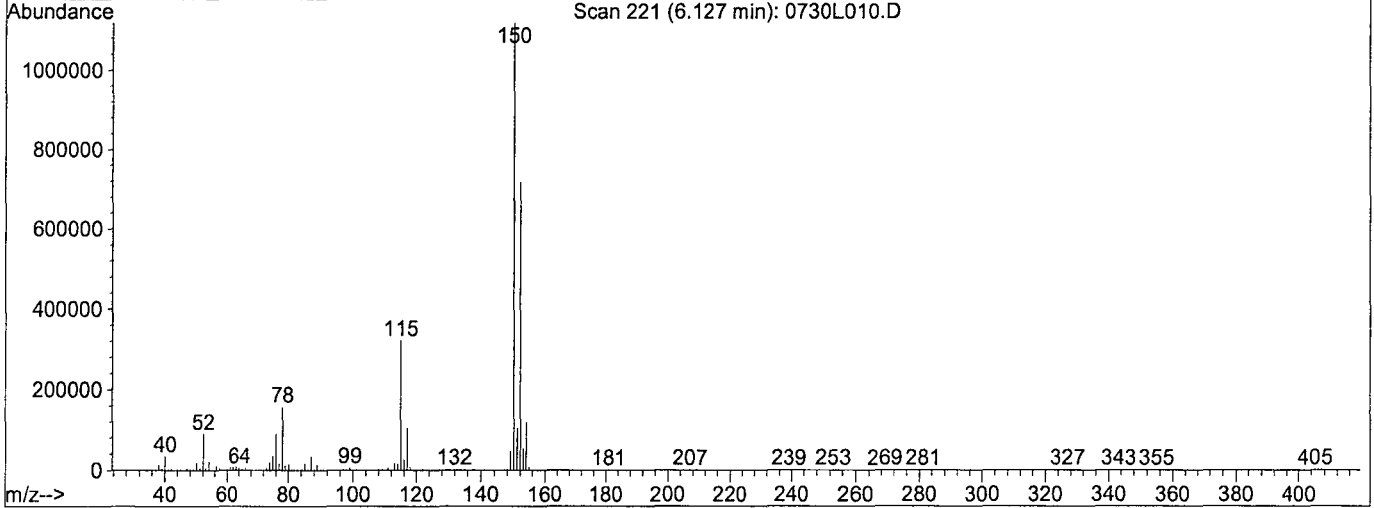
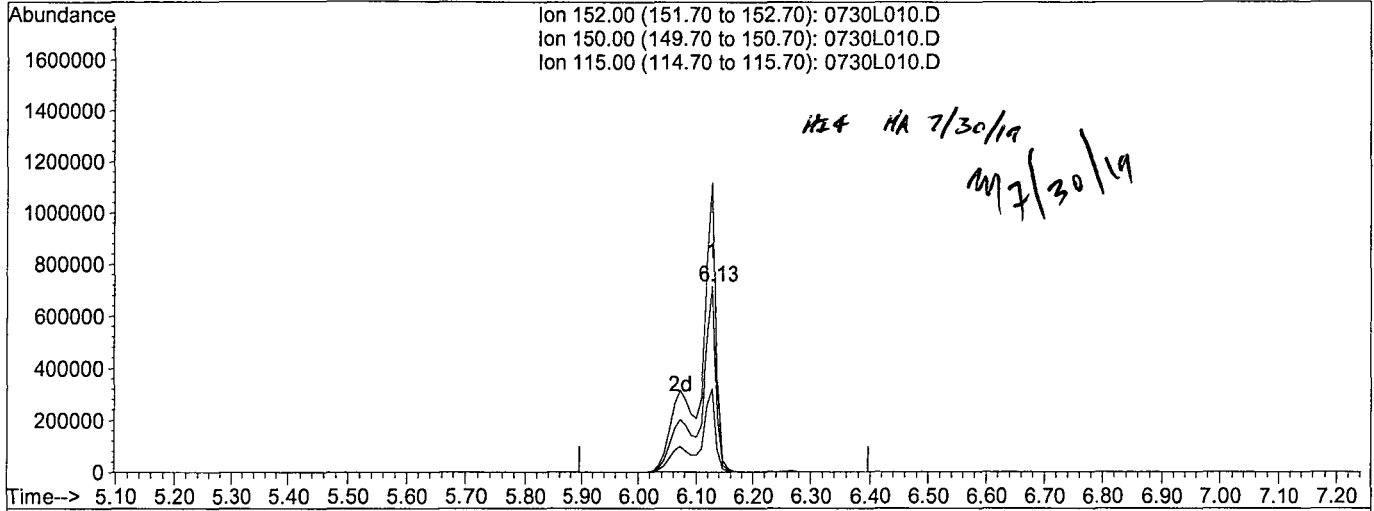
Ion	Exp%	Act%
152.00	100	100
150.00	151.30	156.03
115.00	42.60	44.84
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L010.D
 Acq On : 30 Jul 19 15:13
 Sample : 1000ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:42 2019

Vial: 10
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:12:18 2019
 Response via : Multiple Level Calibration



TIC: 0730L010.D

(1) 1,4-dichlorobenzene-D4(1S) (I)

6.13min 40.0000ppb m

response 1481485

Ion	Exp%	Act%
152.00	100	100
150.00	151.30	156.01
115.00	42.60	44.87
0.00	0.00	0.00

2MEE
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/30/19
Instrument: Linus
Initial Cal. Date: 07/30/19
Data File: 0730L011.D

		Compound	MEAN	CCRF	%D	%Drift
1	TM	2-(2-Methoxyethoxy)ethanol	0.0534	0.0617	16	TM
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						

Average

16.0

Data File : M:\LINUS\DATA\L190730M\0730L011.D
 Acq On : 30 Jul 19 15:37
 Sample : SS MEE 04/30/19
 Misc :

Vial: 11
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Jul 30 17:38 2019

Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.13	152	1382961m	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.05	136	4594613	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3598325	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7544561	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	8541977	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	9241872	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.68	45	1066714	578.11784	ppb	98

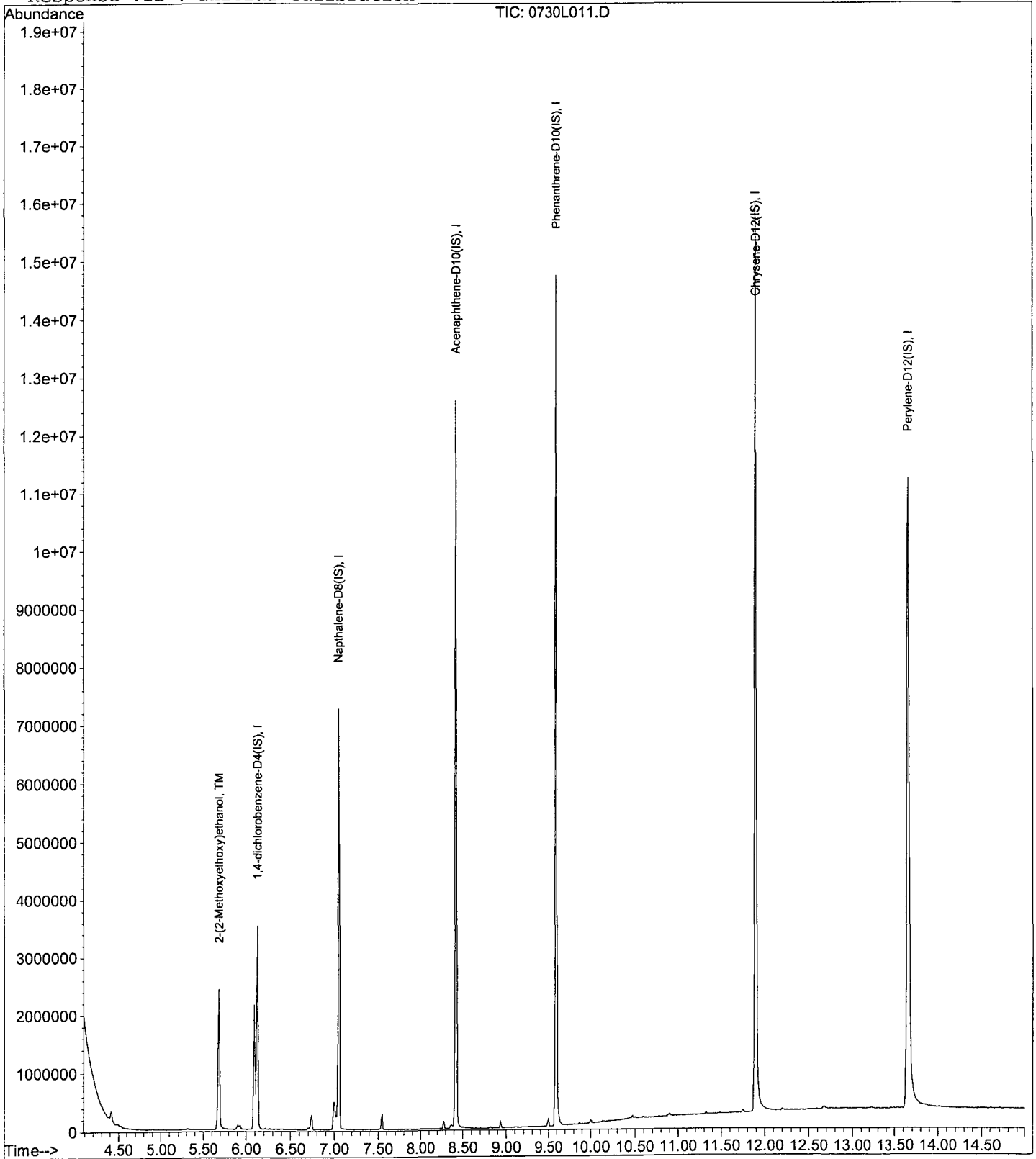
Data File : M:\LINUS\DATA\L190730M\0730L011.D
 Acq On : 30 Jul 19 15:37
 Sample : SS MEE 04/30/19
 Misc :

Vial: 11
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Jul 30 17:38 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration

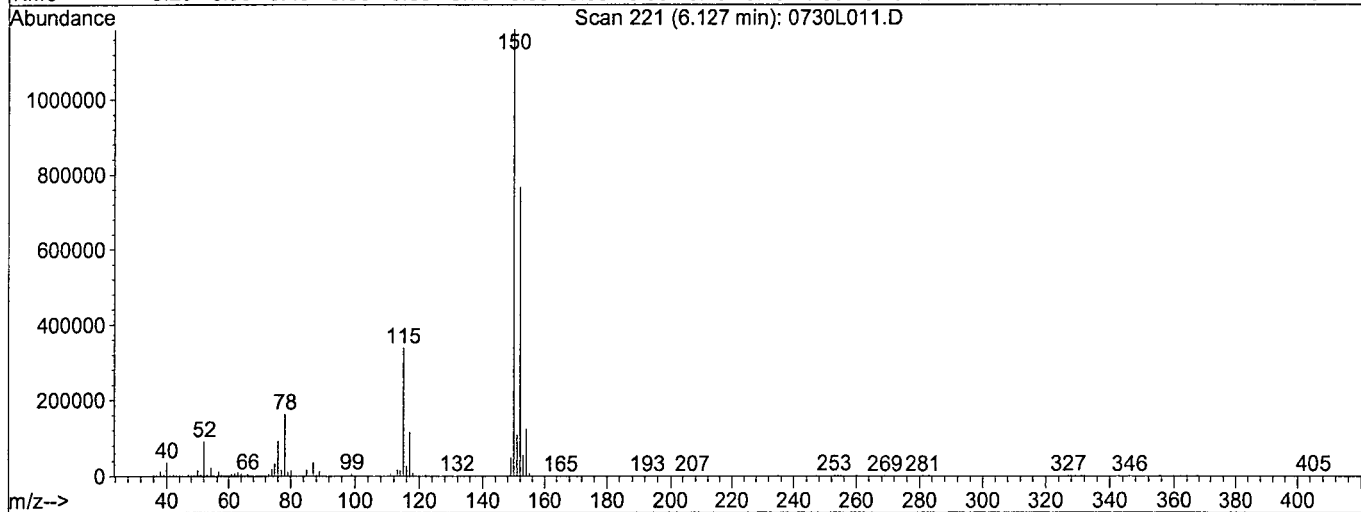
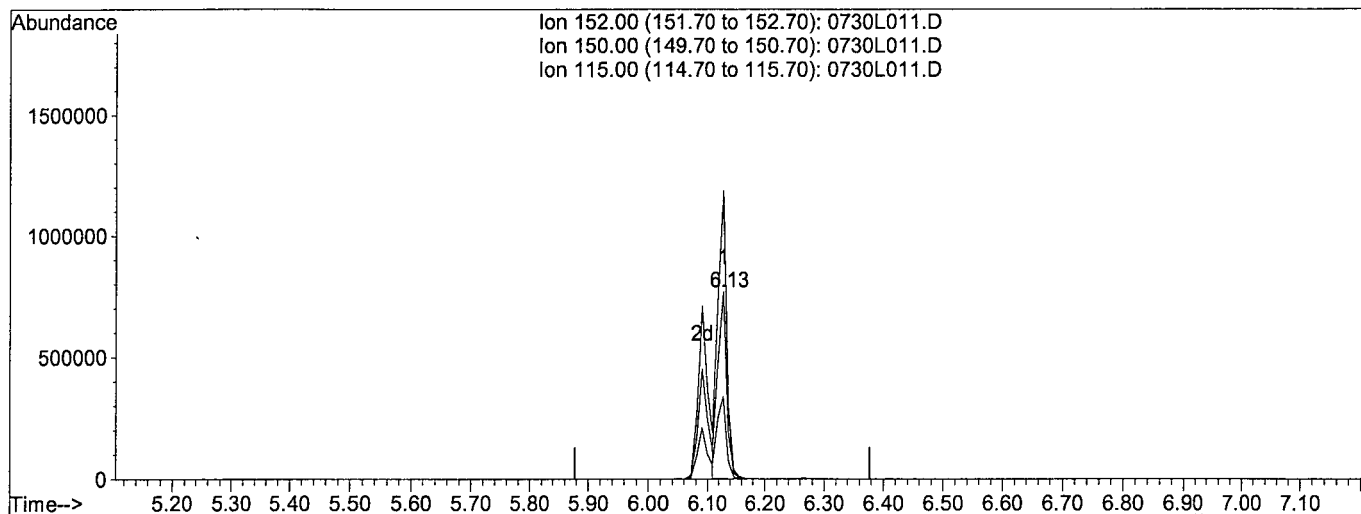


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L011.D
 Acq On : 30 Jul 19 15:37
 Sample : SS MEE 04/30/19
 Misc :
 Quant Time: Jul 30 17:38 2019

Vial: 11
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Multiple Level Calibration



TIC: 0730L011.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb

response 826966

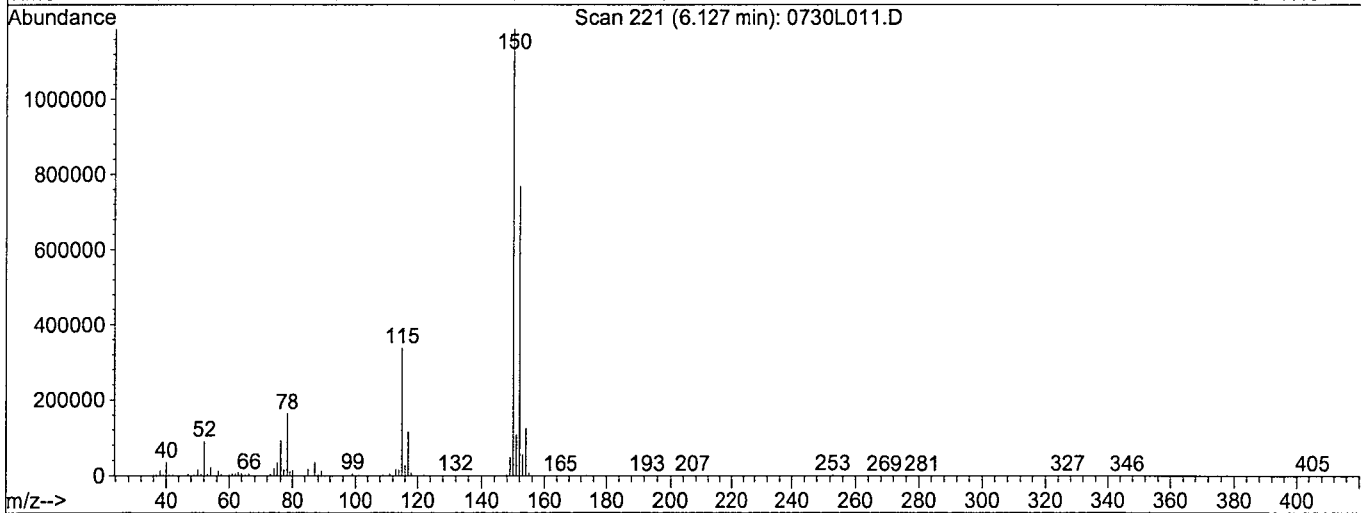
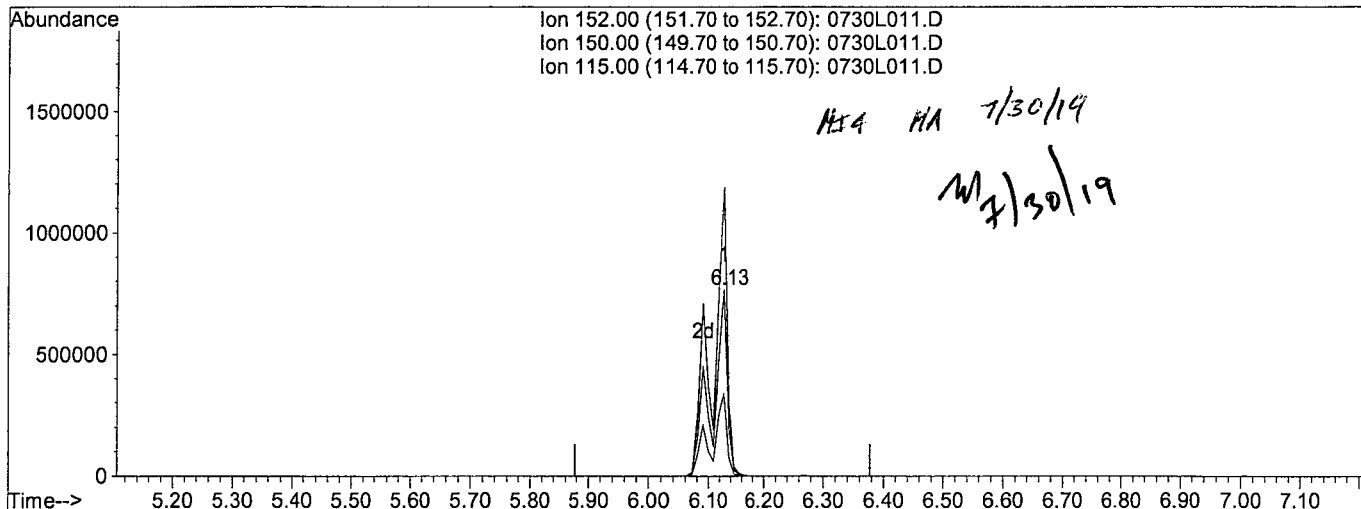
Ion	Exp%	Act%
152.00	100	100
150.00	154.60	154.55
115.00	44.10	44.04
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L011.D
 Acq On : 30 Jul 19 15:37
 Sample : SS MEE 04/30/19
 Misc :
 Quant Time: Jul 30 17:38 2019

Vial: 11
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Multiple Level Calibration



TIC: 0730L011.D

(1) 1,4-dichlorobenzene-D4(1S) (I)

6.13min 40.0000ppb m

response 1382961

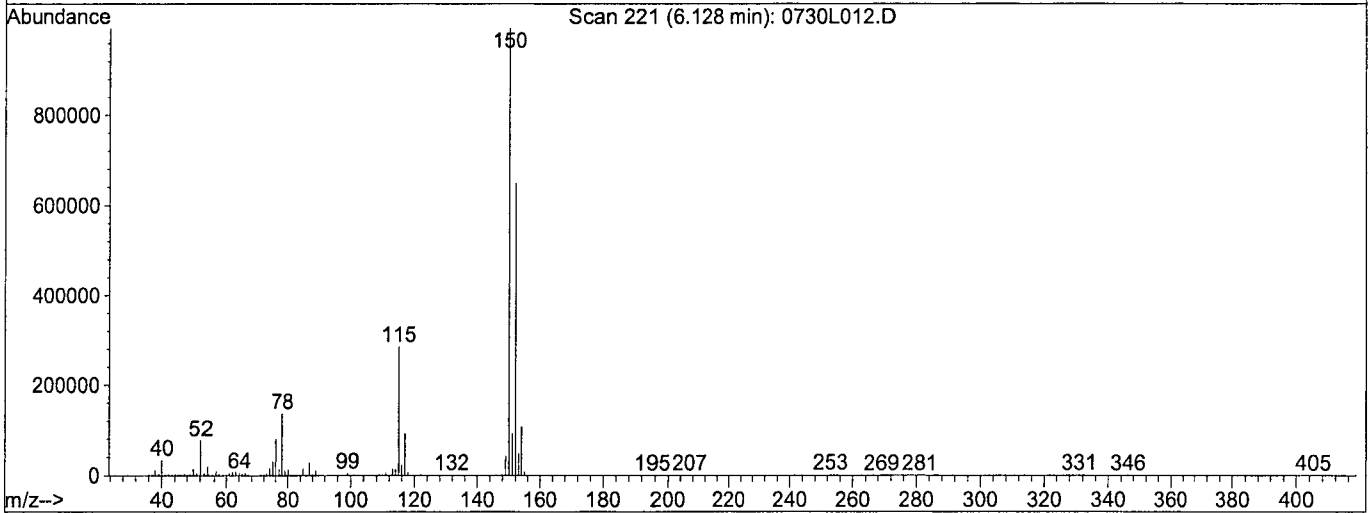
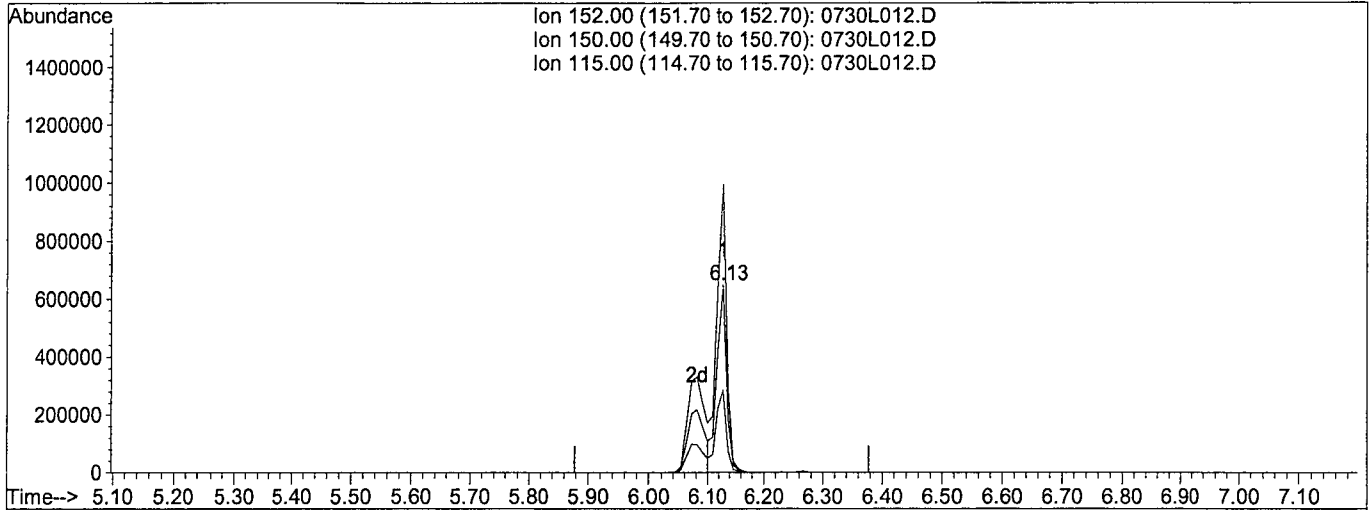
Ion	Exp%	Act%
152.00	100	100
150.00	154.60	154.57
115.00	44.10	44.07
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L012.D
 Acq On : 30 Jul 19 16:00
 Sample : QC 500ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 16:17 2019

Vial: 12
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Multiple Level Calibration



TIC: 0730L012.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb

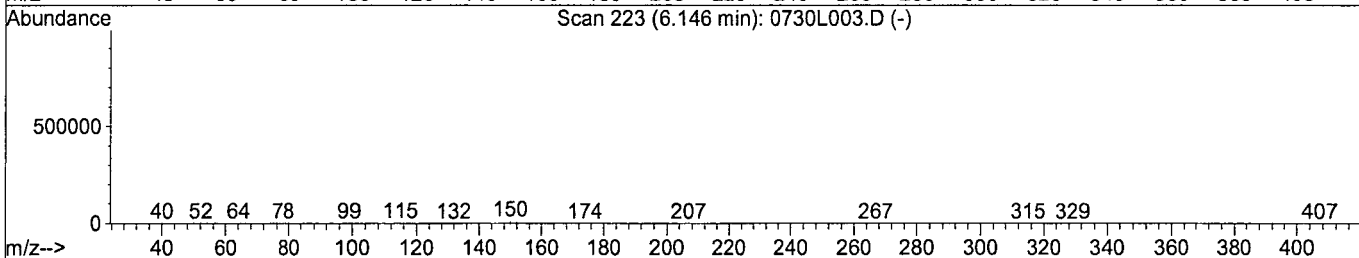
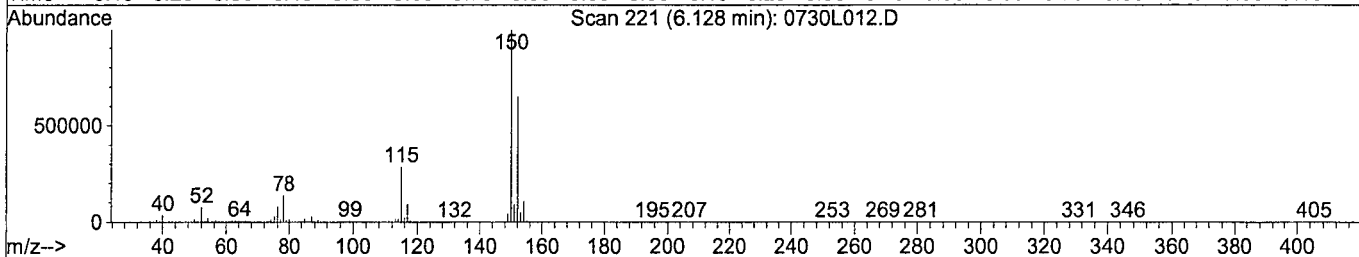
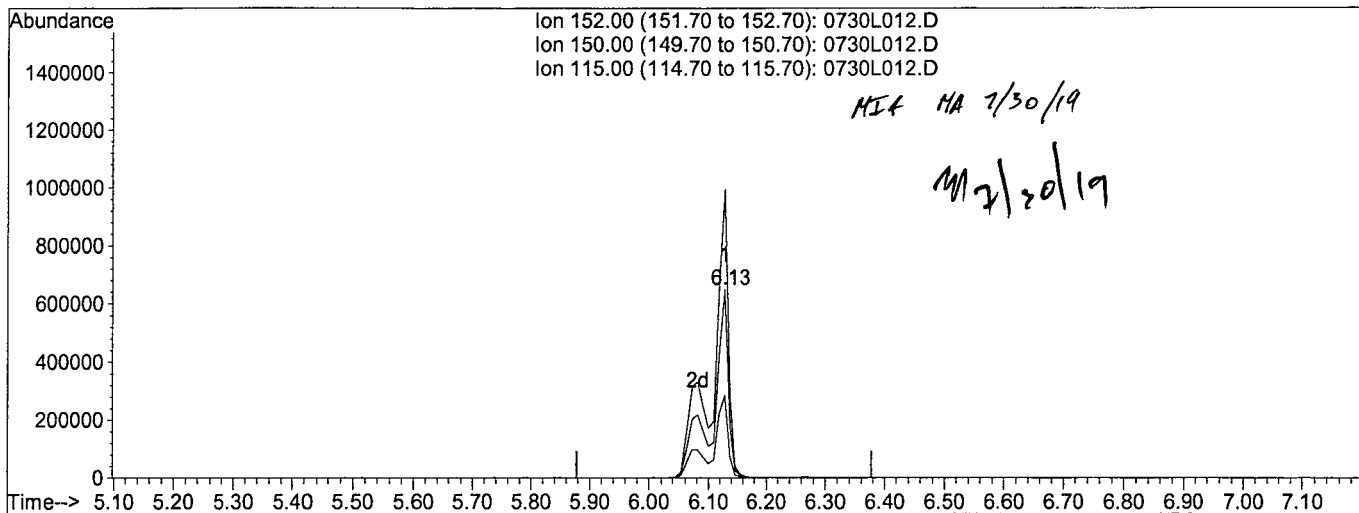
response 787665

Ion	Exp%	Act%
152.00	100	100
150.00	154.60	153.33
115.00	44.10	44.00
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L012.D Vial: 12
 Acq On : 30 Jul 19 16:00 Operator: MA
 Sample : QC 500ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00
 Quant Time: Jul 30 16:17 2019 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Multiple Level Calibration



TIC: 0730L012.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb m

response 1237555

Ion	Exp%	Act%
152.00	100	100
150.00	154.60	153.34
115.00	44.10	44.03
0.00	0.00	0.00

2MEE
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 07/30/19

Matrix: _____

Instrument: Linus

Initial Cal. Date: 07/30/19

Data File: 0730L031.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I
2	TM	2-(2-Methoxyethoxy)ethanol	0.0534	0.0610	14	TM
3	I	Napthalene-D8(IS)	ISTD			I
4	I	Acenaphthene-D10(IS)	ISTD			I
5	I	Phenanthrene-D10(IS)	ISTD			I
6	I	Chrysene-D12(IS)	ISTD			I
7	I	Perylene-D12(IS)	ISTD			I
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
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26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						

Average

14.0

Data File : M:\LINUS\DATA\L190730M\0730L031.D Vial: 31
 Acq On : 30 Jul 19 23:19 Operator: MA
 Sample : 500ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 31 9:50 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.12	152	1430074m	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.05	136	4679509	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3697826	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.58	188	6445648	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.88	240	8956592	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.64	264	9413879	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.68	45	1089986	571.26908	ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

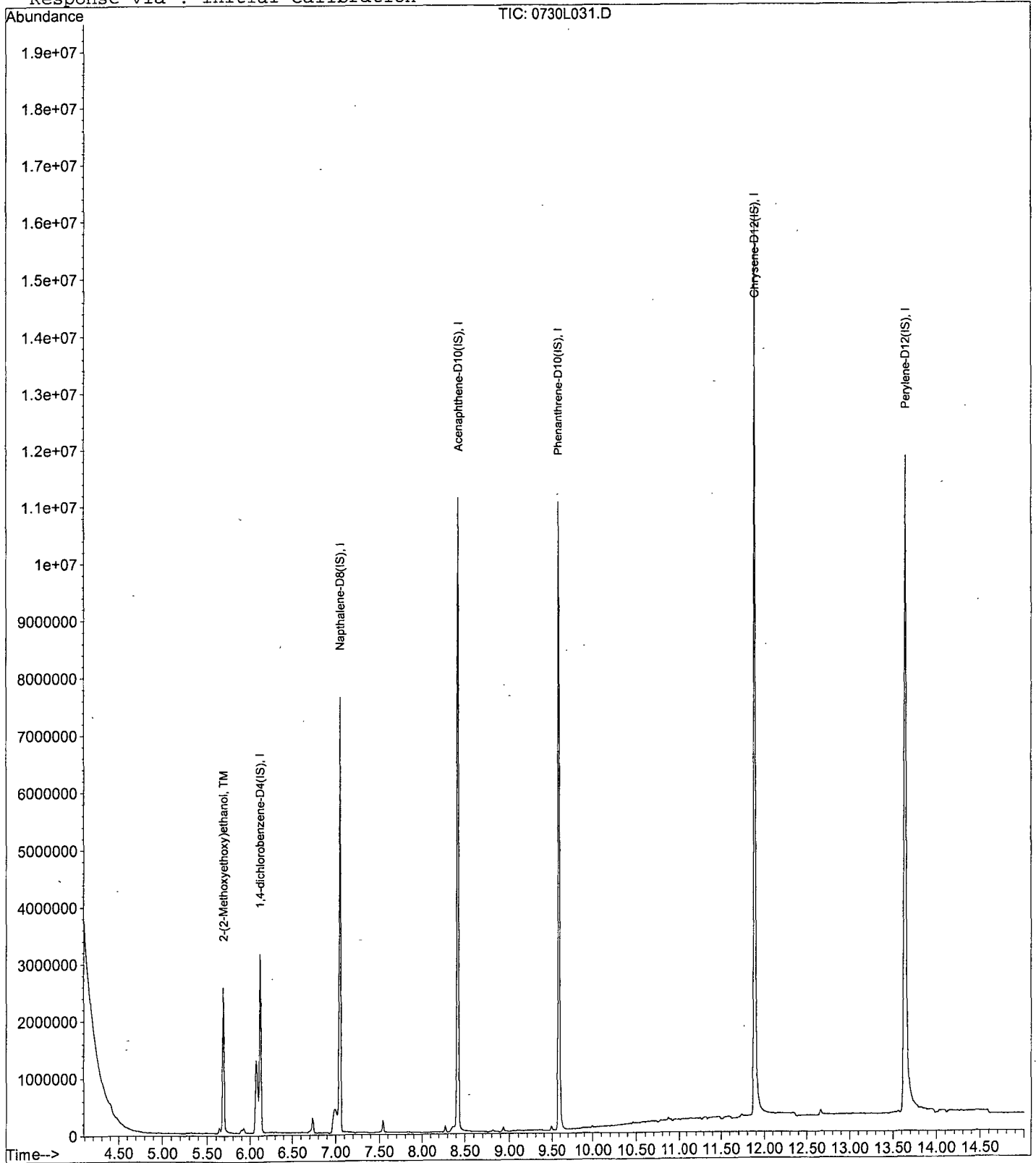
Data File : M:\LINUS\DATA\L190730M\0730L031.D
Acq On : 30 Jul 19 23:19
Sample : 500ug/ml MEE 04/30/19
Misc :

Vial: 31
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 31 9:50 2019

Quant Results File: LMEE0430.RES

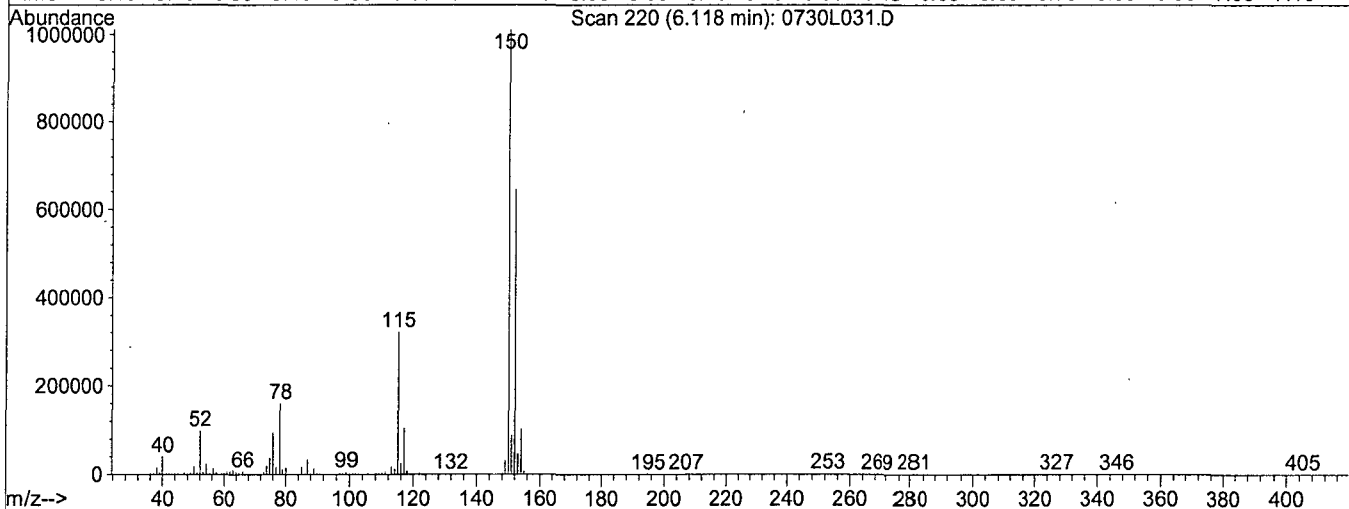
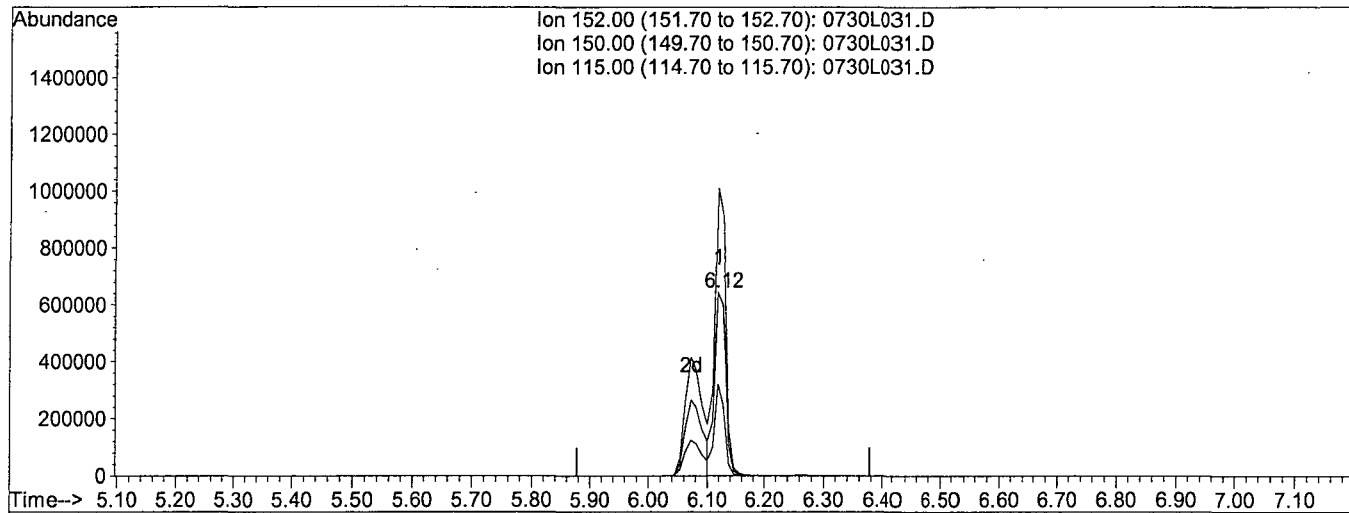
Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L031.D Vial: 31
 Acq On : 30 Jul 19 23:19 Operator: MA
 Sample : 500ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00
 Quant Time: Jul 31 9:08 2019 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Multiple Level Calibration



TIC: 0730L031.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.12min 40.0000ppb

response 873641

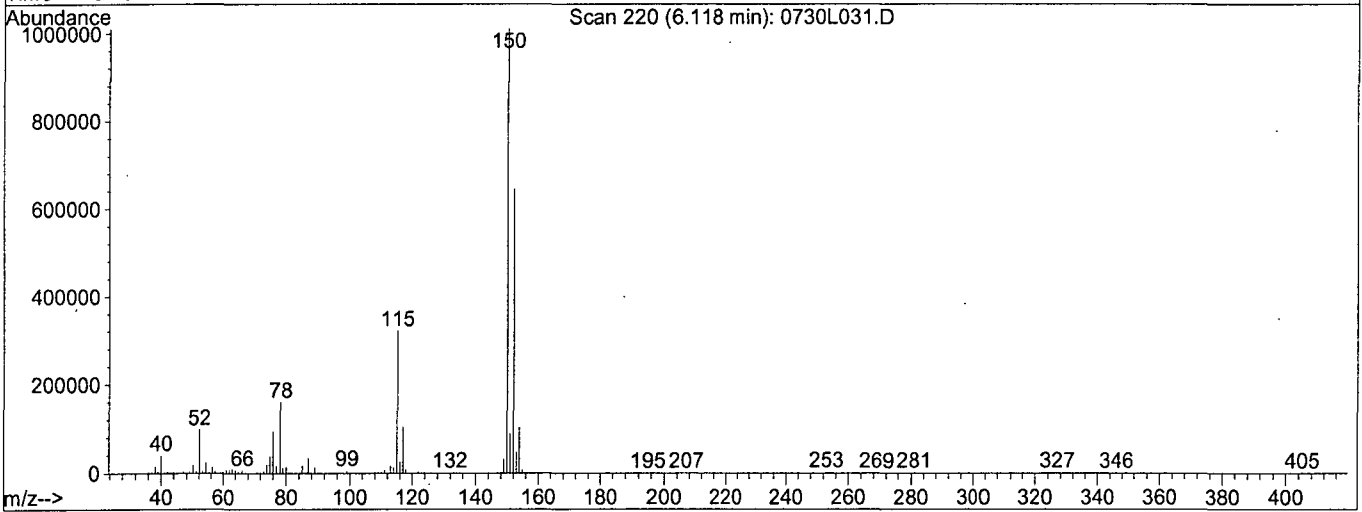
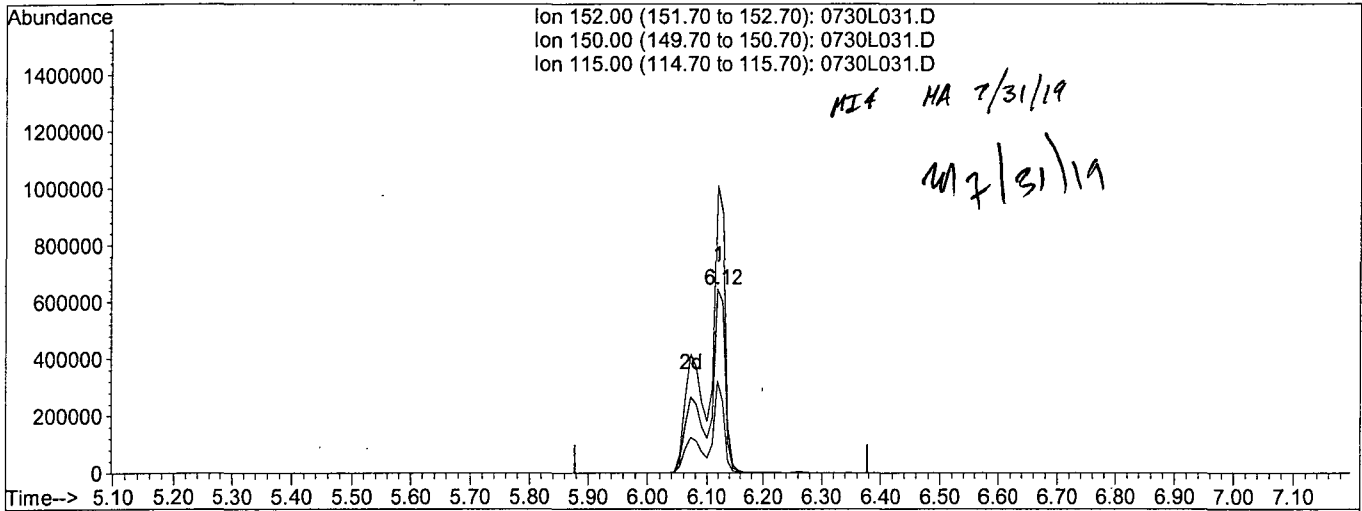
Ion	Exp%	Act%
152.00	100	100
150.00	154.60	156.76
115.00	44.10	49.92
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L031.D
 Acq On : 30 Jul 19 23:19
 Sample : 500ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 31 9:50 2019

Vial: 31
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Multiple Level Calibration



TIC: 0730L031.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.12min 40.0000ppb m

response 1430074

Ion	Exp%	Act%
152.00	100	100
150.00	154.60	156.77
115.00	44.10	49.94
0.00	0.00	0.00

ORGANICS
Raw Data

Data File : M:\LINUS\DATA\L190730M\0730L022.D Vial: 22
 Acq On : 30 Jul 19 19:51 Operator: MA
 Sample : AZ95329W11 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 31 10:14 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.12	152	783866	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.05	136	4804345	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3415247	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7636362	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.90	240	8712545	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.67	264	9638792	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

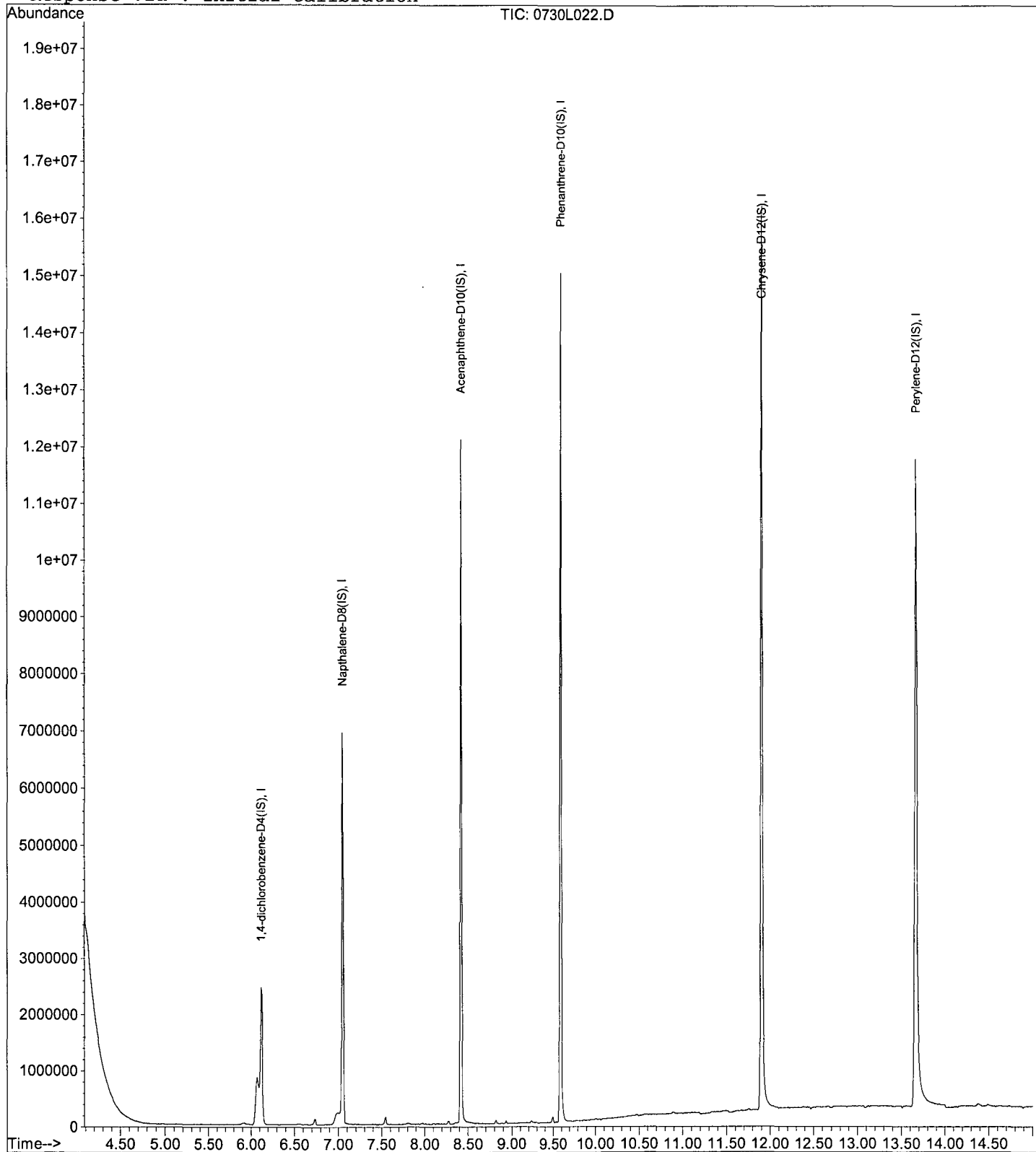
Data File : M:\LINUS\DATA\L190730M\0730L022.D
Acq On : 30 Jul 19 19:51
Sample : AZ95329W11 2/500
Misc :

Vial: 22
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 31 10:14 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L023.D Vial: 23
 Acq On : 30 Jul 19 20:15 Operator: MA
 Sample : AZ95330W10 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 31 10:14 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.13	152	771078	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.05	136	4594526	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3434414	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7729867	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	8390381	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.65	264	8549248	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

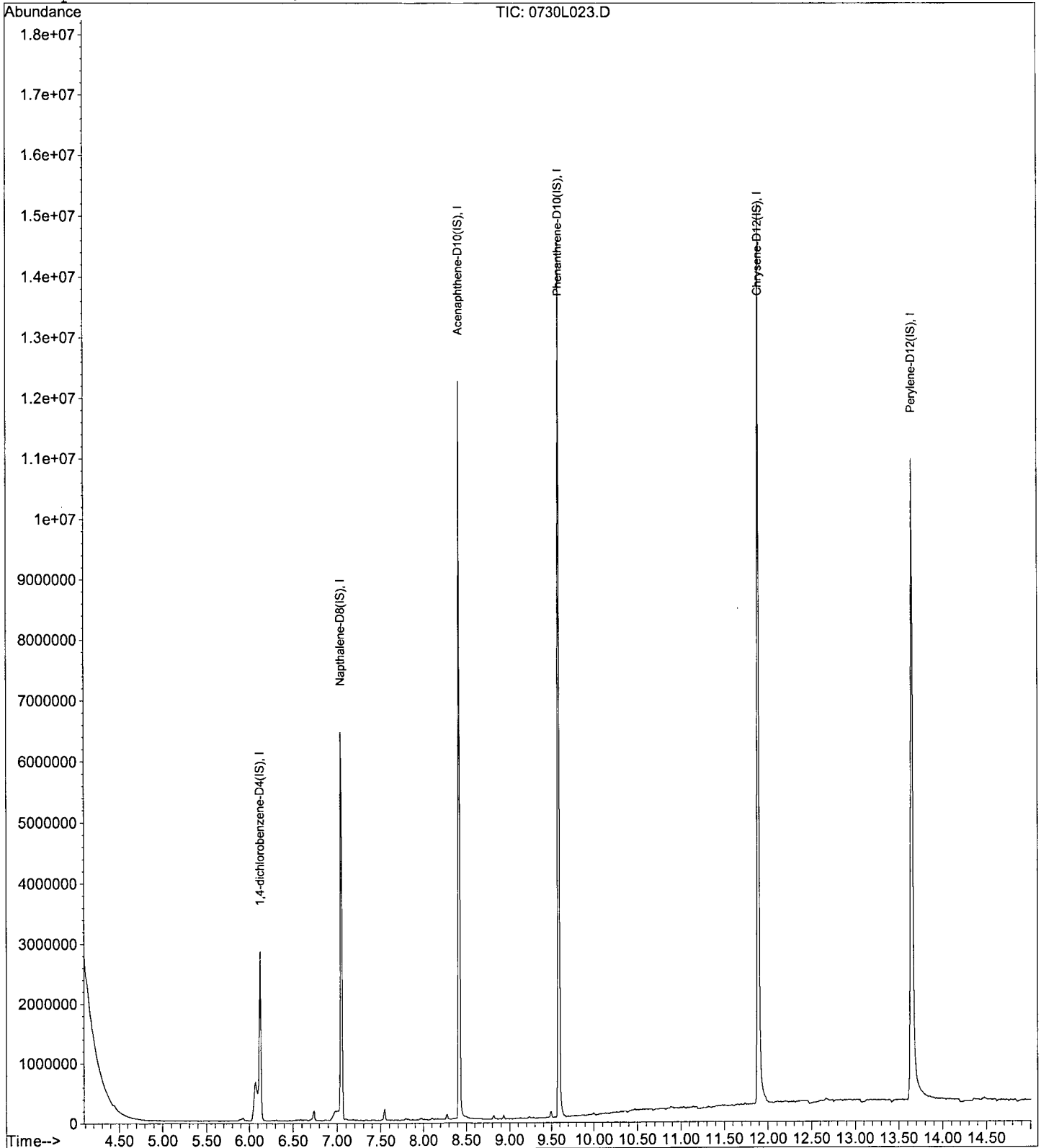
Data File : M:\LINUS\DATA\L190730M\0730L023.D
Acq On : 30 Jul 19 20:15
Sample : AZ95330W10 2/500
Misc :

Vial: 23
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 31 10:14 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L024.D Vial: 24
 Acq On : 30 Jul 19 20:38 Operator: MA
 Sample : AZ95332W11 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 31 10:15 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.14	152	1322012	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.06	136	4958928	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3554636	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	8107455	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	9246190	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.65	264	10472909	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

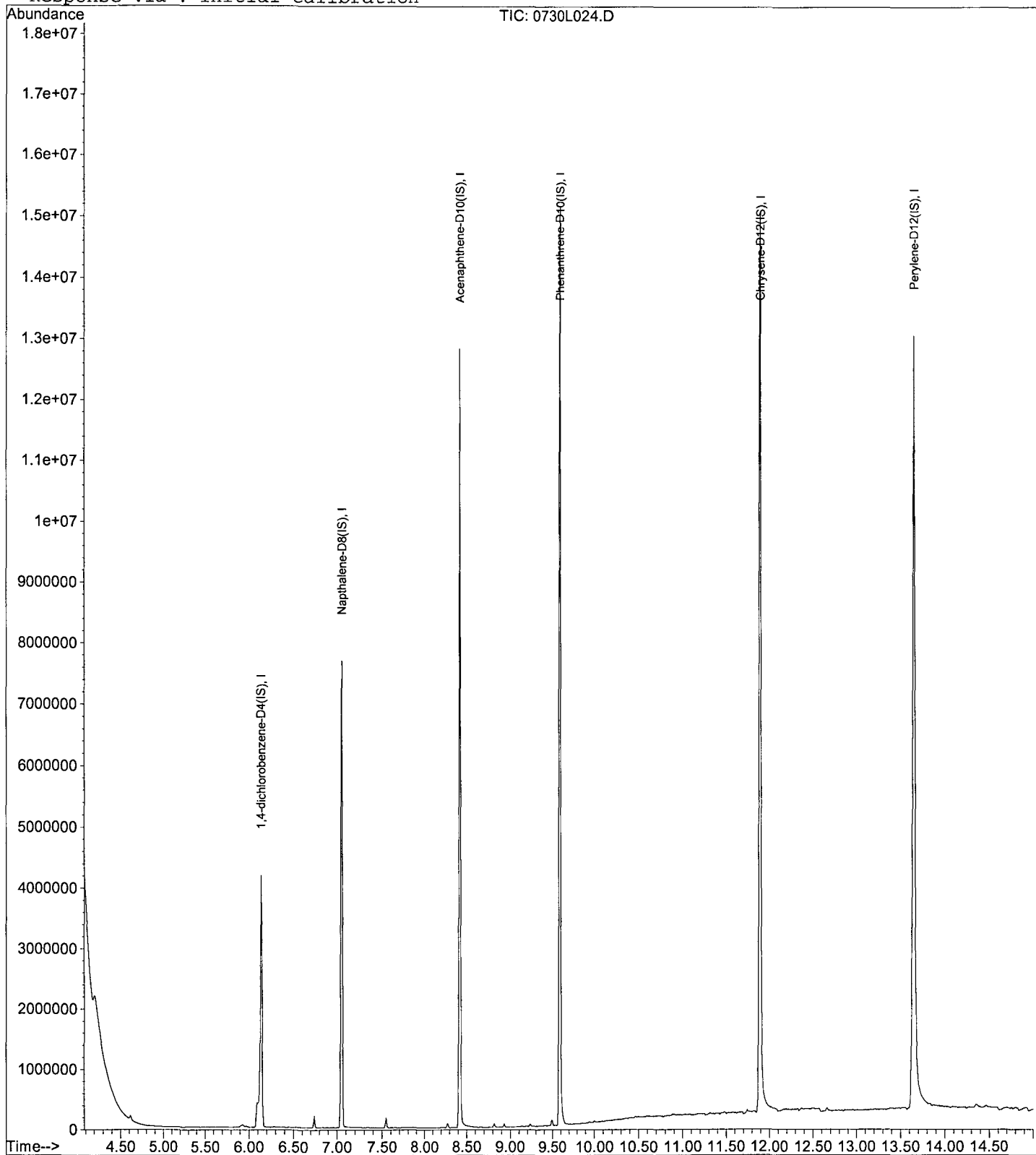
Data File : M:\LINUS\DATA\L190730M\0730L024.D
Acq On : 30 Jul 19 20:38
Sample : AZ95332W11 2/500
Misc :

Vial: 24
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 31 10:15 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L025.D Vial: 25
 Acq On : 30 Jul 19 21:01 Operator: MA
 Sample : AZ95334W10 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 31 10:15 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.13	152	906314	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.05	136	5119726	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3426171	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7788128	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.88	240	8761124	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.64	264	9756771	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

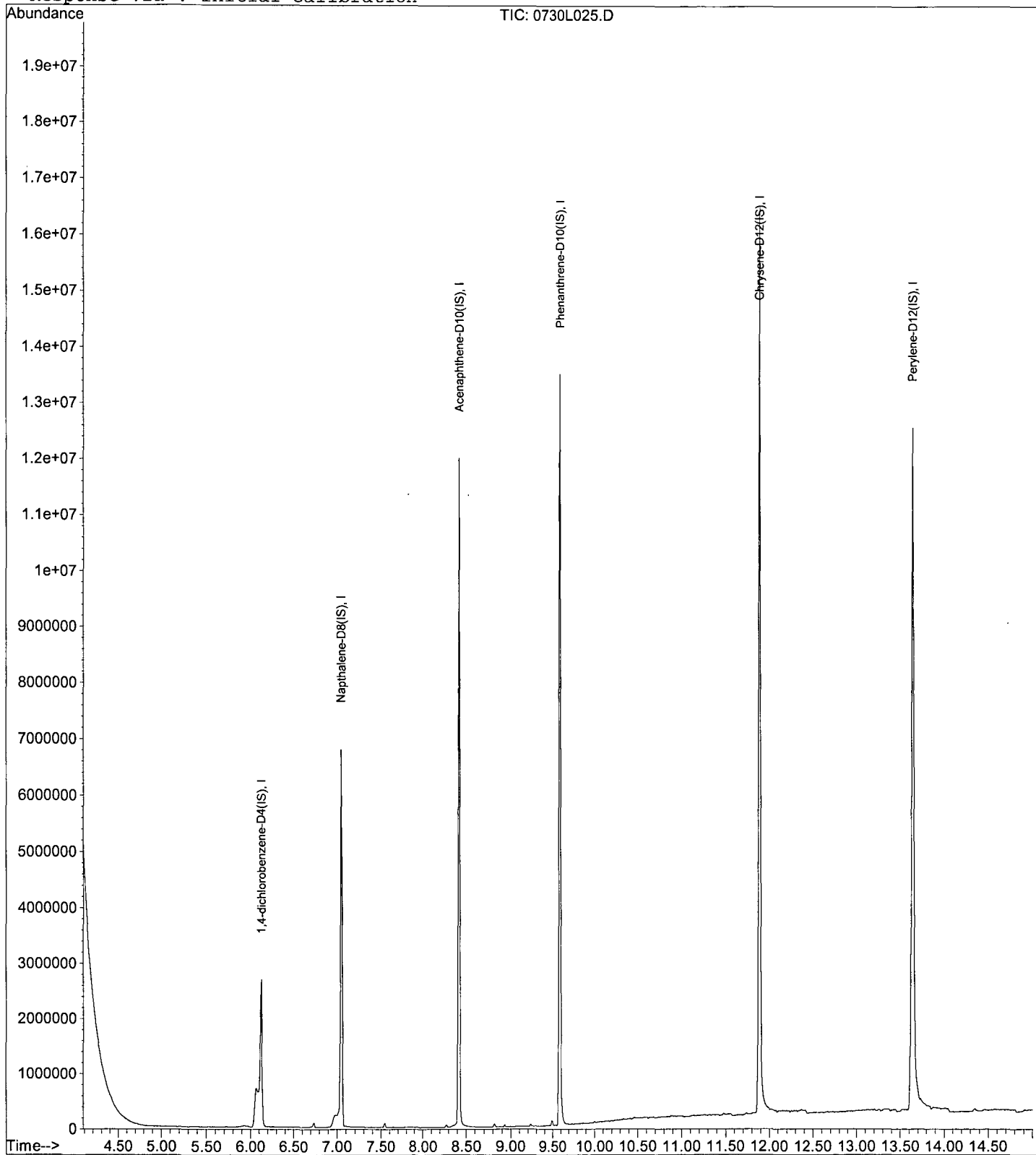
Data File : M:\LINUS\DATA\L190730M\0730L025.D
Acq On : 30 Jul 19 21:01
Sample : AZ95334W10 2/500
Misc :

Vial: 25
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 31 10:15 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L026.D Vial: 26
 Acq On : 30 Jul 19 21:24 Operator: MA
 Sample : AZ95336W10 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 31 10:15 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.14	152	1368354	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.06	136	5192782	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3305492	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7899112	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.88	240	7913646	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.64	264	9713507	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

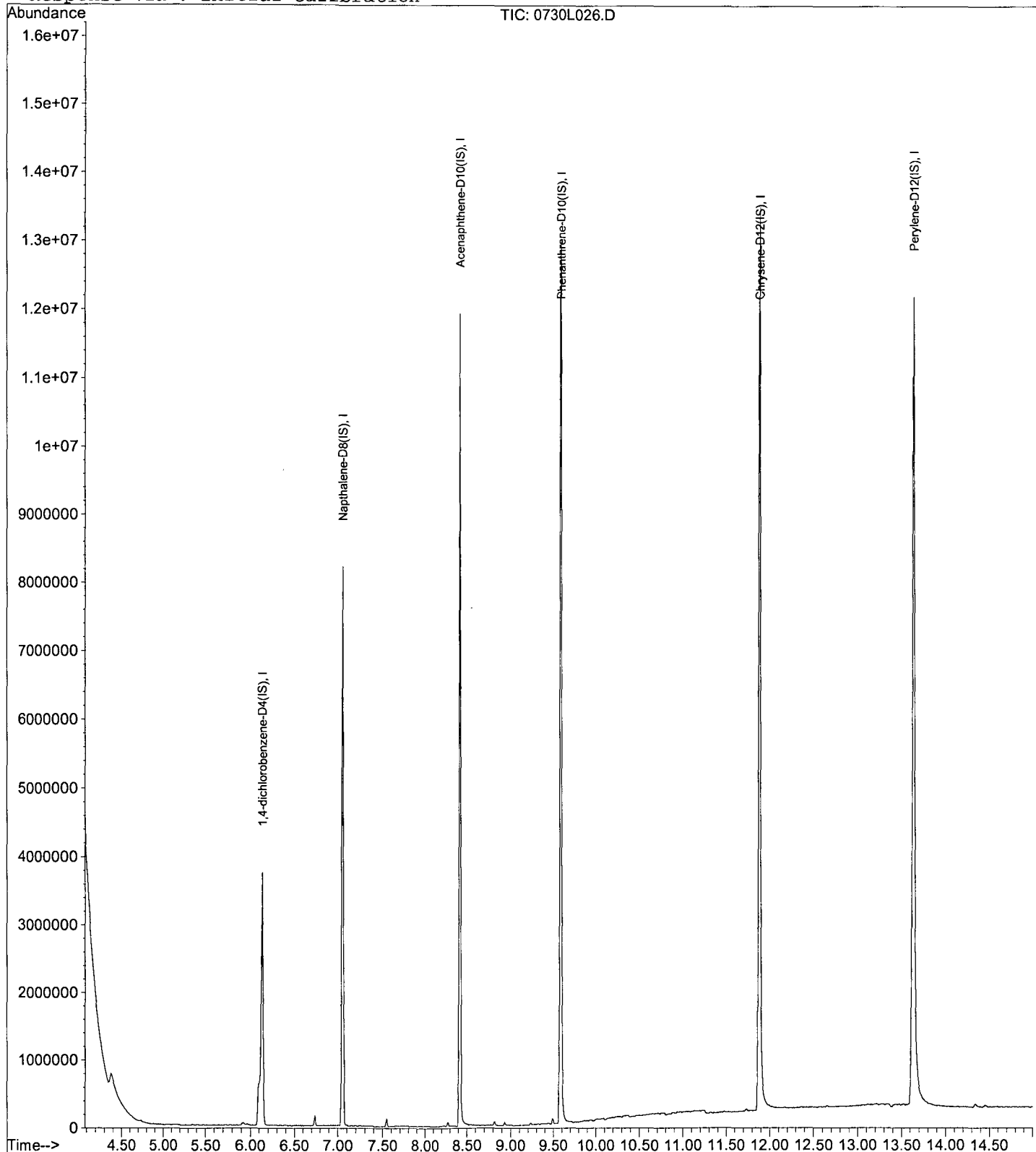
Data File : M:\LINUS\DATA\L190730M\0730L026.D
Acq On : 30 Jul 19 21:24
Sample : AZ95336W10 2/500
Misc :

Vial: 26
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 31 10:15 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L027.D
 Acq On : 30 Jul 19 21:47
 Sample : AZ95338W11 2/500
 Misc :

Vial: 27
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Jul 31 10:15 2019

Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.14	152	1294816	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.06	136	4352421	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3457228	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7810541	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.88	240	7310321	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.64	264	8160856	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds

Qvalue

Quantitation Report

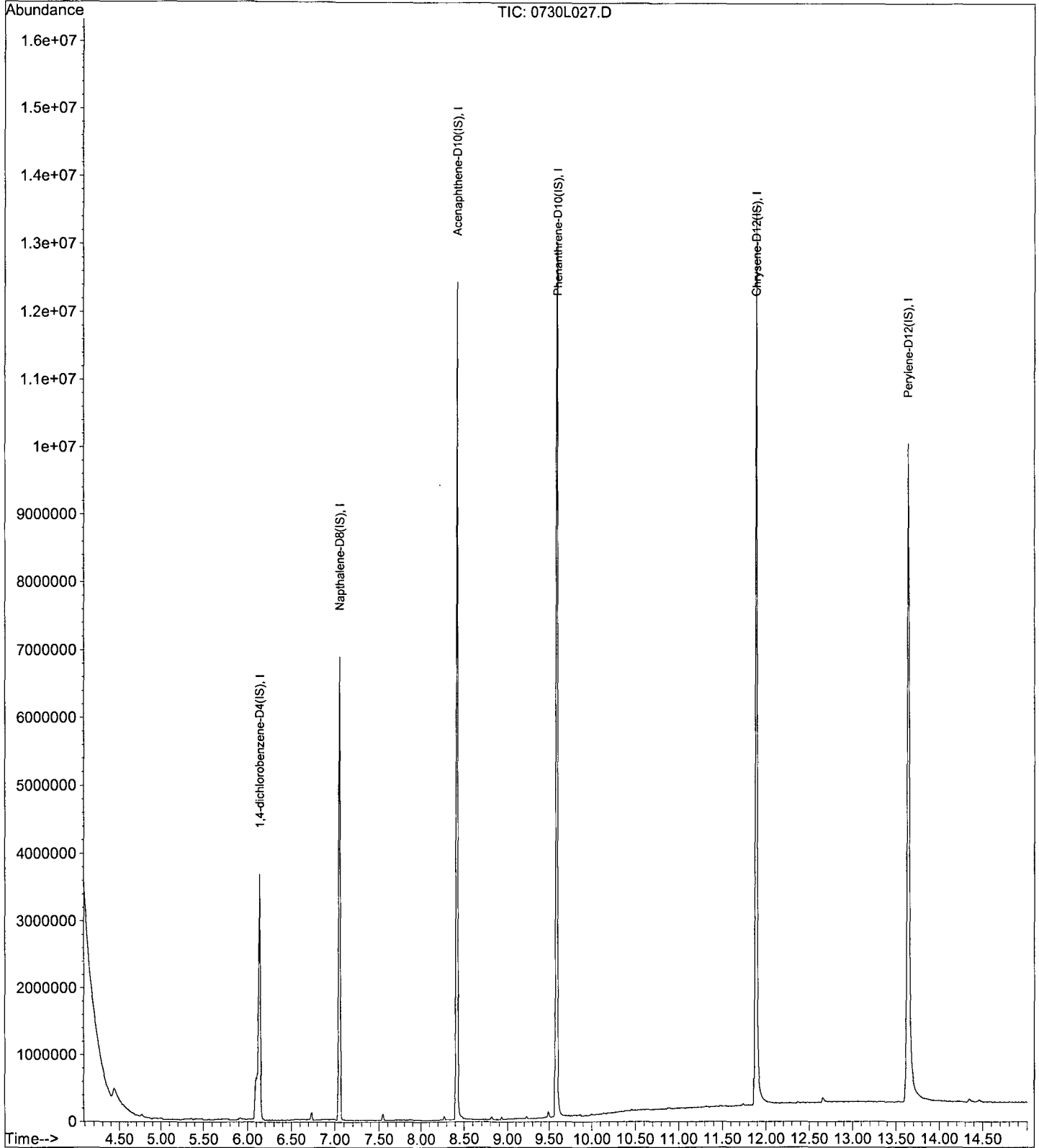
Data File : M:\LINUS\DATA\L190730M\0730L027.D
Acq On : 30 Jul 19 21:47
Sample : AZ95338W11 2/500
Misc :

Vial: 27
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 31 10:15 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L014.D Vial: 14
 Acq On : 30 Jul 19 16:45 Operator: MA
 Sample : 190726A BLK 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 31 10:06 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.14	152	1336804	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.06	136	4953764	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3582064	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	8123027	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.90	240	8906228	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.67	264	9831222	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

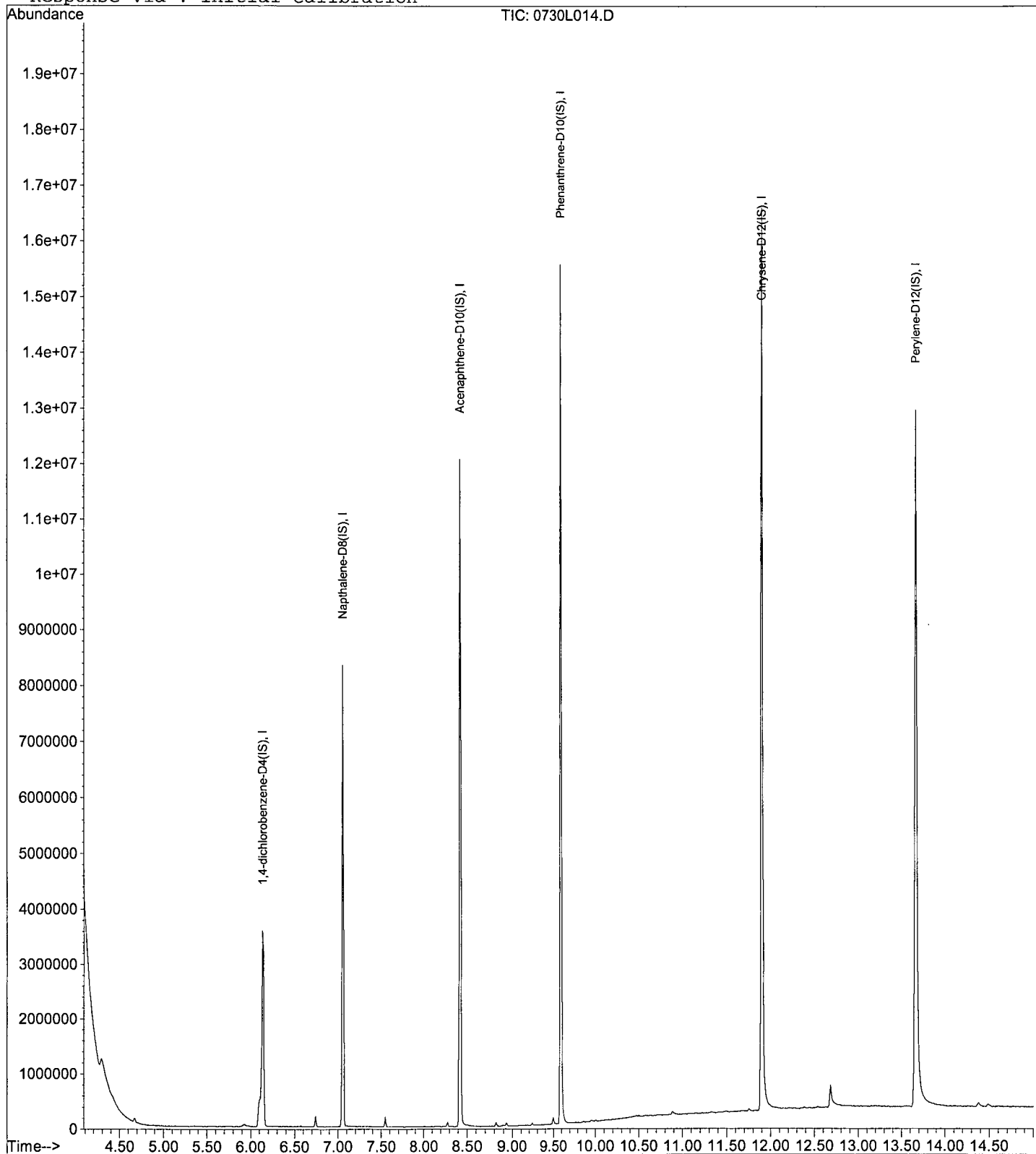
Data File : M:\LINUS\DATA\L190730M\0730L014.D
Acq On : 30 Jul 19 16:45
Sample : 190726A BLK 2/500
Misc :

Vial: 14
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 31 10:06 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L015.D Vial: 15
 Acq On : 30 Jul 19 17:09 Operator: MA
 Sample : 190726A LCS-1 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 31 10:05 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.14	152	1275338	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.06	136	4717275	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3276414	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7472320	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.88	240	8004561	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.64	264	8866056	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	5.77	45	174716	102.67996	ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

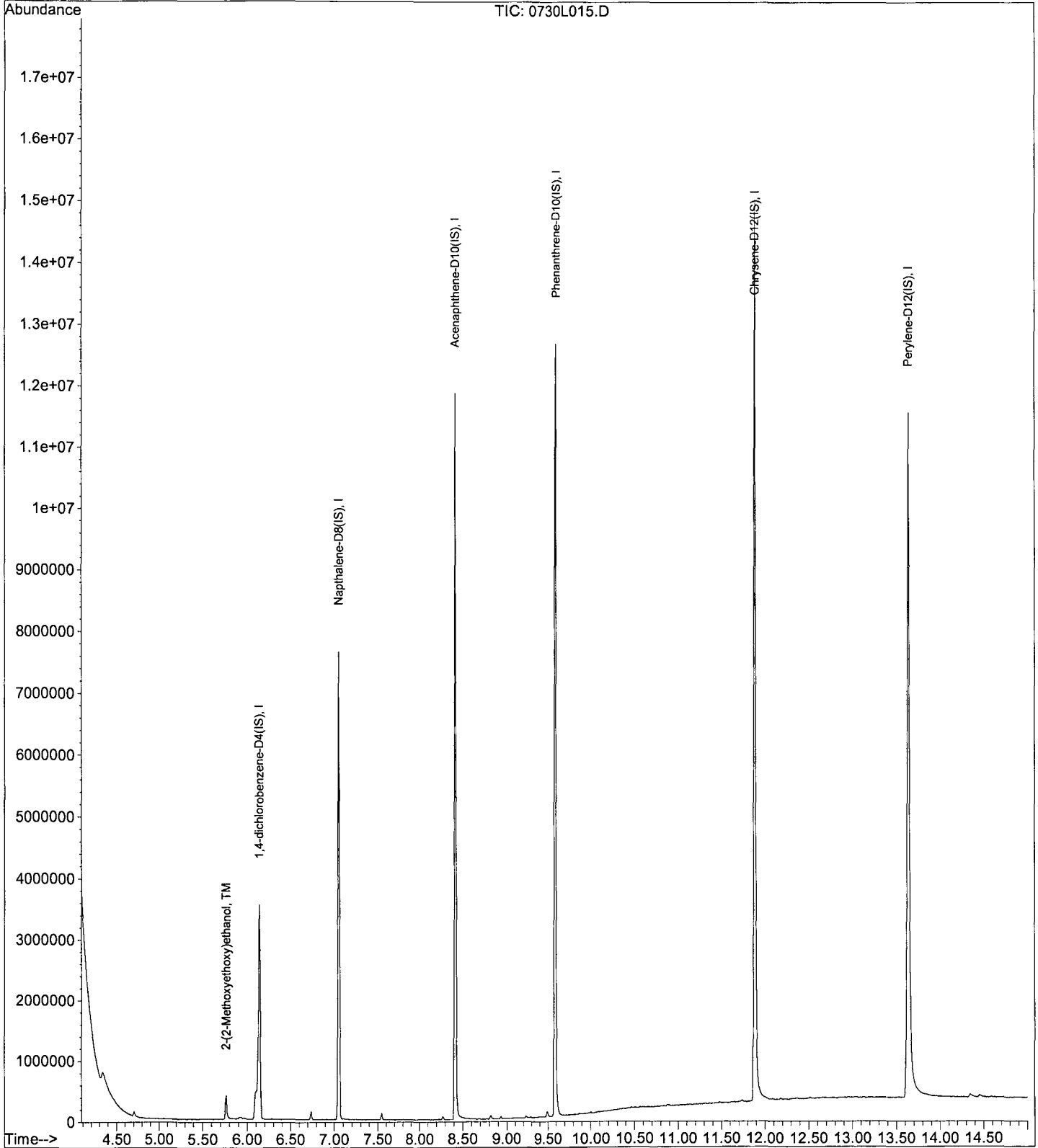
Data File : M:\LINUS\DATA\L190730M\0730L015.D
Acq On : 30 Jul 19 17:09
Sample : 190726A LCS-1 2/500
Misc :

Vial: 15
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 31 10:05 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L016.D
 Acq On : 30 Jul 19 17:32
 Sample : 190726A LCSD-1 2/500
 Misc :

Vial: 16
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Jul 31 10:05 2019

Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.14	152	1099448	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.06	136	4328762	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3177077	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7321662	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.88	240	7997465	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.64	264	10753455	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	5.77	45	177377	120.92077	ppb	100

Quantitation Report

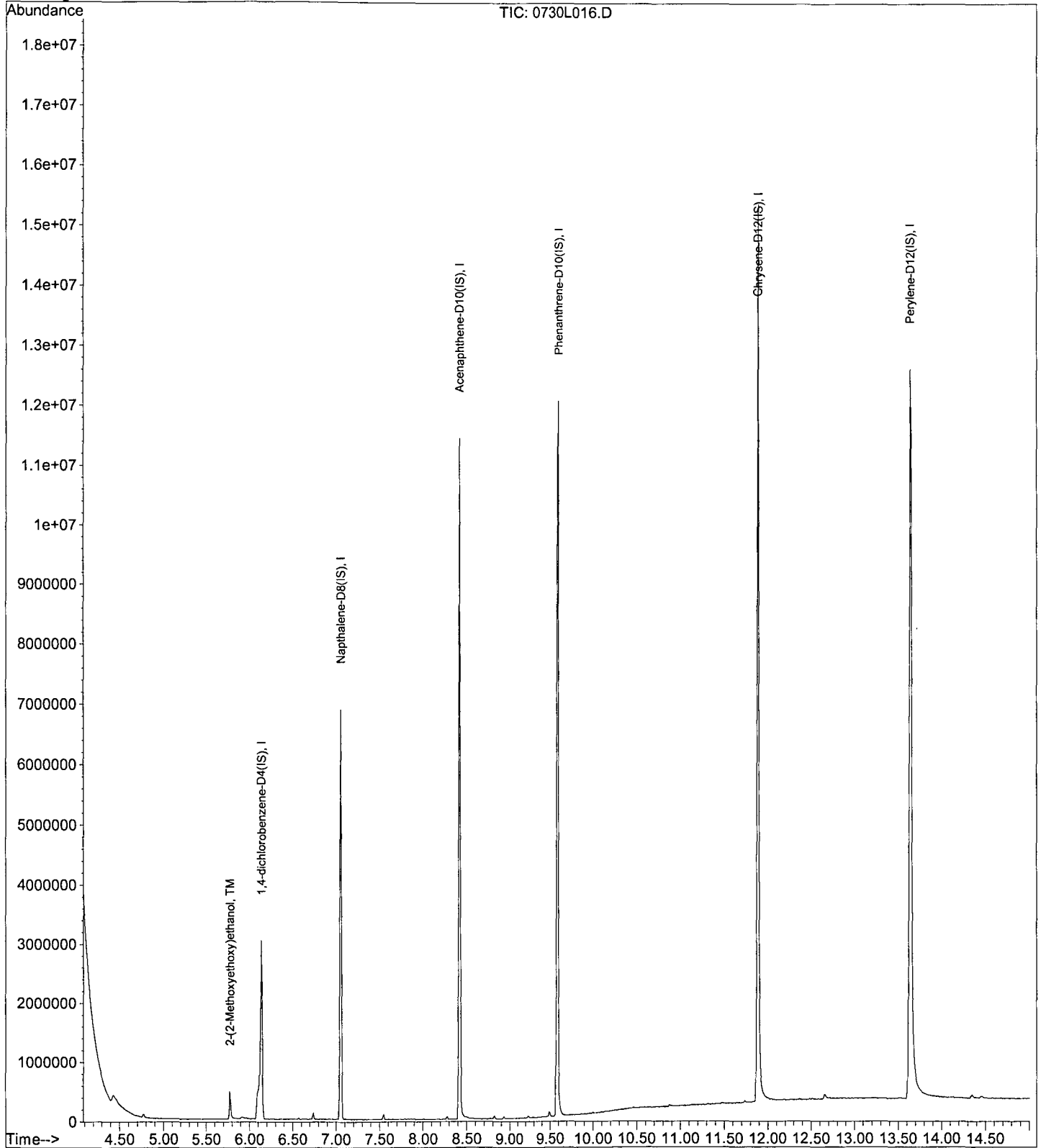
Data File : M:\LINUS\DATA\L190730M\0730L016.D
Acq On : 30 Jul 19 17:32
Sample : 190726A LCSD-1 2/500
Misc :

Vial: 16
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 31 10:05 2019

Quant Results File: LMEE0430.RES

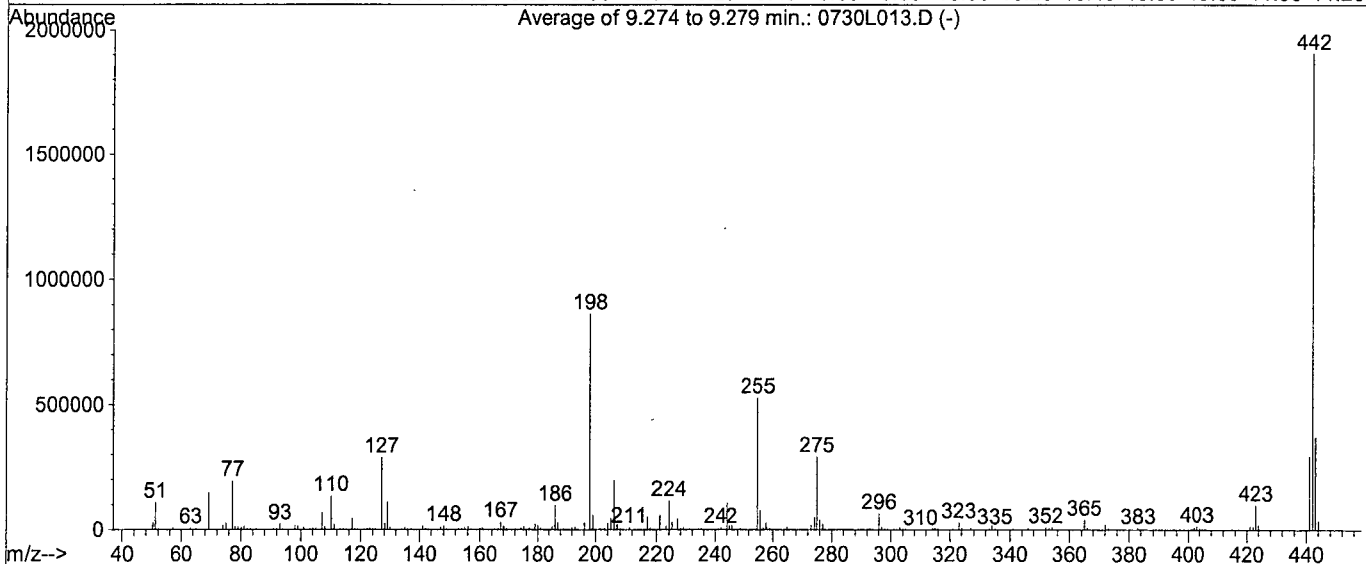
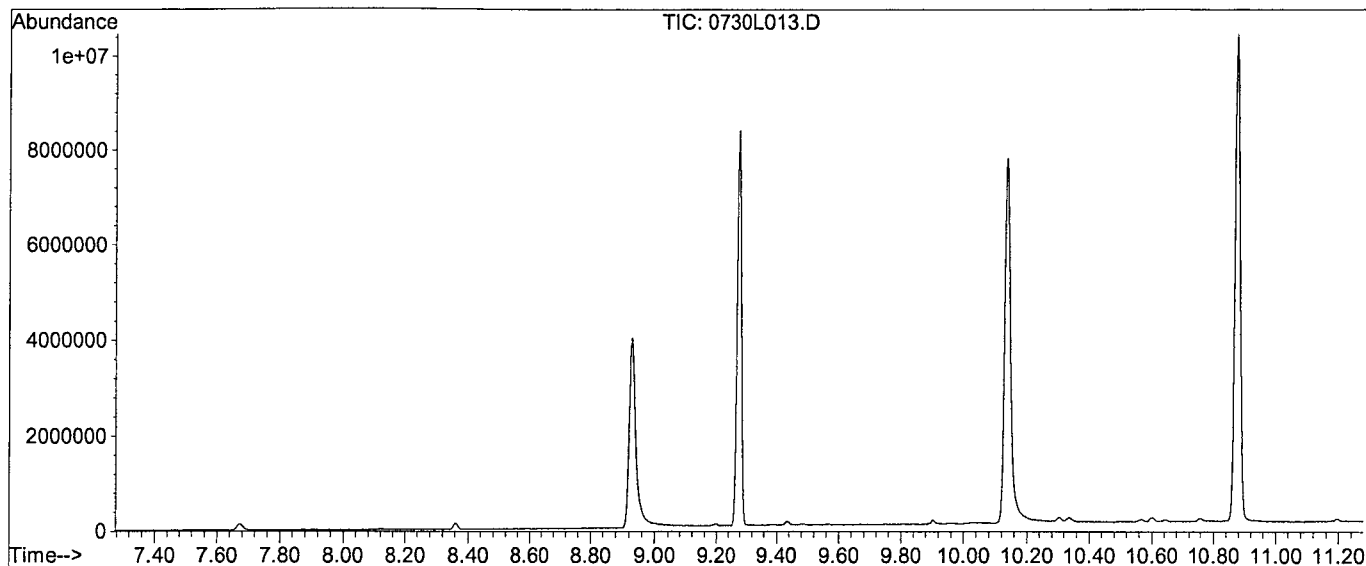
Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L013.D
 Acq On : 30 Jul 19 16:20
 Sample : SV TUNE 07/11/19
 Misc :

Vial: 13
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C



AutoFind: Scans 1281, 1282, 1283; Background Corrected with Scan 1269

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	12.7	109565	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.3	505	PASS
127	198	10	80	33.4	288213	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	862080	PASS
199	198	5	9	6.7	57741	PASS
275	198	10	60	33.7	290475	PASS
365	198	1	100	4.5	38936	PASS
441	442	0.01	24	15.4	293227	PASS
442	198	50	500	221.2	1906517	PASS
443	442	15	24	19.5	372139	PASS

Data File Name: 0730L013.D
Data File Path: M:\LINUS\DATA\L190730M\
Operator: MA
Date Acquired: 30 Jul 2019 16:20
Method File: DFTPP2.M
Sample Name: SV TUNE 07/11/19
Vial Number: 13
Instrument Name: Linus

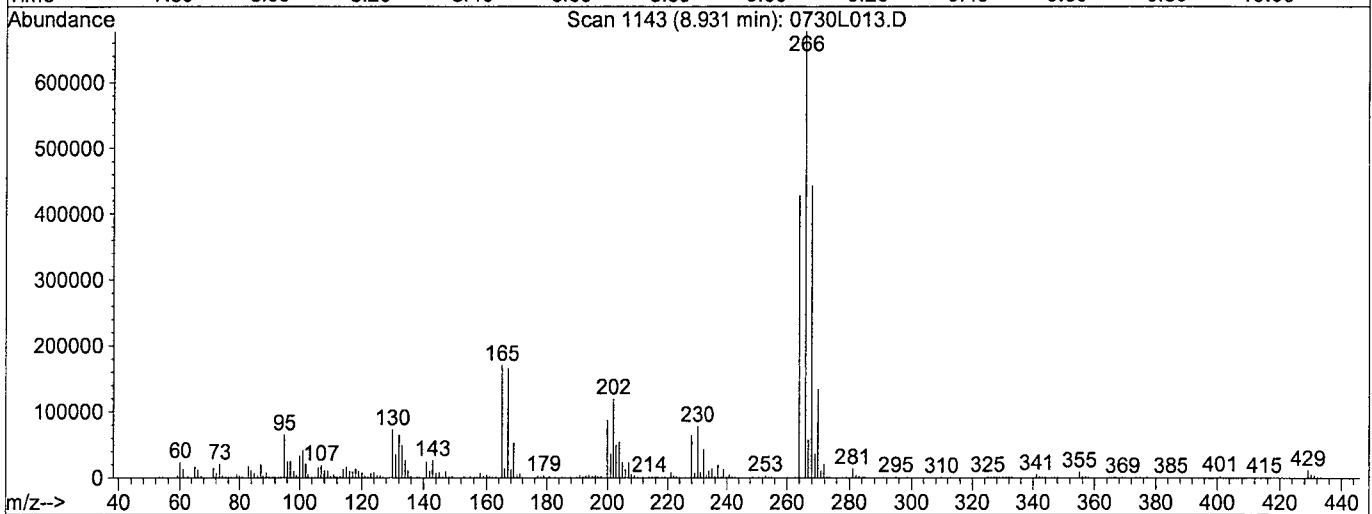
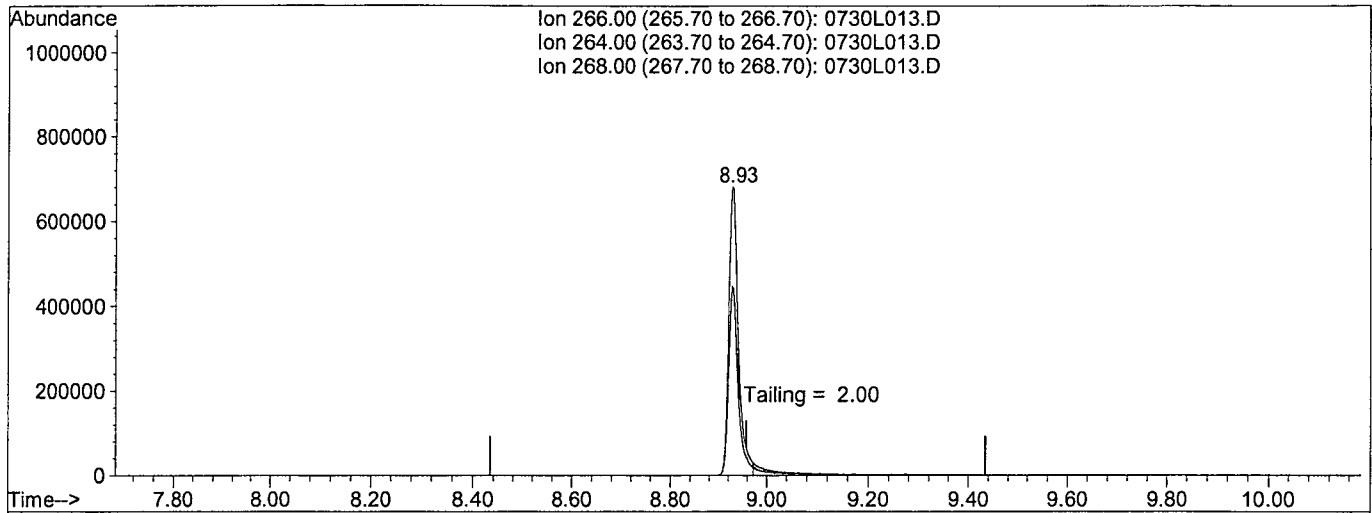
#	Name	Ret Time	Target Response
1)	DDT	10.91	114799000
2)	DDD	10.60	1016340
3)	DDE	10.64	0

Breakdown 0.88

Data File : M:\LINUS\DATA\L190730M\0730L013.D
 Acq On : 30 Jul 19 16:20
 Sample : SV TUNE 07/11/19
 Misc :
 Quant Time: Jul 30 16:34 2019

Vial: 13
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 26 10:43:15 2019
 Response via : Single Level Calibration



TIC: 0730L013.D

(5) Pentachlorophenol

8.93min 0.0000

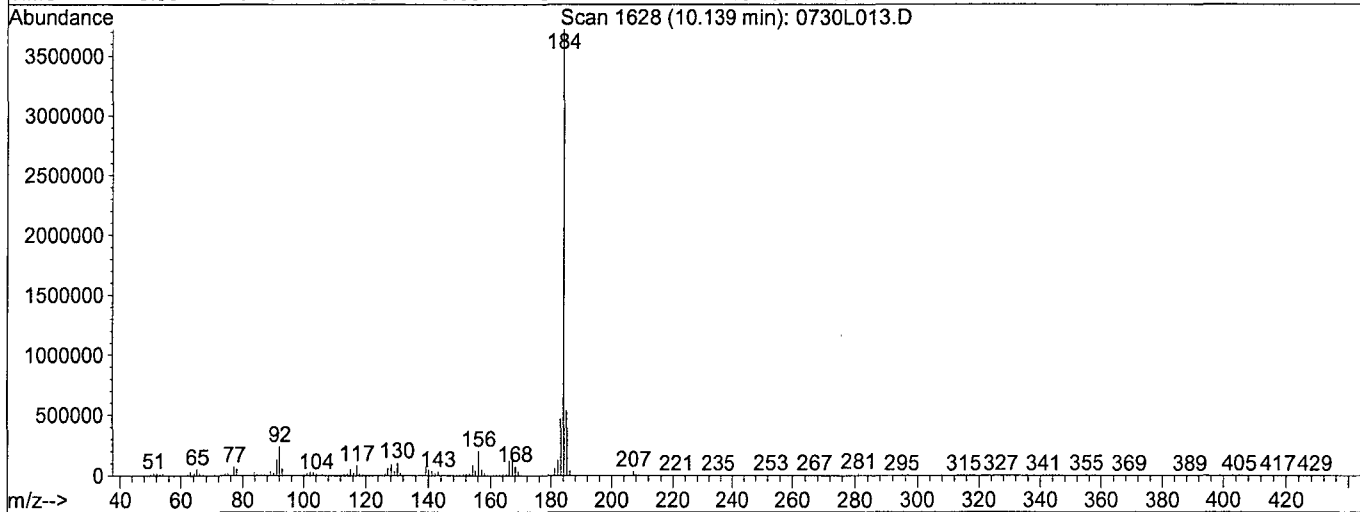
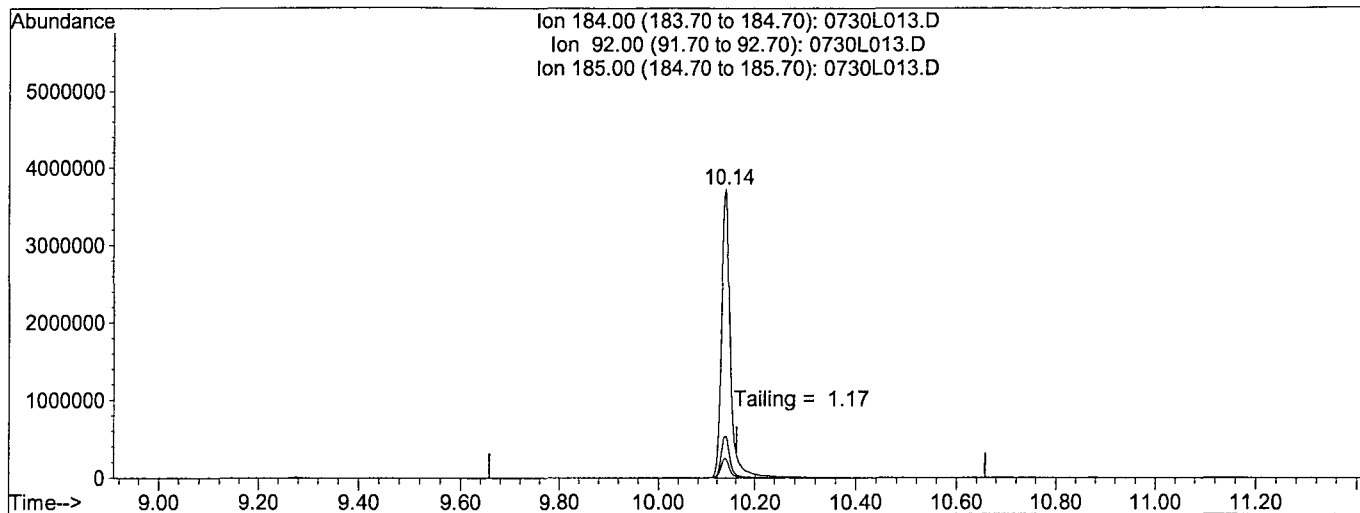
response 9991117

Ion	Exp%	Act%
266.00	100	100
264.00	68.30	62.05
268.00	65.70	59.94
0.00	0.00	0.00

Data File : M:\LINUS\DATA\L190730M\0730L013.D
 Acq On : 30 Jul 19 16:20
 Sample : SV TUNE 07/11/19
 Misc :
 Quant Time: Jul 30 16:34 2019

Vial: 13
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 26 10:43:15 2019
 Response via : Single Level Calibration



TIC: 0730L013.D

(6) Benzidine

10.14min 0.0000

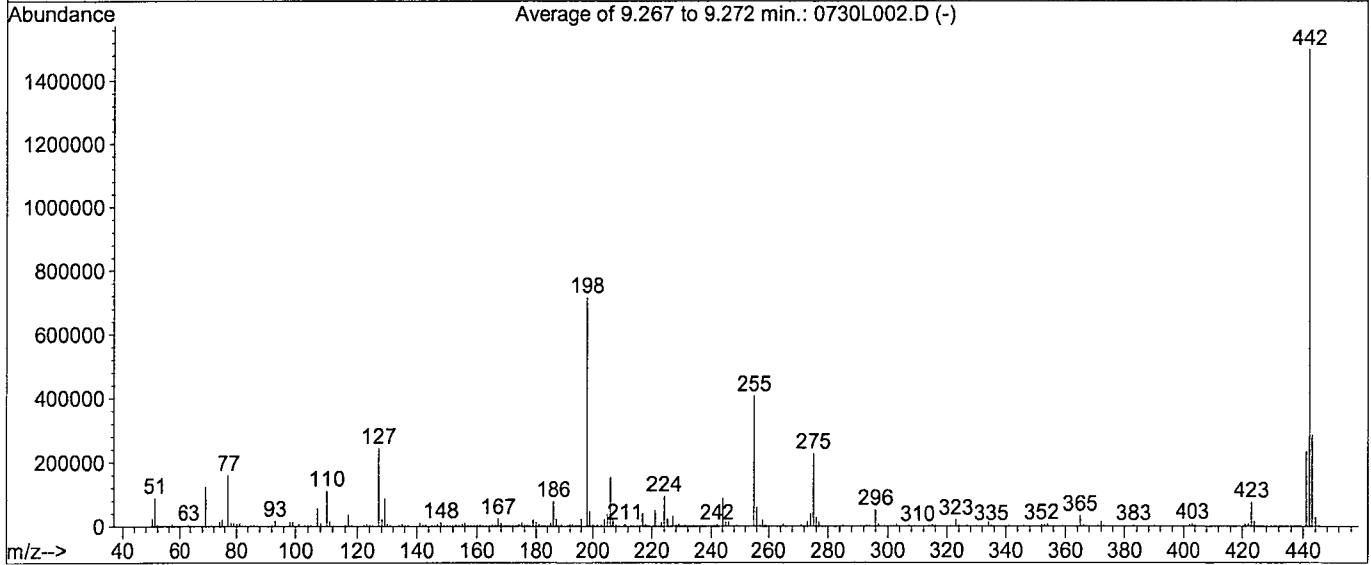
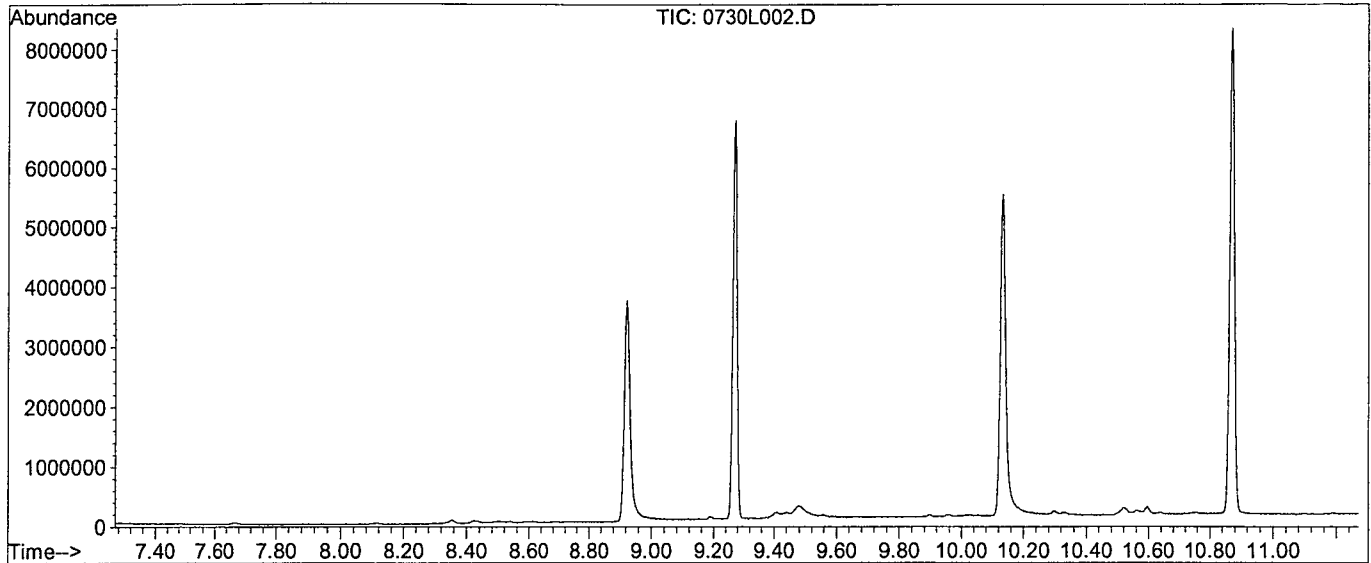
response 48859585

Ion	Exp%	Act%
184.00	100	100
92.00	7.10	6.39
185.00	13.60	14.81
0.00	0.00	0.00

Data File : M:\LINUS\DATA\L190730M\0730L002.D
 Acq On : 30 Jul 19 9:38
 Sample : SV TUNE 7/11/19
 Misc :

Vial: 13
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C



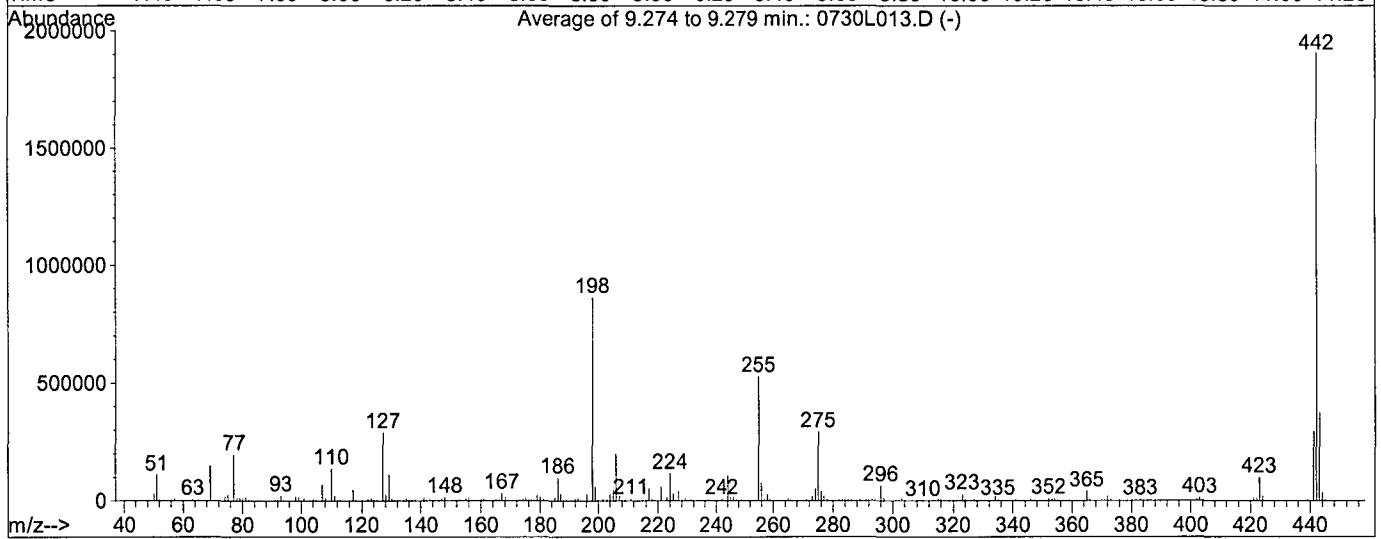
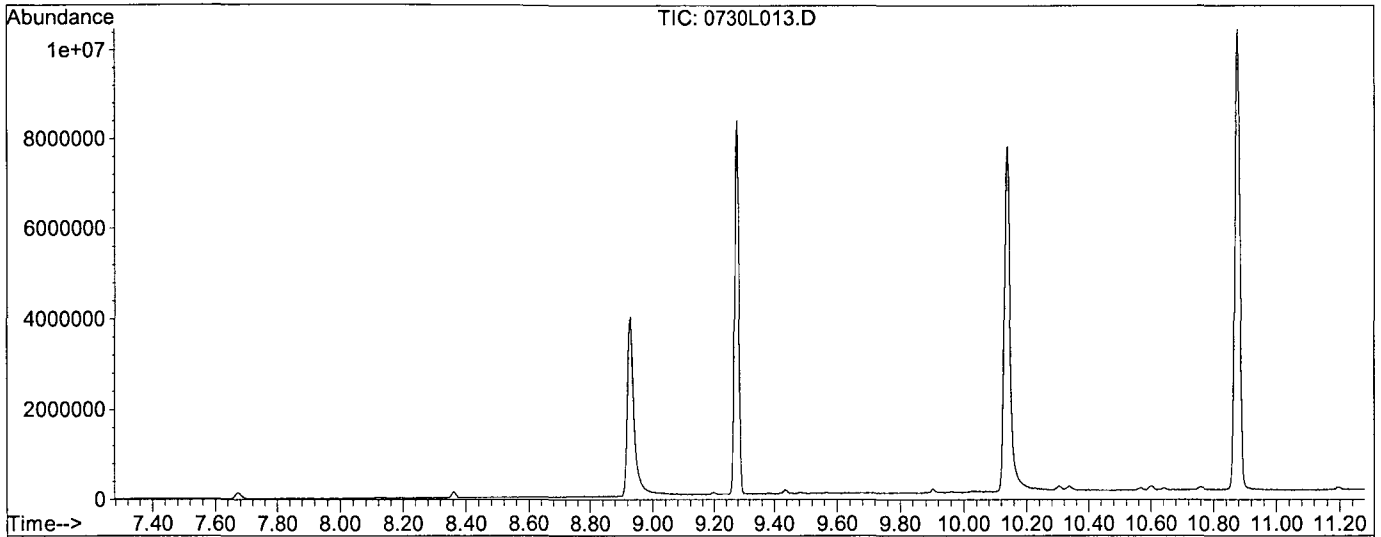
AutoFind: Scans 1278, 1279, 1280; Background Corrected with Scan 1264

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	12.4	88440	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.7	913	PASS
127	198	10	80	34.1	244050	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	715371	PASS
199	198	5	9	6.5	46251	PASS
275	198	10	60	31.8	227456	PASS
365	198	1	100	4.6	32808	PASS
441	442	0.01	24	15.6	234091	PASS
442	198	50	500	209.5	1498965	PASS
443	442	15	24	19.1	286635	PASS

Data File : M:\LINUS\DATA\L190730M\0730L013.D
 Acq On : 30 Jul 19 16:20
 Sample : SV TUNE 07/11/19
 Misc :

Vial: 13
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Method : M:\LINUS\DATA\L190730M\DFTPP2.M (Chemstation Integrator)
 Title :



AutoFind: Scans 1281, 1282, 1283; Background Corrected with Scan 1268

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	12.6	108939	PASS
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	148685	PASS
70	69	0.00	2	0.3	505	PASS
127	198	10	80	33.4	288213	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	862080	PASS
199	198	5	9	6.7	57741	PASS
275	198	10	60	33.7	290475	PASS
365	198	1	100	4.5	38936	PASS
441	442	0.01	24	15.4	293227	PASS
442	198	50	500	221.2	1906517	PASS
443	442	15	24	19.5	372139	PASS

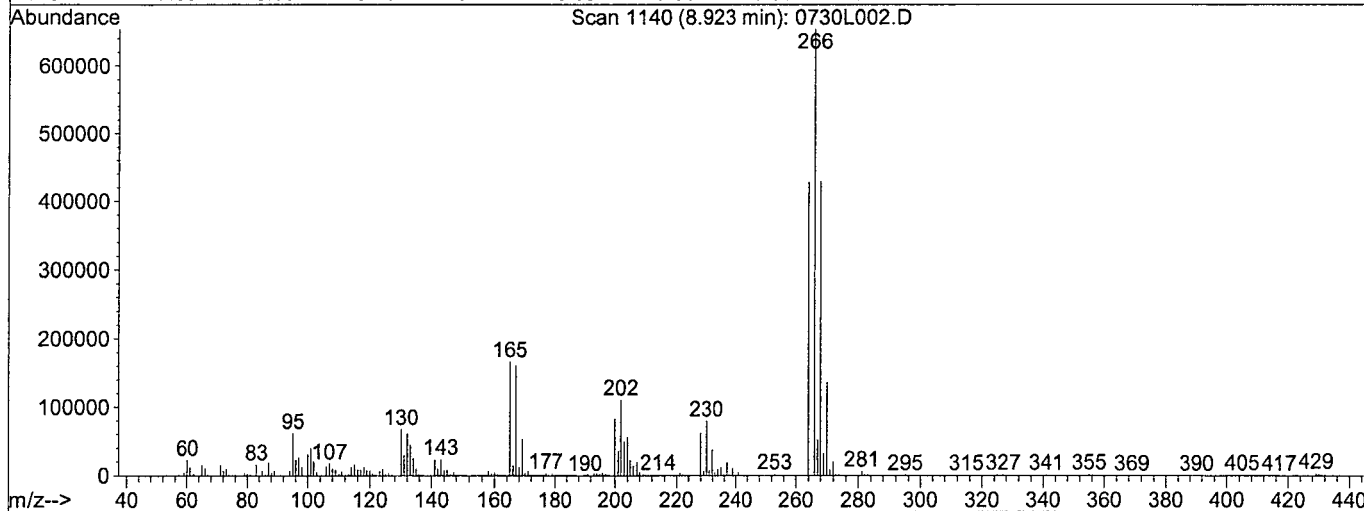
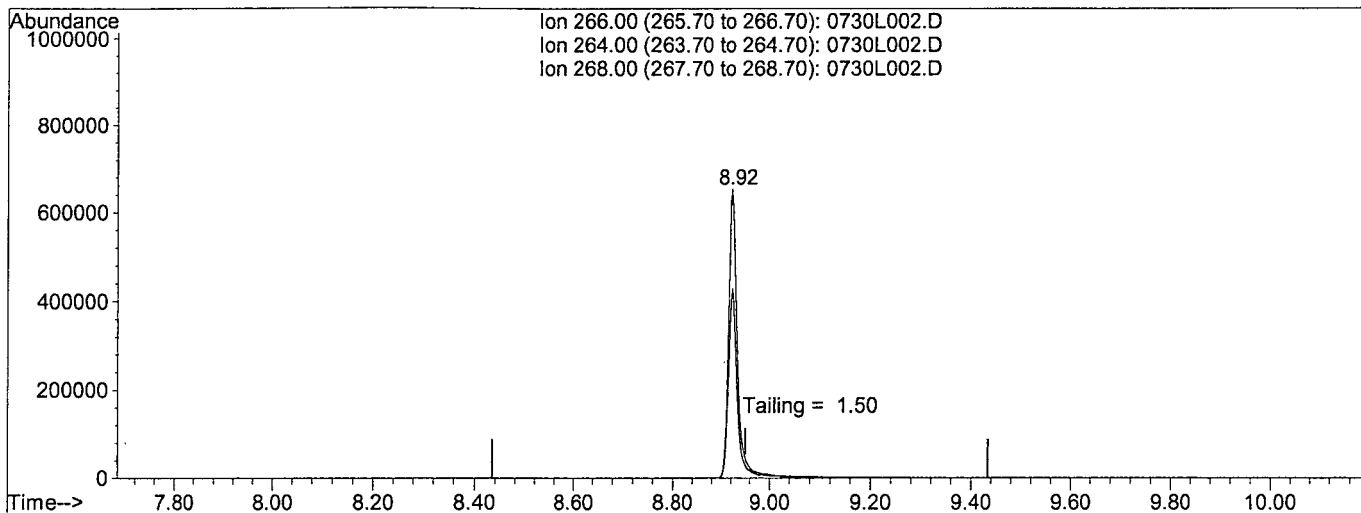
Data File Name: 0730L002.D
Data File Path: M:\LINUS\DATA\190730M\
Operator: MA
Date Acquired: 30 Jul 2019 09:38
Method File: DFTPP2.M
Sample Name: SV TUNE 7/11/19
Vial Number: 13
Instrument Name: Linus

#	Name	Ret Time	Target Response
1)	DDT	10.91	89435000
2)	DDD	10.60	1591060
3)	DDE	10.64	0

Breakdown 1.75

Data File : M:\LINUS\DATA\L190730M\0730L002.D Vial: 13
 Acq On : 30 Jul 19 9:38 Operator: MA
 Sample : SV TUNE 7/11/19 Inst : Linus
 Misc : Multiplr: 1.00
 Quant Time: Jul 30 16:36 2019 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 26 10:43:15 2019
 Response via : Single Level Calibration



TIC: 0730L002.D

(5) Pentachlorophenol

8.92min 0.0000

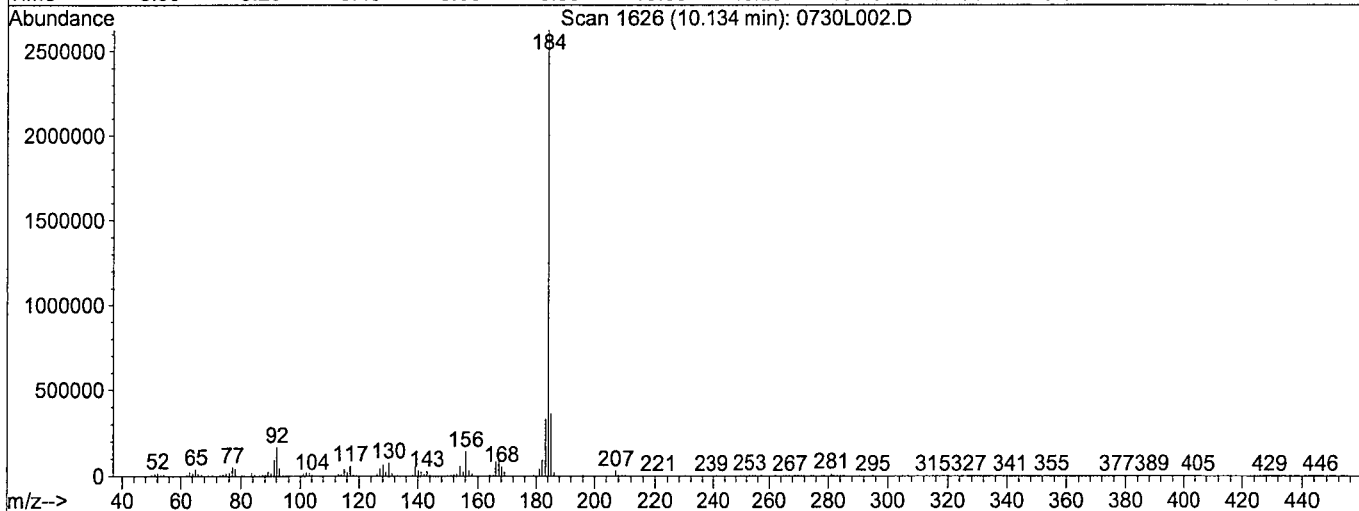
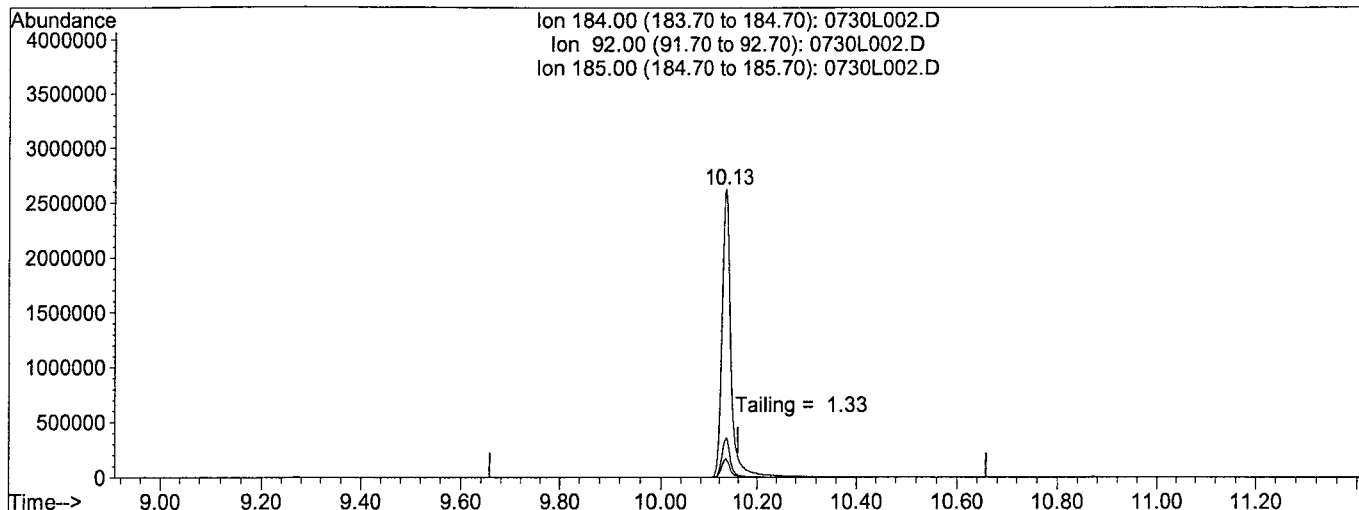
response 8415831

Ion	Exp%	Act%
266.00	100	100
264.00	68.30	65.66
268.00	65.70	64.15
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L002.D Vial: 13
 Acq On : 30 Jul 19 9:38 Operator: MA
 Sample : SV TUNE 7/11/19 Inst : Linus
 Misc : Multiplr: 1.00
 Quant Time: Jul 30 16:36 2019 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 26 10:43:15 2019
 Response via : Single Level Calibration



TIC: 0730L002.D

(6) Benzidine

10.13min 0.0000

response 33452488

Ion	Exp%	Act%
184.00	100	100
92.00	7.10	6.06
185.00	13.60	13.12
0.00	0.00	0.00

Name of Final Standard Diethylene Glycol
 Prep Date 01/31/19
 Exp Date 01/31/20

Prep'd By (Initials) GA

Initial Standard Information					Final Standard Information				
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc. (range)
Diethylene glycol methyl ether	AccuStand ard	S-72273	2000 ug/mL	218101558-39888 39889	01/31/20	2.0 mL	4 mL	Methanol #042317C	1000 ug/mL

Given to Extraction to do MEE M STD Stock (used for ICAL) Final concentration 2000ug/L

Name of Final

Standard 2MEE Second Source Stock

Prep'd By (Initials) GA

Prep Date 08/03/18

Exp Date 08/03/19

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Methoxyethanol-Neat	Chem Service	N-12404-1G	Neat 99.5%	7079100 - 39417	08/03/19	0.1035g	10 mL	MC #56258	10320 ug/mL

Given to Extraction to do MEE SS (used for ICAL SS)

0.097ml were spiked in 500ml of water and extracted on 04/29/19 . Final concentration is 2000ug/L

Organic Extraction Worksheet

Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	190429A	Extraction Method	MWE2MEE	Units	mL
Spiked ID 1	Diethylene Glycol 1-31-19 EXP 1-31-20		Surrogate ID 1				
Spiked ID 2	2MEE SS 10320ug/mL 8-3-18 exp 8-3-19		Surrogate ID 2				
Spiked ID 3			Surrogate ID 3				
Spiked ID 4			Surrogate ID 4				
Spiked ID 5			Surrogate ID 5				
Spiked ID 6			Sufficient Vol for Matrix QC:		YES		
Spiked ID 7			Ext. Start Time:	04/29/19 10:50			
Spiked ID 8			Ext. End Time:	04/29/19 16:40			

M STD AND SS PREPARATION
HA 5/1/19

GC Requires Extract By:	04/30/19 0:00	Water Bath Temp Criteria	
pH1			
pH2			
pH3			

Spiked By: KY

Date 04/29/19

Witnessed By: DL

Date 04/29/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1 190429A Blk				NA	NA	500	2	7	04/29/19 10:50	
2 190429A LCS-1		0.040	1	NA	NA	500	2	7	04/29/19 10:50	
3 190429A LCSD-1		0.040	1	NA	NA	500	2	7	04/29/19 10:50	
4 AZ89958 MS-1	AZ89958W23	0.040	1	NA	NA	510	2	7	04/29/19 10:50	88687
5 AZ89958 MSD-1	AZ89958W22	0.040	1	NA	NA	510	2	7	04/29/19 10:50	88687
6 AZ89958	AZ89958W24			NA	NA	500	2	7	04/29/19 10:50	88687
7 AZ89959	AZ89959W06			NA	NA	480	2	7	04/29/19 10:50	88687
8 AZ89961	AZ89961W22			NA	NA	510	2	7	04/29/19 10:50	88687
9 AZ90051 MS-1	AZ90051W21	0.040	1	NA	NA	500	2	7	04/29/19 10:50	88701
10 AZ90051 MSD-1	AZ90051W25	0.040	1	NA	NA	500	2	7	04/29/19 10:50	88701
11 AZ90051	AZ90051W22			NA	NA	500	2	7	04/29/19 10:50	88701
12 AZ90052	AZ90052W05			NA	NA	505	2	7	04/29/19 10:50	88701
13 AZ90054	AZ90054W16			NA	NA	510	2	7	04/29/19 10:50	88701
14 AZ90056	AZ90056W16			NA	NA	510	2	7	04/29/19 10:50	88701
15 AZ90058	AZ90058W17			NA	NA	500	2	7	04/29/19 10:50	88701
16 AZ90060	AZ90060W17			NA	NA	505	2	7	04/29/19 10:50	88701

Solvent and Lot#	
ENVI-Carb Plus 400MG/1ML	
Reverible Tube Lot:	11225702
PH Strip	HC 863463
Di Water	4-29-19
Dichloromethane	58240
Methanol	58179

Extraction COC Transfer	
Extraction lab employee Initials	KY
GC analyst's initials	
Date	
Time	
Refrigerator	

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	04/29/19 2:46:49 PM

Reviewed By: _____ Date _____
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Ext_ID 62632

Organic Extraction Worksheet











Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	190429A	Extraction Method	MWE2MEE	Units	mL
Spiked ID 1	Diethylene Glycol 1-31-19 EXP 1-31-20		Surrogate ID 1				
Spiked ID 2	2MEE SS 10320ug/mL 8-3-18 exp 8-3-19		Surrogate ID 2				
Spiked ID 3			Surrogate ID 3				
Spiked ID 4			Surrogate ID 4				
Spiked ID 5			Surrogate ID 5				
Spiked ID 6			Sufficient Vol for Matrix QC:		YES		
Spiked ID 7			Ext. Start Time:		04/29/19 10:50		
Spiked ID 8			Ext. End Time:		04/29/19 16:40		
			GC Requires Extract By:		04/30/19 0:00		
			pH1		Water Bath Temp Criteria		
			pH2				
			pH3				

Spiked By: KY

Date 04/29/19

Witnessed By: DL

Date 04/29/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
17	AZ90100W17			NA	NA	510	2	7	04/29/19 10:50	88714
					equip					
18	AZ90102W16			NA	NA	395	2	7	04/29/19 10:50	88714
					equip					
19	AZ90103W04			NA	NA	250	2	7	04/29/19 10:50	88714
					equip					
20	AZ90105W16			NA	NA	500	2	7	04/29/19 10:50	88714
					equip					
21	AZ90107W16			NA	NA	510	2	7	04/29/19 10:50	88714
					equip					
22	AZ90109W17			NA	NA	505	2	7	04/29/19 10:50	88714
					equip					
23	AZ90213W15			NA	NA	505	2	7	04/29/19 10:50	88736
					equip					
24	AZ90215W16			NA	NA	500	2	7	04/29/19 10:50	88736
					equip					
25	M STD	1	1	NA	NA	500	2	7	04/29/19 10:50	
					equip					
26	SS	0.097	2	NA	NA	500	2	7	04/29/19 10:50	
					equip					

Solvent and Lot#	
ENVI-Carb Plus 400MG/1ML	
Reverible Tube Lot:	11225702
PH Strip	HC 863463
Di Water	4-29-19
Dichloromethane	58240
Methanol	58179

Extraction COC Transfer	
Extraction lab employee Initials	KY
GC analyst's initials	
Date	
Time	
Refrigerator	

	Technician's Initials
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	04/29/19 2:46:49 PM

Reviewed By: Date
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Name of Final Standard MEE Curve
 Prep Date 04/30/19
 Exp Date 10/30/19

Prep'd By (Initials) SS

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	5 uL	200uL	Methanol: 195uL Lot# 208858	50 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	4 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	5 uL	100uL	Methanol: 95uL Lot# 208858	100 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	10 uL	100uL	Methanol: 90uL Lot# 208858	200 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	20 uL	100uL	Methanol: 80 uL Lot# 208858	400 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	50 uL	200uL	Methanol: 150 uL	500 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	4 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	30 uL	100uL	Methanol: 70 uL Lot# 208858	600 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	40 uL	100uL	Methanol: 60 uL Lot# 208858	800 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	50 uL	100uL	Methanol: 50uL Lot# 208858	1000ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			

Name of Final Standard MEE Second Source
 Prep Date 04/30/19
 Exp Date 08/03/19

Prep'd By (Initials) SS

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
MEE SS	APPL		2000 ug/mL	04/29/19	08/03/19	50 uL	200uL	Methanol: 150uL Lot# 208858	500 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	4 uL			

Organic Extraction Worksheet

Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	190726A	Extraction Method	MWE2MEE	Units	mL
Spiked ID 1	Diethylene Glycol 1-31-19 EXP 1-31-20	Surrogate ID 1					
Spiked ID 2	2MEE SS 10320ug/mL 8-3-18 exp 8-3-19	Surrogate ID 2					
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:					
Spiked ID 7		Ext. Start Time:	07/26/19 8:45				
Spiked ID 8		Ext. End Time:	07/26/19 15:05				
		GC Requires Extract By:					
		pH1			Water Bath Temp 1 °C		
		pH2			Water Bath Temp 2 °C		
		pH3			Water Bath Temp 3 °C		

Spiked By: DL

Date 07/26/19

Witnessed By: CFM

Date 07/26/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1 190726A Bik				NA	NA	500	2	7	07/26/19 8:45	
2 190726A LCS-1		0.040	1	NA	NA	500	2	7	07/26/19 8:45	
3 190726A LCSD-1		0.040	1	NA	NA	500	2	7	07/26/19 8:45	
4 AZ95187	AZ95187W10			NA	NA	500	2	7	07/26/19 8:45	89570
5 AZ95189 MS-1	AZ95189W36	0.040	1	NA	NA	500	2	7	07/26/19 8:45	
6 AZ95189 MSD-1	AZ95189W18	0.040	1	NA	NA	500	2	7	07/26/19 8:45	
7 AZ95189	AZ95189W35			NA	NA	500	2	7	07/26/19 8:45	89570
8 AZ95190	AZ95190W06			NA	NA	500	2	7	07/26/19 8:45	89570
9 AZ95329	AZ95329W11			NA	NA	500	2	7	07/26/19 8:45	89593
10 AZ95330	AZ95330W10			NA	NA	500	2	7	07/26/19 8:45	89593
11 AZ95332	AZ95332W11			NA	NA	500	2	7	07/26/19 8:45	89593
12 AZ95334	AZ95334W10			NA	NA	500	2	7	07/26/19 8:45	89593
13 AZ95336	AZ95336W10			NA	NA	500	2	7	07/26/19 8:45	89593
14 AZ95338	AZ95338W11			NA	NA	500	2	7	07/26/19 8:45	89593
15 AZ95419	AZ95419W15			NA	NA	500	2	7	07/26/19 11:20	89607
16 AZ95421	AZ95421W15			NA	NA	500	2	7	07/26/19 11:20	89607

Solvent and Lot#	
ENVI-Carb Plus 400MG/1ML *	
Reverible Tube Lot:	11225702
PH Strip	HC863463
Di Water	7/26/19
Dichloromethane	58240
Methanol	59129

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	JP
Date	7/29/19
Time	11:40
Refrigerator	Hobart

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	07/26/19 4:38:03 PM

Reviewed By: Date
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 Ext_ID 63667

Organic Extraction Worksheet



Method	Solid Phase Extraction of 2MEE in Water		Extraction Set	190726A	Extraction Method	MWE2MEE	Units	mL
Spiked ID 1	Diethylene Glycol 1-31-19 EXP 1-31-20		Surrogate ID 1					
Spiked ID 2	2MEE SS 10320ug/mL 8-3-18 exp 8-3-19		Surrogate ID 2					
Spiked ID 3			Surrogate ID 3					
Spiked ID 4			Surrogate ID 4					
Spiked ID 5			Surrogate ID 5					
Spiked ID 6			Sufficient Vol for Matrix QC:					
Spiked ID 7			Ext. Start Time:	07/26/19 8:45				
Spiked ID 8			Ext. End Time:	07/26/19 15:05				
			GC Requires Extract By:					
			pH1				Water Bath Temp 1 °C	
			pH2				Water Bath Temp 2 °C	
			pH3				Water Bath Temp 3 °C	

Spiked By: DL

Date 07/26/19

Witnessed By: CFM

Date 07/26/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
17	AZ95423 	AZ95423W15		NA	NA	500	2	7	07/26/19 11:20	89607
						equip				
18	SS 	0.097	2	NA	NA	500	2	7	07/26/19 8:45	
						equip				

Solvent and Lot#
ENVI-Carb Plus 400MG/1ML *
Reverible Tube Lot: 11225702
PH Strip HC863463
Di Water 7/26/19
Dichloromethane 58240
Methanol 59129

Extraction COC Transfer
Extraction lab employee Initials SS
GC analyst's initials
Date
Time
Refrigerator

Technician's Initials
Scanned By DL
Sample Preparation DL
Extraction DL
Concentration DL
Modified 07/26/19 4:38:03 PM

Reviewed By: Date
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Ext_ID 63667

Injection Log

Directory: M:\LINUS\DATA\L190730M\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
13	0730L002.D	1	SV TUNE 7/11/19		30 Jul 19 9:38
3	0730L003.D	1	500ug/ml MEE 04/30/19		30 Jul 19 11:54
4	0730L004.D	1	50ug/ml MEE 04/30/19		30 Jul 19 12:18
5	0730L005.D	1	100ug/ml MEE 04/30/19		30 Jul 19 13:17
6	0730L006.D	1	200ug/ml MEE 04/30/19		30 Jul 19 13:41
7	0730L007.D	1	400ug/ml MEE 04/30/19		30 Jul 19 14:04
8	0730L008.D	1	600ug/ml MEE 04/30/19		30 Jul 19 14:27
9	0730L009.D	1	800ug/ml MEE 04/30/19		30 Jul 19 14:51
10	0730L010.D	1	1000ug/ml MEE 04/30/19		30 Jul 19 15:13
11	0730L011.D	1	SS MEE 04/30/19		30 Jul 19 15:37
13	0730L013.D	1	SV TUNE 07/11/19		30 Jul 19 16:20
14	0730L014.D	1	190726A BLK 2/500		30 Jul 19 16:45
15	0730L015.D	1	190726A LCS-1 2/500		30 Jul 19 17:09
16	0730L016.D	1	190726A LCSD-1 2/500		30 Jul 19 17:32
22	0730L022.D	1	AZ95329W11 2/500		30 Jul 19 19:51
23	0730L023.D	1	AZ95330W10 2/500		30 Jul 19 20:15
24	0730L024.D	1	AZ95332W11 2/500		30 Jul 19 20:38
25	0730L025.D	1	AZ95334W10 2/500		30 Jul 19 21:01
26	0730L026.D	1	AZ95336W10 2/500		30 Jul 19 21:24
27	0730L027.D	1	AZ95338W11 2/500		30 Jul 19 21:47
31	0730L031.D	1	500ug/ml MEE 04/30/19		30 Jul 19 23:19

**ORGANICS
Calibration Data**

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. _____
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/24/19 _____
Instrument: Loki _____

Initials: DP / LP

0724L15.D 0724L16.D 0724L17.D 0724L18.D 0724L19.D 0724L20.D 0724L21.D 0724L22.D 0724L23.D

1	i	Compound	1	2	3	4	5	6	7	8	9	Avg	%RSD	Type	r ²	Q	MRF
1		Fluorobenzene (IS)															
2	TM	Chlorotrifluoroethene		0.0814	0.0729	0.0748	0.0793	0.0864	0.0836	0.0849	0.0721	0.08	7.0	TM			
3	TML	Dichlorodifluoromethane		0.0739	0.0647	0.0884	0.0572	0.0697	0.0581	0.0584	0.0558	0.07	17	TML	0.999		
4	TM	Freon 114		0.1882	0.1780	0.1849	0.1903	0.1844	0.1675	0.1695	0.1623	0.18	5.9	TM			
5	TM**L	Chloromethane		0.3201	0.2594	0.2397	0.2051	0.2066	0.1813	0.1769	0.1593	0.22	24	TM**L	0.998		
6	TM*	Vinyl chloride		0.2492	0.2407	0.2178	0.1970	0.2272	0.2058	0.1955	0.1829	0.21	11	TM*			
7	TM	2-Chloro-1,1,1-trifluoroethane		2.819	2.749	2.780	2.847	2.951	2.896	2.866	2.446	2.8	5.5	TM			
8	TML	Bromomethane	0.2250	0.1710	0.1687	0.1394	0.1194	0.1296				0.16	24	TML	0.996		
9	TML	Chloroethane		0.2197	0.1516	0.1669	0.1353	0.1420	0.1231	0.1186	0.1032	0.15	25	TML	0.996		
10	TM	Dichlorofluoromethane		0.3791	0.3404	0.3654	0.4016	0.3824	0.3456	0.3467	0.3217	0.36	7.3	TM			
11	TM	Trichlorofluoromethane		0.2296	0.2723	0.2355	0.2304	0.2591	0.2255	0.2201	0.2112	0.24	8.6	TM			
12	TM	Diethyl ether												TM			
13	TM	Acrolein		0.0137	0.0118	0.0113	0.0144	0.0136	0.0137	0.0132	0.0113	0.01	9.6	TM			
14	TML	Acetone		0.4071	0.2200	0.1573	0.1169	0.0962	0.0793	0.0679	0.0608	0.15	77	TML	0.998		
15	TM	Freon-113		0.2087	0.1928	0.2187	0.2326	0.2089	0.1827	0.1956	0.1909	0.20	8.1	TM			
16	TM*	1,1-DCE		0.2171	0.2254	0.2069	0.2021	0.1955	0.1755	0.1918	0.1768	0.20	8.9	TM*			
17	TML	t-Butanol	0.0334	0.0226	0.0221	0.0231	0.0225	0.0203	0.0195	0.0209		0.02	19	TML	0.992		
18	TML	2-Propanol		0.0201	0.0178	0.0150	0.0134	0.0121	0.0132	0.0133		0.01	19	TML	0.996		
19	TM	Acetonitrile		0.0292	0.0293	0.0284	0.0279	0.0281	0.0252	0.0270	0.0260	0.03	5.3	TM			
20	TML	Methyl Acetate		0.2261	0.2553	0.2118	0.2114	0.1750	0.1658	0.1663	0.1486	0.20	19	TML	0.998		
21	TMQ	Iodomethane		0.0440	0.0288	0.0416	0.0521	0.0675	0.0939	0.1319	0.1779	0.08	65	TMQ	0.999		
22	TM	Acrylonitrile		0.0833	0.1081	0.0939	0.0937	0.0942	0.0877	0.0868	0.0805	0.09	9.4	TM			
23	TM	Methylene chloride		0.2449	0.2687	0.2453	0.2632	0.2455	0.2117	0.2154	0.1949	0.24	11	TM			
24	TM	Carbon disulfide		0.6324	0.6121	0.5760	0.6141	0.5667	0.5104	0.5094	0.4845	0.56	9.9	TM			
25	TM	Methyl t-butyl ether (MTBE)		0.6260	0.5918	0.5729	0.6293	0.5949	0.5454	0.5793	0.5646	0.59	4.9	TM			
26	TM	Trans-1,2-DCE		0.1982	0.2381	0.2388	0.2365	0.2351	0.2028	0.2147	0.2005	0.22	8.3	TM			
27	TM	Diisopropyl Ether		0.4528	0.4201	0.4371	0.5140	0.4714	0.4196	0.4736	0.4666	0.46	6.9	TM			
28	TM**	2,2-Dichloro-1,1,1-trifluoroethane												TM**			
29	TM**	1,1-DCA		0.4044	0.3483	0.3607	0.4092	0.3695	0.3238	0.3433	0.3177	0.36	9.4	TM**			
30	TM	Vinyl Acetate		0.4528	0.4201	0.4371	0.5140	0.4714	0.4196	0.4736	0.4666	0.46	6.9	TM			
31	TM	Ethyl tert Butyl Ether		0.3356	0.3811	0.4049	0.4250	0.4418	0.3878	0.4252	0.4568	0.41	9.5	TM			
32	TM	MEK (2-Butanone)		0.0338	0.0380	0.0297	0.0357	0.0308	0.0316	0.0302	0.0279	0.03	10	TM			
33	TM	Cis-1,2-DCE		0.2728	0.2652	0.2372	0.2340	0.2306	0.2041	0.2270	0.2145	0.24	9.9	TM			
34	TM	2,2-Dichloropropane		0.2550	0.3272	0.2520	0.2995	0.2663	0.2336	0.2567	0.2377	0.27	12	TM			
35	TM	2-Methylpentane												TM			

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/24/19
Instrument: Loki

Initials: DP

		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type		Q	MRF
36	TM	3-Methylpentane													TM			
37	TM*	Chloroform		0.4102	0.3560	0.4086	0.4286	0.3970	0.3651	0.3755	0.3529		0.39	7.3	TM*			
38	TM	Bromochloromethane		0.1149	0.1402	0.1510	0.1538	0.1451	0.1309	0.1259	0.1045		0.13	13	TM			
39	S	Dibromofluoromethane(S)	0.4886	0.4703	0.4153	0.4400	0.4699	0.4590	0.4183	0.4399	0.3839		0.44	7.4	S			
40	TM	1,1,1-TCA		0.3188	0.3273	0.3228	0.3510	0.3286	0.3038	0.3285	0.3104		0.32	4.4	TM			
41	TM	Cyclohexane		0.0876	0.1431	0.1184	0.1147	0.1115	0.1087	0.1233	0.1234		0.12	14	TM			
42	TM	1,1-Dichloropropene		0.2242	0.2123	0.1895	0.2233	0.2130	0.2078	0.2318	0.2336		0.22	6.7	TM			
43	TM	2,2,4-Trimethylpentane		0.3731	0.3521	0.3211	0.3482	0.3583	0.3404	0.3903	0.4112		0.36	7.9	TM			
44	S	1,2-DCA-D4(S)	0.5208	0.4633	0.4317	0.4417	0.4813	0.4669	0.4327	0.4576	0.3960		0.45	7.8	S			
45	TM	Carbon Tetrachloride		0.3059	0.2690	0.3197	0.3588	0.3220	0.2953	0.3159	0.2981		0.31	8.3	TM			
46	TM	Tert Amyl Methyl Ether		0.4122	0.3928	0.3903	0.4143	0.4262	0.4233	0.4679	0.4628		0.42	6.8	TM			
47	TM	Methylcyclopentane													TM			
48	TM	1,2-DCA		0.2691	0.2850	0.3114	0.3047	0.3047	0.2749	0.2846	0.2707		0.29	5.8	TM			
49	TM	Benzene		0.6819	0.7237	0.7062	0.7524	0.7753	0.6847	0.7391	0.7121		0.72	4.5	TM			
50	TM	TCE		0.2441	0.2302	0.2276	0.2699	0.2607	0.2355	0.2461	0.2295		0.24	6.4	TM			
51	TM	2-Pentanone		0.1061	0.1089	0.1187	0.1197	0.1208	0.1126	0.1176	0.1146		0.11	4.6	TM			
52	TM*	1,2-Dichloropropane		0.2070	0.2131	0.1843	0.1977	0.1960	0.1743	0.1878	0.1789		0.19	7.0	TM*			
53	TM	Bromodichloromethane		0.2668	0.2986	0.3042	0.3305	0.3133	0.2783	0.3045	0.2772		0.30	7.2	TM			
54	TM	Methyl Cyclohexane		0.1685	0.1983	0.1990	0.2101	0.2231	0.2128	0.2409	0.2582		0.21	13	TM			
55	TM	Dibromomethane		0.1124	0.1347	0.1654	0.1708	0.1508	0.1409	0.1507	0.1374		0.15	13	TM			
56	TML	2-Chloroethyl vinyl ether				0.0016	0.0048	0.0065	0.0072	0.0072			0.01	43	TML	0.999		
57	TM	MIBK (methyl isobutyl ketone)		0.1739	0.1410	0.1472	0.1466	0.1599	0.1347	0.1477	0.1470		0.15	8.0	TM			
58	TM	1-Bromo-2-chloroethane		0.2853	0.2533	0.2832	0.2884	0.2809	0.2547	0.2797	0.2602		0.27	5.3	TM			
59	TM	Cis-1,3-Dichloropropene		0.2742	0.3067	0.2822	0.2775	0.2847	0.2625	0.2895	0.2943		0.28	4.7	TM			
60	TM*	Toluene		0.7131	0.7249	0.6912	0.8420	0.8263	0.8108	0.8444	0.8035		0.78	7.9	TM*			
61	TM	Trans-1,3-Dichloropropene		0.2627	0.2094	0.2138	0.2773	0.2584	0.2502	0.2646	0.2613		0.25	9.9	TM			
62	TM	1,1,2-TCA		0.1962	0.1735	0.1701	0.1886	0.1765	0.1586	0.1623	0.1468		0.17	9.3	TM			
63	TM	2-Hexanone		0.0717	0.0806	0.0870	0.0959	0.0887	0.0852	0.0977	0.1023		0.09	11	TM			
64	I	Chlorobenzene-D5 (IS)																
65	S	Toluene-D8(S)	1.575	1.432	1.295	1.387	1.593	1.580	1.582	1.688	1.539		1.5	8.1	S			
66	TM	1,2-EDB		0.1874	0.2239	0.2310	0.2611	0.2320	0.2295	0.2459	0.2275		0.23	9.1	TM			
67	TM	Tetrachloroethene		0.3510	0.3573	0.3134	0.3705	0.3565	0.3135	0.3406	0.3231		0.34	6.4	TM			
68	TM	1-Chlorohexane		0.1915	0.1937	0.1740	0.2146	0.2201	0.2127	0.2537	0.2701		0.22	15	TM			
69	TM	1,1,1,2-Tetrachloroethane		0.3052	0.2905	0.3121	0.3432	0.2893	0.2694	0.2887	0.2606		0.29	8.7	TM			
70	TM	m&p-Xylene		0.5919	0.5203	0.5515	0.6712	0.6794	0.6846	0.7960	0.7895		0.66	15	TM			

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/24/19
Instrument: Loki

Initials: DP

	Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type		Q	MRF
71	TML o-Xylene		0.1824	0.2783	0.2704	0.3404	0.3205	0.3278	0.3837	0.3888		0.31	22	TML	0.999		
72	TML Styrene		0.3965	0.4000	0.4500	0.5318	0.5544	0.5727	0.6869	0.7055		0.54	22	TML	0.999		
73	S 4-Bromofluorobenzene(S)	0.5257	0.4587	0.4310	0.4437	0.5416	0.5563	0.5718	0.6085	0.5893		0.53	12	S			
74	TM 1,3-Dichloropropane		0.3399	0.3475	0.3696	0.3886	0.3564	0.3317	0.3719	0.3507		0.36	5.2	TM			
75	TM Dibromochloromethane		0.2404	0.2838	0.3155	0.3388	0.3106	0.2860	0.3094	0.2886		0.30	9.9	TM			
76	TM** Chlorobenzene		0.6569	0.6157	0.6016	0.6843	0.6664	0.6250	0.6670	0.6360		0.64	4.5	TM**			
77	TM* Ethylbenzene		0.7568	0.7300	0.7609	0.8600	0.8684	0.8902	1.014	1.001		0.86	13	TM*			
78	TM** Bromoform		0.2438	0.2373	0.2391	0.2715	0.2550	0.2297	0.2366	0.2380		0.24	5.5	TM**			
79	I 1,4-Dichlorobenzene-D (IS)																
80	TM Isopropylbenzene		0.6520	0.7380	0.7564	0.8101	0.8580	0.7583	0.8852	0.8048		0.78	9.4	TM			
81	TM** 1,1,2,2-Tetrachloroethane		0.5590	0.5924	0.5626	0.5947	0.5320	0.4249	0.4723	0.4249		0.52	14	TM**			
82	TM 1,2,3-Trichloropropane		0.1671	0.2104	0.2136	0.2108	0.1925	0.1595	0.1639	0.1472		0.18	15	TM			
83	TML t-1,4-Dichloro-2-Butene		0.0088	0.0146	0.0649	0.0818	0.0713	0.0675	0.0713	0.0762		0.06	50	TML	0.999		
84	TM Bromobenzene		0.5967	0.4998	0.5295	0.5782	0.5618	0.4866	0.5070	0.4441		0.53	9.7	TM			
85	TM n-Propylbenzene		1.471	1.353	1.426	1.663	1.681	1.522	1.704	1.558		1.5	8.3	TM			
86	TM 4-Ethyltoluene		1.311	1.235	1.184	1.381	1.488	1.402	1.595	1.449		1.4	9.8	TM			
87	TM 2-Chlorotoluene		0.5371	0.5487	0.5254	0.6448	0.6364	0.5882	0.6493	0.5769		0.59	8.5	TM			
88	TM 1,3,5-Trimethylbenzene		1.176	0.9448	1.059	1.295	1.362	1.284	1.425	1.257		1.2	13	TM			
89	TM 4-Chlorotoluene		0.2383	0.2079	0.2441	0.2254	0.2525	0.2301	0.2547	0.2293		0.24	6.6	TM			
90	TML Tert-Butylbenzene		0.9169	0.8831	0.9219	1.251	1.131	0.9786	1.287	1.230		1.1	16	TML	0.998		
91	TM 1,2,4-Trimethylbenzene		1.046	0.9905	0.9534	1.127	1.231	1.195	1.406	1.288		1.2	13	TM			
92	TM Sec-Butylbenzene		1.137	1.205	1.225	1.517	1.518	1.452	1.629	1.519		1.4	13	TM			
93	TM p-Isopropyltoluene		1.047	1.091	1.149	1.335	1.439	1.335	1.495	1.428		1.3	13	TM			
94	TML Benzyl Chloride		0.4975	0.4343	0.3947	0.3563	0.3673	0.2941	0.3308	0.3534		0.38	17	TML	0.998		
95	TM 1,3-DCB		0.8070	0.8988	0.8559	1.024	0.9776	0.8437	0.9398	0.8594		0.90	8.2	TM			
96	TM 1,4-DCB		0.9555	1.018	0.9987	1.070	1.034	0.8871	0.9838	0.8984		0.98	6.5	TM			
97	TM n-Butylbenzene		0.8080	0.8251	0.8290	0.9550	1.022	0.9359	1.120	1.112		0.95	13	TM			
98	TM 1,2-DCB		0.9653	0.8765	0.8936	1.009	0.9542	0.8104	0.9297	0.8519		0.91	7.2	TM			
99	TM Hexachloroethane		0.3835	0.3173	0.3484	0.3256	0.3081	0.2787	0.2765	0.2677		0.31	13	TM			
100	TML 1,2-Dibromo-3-chloropropane		0.0721	0.1238	0.1098	0.1043	0.0877	0.0836	0.0939	0.0800		0.09	18	TML	0.996		
101	TML 1,2,4-Trichlorobenzene		0.3486	0.4256	0.4875	0.5345	0.5173	0.4890	0.6008	0.5920		0.50	17	TML	0.999		
102	TML Hexachlorobutadiene		0.2560	0.1215	0.1175	0.1356	0.1261	0.1100	0.1169	0.1118		0.14	36	TML	1.000		
103	TML Naphthalene		0.7810	0.8014	0.8179	0.8426	0.8799	0.8998	1.133	1.250		0.93	19	TML	0.997		
104	TM 1,2,3-Trichlorobenzene		0.3854	0.4773	0.4813	0.5184	0.5440	0.5113	0.6352	0.6082		0.52	15	TM			
105																	

Data File : M:\LOKI\DATA\190724\0724L15.D Vial: 4
 Acq On : 24 Jul 19 15:18 Operator:
 Sample : 0.3ug/L VOC STD 07/24/19 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019 Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	228544	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	199232	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	97600	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	22334	5.5172	ppb	0.00
Spiked Amount	25.000		Recovery	=	22.068%	
44) 1,2-DCA-D4(S)	5.25	65	23807	5.7278	ppb	0.00
Spiked Amount	25.000		Recovery	=	22.912%	
65) Toluene-D8(S)	7.63	98	62762	5.1848	ppb	0.00
Spiked Amount	25.000		Recovery	=	20.740%	
73) 4-Bromofluorobenzene(S)	10.53	95	20946	5.0046	ppb	0.00
Spiked Amount	25.000		Recovery	=	20.020%	
Target Compounds						Qvalue
8) Bromomethane	1.31	94	617	0.3037	ppb #	60
17) t-Butanol	2.62	59	3053	9.5028	ppb #	92

Quantitation Report

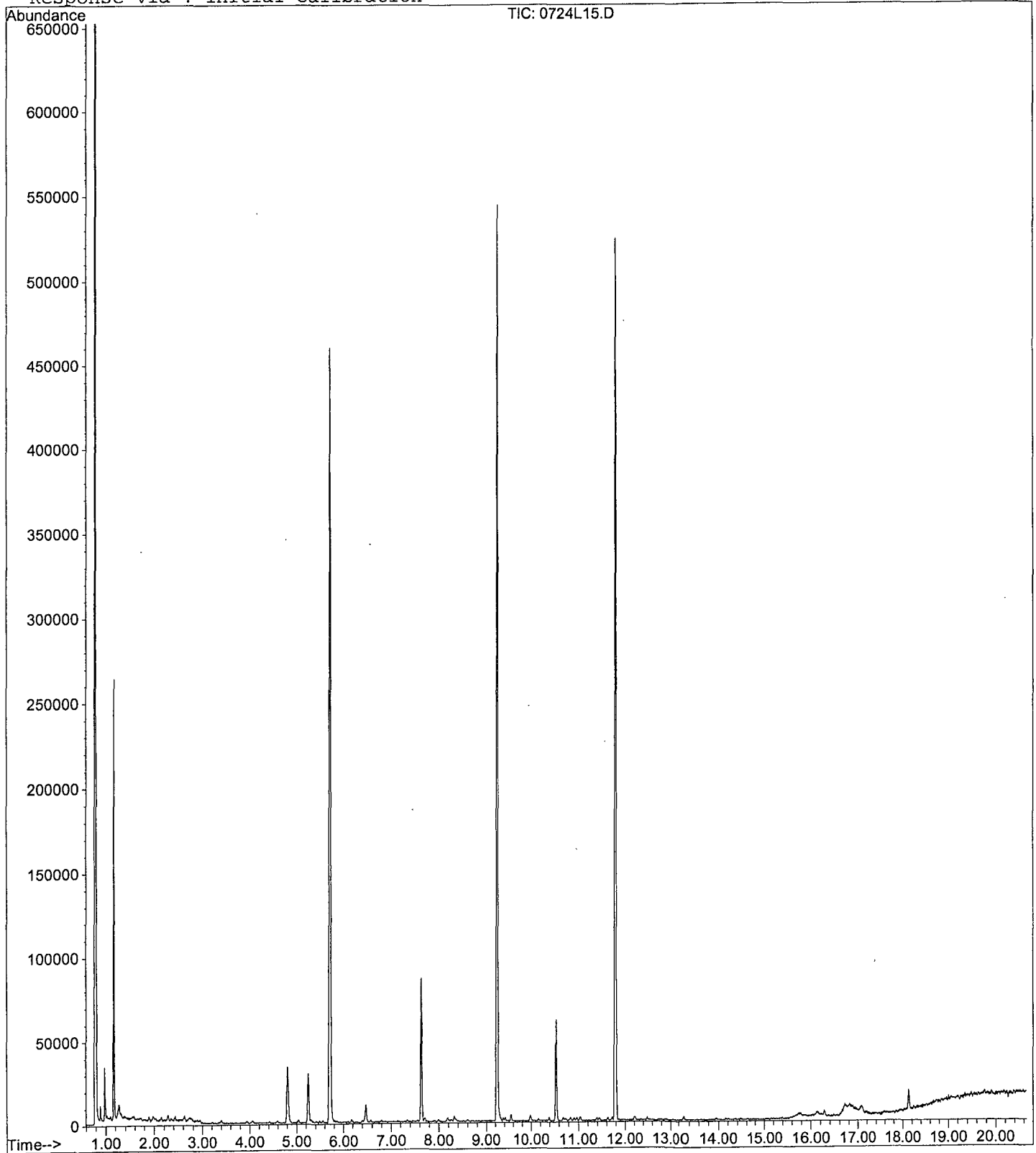
Data File : M:\LOKI\DATA\190724\0724L15.D
Acq On : 24 Jul 19 15:18
Sample : 0.3ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 4
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L16.D
 Acq On : 24 Jul 19 15:47
 Sample : 0.5ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 5
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	244160	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	220672	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	107432	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	22968	5.3109	ppb	0.00
Spiked Amount	25.000		Recovery	=	21.244%	
44) 1,2-DCA-D4(S)	5.24	65	22625	5.0953	ppb	0.00
Spiked Amount	25.000		Recovery	=	20.380%	
65) Toluene-D8(S)	7.63	98	63183	4.7124	ppb	0.00
Spiked Amount	25.000		Recovery	=	18.848%	
73) 4-Bromofluorobenzene(S)	10.54	95	20244	4.3669	ppb	0.00
Spiked Amount	25.000		Recovery	=	17.468%	
Target Compounds						Qvalue
2) Chlorotrifluoroethene	0.89	116	3974	5.1238	ppb	99
3) Dichlorodifluoromethane	0.91	87	361	-0.2766	ppb	# 60
4) Freon 114	0.99	85	919	0.5282	ppb	99
5) Chloromethane	1.02	50	1563	-0.8096	ppb	# 87
6) Vinyl chloride	1.09	62	1217	0.5809	ppb	94
7) 2-Chloro-1,1,1-trifluoroet	1.17	118	137645	5.0440	ppb	99
8) Bromomethane	1.30	94	835	0.4500	ppb	# 70
9) Chloroethane	1.39	64	1073	-1.1846	ppb	# 77
10) Dichlorofluoromethane	1.54	67	1851	0.5259	ppb	98
11) Trichlorofluoromethane	1.57	103	1121	0.4875	ppb	86
13) Acrolein	1.90	56	3354	26.7188	ppb	89
14) Acetone	2.03	43	1988	-1.1379	ppb	# 81
15) Freon-113	2.00	101	1019	0.5118	ppb	81
16) 1,1-DCE	1.98	96	1060	0.5457	ppb	# 71
17) t-Butanol	2.62	59	5529	21.3344	ppb	94
18) 2-Propanol	2.19	45	982	5.2535	ppb	89
19) Acetonitrile	2.28	41	7141	26.4708	ppb	# 87
20) Methyl Acetate	2.35	43	1104	-0.8873	ppb	# 62
21) Iodomethane	2.09	142	215	1.9586	ppb	# 42
22) Acrylonitrile	2.69	53	407	0.4578	ppb	# 76
23) Methylene chloride	2.43	84	1196	0.5185	ppb	# 71
24) Carbon disulfide	2.15	76	3088	0.5614	ppb	# 89
25) Methyl t-butyl ether (MtBE)	2.75	73	3057	0.5323	ppb	# 80
26) Trans-1,2-DCE	2.72	96	968	0.4493	ppb	# 62
27) Diisopropyl Ether	3.40	45	2211	0.4955	ppb	# 85
29) 1,1-DCA	3.22	63	1975	0.5623	ppb	88
30) Vinyl Acetate	3.40	45	2211	0.4955	ppb	# 85
31) Ethyl tert Butyl Ether	3.93	59	1639	0.4120	ppb	# 77
32) MEK (2-Butanone)	4.15	43	165	0.5244	ppb	# 44
33) Cis-1,2-DCE	4.08	96	1332	0.5787	ppb	# 76
34) 2,2-Dichloropropane	4.04	77	1245	0.4792	ppb	# 76
37) Chloroform	4.58	83	2003	0.5303	ppb	90
38) Bromochloromethane	4.41	128	561	0.4310	ppb	# 48
40) 1,1,1-TCA	4.79	97	1557	0.4922	ppb	98
41) Cyclohexane	4.86	41	428	0.3767	ppb	# 52
42) 1,1-Dichloropropene	5.03	75	1095	0.5169	ppb	# 80
43) 2,2,4-Trimethylpentane	5.49	57	1822	0.5156	ppb	# 79
45) Carbon Tetrachloride	5.02	117	1494	0.4925	ppb	79
46) Tert Amyl Methyl Ether	5.55	73	2013	0.4864	ppb	# 80

(#) = qualifier out of range (m) = manual integration
 0724L16.D L0724W.M Thu Jul 25 10:22:08 2019

Data File : M:\LOKI\DATA\190724\0724L16.D
 Acq On : 24 Jul 19 15:47
 Sample : 0.5ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 5
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) 1,2-DCA	5.35	62	1314	0.4670	ppb	# 72
49) Benzene	5.31	78	3330	0.4723	ppb	# 90
50) TCE	6.17	130	1192	0.5024	ppb	# 80
51) 2-Pentanone	6.47	43	25917	23.1006	ppb	100
52) 1,2-Dichloropropane	6.44	63	1011	0.5381	ppb	# 83
53) Bromodichloromethane	6.80	83	1303	0.4497	ppb	# 81
54) Methyl Cyclohexane	6.40	83	823	0.3940	ppb	80
55) Dibromomethane	6.56	93	549	0.3867	ppb	77
57) MIBK (methyl isobutyl ket	7.55	43	849	0.5805	ppb	# 70
58) 1-Bromo-2-chloroethane	7.14	63	1393	0.5221	ppb	# 65
59) Cis-1,3-Dichloropropene	7.34	75	1339	0.4829	ppb	89
60) Toluene	7.71	91	3482	0.4559	ppb	99
61) Trans-1,3-Dichloropropene	7.99	75	1283	0.5261	ppb	# 78
62) 1,1,2-TCA	8.18	83	958	0.5717	ppb	86
63) 2-Hexanone	8.51	43	350	0.4044	ppb	# 29
66) 1,2-EDB	8.70	107	827	0.4078	ppb	# 79
67) Tetrachloroethene	8.32	166	1549	0.5150	ppb	# 86
68) 1-Chlorohexane	9.29	91	845	0.4426	ppb	# 83
69) 1,1,1,2-Tetrachloroethane	9.37	131	1347	0.5175	ppb	81
70) m&p-Xylene	9.54	91	5225	0.8961	ppb	94
71) o-Xylene	9.98	106	805	1.2756	ppb	83
72) Styrene	9.98	104	1750	1.6452	ppb	83
74) 1,3-Dichloropropane	8.36	76	1500	0.4760	ppb	93
75) Dibromochloromethane	8.60	129	1061	0.4052	ppb	81
76) Chlorobenzene	9.27	112	2899	0.5099	ppb	98
77) Ethylbenzene	9.42	91	3340	0.4399	ppb	84
78) Bromoform	10.17	173	1076	0.4998	ppb	93
80) Isopropylbenzene	10.39	105	1401	0.4165	ppb	# 36
81) 1,1,2,2-Tetrachloroethane	10.72	83	1201	0.5371	ppb	# 68
82) 1,2,3-Trichloropropane	10.75	110	359	0.4562	ppb	79
83) t-1,4-Dichloro-2-Butene	10.77	53	19	0.8744	ppb	# 30
84) Bromobenzene	10.68	156	1282	0.5677	ppb	73
85) n-Propylbenzene	10.84	91	3161	0.4754	ppb	88
86) 4-Ethyltoluene	10.96	105	2816	0.4746	ppb	96
87) 2-Chlorotoluene	10.90	91	1154	0.4564	ppb	95
88) 1,3,5-Trimethylbenzene	11.04	105	2527	0.4799	ppb	# 76
89) 4-Chlorotoluene	11.03	126	512	0.5064	ppb	# 51
90) Tert-Butylbenzene	11.39	119	1970	1.0340	ppb	# 74
91) 1,2,4-Trimethylbenzene	11.44	105	2247	0.4529	ppb	85
92) Sec-Butylbenzene	11.63	105	2443	0.4060	ppb	98
93) p-Isopropyltoluene	11.79	119	2249	0.4057	ppb	# 68
94) Benzyl Chloride	11.97	91	1069	1.1575	ppb	# 79
95) 1,3-DCB	11.72	146	1734	0.4479	ppb	# 78
96) 1,4-DCB	11.81	146	2053	0.4872	ppb	98
97) n-Butylbenzene	12.23	91	1736	0.4249	ppb	95
98) 1,2-DCB	12.20	146	2074	0.5296	ppb	93
99) Hexachloroethane	12.49	201	824	0.6122	ppb	# 73
100) 1,2-Dibromo-3-chloropropan	13.03	75	155	-0.8326	ppb	# 1
101) 1,2,4-Trichlorobenzene	13.96	180	749	1.1349	ppb	# 21
102) Hexachlorobutadiene	14.17	223	550	0.5043	ppb	# 67
103) Naphthalene	14.21	128	1678	2.2989	ppb	# 67
104) 1,2,3-Trichlorobenzene	14.47	180	828	0.3704	ppb	# 61

(#) = qualifier out of range (m) = manual integration
 0724L16.D L0724W.M Thu Jul 25 10:22:09 2019

Page 58561097

Quantitation Report

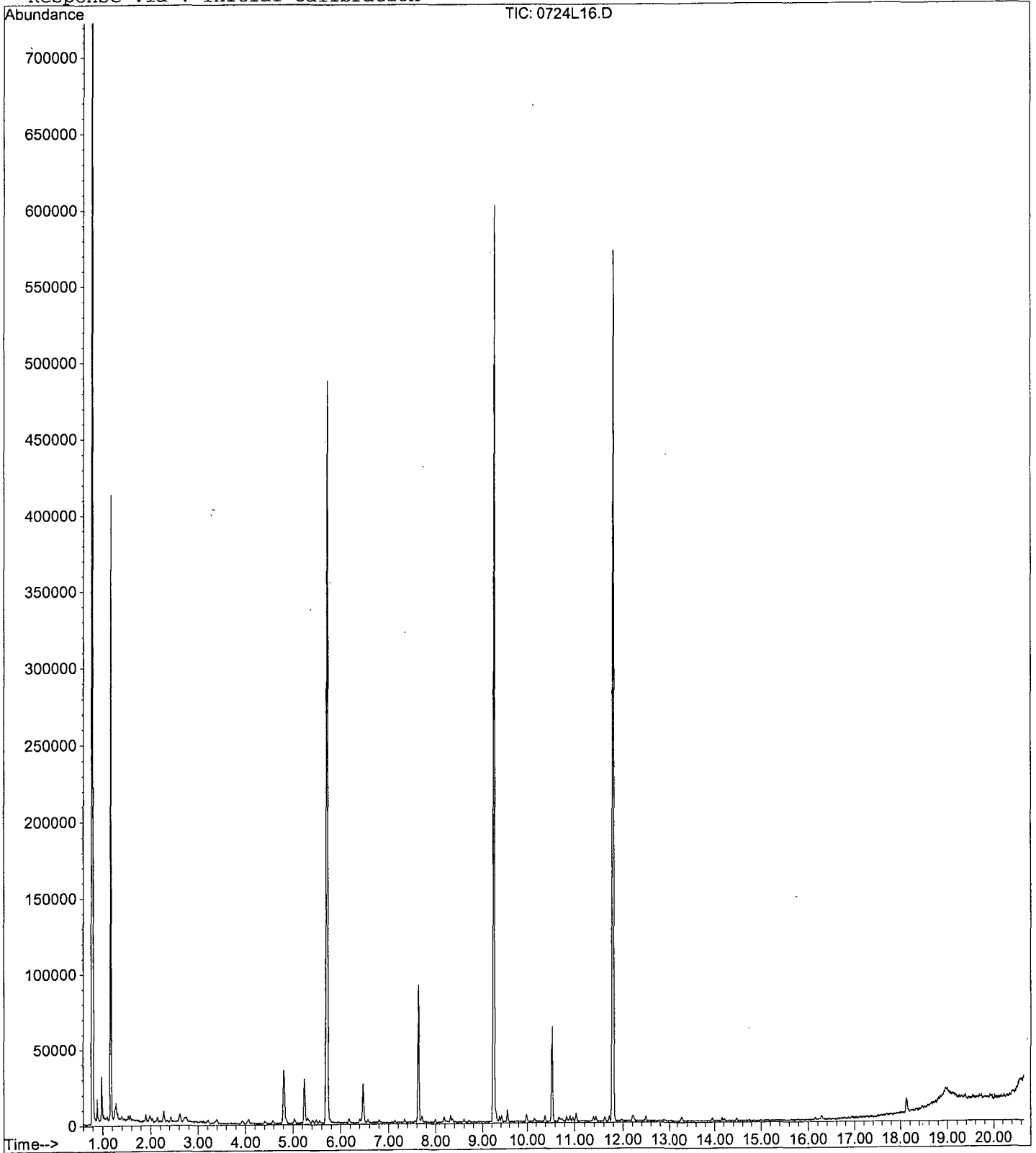
Data File : M:\LOKI\DATA\190724\0724L16.D
Acq On : 24 Jul 19 15:47
Sample : 0.5ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 5
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L17.D
 Acq On : 24 Jul 19 16:16
 Sample : 1.0ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 6
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	236160	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	213952	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	109896	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	39231	9.3787	ppb	0.00
Spiked Amount	25.000		Recovery	=	37.516%	
44) 1,2-DCA-D4(S)	5.25	65	40780	9.4950	ppb	0.00
Spiked Amount	25.000		Recovery	=	37.980%	
65) Toluene-D8(S)	7.63	98	110803	8.5237	ppb	0.00
Spiked Amount	25.000		Recovery	=	34.096%	
73) 4-Bromofluorobenzene(S)	10.54	95	36883	8.2061	ppb	0.00
Spiked Amount	25.000		Recovery	=	32.824%	
Target Compounds						Qvalue
2) Chlorotrifluoroethene	0.89	116	6882	9.1738	ppb	96
3) Dichlorodifluoromethane	0.91	87	611	0.2221	ppb	79
4) Freon 114	0.99	85	1681	0.9990	ppb	89
5) Chloromethane	1.02	50	2450	-0.1835	ppb	# 82
6) Vinyl chloride	1.09	62	2274	1.1222	ppb	100
7) 2-Chloro-1,1,1-trifluoroet	1.17	118	259654	9.8374	ppb	99
8) Bromomethane	1.30	94	1594	1.1267	ppb	# 73
9) Chloroethane	1.38	64	1432	-0.7790	ppb	97
10) Dichlorofluoromethane	1.54	67	3216	0.9447	ppb	100
11) Trichlorofluoromethane	1.57	103	2572	1.1564	ppb	91
13) Acrolein	1.90	56	5555	45.7516	ppb	100
14) Acetone	2.03	43	2078	-0.8589	ppb	# 61
15) Freon-113	2.00	101	1821	0.9457	ppb	# 79
16) 1,1-DCE	1.98	96	2129	1.1332	ppb	# 83
17) t-Butanol	2.62	59	10447	48.8438	ppb	99
18) 2-Propanol	2.21	45	1682	11.3456	ppb	# 42
19) Acetonitrile	2.28	41	13823	52.9758	ppb	# 83
20) Methyl Acetate	2.36	43	2412	0.0722	ppb	91
21) Iodomethane	2.09	142	272	2.0259	ppb	# 79
22) Acrylonitrile	2.69	53	1021	1.1874	ppb	# 63
23) Methylene chloride	2.43	84	2538	1.1375	ppb	92
24) Carbon disulfide	2.14	76	5782	1.0868	ppb	# 91
25) Methyl t-butyl ether (MtBE)	2.75	73	5590	1.0064	ppb	# 90
26) Trans-1,2-DCE	2.72	96	2249	1.0793	ppb	91
27) Diisopropyl Ether	3.39	45	3968	0.9194	ppb	# 71
29) 1,1-DCA	3.22	63	3290	0.9684	ppb	99
30) Vinyl Acetate	3.39	45	3968	0.9194	ppb	# 71
31) Ethyl tert Butyl Ether	3.94	59	3600	0.9357	ppb	# 80
32) MEK (2-Butanone)	4.16	43	359	1.1797	ppb	87
33) Cis-1,2-DCE	4.07	96	2505	1.1252	ppb	78
34) 2,2-Dichloropropane	4.05	77	3091	1.2301	ppb	95
37) Chloroform	4.58	83	3363	0.9206	ppb	98
38) Bromochloromethane	4.42	128	1324	1.0516	ppb	71
40) 1,1,1-TCA	4.79	97	3092	1.0105	ppb	100
41) Cyclohexane	4.87	41	1352	1.2301	ppb	# 33
42) 1,1-Dichloropropene	5.04	75	2005	0.9785	ppb	95
43) 2,2,4-Trimethylpentane	5.49	57	3326	0.9731	ppb	# 84
45) Carbon Tetrachloride	5.03	117	2541	0.8661	ppb	85
46) Tert Amyl Methyl Ether	5.56	73	3711	0.9271	ppb	# 97

(#) = qualifier out of range (m) = manual integration
 0724L17.D L0724W.M Thu Jul 25 10:22:12 2019

Data File : M:\LOKI\DATA\190724\0724L17.D
 Acq On : 24 Jul 19 16:16
 Sample : 1.0ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 6
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) 1,2-DCA	5.35	62	2692	0.9891	ppb #	72
49) Benzene	5.31	78	6836	1.0024	ppb	94
50) TCE	6.18	130	2175	0.9477	ppb #	77
51) 2-Pentanone	6.47	43	51448	47.4107	ppb	100
52) 1,2-Dichloropropane	6.44	63	2013	1.1077	ppb #	82
53) Bromodichloromethane	6.81	83	2821	1.0065	ppb #	72
54) Methyl Cyclohexane	6.41	83	1873	0.9271	ppb #	68
55) Dibromomethane	6.57	93	1272	0.9262	ppb	96
57) MIBK (methyl isobutyl ket	7.56	43	1332	0.9416	ppb #	82
58) 1-Bromo-2-chloroethane	7.13	63	2393	0.9272	ppb	100
59) Cis-1,3-Dichloropropene	7.34	75	2897	1.0801	ppb	95
60) Toluene	7.71	91	6848	0.9270	ppb	99
61) Trans-1,3-Dichloropropene	7.99	75	1978	0.8385	ppb #	76
62) 1,1,2-TCA	8.18	83	1639	1.0113	ppb	96
63) 2-Hexanone	8.52	43	761	0.9090	ppb #	56
66) 1,2-EDB	8.70	107	1916	0.9744	ppb #	66
67) Tetrachloroethene	8.31	166	3058	1.0486	ppb	89
68) 1-Chlorohexane	9.29	91	1658	0.8957	ppb	86
69) 1,1,1,2-Tetrachloroethane	9.37	131	2486	0.9851	ppb	88
70) m&p-Xylene	9.54	91	8905	1.5753	ppb	99
71) o-Xylene	9.97	106	2382	1.7537	ppb	69
72) Styrene	9.99	104	3423	1.9289	ppb	87
74) 1,3-Dichloropropane	8.36	76	2974	0.9733	ppb	89
75) Dibromochloromethane	8.60	129	2429	0.9568	ppb #	70
76) Chlorobenzene	9.26	112	5269	0.9559	ppb	81
77) Ethylbenzene	9.41	91	6247	0.8486	ppb	90
78) Bromoform	10.16	173	2031	0.9731	ppb	95
80) Isopropylbenzene	10.39	105	3244	0.9427	ppb	100
81) 1,1,2,2-Tetrachloroethane	10.72	83	2604	1.1385	ppb	89
82) 1,2,3-Trichloropropane	10.75	110	925	1.1492	ppb	81
83) t-1,4-Dichloro-2-Butene	10.78	53	64	1.0076	ppb #	1
84) Bromobenzene	10.68	156	2197	0.9511	ppb	100
85) n-Propylbenzene	10.84	91	5946	0.8742	ppb	95
86) 4-Ethyltoluene	10.97	105	5431	0.8948	ppb	96
87) 2-Chlorotoluene	10.90	91	2412	0.9326	ppb	93
88) 1,3,5-Trimethylbenzene	11.04	105	4153	0.7710	ppb	92
89) 4-Chlorotoluene	11.03	126	914	0.8837	ppb	80
90) Tert-Butylbenzene	11.38	119	3882	1.3764	ppb	96
91) 1,2,4-Trimethylbenzene	11.44	105	4354	0.8579	ppb	88
92) Sec-Butylbenzene	11.62	105	5297	0.8605	ppb #	84
93) p-Isopropyltoluene	11.79	119	4797	0.8460	ppb	94
94) Benzyl Chloride	11.96	91	1909	1.6861	ppb #	90
95) 1,3-DCB	11.71	146	3951	0.9978	ppb	95
96) 1,4-DCB	11.81	146	4473	1.0376	ppb	85
97) n-Butylbenzene	12.23	91	3627	0.8678	ppb	94
98) 1,2-DCB	12.21	146	3853	0.9617	ppb	96
99) Hexachloroethane	12.49	201	1395	1.0131	ppb	96
100) 1,2-Dibromo-3-chloropropan	13.05	75	544	0.2560	ppb #	73
101) 1,2,4-Trichlorobenzene	13.95	180	1871	1.5564	ppb #	64
102) Hexachlorobutadiene	14.16	223	534	0.4459	ppb	92
103) Naphthalene	14.21	128	3523	2.6262	ppb	100
104) 1,2,3-Trichlorobenzene	14.48	180	2098	0.9176	ppb #	67

(#) = qualifier out of range (m) = manual integration
 0724L17.D L0724W.M Thu Jul 25 10:22:13 2019

Quantitation Report

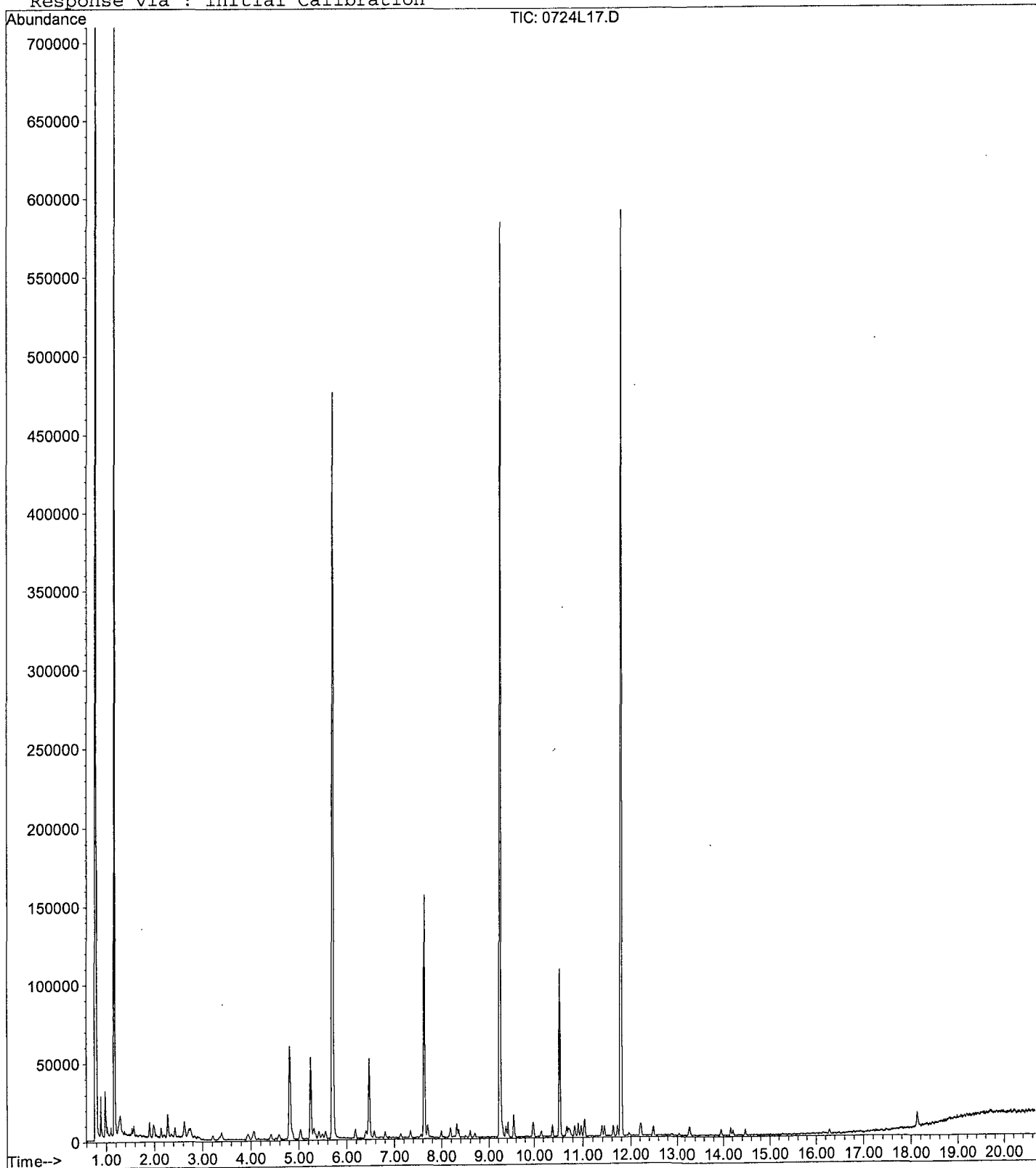
Data File : M:\LOKI\DATA\190724\0724L17.D
Acq On : 24 Jul 19 16:16
Sample : 1.0ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 6
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L18.D
 Acq On : 24 Jul 19 16:45
 Sample : 2.0ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 7
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	228736	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	203328	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	106872	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	40260	9.9371	ppb	0.00
Spiked Amount	25.000		Recovery	=	39.748%	
44) 1,2-DCA-D4(S)	5.25	65	40410	9.7142	ppb	0.00
Spiked Amount	25.000		Recovery	=	38.856%	
65) Toluene-D8(S)	7.63	98	112797	9.1305	ppb	0.00
Spiked Amount	25.000		Recovery	=	36.520%	
73) 4-Bromofluorobenzene(S)	10.53	95	36090	8.4492	ppb	0.00
Spiked Amount	25.000		Recovery	=	33.796%	
Target Compounds						Qvalue
2) Chlorotrifluoroethene	0.89	116	13680	18.8275	ppb	99
3) Dichlorodifluoromethane	0.91	87	1617	2.2381	ppb	70
4) Freon 114	0.99	85	3384	2.0763	ppb	89
5) Chloromethane	1.02	50	4387	1.2042	ppb	98
6) Vinyl chloride	1.09	62	3986	2.0309	ppb	97
7) 2-Chloro-1,1,1-trifluoroet	1.17	118	508664	19.8970	ppb	99
8) Bromomethane	1.30	94	2550	2.0206	ppb	90
9) Chloroethane	1.38	64	3054	0.9918	ppb	97
10) Dichlorofluoromethane	1.54	67	6687	2.0281	ppb	90
11) Trichlorofluoromethane	1.57	103	4309	2.0002	ppb	96
13) Acrolein	1.90	56	7728	65.7145	ppb	# 68
14) Acetone	2.04	43	2878	0.7477	ppb	# 84
15) Freon-113	1.99	101	4002	2.1458	ppb	83
16) 1,1-DCE	1.98	96	3786	2.0805	ppb	96
17) t-Butanol	2.62	59	15885	80.9627	ppb	95
18) 2-Propanol	2.20	45	2741	20.8973	ppb	# 78
19) Acetonitrile	2.28	41	19464	77.0157	ppb	97
20) Methyl Acetate	2.36	43	3875	1.2064	ppb	92
21) Iodomethane	2.09	142	762	2.5647	ppb	# 68
22) Acrylonitrile	2.69	53	1718	2.0629	ppb	96
23) Methylene chloride	2.43	84	4489	2.0772	ppb	87
24) Carbon disulfide	2.14	76	10541	2.0456	ppb	99
25) Methyl t-butyl ether (MtBE)	2.75	73	10483	1.9485	ppb	# 91
26) Trans-1,2-DCE	2.72	96	4369	2.1648	ppb	85
27) Diisopropyl Ether	3.40	45	7998	1.9133	ppb	94
29) 1,1-DCA	3.21	63	6601	2.0061	ppb	96
30) Vinyl Acetate	3.40	45	7998	1.9133	ppb	94
31) Ethyl tert Butyl Ether	3.94	59	7410	1.9885	ppb	92
32) MEK (2-Butanone)	4.17	43	544	1.8457	ppb	87
33) Cis-1,2-DCE	4.07	96	4341	2.0132	ppb	85
34) 2,2-Dichloropropane	4.05	77	4611	1.8946	ppb	# 88
37) Chloroform	4.59	83	7477	2.1131	ppb	89
38) Bromochloromethane	4.42	128	2764	2.2666	ppb	98
40) 1,1,1-TCA	4.79	97	5907	1.9932	ppb	95
41) Cyclohexane	4.87	41	2167	2.0356	ppb	72
42) 1,1-Dichloropropene	5.04	75	3468	1.7473	ppb	91
43) 2,2,4-Trimethylpentane	5.49	57	5876	1.7749	ppb	# 57
45) Carbon Tetrachloride	5.03	117	5851	2.0589	ppb	87
46) Tert Amyl Methyl Ether	5.56	73	7142	1.8422	ppb	# 89

(#) = qualifier out of range (m) = manual integration
 0724L18.D L0724W.M Thu Jul 25 10:22:16 2019

Data File : M:\LOKI\DATA\190724\0724L18.D
 Acq On : 24 Jul 19 16:45
 Sample : 2.0ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 7
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) 1,2-DCA	5.35	62	5698	2.1614	ppb	92
49) Benzene	5.31	78	12922	1.9563	ppb #	91
50) TCE	6.18	130	4164	1.8733	ppb #	90
51) 2-Pentanone	6.47	43	81444	77.4887	ppb	99
52) 1,2-Dichloropropane	6.44	63	3372	1.9157	ppb #	83
53) Bromodichloromethane	6.80	83	5567	2.0508	ppb	94
54) Methyl Cyclohexane	6.40	83	3641	1.8608	ppb	88
55) Dibromomethane	6.57	93	3026	2.2749	ppb	88
56) 2-Chloroethyl vinyl ether	7.22	63	88	5.5943	ppb #	48
57) MIBK (methyl isobutyl ket	7.56	43	2694	1.9662	ppb #	91
58) 1-Bromo-2-chloroethane	7.13	63	5182	2.0731	ppb	95
59) Cis-1,3-Dichloropropene	7.34	75	5164	1.9878	ppb #	83
60) Toluene	7.71	91	12649	1.7678	ppb	98
61) Trans-1,3-Dichloropropene	7.99	75	3913	1.7126	ppb	89
62) 1,1,2-TCA	8.18	83	3113	1.9831	ppb	92
63) 2-Hexanone	8.51	43	1592	1.9633	ppb #	89
66) 1,2-EDB	8.70	107	3757	2.0104	ppb #	94
67) Tetrachloroethene	8.32	166	5098	1.8395	ppb #	82
68) 1-Chlorohexane	9.29	91	2830	1.6087	ppb	94
69) 1,1,1,2-Tetrachloroethane	9.37	131	5077	2.1169	ppb	98
70) m&p-Xylene	9.55	91	17942	3.3397	ppb	96
71) o-Xylene	9.98	106	4399	2.4245	ppb	96
72) Styrene	9.99	104	7319	2.6318	ppb	93
74) 1,3-Dichloropropane	8.36	76	6012	2.0704	ppb	88
75) Dibromochloromethane	8.60	129	5132	2.1272	ppb	81
76) Chlorobenzene	9.26	112	9786	1.8681	ppb	98
77) Ethylbenzene	9.41	91	12377	1.7691	ppb	90
78) Bromoform	10.16	173	3889	1.9607	ppb	98
80) Isopropylbenzene	10.39	105	6467	1.9324	ppb	97
81) 1,1,2,2-Tetrachloroethane	10.72	83	4810	2.1624	ppb	86
82) 1,2,3-Trichloropropane	10.74	110	1826	2.3327	ppb	85
83) t-1,4-Dichloro-2-Butene	10.78	53	555	2.5221	ppb	98
84) Bromobenzene	10.68	156	4527	2.0153	ppb	96
85) n-Propylbenzene	10.84	91	12195	1.8438	ppb	100
86) 4-Ethyltoluene	10.97	105	10126	1.7156	ppb	95
87) 2-Chlorotoluene	10.90	91	4492	1.7860	ppb	85
88) 1,3,5-Trimethylbenzene	11.04	105	9056	1.7288	ppb	95
89) 4-Chlorotoluene	11.02	126	2087	2.0749	ppb #	58
90) Tert-Butylbenzene	11.39	119	7882	2.1511	ppb	83
91) 1,2,4-Trimethylbenzene	11.44	105	8151	1.6515	ppb	91
92) Sec-Butylbenzene	11.62	105	10471	1.7491	ppb	95
93) p-Isopropyltoluene	11.79	119	9822	1.7813	ppb	94
94) Benzyl Chloride	11.96	91	3375	2.6983	ppb #	96
95) 1,3-DCB	11.72	146	7318	1.9004	ppb	92
96) 1,4-DCB	11.81	146	8539	2.0369	ppb	97
97) n-Butylbenzene	12.23	91	7088	1.7438	ppb	96
98) 1,2-DCB	12.20	146	7640	1.9610	ppb #	93
99) Hexachloroethane	12.49	201	2979	2.2247	ppb #	87
100) 1,2-Dibromo-3-chloropropan	13.04	75	939	1.4466	ppb #	68
101) 1,2,4-Trichlorobenzene	13.95	180	4168	2.4775	ppb	98
102) Hexachlorobutadiene	14.16	223	1005	1.4649	ppb #	74
103) Naphthalene	14.21	128	6993	3.2908	ppb	98
104) 1,2,3-Trichlorobenzene	14.47	180	4115	1.8507	ppb	86

(#) = qualifier out of range (m) = manual integration
 0724L18.D L0724W.M Thu Jul 25 10:22:17 2019

Quantitation Report

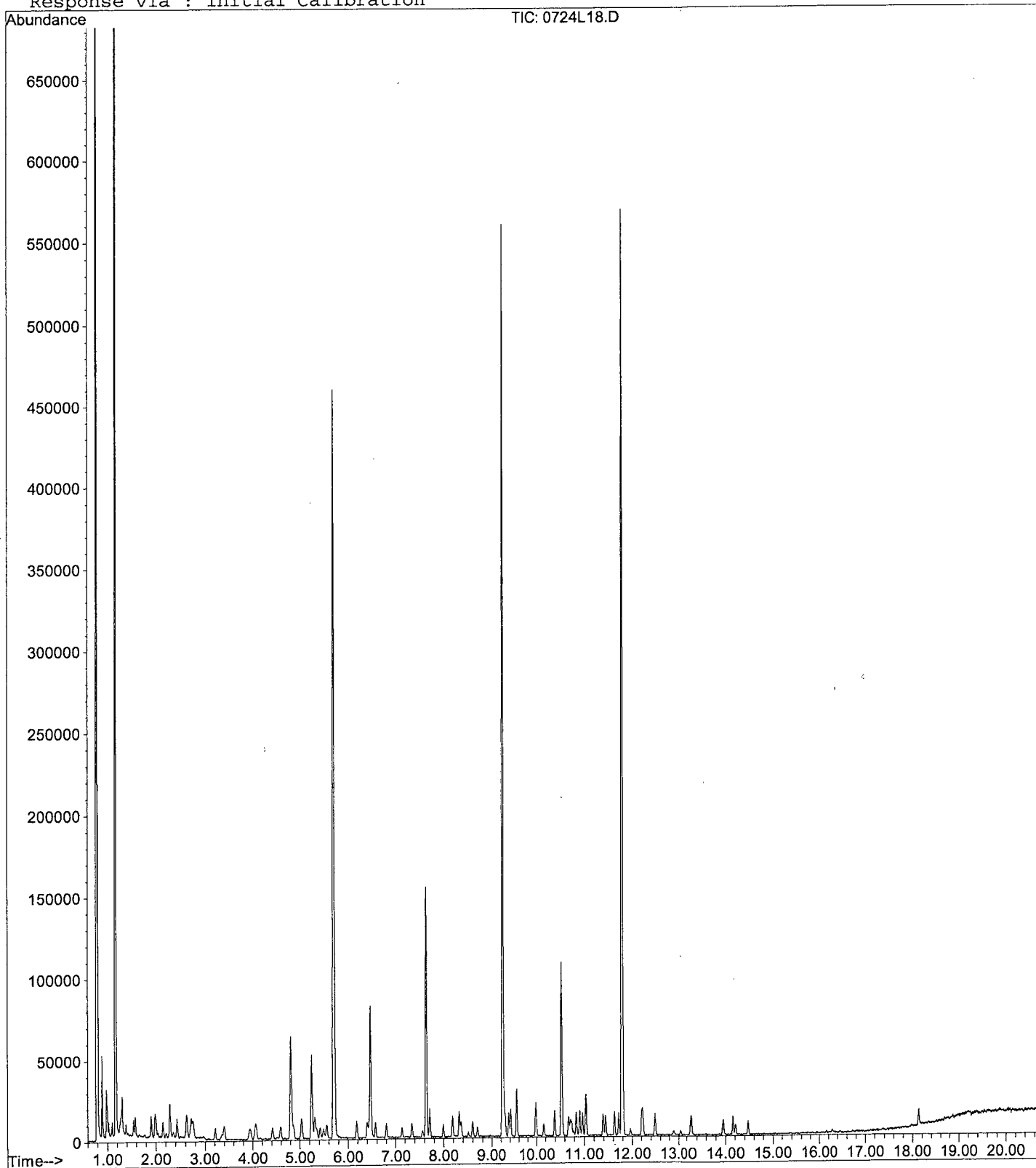
Data File : M:\LOKI\DATA\190724\0724L18.D
Acq On : 24 Jul 19 16:45
Sample : 2.0ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 7
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L19.D
 Acq On : 24 Jul 19 17:14
 Sample : 5.0ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 8
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	226368	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	203008	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	112968	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Dibromofluoromethane(S) Spiked Amount 25.000	4.81	111	106359	26.5264	ppb	0.00
			Recovery =	106.104%		
44) 1,2-DCA-D4(S) Spiked Amount 25.000	5.24	65	108946	26.4636	ppb	0.00
			Recovery =	105.856%		
65) Toluene-D8(S) Spiked Amount 25.000	7.63	98	323314	26.2123	ppb	0.00
			Recovery =	104.848%		
73) 4-Bromofluorobenzene(S) Spiked Amount 25.000	10.54	95	109955	25.7826	ppb	0.00
			Recovery =	103.132%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chlorotrifluoroethene	0.89	116	28721	39.9417	ppb	93
3) Dichlorodifluoromethane	0.91	87	2591	4.2068	ppb	92
4) Freon 114	0.99	85	8616	5.3418	ppb	99
5) Chloromethane	1.02	50	9286	4.6468	ppb	92
6) Vinyl chloride	1.10	62	8920	4.5923	ppb	89
7) 2-Chloro-1,1,1-trifluoroet	1.17	118	1031035	40.7520	ppb	99
8) Bromomethane	1.30	94	5404	4.6066	ppb	92
9) Chloroethane	1.38	64	6127	4.3243	ppb	99
10) Dichlorofluoromethane	1.54	67	18181	5.5717	ppb	99
11) Trichlorofluoromethane	1.57	103	10433	4.8936	ppb	100
13) Acrolein	1.90	56	13036	112.0103	ppb	92
14) Acetone	2.04	43	5291	5.3306	ppb	94
15) Freon-113	2.00	101	10529	5.7045	ppb	93
16) 1,1-DCE	1.98	96	9151	5.0814	ppb	97
17) t-Butanol	2.62	59	20382	107.1986	ppb	97
18) 2-Propanol	2.20	45	4859	39.5288	ppb	97
19) Acetonitrile	2.28	41	25225	100.8551	ppb	97
20) Methyl Acetate	2.35	43	9570	5.4775	ppb	96
21) Iodomethane	2.09	142	2358	4.2846	ppb	# 75
22) Acrylonitrile	2.69	53	4240	5.1445	ppb	# 81
23) Methylene chloride	2.43	84	11915	5.5711	ppb	93
24) Carbon disulfide	2.14	76	27801	5.4515	ppb	96
25) Methyl t-butyl ether (MtBE)	2.75	73	28490	5.3509	ppb	97
26) Trans-1,2-DCE	2.72	96	10707	5.3608	ppb	97
27) Diisopropyl Ether	3.39	45	23272	5.6253	ppb	97
29) 1,1-DCA	3.21	63	18525	5.6888	ppb	97
30) Vinyl Acetate	3.39	45	23272	5.6253	ppb	97
31) Ethyl tert Butyl Ether	3.93	59	19243	5.2178	ppb	95
32) MEK (2-Butanone)	4.16	43	1616	5.5401	ppb	84
33) Cis-1,2-DCE	4.07	96	10593	4.9640	ppb	86
34) 2,2-Dichloropropane	4.05	77	13560	5.6299	ppb	# 89
37) Chloroform	4.59	83	19404	5.5412	ppb	100
38) Bromochloromethane	4.42	128	6964	5.7704	ppb	93
40) 1,1,1-TCA	4.80	97	15892	5.4184	ppb	99
41) Cyclohexane	4.86	41	5192	4.9282	ppb	97
42) 1,1-Dichloropropene	5.04	75	10111	5.1477	ppb	94
43) 2,2,4-Trimethylpentane	5.48	57	15766	4.8121	ppb	# 68
45) Carbon Tetrachloride	5.02	117	16243	5.7756	ppb	96
46) Tert Amyl Methyl Ether	5.55	73	18756	4.8886	ppb	99

(#) = qualifier out of range (m) = manual integration
 0724L19.D L0724W.M Thu Jul 25 10:22:20 2019

Data File : M:\LOKI\DATA\190724\0724L19.D
 Acq On : 24 Jul 19 17:14
 Sample : 5.0ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 8
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) 1,2-DCA	5.35	62	13797	5.2883	ppb	96
49) Benzene	5.31	78	34063	5.2109	ppb	97
50) TCE	6.17	130	12221	5.5556	ppb	92
51) 2-Pentanone	6.47	43	108387	104.2020	ppb	96
52) 1,2-Dichloropropane	6.44	63	8951	5.1385	ppb	97
53) Bromodichloromethane	6.80	83	14963	5.5697	ppb	93
54) Methyl Cyclohexane	6.40	83	9512	4.9121	ppb	90
55) Dibromomethane	6.57	93	7733	5.8744	ppb	97
56) 2-Chloroethyl vinyl ether	7.22	63	652	13.9004	ppb #	89
57) MIBK (methyl isobutyl ket	7.56	43	6638	4.8954	ppb	99
58) 1-Bromo-2-chloroethane	7.13	63	13056	5.2777	ppb	98
59) Cis-1,3-Dichloropropene	7.34	75	12563	4.8864	ppb	98
60) Toluene	7.71	91	38122	5.3836	ppb	100
61) Trans-1,3-Dichloropropene	7.99	75	12554	5.5521	ppb	98
62) 1,1,2-TCA	8.18	83	8537	5.4954	ppb	89
63) 2-Hexanone	8.51	43	4340	5.4082	ppb #	80
66) 1,2-EDB	8.70	107	10601	5.6817	ppb	98
67) Tetrachloroethene	8.32	166	15044	5.4369	ppb	95
68) 1-Chlorohexane	9.29	91	8712	4.9601	ppb	91
69) 1,1,1,2-Tetrachloroethane	9.37	131	13934	5.8191	ppb	100
70) m&p-Xylene	9.55	91	54502	10.1610	ppb	98
71) o-Xylene	9.97	106	13819	5.3906	ppb	97
72) Styrene	9.99	104	21593	5.1053	ppb	95
74) 1,3-Dichloropropane	8.36	76	15778	5.4422	ppb	98
75) Dibromochloromethane	8.60	129	13757	5.7111	ppb	86
76) Chlorobenzene	9.27	112	27782	5.3119	ppb	99
77) Ethylbenzene	9.41	91	34916	4.9986	ppb	93
78) Bromoform	10.16	173	11022	5.5657	ppb	98
80) Isopropylbenzene	10.39	105	18304	5.1743	ppb	94
81) 1,1,2,2-Tetrachloroethane	10.71	83	13437	5.7149	ppb	93
82) 1,2,3-Trichloropropane	10.74	110	4762	5.7552	ppb	83
83) t-1,4-Dichloro-2-Butene	10.78	53	1849	6.1926	ppb #	58
84) Bromobenzene	10.68	156	13064	5.5019	ppb	97
85) n-Propylbenzene	10.84	91	37570	5.3737	ppb	94
86) 4-Ethyltoluene	10.97	105	31202	5.0011	ppb	100
87) 2-Chlorotoluene	10.90	91	14568	5.4796	ppb	100
88) 1,3,5-Trimethylbenzene	11.04	105	29257	5.2837	ppb	97
89) 4-Chlorotoluene	11.03	126	5092	4.7893	ppb	98
90) Tert-Butylbenzene	11.38	119	28265	5.7081	ppb	90
91) 1,2,4-Trimethylbenzene	11.44	105	25452	4.8787	ppb	96
92) Sec-Butylbenzene	11.62	105	34275	5.4165	ppb	94
93) p-Isopropyltoluene	11.79	119	30163	5.1750	ppb	96
94) Benzyl Chloride	11.96	91	8051	5.5256	ppb #	93
95) 1,3-DCB	11.72	146	23138	5.6844	ppb	97
96) 1,4-DCB	11.81	146	24177	5.4559	ppb	97
97) n-Butylbenzene	12.23	91	21577	5.0219	ppb	97
98) 1,2-DCB	12.21	146	22806	5.5378	ppb	94
99) Hexachloroethane	12.48	201	7357	5.1977	ppb	92
100) 1,2-Dibromo-3-chloropropan	13.04	75	2356	5.1926	ppb	83
101) 1,2,4-Trichlorobenzene	13.95	180	12076	5.3237	ppb	95
102) Hexachlorobutadiene	14.16	223	3063	5.4359	ppb	96
103) Naphthalene	14.21	128	19037	5.3434	ppb	100
104) 1,2,3-Trichlorobenzene	14.47	180	11713	4.9836	ppb	92

(#) = qualifier out of range (m) = manual integration
 0724L19.D L0724W.M Thu Jul 25 10:22:21 2019

Quantitation Report

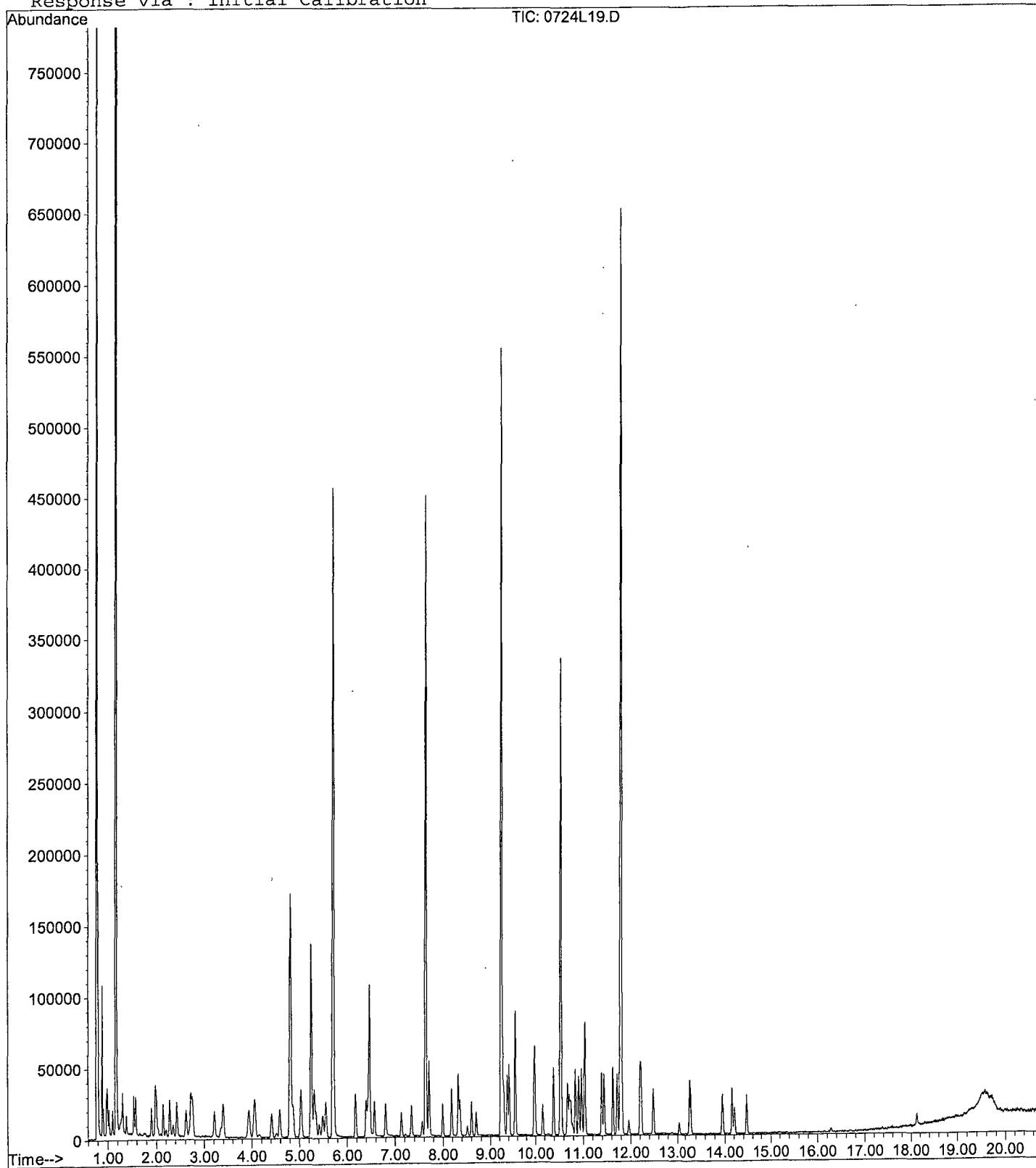
Data File : M:\LOKI\DATA\190724\0724L19.D
Acq On : 24 Jul 19 17:14
Sample : 5.0ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 8
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L20.D
 Acq On : 24 Jul 19 17:42
 Sample : 10ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 9
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.71	96	232960	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	215616	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	119352	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	106937	25.9158	ppb	0.00
Spiked Amount	25.000		Recovery	=	103.664%	
44) 1,2-DCA-D4(S)	5.25	65	108770	25.6732	ppb	0.00
Spiked Amount	25.000		Recovery	=	102.692%	
65) Toluene-D8(S)	7.63	98	340696	26.0064	ppb	0.00
Spiked Amount	25.000		Recovery	=	104.024%	
73) 4-Bromofluorobenzene(S)	10.53	95	119955	26.4827	ppb	0.00
Spiked Amount	25.000		Recovery	=	105.932%	
Target Compounds						Qvalue
2) Chlorotrifluoroethene	0.89	116	80495	108.7751	ppb	100
3) Dichlorodifluoromethane	0.91	87	6494	11.5970	ppb	100
4) Freon 114	0.99	85	17181	10.3506	ppb	100
5) Chloromethane	1.02	50	19255	11.2083	ppb	100
6) Vinyl chloride	1.09	62	21167	10.5892	ppb	100
7) 2-Chloro-1,1,1-trifluoroet	1.17	118	2749996	105.6188	ppb	100
8) Bromomethane	1.30	94	12079	10.2923	ppb	100
9) Chloroethane	1.38	64	13236	11.5531	ppb	100
10) Dichlorofluoromethane	1.54	67	35635	10.6116	ppb	100
11) Trichlorofluoromethane	1.57	103	24142	11.0035	ppb	100
13) Acrolein	1.90	56	15822	132.1017	ppb	100
14) Acetone	2.04	43	8968	11.7529	ppb	100
15) Freon-113	2.00	101	19464	10.2469	ppb	100
16) 1,1-DCE	1.98	96	18217	9.8293	ppb	100
17) t-Butanol	2.62	59	23683	122.0057	ppb	100
18) 2-Propanol	2.20	45	11287	92.5542	ppb	100
19) Acetonitrile	2.28	41	32682	126.9723	ppb	100
20) Methyl Acetate	2.35	43	16310	10.1532	ppb	100
21) Iodomethane	2.09	142	6290	8.1379	ppb	100
22) Acrylonitrile	2.69	53	8776	10.3468	ppb	100
23) Methylene chloride	2.43	84	22874	10.3926	ppb	100
24) Carbon disulfide	2.14	76	52811	10.0628	ppb	100
25) Methyl t-butyl ether (MtBE)	2.75	73	55437	10.1174	ppb	100
26) Trans-1,2-DCE	2.72	96	21910	10.6594	ppb	100
27) Diisopropyl Ether	3.40	45	43924	10.3169	ppb	100
29) 1,1-DCA	3.21	63	34435	10.2754	ppb	100
30) Vinyl Acetate	3.40	45	43924	10.3169	ppb	100
31) Ethyl tert Butyl Ether	3.94	59	41172	10.8481	ppb	100
32) MEK (2-Butanone)	4.15	43	2866	9.5473	ppb	100
33) Cis-1,2-DCE	4.07	96	21488	9.7846	ppb	100
34) 2,2-Dichloropropane	4.05	77	24815	10.0113	ppb	100
37) Chloroform	4.59	83	36997	10.2663	ppb	100
38) Bromochloromethane	4.41	128	13523	10.8882	ppb	100
40) 1,1,1-TCA	4.80	97	30617	10.1436	ppb	100
41) Cyclohexane	4.86	41	10394	9.5868	ppb	100
42) 1,1-Dichloropropene	5.04	75	19846	9.8180	ppb	100
43) 2,2,4-Trimethylpentane	5.49	57	33385	9.9014	ppb	100
45) Carbon Tetrachloride	5.03	117	30001	10.3657	ppb	100
46) Tert Amyl Methyl Ether	5.55	73	39711	10.0574	ppb	100

(#) = qualifier out of range (m) = manual integration
 0724L20.D L0724W.M Thu Jul 25 10:22:24 2019

Data File : M:\LOKI\DATA\190724\0724L20.D
 Acq On : 24 Jul 19 17:42
 Sample : 10ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 9
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) 1,2-DCA	5.35	62	28393	10.5750	ppb	100
49) Benzene	5.31	78	72246	10.7394	ppb	100
50) TCE	6.18	130	24290	10.7297	ppb	100
51) 2-Pentanone	6.47	43	140735	131.4724	ppb	100
52) 1,2-Dichloropropane	6.44	63	18262	10.1870	ppb	100
53) Bromodichloromethane	6.80	83	29199	10.5612	ppb	100
54) Methyl Cyclohexane	6.40	83	20792	10.4334	ppb	100
55) Dibromomethane	6.57	93	14050	10.3711	ppb	100
56) 2-Chloroethyl vinyl ether	7.22	63	1821	30.3309	ppb	100
57) MIBK (methyl isobutyl ket	7.56	43	14898	10.6762	ppb	100
58) 1-Bromo-2-chloroethane	7.13	63	26174	10.2811	ppb	100
59) Cis-1,3-Dichloropropene	7.34	75	26527	10.0258	ppb	100
60) Toluene	7.71	91	77000	10.5662	ppb	100
61) Trans-1,3-Dichloropropene	7.99	75	24077	10.3469	ppb	100
62) 1,1,2-TCA	8.18	83	16445	10.2864	ppb	100
63) 2-Hexanone	8.51	43	8263	10.0054	ppb	100
66) 1,2-EDB	8.70	107	20012	10.0984	ppb	100
67) Tetrachloroethene	8.32	166	30750	10.4632	ppb	100
68) 1-Chlorohexane	9.29	91	18987	10.1780	ppb	100
69) 1,1,1,2-Tetrachloroethane	9.37	131	24952	9.8111	ppb	100
70) m&p-Xylene	9.55	91	117199	20.5721	ppb	100
71) o-Xylene	9.98	106	27640	9.2307	ppb	100
72) Styrene	9.99	104	47812	9.1611	ppb	100
74) 1,3-Dichloropropane	8.36	76	30734	9.9810	ppb	100
75) Dibromochloromethane	8.60	129	26787	10.4701	ppb	100
76) Chlorobenzene	9.26	112	57471	10.3458	ppb	100
77) Ethylbenzene	9.41	91	74894	10.0949	ppb	100
78) Bromoform	10.16	173	21995	10.4572	ppb	100
80) Isopropylbenzene	10.39	105	40960	10.9595	ppb	100
81) 1,1,2,2-Tetrachloroethane	10.72	83	25398	10.2242	ppb	100
82) 1,2,3-Trichloropropane	10.74	110	9189	10.5115	ppb	100
83) t-1,4-Dichloro-2-Butene	10.78	53	3406	10.1902	ppb	100
84) Bromobenzene	10.68	156	26822	10.6919	ppb	100
85) n-Propylbenzene	10.84	91	80276	10.8678	ppb	100
86) 4-Ethyltoluene	10.97	105	71030	10.7759	ppb	100
87) 2-Chlorotoluene	10.90	91	30384	10.8174	ppb	100
88) 1,3,5-Trimethylbenzene	11.04	105	65011	11.1127	ppb	100
89) 4-Chlorotoluene	11.03	126	12056	10.7327	ppb	100
90) Tert-Butylbenzene	11.38	119	53998	9.7847	ppb	100
91) 1,2,4-Trimethylbenzene	11.44	105	58761	10.6609	ppb	100
92) Sec-Butylbenzene	11.62	105	72489	10.8428	ppb	100
93) p-Isopropyltoluene	11.79	119	68711	11.1581	ppb	100
94) Benzyl Chloride	11.96	91	17534	10.9143	ppb	100
95) 1,3-DCB	11.71	146	46673	10.8529	ppb	100
96) 1,4-DCB	11.81	146	49370	10.5452	ppb	100
97) n-Butylbenzene	12.23	91	48772	10.7443	ppb	100
98) 1,2-DCB	12.20	146	45555	10.4701	ppb	100
99) Hexachloroethane	12.48	201	14709	9.8360	ppb	100
100) 1,2-Dibromo-3-chloropropan	13.04	75	4187	9.6078	ppb	100
101) 1,2,4-Trichlorobenzene	13.95	180	24696	9.5165	ppb	100
102) Hexachlorobutadiene	14.16	223	6022	10.6697	ppb	100
103) Naphthalene	14.21	128	42006	8.9959	ppb	100
104) 1,2,3-Trichlorobenzene	14.47	180	25970	10.4586	ppb	100

(#) = qualifier out of range (m) = manual integration
 0724L20.D L0724W.M Thu Jul 25 10:22:25 2019

Quantitation Report

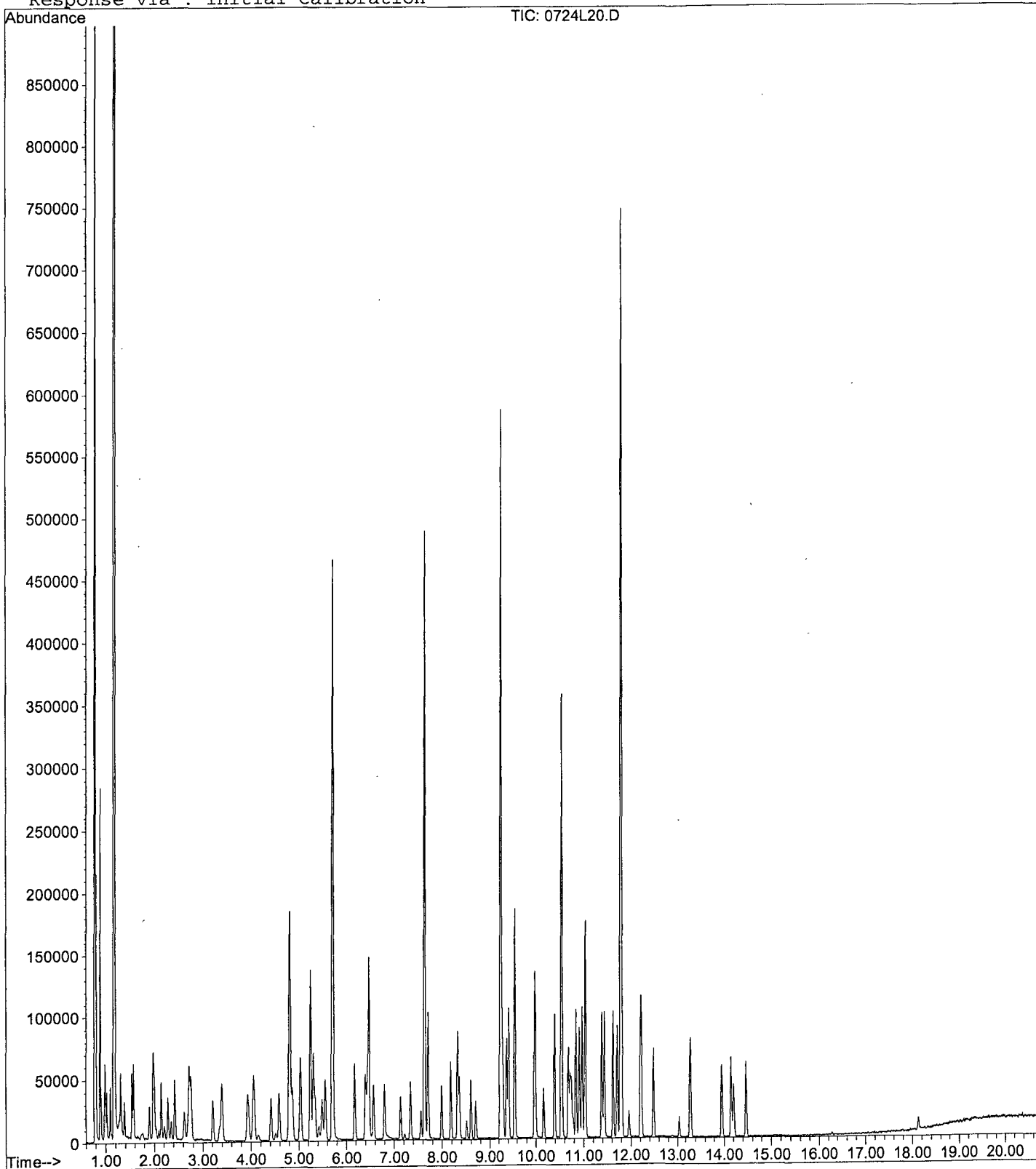
Data File : M:\LOKI\DATA\190724\0724L20.D
Acq On : 24 Jul 19 17:42
Sample : 10ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 9
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L21.D
 Acq On : 24 Jul 19 18:11
 Sample : 20ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 10
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	252480	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	227712	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	144064	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	211246	47.2367	ppb	0.00
Spiked Amount	25.000		Recovery	=	188.948%	
44) 1,2-DCA-D4 (S)	5.25	65	218495	47.5847	ppb	0.00
Spiked Amount	25.000		Recovery	=	190.340%	
65) Toluene-D8 (S)	7.63	98	720478	52.0749	ppb	0.00
Spiked Amount	25.000		Recovery	=	208.300%	
73) 4-Bromofluorobenzene(S)	10.53	95	260415	54.4383	ppb	0.00
Spiked Amount	25.000		Recovery	=	217.752%	
Target Compounds						
2) Chlorotrifluoroethene	0.88	116	101348	126.3660	ppb	Qvalue 98
3) Dichlorodifluoromethane	0.91	87	11743	19.9788	ppb	92
4) Freon 114	0.99	85	33827	18.8033	ppb	90
5) Chloromethane	1.02	50	36615	21.0379	ppb	96
6) Vinyl chloride	1.09	62	41562	19.1847	ppb	98
7) 2-Chloro-1,1,1-trifluoroet	1.17	118	3509766	124.3775	ppb	99
8) Bromomethane	1.30	94	20792	16.4909	ppb	95
9) Chloroethane	1.37	64	24874	21.6860	ppb	100
10) Dichlorofluoromethane	1.53	67	69815	19.1825	ppb	97
11) Trichlorofluoromethane	1.57	103	45546	19.1541	ppb	96
13) Acrolein	1.90	56	20686	159.3595	ppb	99
14) Acetone	2.04	43	16008	22.3306	ppb	# 88
15) Freon-113	1.99	101	36908	17.9281	ppb	96
16) 1,1-DCE	1.97	96	35455	17.6514	ppb	100
17) t-Butanol	2.63	59	29550	141.5979	ppb	94
18) 2-Propanol	2.22	45	15940	121.4066	ppb	96
19) Acetonitrile	2.28	41	38186	136.8860	ppb	99
20) Methyl Acetate	2.36	43	33483	20.7072	ppb	86
21) Iodomethane	2.09	142	18966	18.2381	ppb	# 93
22) Acrylonitrile	2.69	53	17709	19.2645	ppb	98
23) Methylene chloride	2.43	84	42763	17.9269	ppb	92
24) Carbon disulfide	2.14	76	103100	18.1262	ppb	97
25) Methyl t-butyl ether (MtBE)	2.75	73	110158	18.5498	ppb	99
26) Trans-1,2-DCE	2.72	96	40968	18.3904	ppb	94
27) Diisopropyl Ether	3.40	45	84755	18.3682	ppb	99
29) 1,1-DCA	3.21	63	65406	18.0082	ppb	98
30) Vinyl Acetate	3.40	45	84755	18.3682	ppb	99
31) Ethyl tert Butyl Ether	3.94	59	78325	19.0417	ppb	100
32) MEK (2-Butanone)	4.15	43	6387	19.6317	ppb	96
33) Cis-1,2-DCE	4.07	96	41225	17.3205	ppb	92
34) 2,2-Dichloropropane	4.04	77	47187	17.5651	ppb	# 88
37) Chloroform	4.59	83	73739	18.8798	ppb	95
38) Bromochloromethane	4.42	128	26439	19.6418	ppb	93
40) 1,1,1-TCA	4.80	97	61357	18.7564	ppb	97
41) Cyclohexane	4.86	41	21954	18.6835	ppb	93
42) 1,1-Dichloropropene	5.04	75	41965	19.1554	ppb	95
43) 2,2,4-Trimethylpentane	5.49	57	68762	18.8169	ppb	97
45) Carbon Tetrachloride	5.02	117	59645	19.0149	ppb	99
46) Tert Amyl Methyl Ether	5.55	73	85495	19.9789	ppb	92

(#) = qualifier out of range (m) = manual integration

0724L21.D L0724W.M Thu Jul 25 10:22:28 2019

Data File : M:\LOKI\DATA\190724\0724L21.D
 Acq On : 24 Jul 19 18:11
 Sample : 20ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 10
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) 1,2-DCA	5.35	62	55524	19.0811	ppb	97
49) Benzene	5.31	78	138307	18.9699	ppb	99
50) TCE	6.18	130	47565	19.3866	ppb	93
51) 2-Pentanone	6.47	43	170561	147.0167	ppb	99
52) 1,2-Dichloropropane	6.44	63	35197	18.1159	ppb	100
53) Bromodichloromethane	6.80	83	56219	18.7622	ppb	99
54) Methyl Cyclohexane	6.40	83	42978	19.8990	ppb	98
55) Dibromomethane	6.57	93	28451	19.3776	ppb	92
56) 2-Chloroethyl vinyl ether	7.22	63	4391	62.1989	ppb	# 93
57) MIBK (methyl isobutyl ket	7.56	43	27201	17.9857	ppb	# 93
58) 1-Bromo-2-chloroethane	7.13	63	51443	18.6444	ppb	99
59) Cis-1,3-Dichloropropene	7.34	75	53018	18.4888	ppb	99
60) Toluene	7.71	91	163774	20.7361	ppb	99
61) Trans-1,3-Dichloropropene	7.99	75	50529	20.0356	ppb	95
62) 1,1,2-TCA	8.18	83	32033	18.4876	ppb	90
63) 2-Hexanone	8.51	43	17206	19.2233	ppb	99
66) 1,2-EDB	8.70	107	41803	19.9740	ppb	87
67) Tetrachloroethene	8.32	166	57105	18.3988	ppb	92
68) 1-Chlorohexane	9.29	91	38754	19.6705	ppb	96
69) 1,1,1,2-Tetrachloroethane	9.37	131	49081	18.2734	ppb	92
70) m&p-Xylene	9.55	91	249428	41.4568	ppb	98
71) o-Xylene	9.97	106	59715	17.7929	ppb	97
72) Styrene	9.99	104	104321	17.4702	ppb	97
74) 1,3-Dichloropropane	8.36	76	60431	18.5827	ppb	96
75) Dibromochloromethane	8.60	129	52092	19.2794	ppb	96
76) Chlorobenzene	9.26	112	113848	19.4060	ppb	97
77) Ethylbenzene	9.41	91	162170	20.6976	ppb	98
78) Bromoform	10.16	173	41837	18.8342	ppb	96
80) Isopropylbenzene	10.39	105	87392	19.3720	ppb	99
81) 1,1,2,2-Tetrachloroethane	10.71	83	48966	16.3305	ppb	99
82) 1,2,3-Trichloropropane	10.74	110	18382	17.4206	ppb	99
83) t-1,4-Dichloro-2-Butene	10.78	53	7774	18.5416	ppb	# 75
84) Bromobenzene	10.68	156	56083	18.5212	ppb	95
85) n-Propylbenzene	10.84	91	175361	19.6681	ppb	97
86) 4-Ethyltoluene	10.97	105	161581	20.3083	ppb	99
87) 2-Chlorotoluene	10.90	91	67792	19.9953	ppb	97
88) 1,3,5-Trimethylbenzene	11.04	105	148013	20.9608	ppb	100
89) 4-Chlorotoluene	11.03	126	26520	19.5593	ppb	90
90) Tert-Butylbenzene	11.38	119	112784	16.4462	ppb	94
91) 1,2,4-Trimethylbenzene	11.44	105	137746	20.7042	ppb	96
92) Sec-Butylbenzene	11.62	105	167378	20.7416	ppb	99
93) p-Isopropyltoluene	11.79	119	153881	20.7024	ppb	97
94) Benzyl Chloride	11.96	91	33895	17.2094	ppb	95
95) 1,3-DCB	11.71	146	97238	18.7323	ppb	96
96) 1,4-DCB	11.81	146	102238	18.0917	ppb	98
97) n-Butylbenzene	12.23	91	107859	19.6851	ppb	98
98) 1,2-DCB	12.20	146	93403	17.7848	ppb	91
99) Hexachloroethane	12.49	201	32122	17.7956	ppb	91
100) 1,2-Dibromo-3-chloropropan	13.04	75	9630	19.4664	ppb	95
101) 1,2,4-Trichlorobenzene	13.95	180	56358	17.2416	ppb	96
102) Hexachlorobutadiene	14.16	223	12678	19.0885	ppb	89
103) Naphthalene	14.21	128	103699	16.3207	ppb	99
104) 1,2,3-Trichlorobenzene	14.47	180	58923	19.6590	ppb	94

(#) = qualifier out of range (m) = manual integration
 0724L21.D L0724W.M Thu Jul 25 10:22:29 2019

Quantitation Report

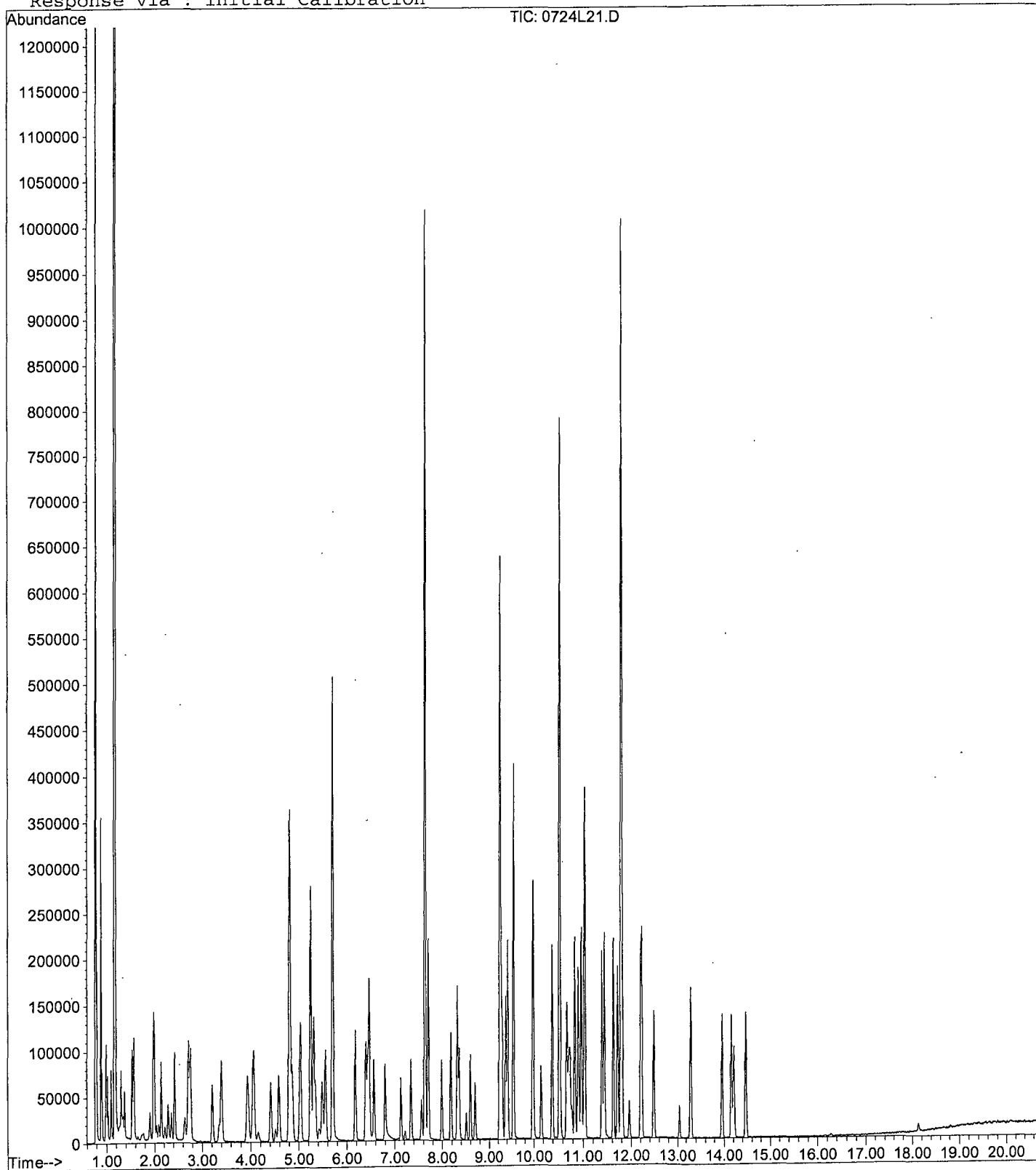
Data File : M:\LOKI\DATA\190724\0724L21.D
Acq On : 24 Jul 19 18:11
Sample : 20ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 10
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L22.D
 Acq On : 24 Jul 19 18:40
 Sample : 40ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 11
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.71	96	248128	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	215680	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	139584	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	218290	49.6680	ppb	0.00
Spiked Amount	25.000		Recovery	=	198.672%	
44) 1,2-DCA-D4 (S)	5.24	65	227070	50.3196	ppb	0.00
Spiked Amount	25.000		Recovery	=	201.280%	
65) Toluene-D8 (S)	7.63	98	728244	55.5726	ppb	0.00
Spiked Amount	25.000		Recovery	=	222.292%	
73) 4-Bromofluorobenzene(S)	10.54	95	262492	57.9337	ppb	0.00
Spiked Amount	25.000		Recovery	=	231.736%	
Target Compounds						Qvalue
2) Chlorotrifluoroethene	0.88	116	117929	149.6191	ppb	97
3) Dichlorodifluoromethane	0.91	87	23176	41.0712	ppb	93
4) Freon 114	0.99	85	67307	38.0698	ppb	96
5) Chloromethane	1.02	50	70225	42.7874	ppb	99
6) Vinyl chloride	1.09	62	77595	36.4454	ppb	100
7) 2-Chloro-1,1,1-trifluoroet	1.16	118	3982909	143.6201	ppb	99
8) Bromomethane	1.30	94	39041	31.7310	ppb	100
9) Chloroethane	1.37	64	47097	43.8680	ppb	96
10) Dichlorofluoromethane	1.53	67	137648	38.4838	ppb	98
11) Trichlorofluoromethane	1.56	103	87361	37.3835	ppb	95
13) Acrolein	1.90	56	22871	179.2825	ppb	95
14) Acetone	2.04	43	26972	41.5684	ppb	# 89
15) Freon-113	1.99	101	77647	38.3787	ppb	96
16) 1,1-DCE	1.97	96	76146	38.5744	ppb	99
17) t-Butanol	2.64	59	36238	178.5540	ppb	93
18) 2-Propanol	2.22	45	18520	144.0140	ppb	90
19) Acetonitrile	2.28	41	46844	170.8677	ppb	99
20) Methyl Acetate	2.36	43	66010	43.1988	ppb	87
21) Iodomethane	2.09	142	52352	41.4151	ppb	# 95
22) Acrylonitrile	2.69	53	34466	38.1509	ppb	93
23) Methylene chloride	2.43	84	85532	36.4853	ppb	98
24) Carbon disulfide	2.14	76	202229	36.1778	ppb	97
25) Methyl t-butyl ether (MtBE)	2.75	73	229978	39.4058	ppb	98
26) Trans-1,2-DCE	2.71	96	85222	38.9268	ppb	94
27) Diisopropyl Ether	3.40	45	188014	41.4613	ppb	95
29) 1,1-DCA	3.21	63	136310	38.1885	ppb	95
30) Vinyl Acetate	3.40	45	188014	41.4613	ppb	95
31) Ethyl tert Butyl Ether	3.94	59	168813	41.7601	ppb	97
32) MEK (2-Butanone)	4.15	43	11985	37.4843	ppb	99
33) Cis-1,2-DCE	4.06	96	90133	38.5332	ppb	86
34) 2,2-Dichloropropane	4.05	77	101925	38.6066	ppb	# 93
37) Chloroform	4.59	83	149064	38.8351	ppb	95
38) Bromochloromethane	4.41	128	49971	37.7751	ppb	97
40) 1,1,1-TCA	4.79	97	130432	40.5714	ppb	98
41) Cyclohexane	4.86	41	48960	42.3973	ppb	96
42) 1,1-Dichloropropene	5.04	75	92011	42.7361	ppb	97
43) 2,2,4-Trimethylpentane	5.49	57	154948	43.1455	ppb	98
45) Carbon Tetrachloride	5.02	117	125426	40.6872	ppb	100
46) Tert Amyl Methyl Ether	5.56	73	185765	44.1719	ppb	94

(#) = qualifier out of range (m) = manual integration
 0724L22.D L0724W.M Thu Jul 25 10:22:32 2019

Data File : M:\LOKI\DATA\190724\0724L22.D
 Acq On : 24 Jul 19 18:40
 Sample : 40ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 11
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) 1,2-DCA	5.35	62	112971	39.5040	ppb	98
49) Benzene	5.31	78	293431	40.9524	ppb	95
50) TCE	6.18	130	97684	40.5124	ppb	90
51) 2-Pentanone	6.47	43	204185	179.0861	ppb	100
52) 1,2-Dichloropropane	6.44	63	74547	39.0423	ppb	99
53) Bromodichloromethane	6.80	83	120885	41.0511	ppb	97
54) Methyl Cyclohexane	6.39	83	95619	45.0485	ppb	93
55) Dibromomethane	6.57	93	59839	41.4705	ppb	97
56) 2-Chloroethyl vinyl ether	7.22	63	8548	118.9756	ppb #	89
57) MIBK (methyl isobutyl ket	7.56	43	58645	39.4571	ppb	96
58) 1-Bromo-2-chloroethane	7.13	63	111036	40.9485	ppb	99
59) Cis-1,3-Dichloropropene	7.34	75	114940	40.7858	ppb	98
60) Toluene	7.71	91	335232	43.1896	ppb	99
61) Trans-1,3-Dichloropropene	7.99	75	105062	42.3896	ppb	99
62) 1,1,2-TCA	8.18	83	64426	37.8351	ppb	92
63) 2-Hexanone	8.51	43	38798	44.1072	ppb	88
66) 1,2-EDB	8.70	107	84849	42.8036	ppb	90
67) Tetrachloroethene	8.32	166	117546	39.9853	ppb	94
68) 1-Chlorohexane	9.29	91	87535	46.9091	ppb	90
69) 1,1,1,2-Tetrachloroethane	9.37	131	99624	39.1603	ppb	99
70) m&p-Xylene	9.55	91	549349	96.3995	ppb	97
71) o-Xylene	9.97	106	132406	40.2550	ppb	98
72) Styrene	9.99	104	237053	40.0009	ppb	100
74) 1,3-Dichloropropane	8.36	76	128337	41.6656	ppb	97
75) Dibromochloromethane	8.60	129	106786	41.7267	ppb	86
76) Chlorobenzene	9.27	112	230168	41.4221	ppb	98
77) Ethylbenzene	9.41	91	350061	47.1704	ppb	99
78) Bromoform	10.16	173	81663	38.8140	ppb	97
80) Isopropylbenzene	10.39	105	197696	45.2294	ppb	99
81) 1,1,2,2-Tetrachloroethane	10.72	83	105472	36.3045	ppb	99
82) 1,2,3-Trichloropropane	10.74	110	36605	35.8039	ppb	92
83) t-1,4-Dichloro-2-Butene	10.78	53	15922	38.2849	ppb	86
84) Bromobenzene	10.68	156	113238	38.5966	ppb	98
85) n-Propylbenzene	10.84	91	380559	44.0526	ppb	97
86) 4-Ethyltoluene	10.97	105	356242	46.2114	ppb	100
87) 2-Chlorotoluene	10.90	91	145014	44.1449	ppb	100
88) 1,3,5-Trimethylbenzene	11.04	105	318200	46.5081	ppb	96
89) 4-Chlorotoluene	11.03	126	56880	43.2972	ppb	93
90) Tert-Butylbenzene	11.38	119	287510	42.1868	ppb	96
91) 1,2,4-Trimethylbenzene	11.44	105	313989	48.7095	ppb	98
92) Sec-Butylbenzene	11.63	105	363874	46.5387	ppb	99
93) p-Isopropyltoluene	11.79	119	333818	46.3517	ppb	97
94) Benzyl Chloride	11.96	91	73880	38.1541	ppb	98
95) 1,3-DCB	11.71	146	209895	41.7328	ppb	95
96) 1,4-DCB	11.81	146	219710	40.1269	ppb	98
97) n-Butylbenzene	12.23	91	250191	47.1273	ppb	97
98) 1,2-DCB	12.20	146	207639	40.8053	ppb	94
99) Hexachloroethane	12.48	201	61756	35.3109	ppb	91
100) 1,2-Dibromo-3-chloropropan	13.04	75	20965	45.3361	ppb	96
101) 1,2,4-Trichlorobenzene	13.95	180	134182	41.1397	ppb	97
102) Hexachlorobutadiene	14.16	223	26112	41.3017	ppb	85
103) Naphthalene	14.21	128	253105	38.0937	ppb	99
104) 1,2,3-Trichlorobenzene	14.47	180	141857	48.8481	ppb	98

(#) = qualifier out of range (m) = manual integration
 0724L22.D L0724W.M Thu Jul 25 10:22:33 2019

Quantitation Report

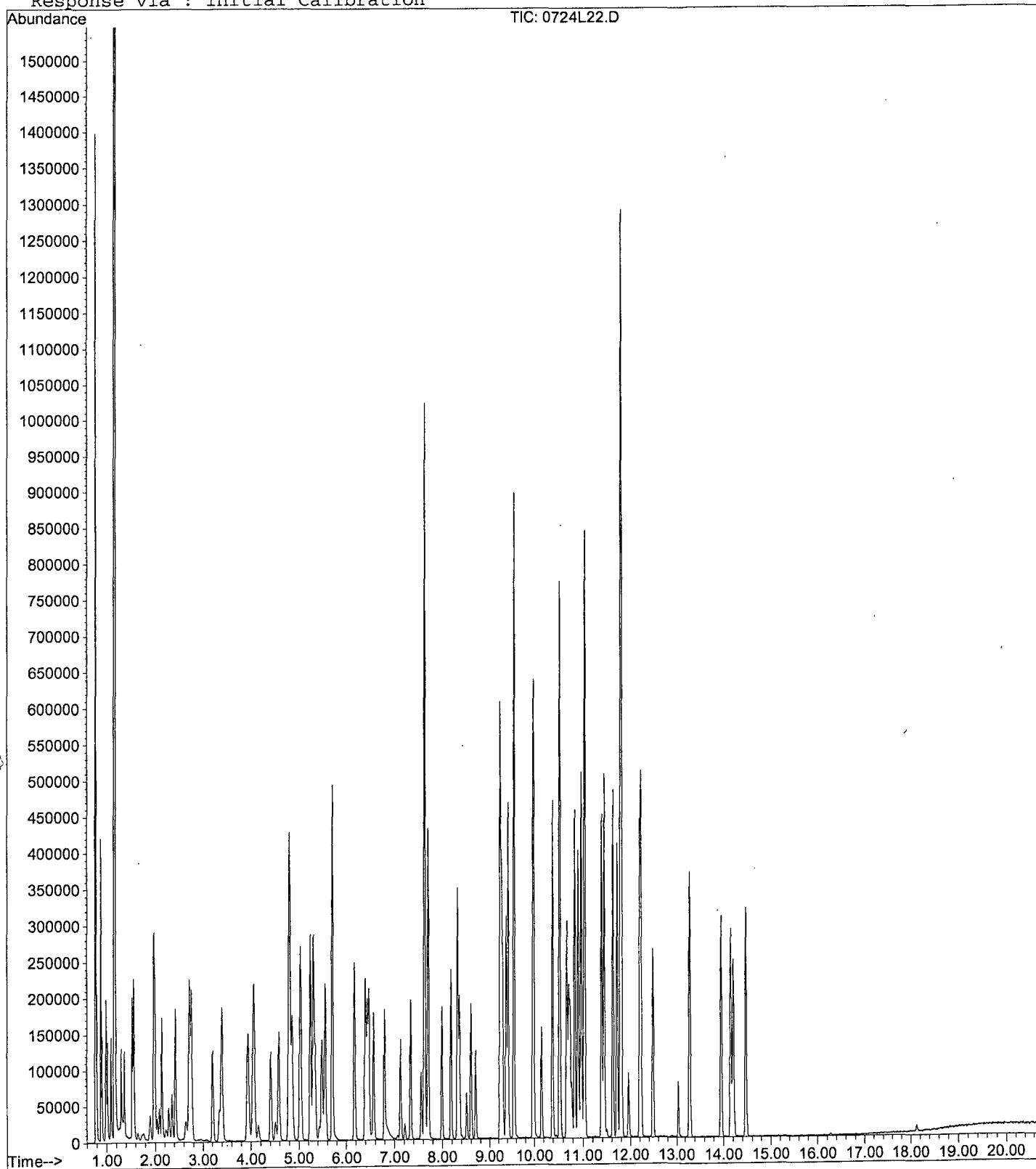
Data File : M:\LOKI\DATA\190724\0724L22.D
Acq On : 24 Jul 19 18:40
Sample : 40ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 11
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L23.D
 Acq On : 24 Jul 19 19:09
 Sample : 100ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 12
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.71	96	269568	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	231552	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	170944	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	413989	86.7039	ppb	0.00
Spiked Amount	25.000		Recovery	=	346.816%	
44) 1,2-DCA-D4(S)	5.24	65	426960	87.0907	ppb	0.00
Spiked Amount	25.000		Recovery	=	348.364%	
65) Toluene-D8(S)	7.63	98	1425773	101.3434	ppb	0.00
Spiked Amount	25.000		Recovery	=	405.372%	
73) 4-Bromofluorobenzene(S)	10.53	95	545842	112.2130	ppb	0.00
Spiked Amount	25.000		Recovery	=	448.852%	
Target Compounds						Qvalue
2) Chlorotrifluoroethene	0.88	116	124461	145.3473	ppb	97
3) Dichlorodifluoromethane	0.91	87	60173	99.4626	ppb	97
4) Freon 114	0.99	85	174989	91.1043	ppb	91
5) Chloromethane	1.02	50	171768	98.6086	ppb	99
6) Vinyl chloride	1.09	62	197255	85.2795	ppb	99
7) 2-Chloro-1,1,1-trifluoroet	1.17	118	4219360	140.0454	ppb	100
8) Bromomethane	1.30	94	96521	72.5216	ppb	100
9) Chloroethane	1.37	64	111266	98.0405	ppb	98
10) Dichlorofluoromethane	1.53	67	346902	89.2734	ppb	99
11) Trichlorofluoromethane	1.55	103	227770	89.7151	ppb	96
13) Acrolein	1.91	56	24288	175.2475	ppb	# 94
14) Acetone	2.05	43	65609	98.7665	ppb	95
15) Freon-113	1.99	101	205793	93.6276	ppb	94
16) 1,1-DCE	1.97	96	190653	88.9004	ppb	100
17) t-Butanol	2.59	59	373	-5.7538	ppb	# 73
18) 2-Propanol	2.13	45	1792	10.4130	ppb	# 45
19) Acetonitrile	2.29	41	56083	188.2975	ppb	100
20) Methyl Acetate	2.36	43	160257	98.5719	ppb	89
21) Iodomethane	2.09	142	191786	99.9012	ppb	# 90
22) Acrylonitrile	2.70	53	86848	88.4874	ppb	97
23) Methylene chloride	2.43	84	210169	82.5211	ppb	94
24) Carbon disulfide	2.13	76	522423	86.0257	ppb	98
25) Methyl t-butyl ether (MtBE)	2.76	73	608808	96.0200	ppb	98
26) Trans-1,2-DCE	2.71	96	216154	90.8799	ppb	95
27) Diisopropyl Ether	3.40	45	503139	102.1289	ppb	96
29) 1,1-DCA	3.21	63	342593	88.3467	ppb	96
30) Vinyl Acetate	3.40	45	503139	102.1289	ppb	96
31) Ethyl tert Butyl Ether	3.95	59	492559	112.1558	ppb	95
32) MEK (2-Butanone)	4.16	43	30121	86.7139	ppb	97
33) Cis-1,2-DCE	4.07	96	231300	91.0195	ppb	85
34) 2,2-Dichloropropane	4.05	77	256295	89.3569	ppb	# 90
37) Chloroform	4.59	83	380530	91.2532	ppb	90
38) Bromochloromethane	4.42	128	112648	78.3823	ppb	93
40) 1,1,1-TCA	4.80	97	334730	95.8380	ppb	98
41) Cyclohexane	4.86	41	133027	106.0337	ppb	95
42) 1,1-Dichloropropene	5.04	75	251836	107.6665	ppb	96
43) 2,2,4-Trimethylpentane	5.49	57	443333	113.6285	ppb	92
45) Carbon Tetrachloride	5.02	117	321453	95.9832	ppb	95
46) Tert Amyl Methyl Ether	5.56	73	499000	109.2170	ppb	# 89

(#) = qualifier out of range (m) = manual integration
 0724L23.D L0724W.M Thu Jul 25 10:22:36 2019

Data File : M:\LOKI\DATA\190724\0724L23.D
 Acq On : 24 Jul 19 19:09
 Sample : 100ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 12
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) 1,2-DCA	5.35	62	291893	93.9518	ppb	97
49) Benzene	5.31	78	767828	98.6381	ppb	97
50) TCE	6.18	130	247437	94.4575	ppb	91
51) 2-Pentanone	6.47	43	247069	199.4637	ppb	100
52) 1,2-Dichloropropane	6.44	63	192916	92.9996	ppb	99
53) Bromodichloromethane	6.80	83	298901	93.4301	ppb	99
54) Methyl Cyclohexane	6.40	83	278438	120.7459	ppb	90
55) Dibromomethane	6.57	93	148198	94.5376	ppb	96
56) 2-Chloroethyl vinyl ether	7.22	63	33651	419.8029	ppb	# 87
57) MIBK (methyl isobutyl ket	7.56	43	158544	98.1864	ppb	95
58) 1-Bromo-2-chloroethane	7.13	63	280604	95.2523	ppb	97
59) Cis-1,3-Dichloropropene	7.34	75	317300	103.6370	ppb	99
60) Toluene	7.71	91	866420	102.7470	ppb	99
61) Trans-1,3-Dichloropropene	7.99	75	281761	104.6410	ppb	96
62) 1,1,2-TCA	8.18	83	158295	85.5673	ppb	91
63) 2-Hexanone	8.51	43	110341	115.4635	ppb	96
66) 1,2-EDB	8.70	107	210675	98.9938	ppb	91
67) Tetrachloroethene	8.32	166	299298	94.8326	ppb	96
68) 1-Chlorohexane	9.29	91	250169	124.8735	ppb	91
69) 1,1,1,2-Tetrachloroethane	9.37	131	241398	88.3847	ppb	100
70) m&p-Xylene	9.55	91	1462432	239.0361	ppb	98
71) o-Xylene	9.97	106	360099	100.3769	ppb	99
72) Styrene	9.99	104	653398	100.5566	ppb	99
74) 1,3-Dichloropropane	8.36	76	324800	98.2207	ppb	99
75) Dibromochloromethane	8.60	129	267289	97.2840	ppb	88
76) Chlorobenzene	9.26	112	589039	98.7400	ppb	98
77) Ethylbenzene	9.41	91	927210	116.3765	ppb	99
78) Bromoform	10.16	173	220438	97.5912	ppb	96
80) Isopropylbenzene	10.39	105	550336	102.8094	ppb	99
81) 1,1,2,2-Tetrachloroethane	10.72	83	290526	81.6564	ppb	97
82) 1,2,3-Trichloropropane	10.74	110	100627	80.3686	ppb	87
83) t-1,4-Dichloro-2-Butene	10.78	53	52078	100.8867	ppb	81
84) Bromobenzene	10.68	156	303682	84.5197	ppb	96
85) n-Propylbenzene	10.84	91	1065164	100.6812	ppb	99
86) 4-Ethyltoluene	10.97	105	990962	104.9646	ppb	100
87) 2-Chlorotoluene	10.90	91	394441	98.0470	ppb	99
88) 1,3,5-Trimethylbenzene	11.04	105	859777	102.6114	ppb	100
89) 4-Chlorotoluene	11.03	126	156800	97.4603	ppb	94
90) Tert-Butylbenzene	11.39	119	840762	99.8127	ppb	94
91) 1,2,4-Trimethylbenzene	11.44	105	880822	111.5756	ppb	98
92) Sec-Butylbenzene	11.62	105	1038817	108.4885	ppb	100
93) p-Isopropyltoluene	11.79	119	976489	110.7147	ppb	97
94) Benzyl Chloride	11.97	91	241655	101.1546	ppb	99
95) 1,3-DCB	11.71	146	587638	95.4040	ppb	96
96) 1,4-DCB	11.81	146	614325	91.6148	ppb	96
97) n-Butylbenzene	12.23	91	760258	116.9348	ppb	93
98) 1,2-DCB	12.21	146	582484	93.4702	ppb	95
99) Hexachloroethane	12.49	201	183032	85.4551	ppb	91
100) 1,2-Dibromo-3-chloropropan	13.04	75	54696	98.0270	ppb	83
101) 1,2,4-Trichlorobenzene	13.95	180	404804	100.1097	ppb	95
102) Hexachlorobutadiene	14.16	223	76416	99.5891	ppb	83
103) Naphthalene	14.21	128	854576	101.5306	ppb	97
104) 1,2,3-Trichlorobenzene	14.47	180	415894	116.9396	ppb	98

(#) = qualifier out of range (m) = manual integration
 0724L23.D L0724W.M Thu Jul 25 10:22:37 2019

Quantitation Report

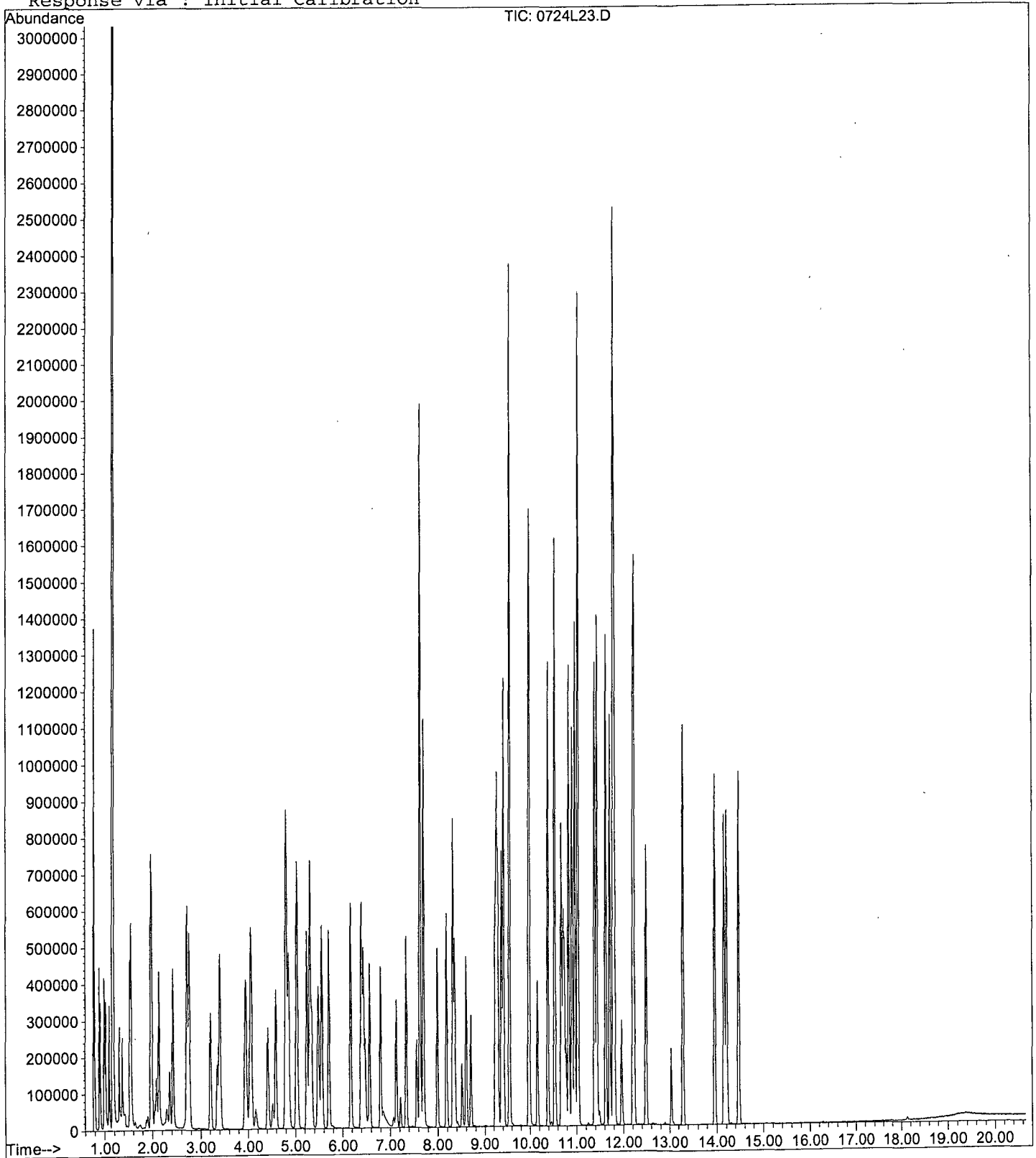
Data File : M:\LOKI\DATA\190724\0724L23.D
Acq On : 24 Jul 19 19:09
Sample : 100ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

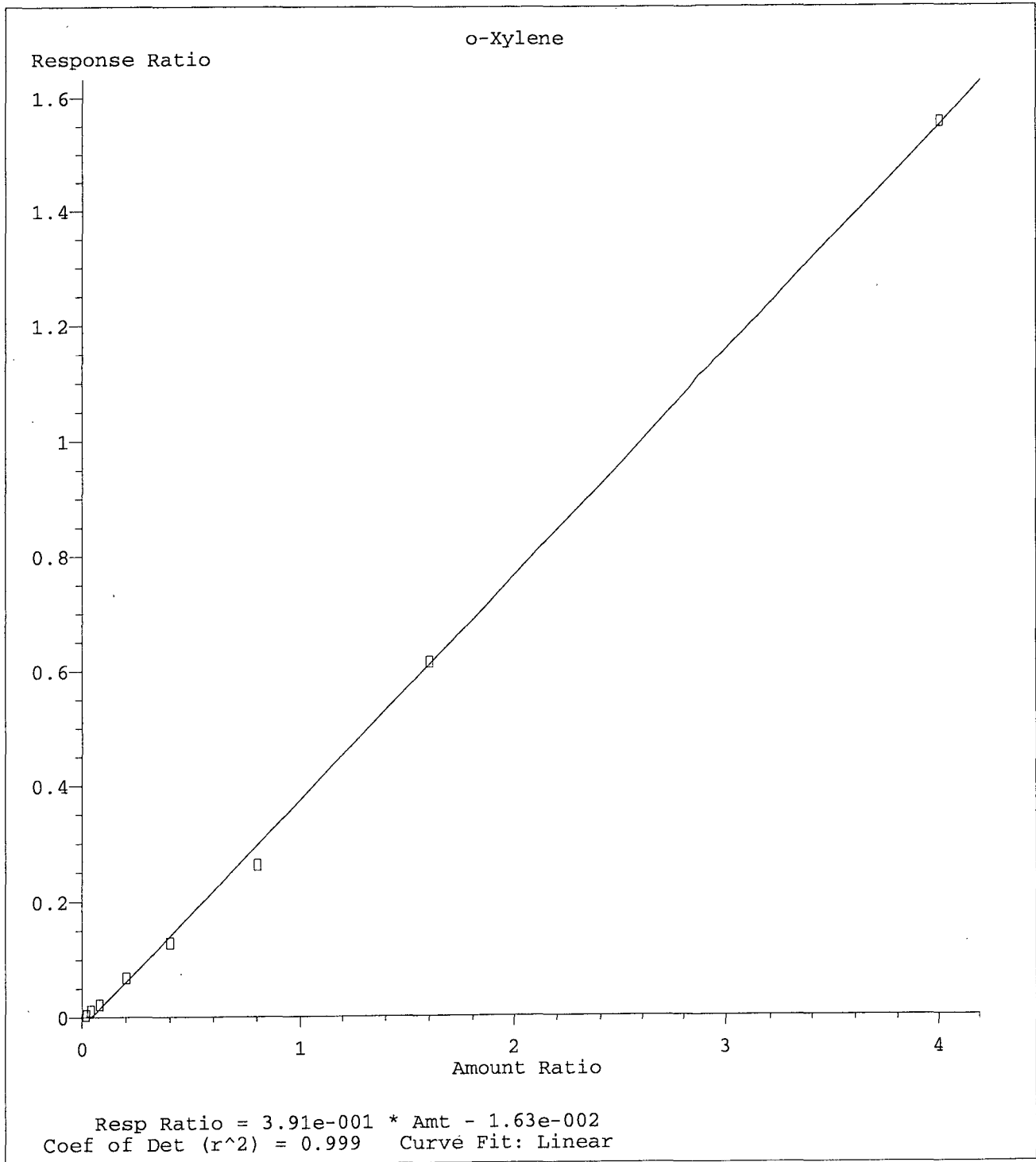
Vial: 12
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration





Method Name: M:\LOKI\DATA\190724\L0724W.M
Calibration Table Last Updated: Thu Jul 25 10:13:04 2019

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/24/19
Instrument: Loki
Initial Cal. Date: 07/24/19
Data File: 0724L26-27.D

		Compound	MEAN	CCRF	%D	%Drift
1	TM	Chlorotrifluoroethene	0.0794	0.0924	16	TM
2	TML	Dichlorodifluoromethane	0.0658	0.0623	5.2	TML 2.7
3	TM	Freon 114	0.1781	0.1750	1.7	TM
4	TM**L	Chloromethane	0.2185	0.1939	11	TM**L 4.1
5	TM*	Vinyl chloride	0.2145	0.2245	4.7	TM*
6	TM	2-Chloro-1,1,1-trifluoroethane	2.794	3.108	11	TM
7	TML	Bromomethane	0.1588	0.1458	8.2	TML 16
8	TML	Chloroethane	0.1451	0.1275	12	TML 1.4
9	TM	Dichlorofluoromethane	0.3604	0.3680	2.1	TM
10	TM	Trichlorofluoromethane	0.2355	0.2380	1.1	TM
11	TM	Diethyl ether	0.0000	0.0002	0.00	TM
12	TM	Acrolein	0.0129	0.0138	7.1	TM
13	TML	Acetone	0.1507	0.0953	37	TML 16
14	TM	Freon-113	0.2038	0.1909	6.4	TM
15	TM*	1,1-DCE	0.1989	0.1887	5.1	TM*
16	TML	t-Butanol	0.0231	0.0210	9.0	TML 0.94
17	TML	2-Propanol	0.0150	0.0142	5.1	TML 9.1
18	TM	Acetonitrile	0.0276	0.0280	1.4	TM
19	TML	Methyl Acetate	0.1950	0.1750	10	TML 1.5
20	TMQ	Iodomethane	0.0797	0.0515	35	TMQ 33 * NT
21	TM	Acrylonitrile	0.0910	0.0961	5.6	TM
22	TM	Methylene chloride	0.2362	0.2367	0.23	TM
23	TM	Carbon disulfide	0.5632	0.5660	0.50	TM
24	TM	Methyl t-butyl ether (MtBE)	0.5880	0.5977	1.6	TM
25	TM	Trans-1,2-DCE	0.2206	0.2086	5.4	TM
26	TM	Diisopropyl Ether	0.4569	0.4519	1.1	TM
27	TM**	1,1-DCA	0.3596	0.3611	0.39	TM**
28	TM	Vinyl Acetate	0.4569	0.4519	1.1	TM
29	TM	Ethyl tert Butyl Ether	0.4073	0.4206	3.3	TM
30	TM	MEK (2-Butanone)	0.0322	0.0328	1.9	TM
31	TM	Cis-1,2-DCE	0.2357	0.2241	4.9	TM
32	TM	2,2-Dichloropropane	0.2660	0.2335	12	TM
33	TM	3-Methylpentane	0.0000	0.1291	0.00	TM
34	TM*	Chloroform	0.3867	0.3872	0.12	TM*
35	TM	Bromochloromethane	0.1333	0.1403	5.3	TM
36	TM	1,1,1-TCA	0.3239	0.3307	2.1	TM
37	TM	Cyclohexane	0.1164	0.1168	0.37	TM
38	TM	1,1-Dichloropropene	0.2169	0.2156	0.60	TM
39	TM	2,2,4-Trimethylpentane	0.3618	0.3338	7.7	TM
40	TM	Carbon Tetrachloride	0.3106	0.3066	1.3	TM

Average

6.1

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 07/24/19
Instrument: Loki
Cal. Date: 07/24/19
Data File: 0724L26-27.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	Tert Amyl Methyl Ether	0.4237	0.4195	1.0	TM
42	TM	Methylcyclopentane	0.0000	0.0379	0.00	TM
43	TM	1,2-DCA	0.2881	0.2978	3.4	TM
44	TM	Benzene	0.7219	0.7647	5.9	TM
45	TM	TCE	0.2429	0.2614	7.6	TM
46	TM	2-Pentanone	0.1149	0.1226	6.7	TM
47	TM*	1,2-Dichloropropane	0.1924	0.1786	7.1	TM*
48	TM	Bromodichloromethane	0.2967	0.3050	2.8	TM
49	TM	Methyl Cyclohexane	0.2139	0.2078	2.8	TM
50	TM	Dibromomethane	0.1454	0.1567	7.8	TM
51	TML	2-Chloroethyl vinyl ether	0.0055	0.0039	29	TML 34 *
52	TM	MIBK (methyl isobutyl ketone)	0.1498	0.1638	9.4	TM
53	TM	1-Bromo-2-chloroethane	0.2732	0.2915	6.7	TM
54	TM	Cis-1,3-Dichloropropene	0.2839	0.2694	5.1	TM
55	TM*	Toluene	0.7820	0.8278	5.8	TM*
56	TM	Trans-1,3-Dichloropropene	0.2497	0.2609	4.5	TM
57	TM	1,1,2-TCA	0.1716	0.1787	4.2	TM
58	TM	2-Hexanone	0.0886	0.0984	11	TM
59	TM	1,2-EDB	0.2298	0.2346	2.1	TM
60	TM	Tetrachloroethene	0.3408	0.3302	3.1	TM
61	TM	1-Chlorohexane	0.2163	0.2179	0.76	TM
62	TM	1,1,1,2-Tetrachloroethane	0.2949	0.2892	1.9	TM
63	TM	m&p-Xylene	0.6605	0.6594	0.18	TM
64	TML	o-Xylene	0.3115	0.3323	6.7	TML 4.7
65	TML	Styrene	0.5372	0.5614	4.5	TML 7.4
66	TM	1,3-Dichloropropane	0.3570	0.3554	0.46	TM
67	TM	Dibromochloromethane	0.2966	0.2891	2.6	TM
68	TM**	Chlorobenzene	0.6441	0.6618	2.8	TM**
69	TM*	Ethylbenzene	0.8602	0.8740	1.6	TM*
70	TM**	Bromoform	0.2439	0.2472	1.4	TM**
71	TM	Isopropylbenzene	0.7829	0.8003	2.2	TM
72	TM**	1,1,2,2-Tetrachloroethane	0.5203	0.4981	4.3	TM**
73	TM	1,2,3-Trichloropropane	0.1831	0.1824	0.39	TM
74	TML	t-1,4-Dichloro-2-Butene	0.0571	0.0782	37	TML 11
75	TM	Bromobenzene	0.5255	0.5343	1.7	TM
76	TM	n-Propylbenzene	1.547	1.582	2.2	TM
77	TM	4-Ethyltoluene	1.381	1.378	0.20	TM
78	TM	2-Chlorotoluene	0.5883	0.6501	10	TM
79	TM	1,3,5-Trimethylbenzene	1.225	1.291	5.4	TM
80	TM	4-Chlorotoluene	0.2353	0.2642	12	TM
	TML	Tert-Butylbenzene	1.075	1.237	15	TML 6.4
		Average			5.8	

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 07/24/19
Instrument: Loki
Cal. Date: 07/24/19

81		Compound	MEAN	CCRF	%D	%Drift
82	TM	1,2,4-Trimethylbenzene	1.155	1.186	2.8	TM
83	TM	Sec-Butylbenzene	1.400	1.500	7.1	TM
84	TM	p-Isopropyltoluene	1.290	1.372	6.4	TM
85	TML	Benzyl Chloride	0.3786	0.3090	18	TML 7.5
86	TM	1,3-DCB	0.9008	0.9446	4.9	TM
87	TM	1,4-DCB	0.9807	1.002	2.2	TM
88	TM	n-Butylbenzene	0.9508	0.9513	0.04	TM
89	TM	1,2-DCB	0.9114	0.8974	1.5	TM
90	TM	Hexachloroethane	0.3132	0.3032	3.2	TM
91	TML	1,2-Dibromo-3-chloropropane	0.0944	0.0892	5.5	TML 2.0
92	TML	1,2,4-Trichlorobenzene	0.4994	0.5171	3.5	TML 4.9
93	TML	Hexachlorobutadiene	0.1369	0.1100	20	TML 7.7
94	TML	Naphthalene	0.9257	0.9062	2.1	TML 7.9
95	TM	1,2,3-Trichlorobenzene	0.5201	0.5195	0.12	TM
96						
97						
98						
99						
100						
101						
102						
103						
104						
105						
106						
107						
108						
109						
110						
111						
112						
113						
114						
115						
116						
117						
118						
119						
120						
Average					5.5	

Data File : M:\LOKI\DATA\190724\0724L26.D
 Acq On : 24 Jul 19 20:36
 Sample : SS 10ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 15
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:24 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	236544	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	223360	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	127400	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Dibromofluoromethane(S)	4.81	111	104177	24.8644	ppb	0.00
Spiked Amount 25.000			Recovery =	99.456%		
44) 1,2-DCA-D4(S)	5.24	65	107852	25.0709	ppb	0.00
Spiked Amount 25.000			Recovery =	100.284%		
65) Toluene-D8(S)	7.63	98	337135	24.8423	ppb	0.00
Spiked Amount 25.000			Recovery =	99.368%		
73) 4-Bromofluorobenzene(S)	10.54	95	124246	26.4790	ppb	0.00
Spiked Amount 25.000			Recovery =	105.916%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chlorotrifluoroethene	0.89	116	87456	116.3911	ppb	98
3) Dichlorodifluoromethane	0.91	87	5897	10.2718	ppb	95
4) Freon 114	0.99	85	16562	9.8265	ppb	99
5) Chloromethane	1.02	50	18351	10.4086	ppb	93
6) Vinyl chloride	1.09	62	21243	10.4662	ppb	92
7) 2-Chloro-1,1,1-trifluoroet	1.17	118	2940538	111.2258	ppb	100
8) Bromomethane	1.30	94	13799	11.6104	ppb	94
9) Chloroethane	1.38	64	12064	10.1400	ppb	95
10) Dichlorofluoromethane	1.54	67	34823	10.2126	ppb	99
11) Trichlorofluoromethane	1.57	103	22523	10.1100	ppb	95
13) Acrolein	1.90	56	16276	133.8333	ppb	89
14) Acetone	2.04	43	9014	11.5878	ppb	# 81
15) Freon-113	2.00	101	18062	9.3647	ppb	93
16) 1,1-DCE	1.98	96	17857	9.4891	ppb	97
17) t-Butanol	2.63	59	24821	126.1727	ppb	98
18) 2-Propanol	2.21	45	13456	109.1297	ppb	91
19) Acetonitrile	2.28	41	33116	126.7091	ppb	98
20) Methyl Acetate	2.36	43	16560	10.1526	ppb	# 73
21) Iodomethane	2.09	142	4870	6.6748	ppb	# 92
22) Acrylonitrile	2.69	53	9094	10.5592	ppb	92
23) Methylene chloride	2.43	84	22399	10.0226	ppb	95
24) Carbon disulfide	2.14	76	53553	10.0495	ppb	100
25) Methyl t-butyl ether (MtBE)	2.75	73	56549	10.1640	ppb	97
26) Trans-1,2-DCE	2.72	96	19738	9.4572	ppb	89
27) Diisopropyl Ether	3.40	45	42756	9.8904	ppb	94
29) 1,1-DCA	3.21	63	34162	10.0395	ppb	97
30) Vinyl Acetate	3.40	45	42756	9.8904	ppb	94
31) Ethyl tert Butyl Ether	3.94	59	39794	10.3261	ppb	99
32) MEK (2-Butanone)	4.16	43	3106	10.1901	ppb	94
33) Cis-1,2-DCE	4.07	96	21203	9.5085	ppb	91
34) 2,2-Dichloropropane	4.05	77	22095	8.7789	ppb	# 91
37) Chloroform	4.59	83	36637	10.0123	ppb	94
38) Bromochloromethane	4.42	128	13274	10.5257	ppb	90
40) 1,1,1-TCA	4.80	97	31291	10.2098	ppb	97
41) Cyclohexane	4.87	41	11049	10.0365	ppb	84
42) 1,1-Dichloropropene	5.04	75	20401	9.9396	ppb	97
43) 2,2,4-Trimethylpentane	5.49	57	31588	9.2265	ppb	98
45) Carbon Tetrachloride	5.03	117	29011	9.8718	ppb	99
46) Tert Amyl Methyl Ether	5.55	73	39689	9.8996	ppb	93

(#) = qualifier out of range (m) = manual integration
 0724L26.D L0724W.M Thu Jul 25 10:24:23 2019

Data File : M:\LOKI\DATA\190724\0724L26.D
 Acq On : 24 Jul 19 20:36
 Sample : SS 10ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 15
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:24 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) 1,2-DCA	5.35	62	28181	10.3370	ppb	92
49) Benzene	5.30	78	72356	10.5928	ppb	100
50) TCE	6.18	130	24736	10.7611	ppb #	88
51) 2-Pentanone	6.47	43	144983	133.3887	ppb	99
52) 1,2-Dichloropropane	6.43	63	16903	9.2861	ppb	98
53) Bromodichloromethane	6.80	83	28858	10.2797	ppb #	99
54) Methyl Cyclohexane	6.40	83	19659	9.7154	ppb	93
55) Dibromomethane	6.57	93	14822	10.7752	ppb	97
57) MIBK (methyl isobutyl ket	7.56	43	15498	10.9379	ppb	94
58) 1-Bromo-2-chloroethane	7.13	63	27585	10.6711	ppb	90
59) Cis-1,3-Dichloropropene	7.34	75	25491	9.4883	ppb	100
60) Toluene	7.71	91	78321	10.5846	ppb	98
61) Trans-1,3-Dichloropropene	7.99	75	24686	10.4479	ppb	100
62) 1,1,2-TCA	8.18	83	16909	10.4163	ppb	98
63) 2-Hexanone	8.51	43	9314	11.1071	ppb	95
66) 1,2-EDB	8.70	107	20959	10.2096	ppb	95
67) Tetrachloroethene	8.32	166	29501	9.6902	ppb	97
68) 1-Chlorohexane	9.29	91	19471	10.0755	ppb	94
69) 1,1,1,2-Tetrachloroethane	9.37	131	25839	9.8076	ppb	95
70) m&p-Xylene	9.55	91	117821	19.9643	ppb	96
71) o-Xylene	9.97	106	29687	9.5322	ppb	92
72) Styrene	9.99	104	50161	9.2605	ppb	96
74) 1,3-Dichloropropane	8.36	76	31752	9.9541	ppb	100
75) Dibromochloromethane	8.60	129	25826	9.7445	ppb	77
76) Chlorobenzene	9.27	112	59132	10.2758	ppb	95
77) Ethylbenzene	9.41	91	78085	10.1601	ppb	98
78) Bromoform	10.16	173	22085	10.1360	ppb	98
80) Isopropylbenzene	10.39	105	40784	10.2230	ppb	99
81) 1,1,2,2-Tetrachloroethane	10.72	83	25383	9.5727	ppb	94
82) 1,2,3-Trichloropropane	10.74	110	9295	9.9611	ppb #	76
83) t-1,4-Dichloro-2-Butene	10.77	53	3984	11.0883	ppb	95
84) Bromobenzene	10.68	156	27229	10.1685	ppb	95
85) n-Propylbenzene	10.84	91	80603	10.2227	ppb	95
86) 4-Ethyltoluene	10.97	105	70221	9.9802	ppb	99
87) 2-Chlorotoluene	10.90	91	33128	11.0492	ppb	98
88) 1,3,5-Trimethylbenzene	11.04	105	65794	10.5361	ppb	96
89) 4-Chlorotoluene	11.03	126	13463	11.2281	ppb	86
90) Tert-Butylbenzene	11.39	119	63036	10.6387	ppb	94
91) 1,2,4-Trimethylbenzene	11.44	105	60454	10.2752	ppb	98
92) Sec-Butylbenzene	11.63	105	76420	10.7087	ppb	98
93) p-Isopropyltoluene	11.79	119	69928	10.6383	ppb	97
94) Benzyl Chloride	11.96	91	15745	9.2528	ppb	96
95) 1,3-DCB	11.72	146	48137	10.4863	ppb	94
96) 1,4-DCB	11.81	146	51067	10.2186	ppb	98
97) n-Butylbenzene	12.23	91	48476	10.0045	ppb	99
98) 1,2-DCB	12.20	146	45730	9.8463	ppb	96
99) Hexachloroethane	12.49	201	15450	9.6789	ppb	97
100) 1,2-Dibromo-3-chloropropan	13.04	75	4547	9.7970	ppb	90
101) 1,2,4-Trichlorobenzene	13.95	180	26351	9.5131	ppb	92
102) Hexachlorobutadiene	14.16	223	5608	9.2264	ppb #	81
103) Naphthalene	14.21	128	46179	9.2054	ppb	96
104) 1,2,3-Trichlorobenzene	14.48	180	26473	9.9877	ppb	98

(#) = qualifier out of range (m) = manual integration
 0724L26.D L0724W.M Thu Jul 25 10:24:24 2019

Quantitation Report

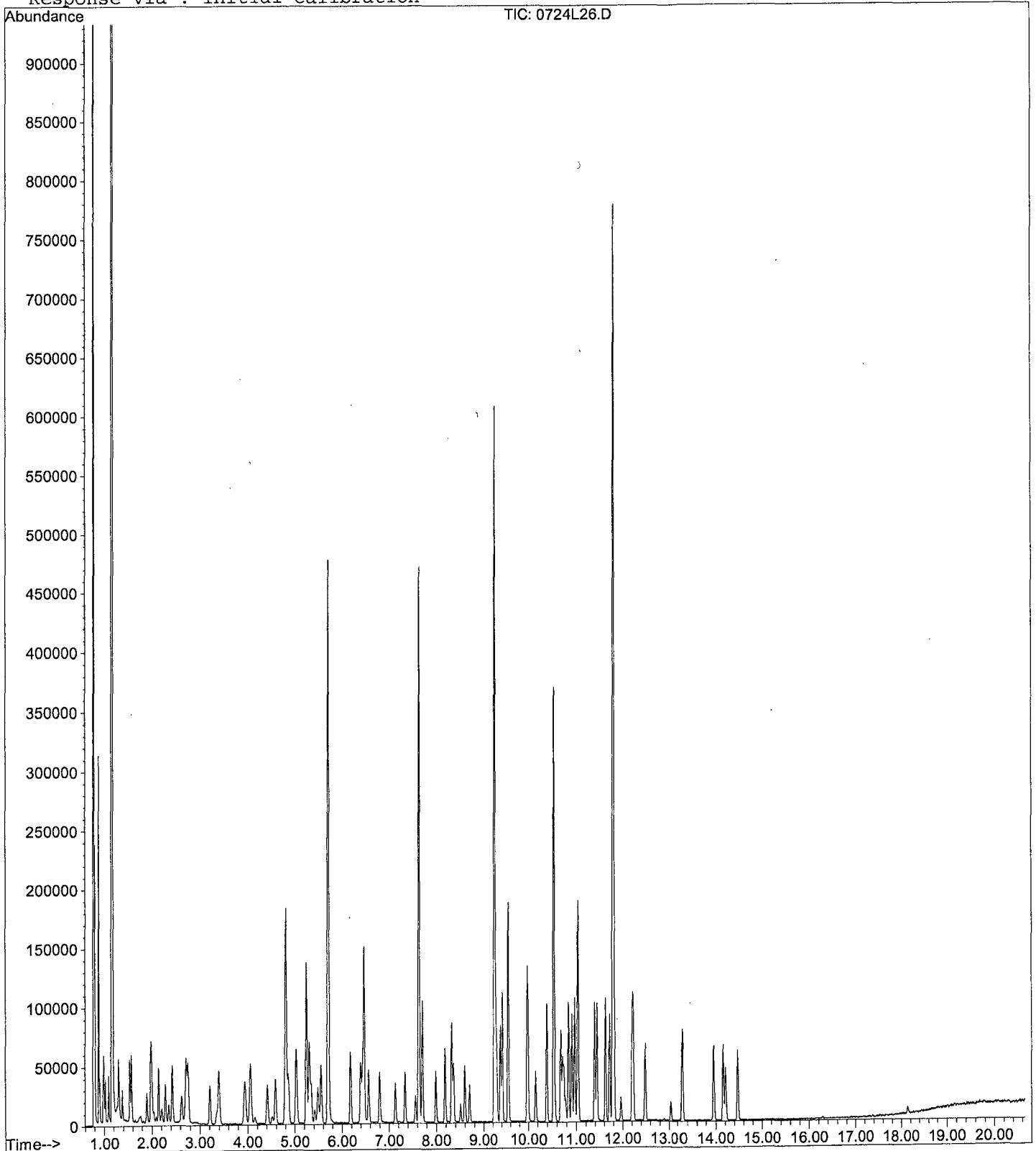
Data File : M:\LOKI\DATA\190724\0724L26.D
Acq On : 24 Jul 19 20:36
Sample : SS 10ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 15
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:24 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L27.D
 Acq On : 24 Jul 19 21:04
 Sample : SS 30ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 16
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:24 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	250176	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	234688	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	117704	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	108036	24.3804	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.520%	
44) 1,2-DCA-D4(S)	5.25	65	108295	23.8021	ppb	0.00
Spiked Amount	25.000		Recovery	=	95.208%	
65) Toluene-D8(S)	7.63	98	321376	22.5380	ppb	0.00
Spiked Amount	25.000		Recovery	=	90.152%	
73) 4-Bromofluorobenzene(S)	10.54	95	104779	21.2524	ppb	0.00
Spiked Amount	25.000		Recovery	=	85.008%	
Target Compounds						
56) 2-Chloroethyl vinyl ether	7.22	63	1162	19.7731	ppb	Qvalue # 89

Quantitation Report

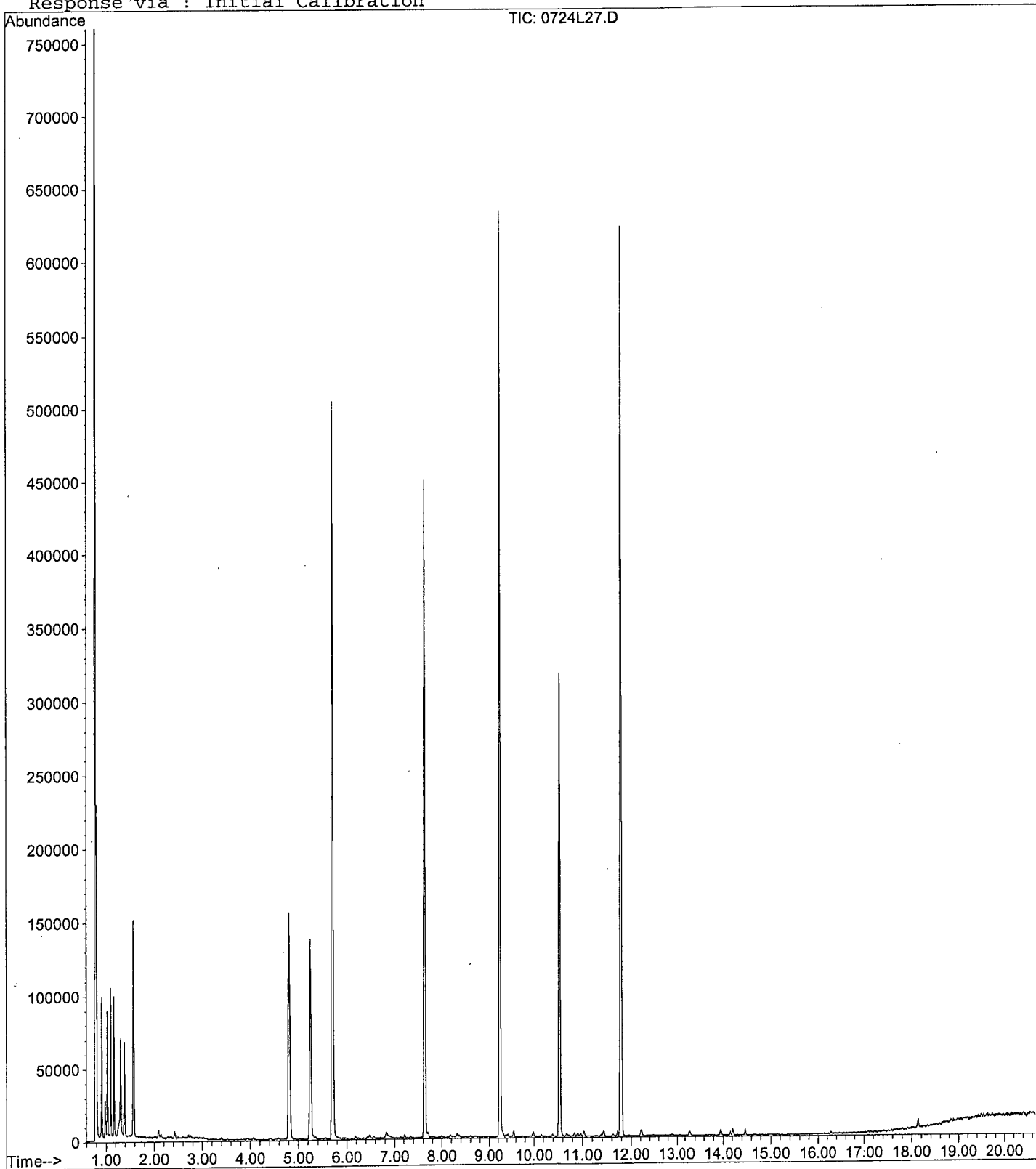
Data File : M:\LOKI\DATA\190724\0724L27.D
Acq On : 24 Jul 19 21:04
Sample : SS 30ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 16
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:24 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/27/19
Instrument: Loki
Initial Cal. Date: 07/24/19
Data File: 0727L20.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	TML	Dichlorodifluoromethane	0.0658	0.0727	11	TML	21 * NT
3	TM	Freon 114	0.1781	0.1699	4.6	TM	
4	TM**L	Chloromethane	0.2185	0.1928	12	TM**L	3.3
5	TM*	Vinyl chloride	0.2145	0.2208	3.0	TM*	
6	TM	2-Chloro-1,1,1-trifluoroethane	2.794	0.0001	100	TM	* NT
7	TML	Bromomethane	0.1588	0.1697	6.8	TML	36 * NT
8	TML	Chloroethane	0.1451	0.1209	17	TML	5.0
9	TM	Dichlorofluoromethane	0.3604	0.3151	13	TM	
10	TM	Trichlorofluoromethane	0.2355	0.2527	7.3	TM	
11	TM	Acrolein	0.0129	0.0113	12	TM	
12	TML	Acetone	0.1507	0.0885	41	TML	4.3
13	TM	Freon-113	0.2038	0.1943	4.7	TM	
14	TM*	1,1-DCE	0.1989	0.2081	4.6	TM*	
15	TML	t-Butanol	0.0231	0.0195	15	TML	6.5
16	TML	2-Propanol	0.0150	0.0003	98	TML	100 * NT
17	TM	Acetonitrile	0.0276	0.0226	18	TM	
18	TML	Methyl Acetate	0.1950	0.1346	31	TML	26 * NT
19	TMQ	Iodomethane	0.0797	0.0548	31	TMQ	30 * NT
20	TM	Acrylonitrile	0.0910	0.0788	13	TM	
21	TM	Methylene chloride	0.2362	0.2305	2.4	TM	
22	TM	Carbon disulfide	0.5632	0.5039	11	TM	
23	TM	Methyl t-butyl ether (MtBE)	0.5880	0.5166	12	TM	
24	TM	Trans-1,2-DCE	0.2206	0.2466	12	TM	
25	TM	Diisopropyl Ether	0.4569	0.3835	16	TM	
26	TM**	1,1-DCA	0.3596	0.3626	0.83	TM**	
27	TM	Vinyl Acetate	0.4569	0.3835	16	TM	
28	TM	Ethyl tert Butyl Ether	0.4073	0.3514	14	TM	
29	TM	MEK (2-Butanone)	0.0322	0.0333	3.3	TM	
30	TM	Cis-1,2-DCE	0.2357	0.2402	1.9	TM	
31	TM	2,2-Dichloropropane	0.2660	0.2620	1.5	TM	
32	TM	3-Methylpentane	0.0000	0.1066	0.00	TM	
33	TM*	Chloroform	0.3867	0.4198	8.6	TM*	
34	TM	Bromochloromethane	0.1333	0.1663	25	TM	* NT
35	S	Dibromofluoromethane(S)	0.4428	0.4588	3.6	S	
36	TM	1,1,1-TCA	0.3239	0.3758	16	TM	
37	TM	Cyclohexane	0.1164	0.0986	15	TM	
38	TM	1,1-Dichloropropene	0.2169	0.2296	5.8	TM	
39	TM	2,2,4-Trimethylpentane	0.3618	0.3161	13	TM	
40	S	1,2-DCA-D4(S)	0.4547	0.4594	1.0	S	

Average

15.9

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 07/27/19

Matrix: 0

Instrument: Loki

Cal. Date: 07/24/19

Data File: 0727L20.D

		Compound	MEAN	CCRF	%D	%Drift	
41	TM	Carbon Tetrachloride	0.3106	0.3691	19	TM	
42	TM	Tert Amyl Methyl Ether	0.4237	0.3877	8.5	TM	
43	TM	Methylcyclopentane	0.0000	0.0330	0.00	TM	
44	TM	1,2-DCA	0.2881	0.3309	15	TM	
45	TM	Benzene	0.7219	0.8240	14	TM	
46	TM	TCE	0.2429	0.3132	29	TM	* NT
47	TM	2-Pentanone	0.1149	0.1151	0.18	TM	
48	TM*	1,2-Dichloropropane	0.1924	0.2015	4.8	TM*	
49	TM	Bromodichloromethane	0.2967	0.3395	14	TM	
50	TM	Methyl Cyclohexane	0.2139	0.1983	7.3	TM	
51	TM	Dibromomethane	0.1454	0.1825	26	TM	* NT
52	TML	2-Chloroethyl vinyl ether	0.0055	0.0007	88	TML	77 * NT
53	TM	MIBK (methyl isobutyl ketone)	0.1498	0.1646	9.9	TM	
54	TM	1-Bromo-2-chloroethane	0.2732	0.2572	5.9	TM	
55	TM	Cis-1,3-Dichloropropene	0.2839	0.2834	0.18	TM	
56	TM*	Toluene	0.7820	0.9242	18	TM*	
57	TM	Trans-1,3-Dichloropropene	0.2497	0.2472	1.0	TM	
58	TM	1,1,2-TCA	0.1716	0.1741	1.4	TM	
59	TM	2-Hexanone	0.0886	0.0976	10	TM	
60	I	Chlorobenzene-D5 (IS)	ISTD			I	
61	S	Toluene-D8(S)	1.519	1.476	2.8	S	
62	TM	1,2-EDB	0.2298	0.2673	16	TM	
63	TM	Tetrachloroethene	0.3408	0.3767	11	TM	
64	TM	1-Chlorohexane	0.2163	0.1787	17	TM	
65	TM	1,1,1,2-Tetrachloroethane	0.2949	0.3185	8.0	TM	
66	TM	m&p-Xylene	0.6605	0.7367	12	TM	
67	TML	o-Xylene	0.3115	0.3556	14	TML	1.3
68	TML	Styrene	0.5372	0.5770	7.4	TML	5.2
69	S	4-Bromofluorobenzene(S)	0.5252	0.5518	5.1	S	
70	TM	1,3-Dichloropropane	0.3570	0.3512	1.6	TM	
71	TM	Dibromochloromethane	0.2966	0.3435	16	TM	
72	TM**	Chlorobenzene	0.6441	0.7422	15	TM**	
73	TM*	Ethylbenzene	0.8602	0.9086	5.6	TM*	
74	TM**	Bromoform	0.2439	0.2682	10.0	TM**	
75	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
76	TM	Isopropylbenzene	0.7829	0.8431	7.7	TM	
77	TM**	1,1,2,2-Tetrachloroethane	0.5203	0.4934	5.2	TM**	
78	TM	1,2,3-Trichloropropane	0.1831	0.2017	10	TM	
79	TML	t-1,4-Dichloro-2-Butene	0.0571	0.0533	6.6	TML	22 * NT
80	TM	Bromobenzene	0.5255	0.5962	13	TM	

Average

12.0

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 07/27/19
Instrument: Loki
Cal. Date: 07/24/19
Data File: 0727L20.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	n-Propylbenzene	1.547	1.667	7.8	TM
82	TM	4-Ethyltoluene	1.381	1.321	4.3	TM
83	TM	2-Chlorotoluene	0.5883	0.6337	7.7	TM
84	TM	1,3,5-Trimethylbenzene	1.225	1.395	14	TM
85	TM	4-Chlorotoluene	0.2353	0.2672	14	TM
86	TML	Tert-Butylbenzene	1.075	1.151	7.1	TML 0.57
87	TM	1,2,4-Trimethylbenzene	1.155	1.234	6.9	TM
88	TM	Sec-Butylbenzene	1.400	1.560	11	TM
89	TM	p-Isopropyltoluene	1.290	1.432	11	TM
90	TML	Benzyl Chloride	0.3786	0.3079	19	TML 7.8
91	TM	1,3-DCB	0.9008	1.041	16	TM
92	TM	1,4-DCB	0.9807	1.124	15	TM
93	TM	n-Butylbenzene	0.9508	1.011	6.3	TM
94	TM	1,2-DCB	0.9114	1.004	10	TM
95	TM	Hexachloroethane	0.3132	0.3265	4.2	TM
96	TML	1,2-Dibromo-3-chloropropane	0.0944	0.0924	2.1	TML 1.9
97	TML	1,2,4-Trichlorobenzene	0.4994	0.5162	3.4	TML 5.0
98	TML	Hexachlorobutadiene	0.1369	0.1195	13	TML 0.75
99	TML	Naphthalene	0.9257	0.8653	6.5	TML 11
100	TM	1,2,3-Trichlorobenzene	0.5201	0.5110	1.8	TM
101						
102						
103						
104						
105						
106						
107						
108						
109						
110						
111						
112						
113						
114						
115						
116						
117						
118						
119						
120						

Average

9.1

Data File : M:\LOKI\DATA\190724\0727L20.D
 Acq On : 27 Jul 19 18:55
 Sample : 190727B CCV 10ug/L
 Misc : IS&S 7/15/19,6/5/19

Vial: 20
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:18 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	191296	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	181568	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	108024	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	87758	25.9000	ppb	0.00
Spiked Amount	25.000		Recovery	=	103.600%	
44) 1,2-DCA-D4(S)	5.24	65	87877	25.2594	ppb	0.00
Spiked Amount	25.000		Recovery	=	101.036%	
65) Toluene-D8(S)	7.63	98	268050	24.2980	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.192%	
73) 4-Bromofluorobenzene(S)	10.54	95	100191	26.2672	ppb	0.00
Spiked Amount	25.000		Recovery	=	105.068%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	0.91	87	5564	12.1411	ppb	98
4) Freon 114	0.99	85	13003	9.5397	ppb	87
5) Chloromethane	1.02	50	14750	10.3339	ppb	97
6) Vinyl chloride	1.09	62	16899	10.2953	ppb	98
8) Bromomethane	1.30	94	12986	13.5509	ppb	100
9) Chloroethane	1.38	64	9249	9.4956	ppb	88
10) Dichlorofluoromethane	1.54	67	24114	8.7447	ppb	99
11) Trichlorofluoromethane	1.57	103	19336	10.7324	ppb	86
13) Acrolein	1.90	56	10824	110.0552	ppb	# 79
14) Acetone	2.03	43	6769	10.4317	ppb	99
15) Freon-113	2.00	101	14866	9.5308	ppb	94
16) 1,1-DCE	1.98	96	15926	10.4648	ppb	92
17) t-Butanol	2.62	59	18679	116.8882	ppb	99
18) 2-Propanol	2.22	45	226	-0.3281	ppb	# 55
19) Acetonitrile	2.28	41	21634	102.3559	ppb	98
20) Methyl Acetate	2.36	43	10303	7.4301	ppb	# 83
21) Iodomethane	2.10	142	4196	6.9847	ppb	# 92
22) Acrylonitrile	2.69	53	6030	8.6577	ppb	88
23) Methylene chloride	2.43	84	17641	9.7607	ppb	88
24) Carbon disulfide	2.15	76	38558	8.9471	ppb	98
25) Methyl t-butyl ether (MtBE)	2.75	73	39526	8.7847	ppb	98
26) Trans-1,2-DCE	2.72	96	18870	11.1799	ppb	84
27) Diisopropyl Ether	3.39	45	29343	8.3932	ppb	95
29) 1,1-DCA	3.21	63	27746	10.0827	ppb	94
30) Vinyl Acetate	3.39	45	29343	8.3932	ppb	95
31) Ethyl tert Butyl Ether	3.94	59	26892	8.6288	ppb	96
32) MEK (2-Butanone)	4.15	43	2546	10.3286	ppb	99
33) Cis-1,2-DCE	4.07	96	18378	10.1911	ppb	96
34) 2,2-Dichloropropane	4.05	77	20049	9.8502	ppb	# 86
37) Chloroform	4.59	83	32126	10.8562	ppb	89
38) Bromochloromethane	4.42	128	12725	12.4771	ppb	91
40) 1,1,1-TCA	4.80	97	28755	11.6016	ppb	100
41) Cyclohexane	4.86	41	7543	8.4725	ppb	95
42) 1,1-Dichloropropene	5.04	75	17567	10.5833	ppb	92
43) 2,2,4-Trimethylpentane	5.49	57	24186	8.7354	ppb	97
45) Carbon Tetrachloride	5.02	117	28244	11.8841	ppb	96
46) Tert Amyl Methyl Ether	5.55	73	29663	9.1489	ppb	95
48) 1,2-DCA	5.35	62	25320	11.4844	ppb	96
49) Benzene	5.31	78	63050	11.4137	ppb	95

(#) = qualifier out of range (m) = manual integration
 0727L20.D L0724W.M Mon Jul 29 13:55:08 2019

Data File : M:\LOKI\DATA\190724\0727L20.D
 Acq On : 27 Jul 19 18:55
 Sample : 190727B CCV 10ug/L
 Misc : IS&S 7/15/19,6/5/19

Vial: 20
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:18 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) TCE	6.18	130	23966	12.8923	ppb	94
51) 2-Pentanone	6.46	43	110069	125.2198	ppb	94
52) 1,2-Dichloropropane	6.44	63	15421	10.4758	ppb	100
53) Bromodichloromethane	6.80	83	25975	11.4414	ppb	# 96
54) Methyl Cyclohexane	6.40	83	15171	9.2709	ppb	96
55) Dibromomethane	6.57	93	13966	12.5544	ppb	96
56) 2-Chloroethyl vinyl ether	7.22	63	150	6.9237	ppb	# 5
57) MIBK (methyl isobutyl ket	7.56	43	12595	10.9916	ppb	99
58) 1-Bromo-2-chloroethane	7.13	63	19680	9.4139	ppb	99
59) Cis-1,3-Dichloropropene	7.34	75	21688	9.9822	ppb	96
60) Toluene	7.71	91	70716	11.8174	ppb	99
61) Trans-1,3-Dichloropropene	7.99	75	18914	9.8984	ppb	96
62) 1,1,2-TCA	8.18	83	13318	10.1448	ppb	82
63) 2-Hexanone	8.51	43	7466	11.0093	ppb	# 93
66) 1,2-EDB	8.70	107	19411	11.6319	ppb	86
67) Tetrachloroethene	8.32	166	27360	11.0555	ppb	94
68) 1-Chlorohexane	9.29	91	12977	8.2608	ppb	98
69) 1,1,1,2-Tetrachloroethane	9.37	131	23134	10.8020	ppb	100
70) m&p-Xylene	9.55	91	107002	22.3043	ppb	99
71) o-Xylene	9.98	106	25829	10.1290	ppb	95
72) Styrene	9.99	104	41907	9.4796	ppb	97
74) 1,3-Dichloropropane	8.36	76	25508	9.8372	ppb	93
75) Dibromochloromethane	8.60	129	24950	11.5808	ppb	93
76) Chlorobenzene	9.27	112	53903	11.5231	ppb	98
77) Ethylbenzene	9.41	91	65991	10.5628	ppb	96
78) Bromoform	10.16	173	19477	10.9965	ppb	99
80) Isopropylbenzene	10.39	105	36432	10.7701	ppb	97
81) 1,1,2,2-Tetrachloroethane	10.72	83	21320	9.4826	ppb	95
82) 1,2,3-Trichloropropane	10.74	110	8716	11.0160	ppb	92
83) t-1,4-Dichloro-2-Butene	10.78	53	2303	7.8192	ppb	# 67
84) Bromobenzene	10.68	156	25761	11.3458	ppb	96
85) n-Propylbenzene	10.84	91	72050	10.7770	ppb	99
86) 4-Ethyltoluene	10.97	105	57083	9.5681	ppb	99
87) 2-Chlorotoluene	10.91	91	27384	10.7717	ppb	95
88) 1,3,5-Trimethylbenzene	11.04	105	60265	11.3817	ppb	98
89) 4-Chlorotoluene	11.03	126	11545	11.3556	ppb	91
90) Tert-Butylbenzene	11.38	119	49723	9.9434	ppb	97
91) 1,2,4-Trimethylbenzene	11.44	105	53328	10.6898	ppb	96
92) Sec-Butylbenzene	11.63	105	67402	11.1391	ppb	99
93) p-Isopropyltoluene	11.79	119	61880	11.1025	ppb	98
94) Benzyl Chloride	11.97	91	13303	9.2215	ppb	98
95) 1,3-DCB	11.72	146	45002	11.5617	ppb	97
96) 1,4-DCB	11.81	146	48584	11.4655	ppb	97
97) n-Butylbenzene	12.23	91	43666	10.6282	ppb	95
98) 1,2-DCB	12.21	146	43399	11.0205	ppb	95
99) Hexachloroethane	12.49	201	14108	10.4234	ppb	# 79
100) 1,2-Dibromo-3-chloropropan	13.04	75	3992	10.1893	ppb	90
101) 1,2,4-Trichlorobenzene	13.95	180	22306	9.4986	ppb	96
102) Hexachlorobutadiene	14.16	223	5164	10.0751	ppb	91
103) Naphthalene	14.21	128	37391	8.8801	ppb	99
104) 1,2,3-Trichlorobenzene	14.48	180	22081	9.8250	ppb	96

(#) = qualifier out of range (m) = manual integration
 0727L20.D L0724W.M Mon Jul 29 13:55:09 2019

Quantitation Report

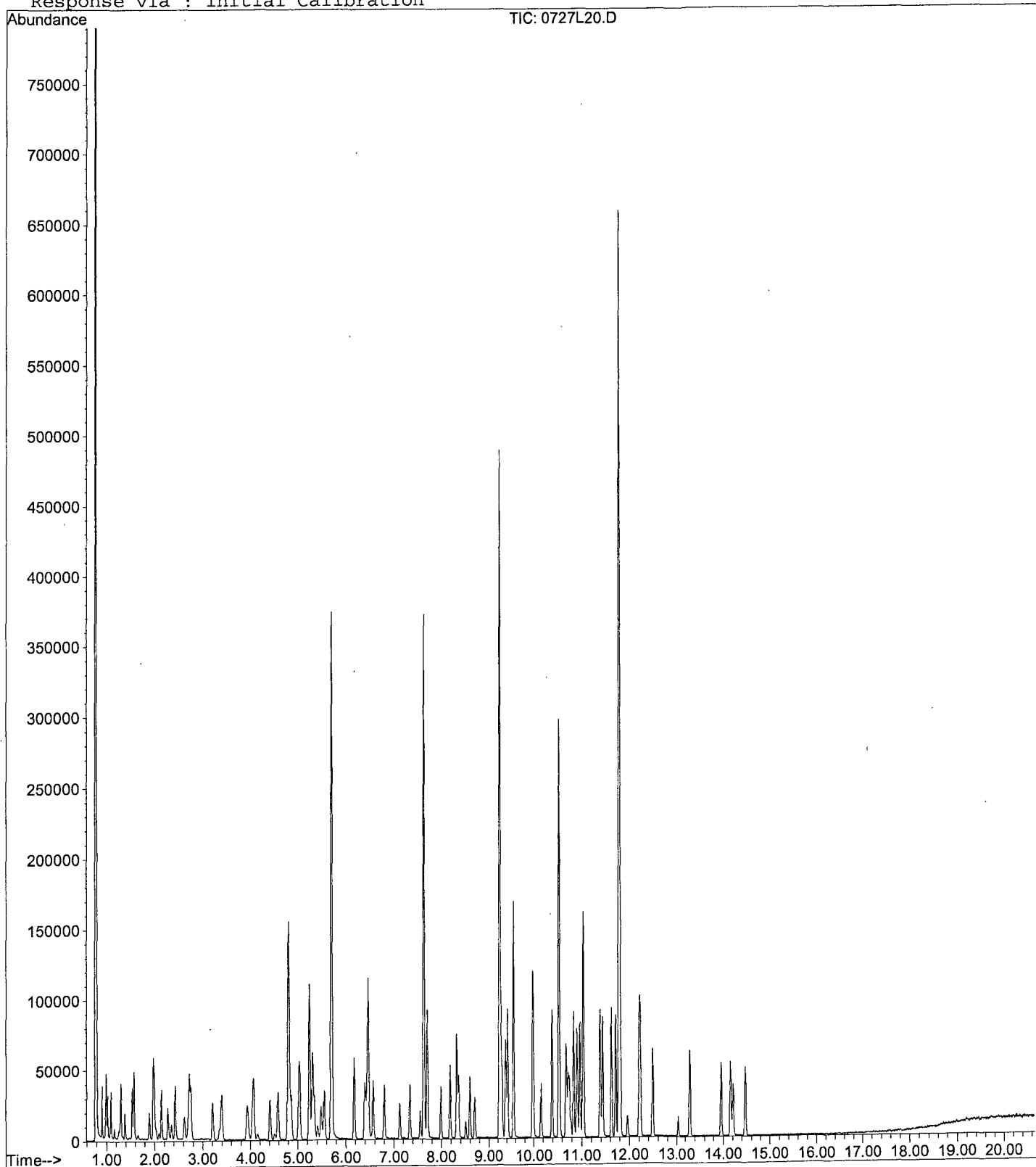
Data File : M:\LOKI\DATA\190724\0727L20.D
Acq On : 27 Jul 19 18:55
Sample : 190727B CCV 10ug/L
Misc : IS&S 7/15/19,6/5/19

Vial: 20
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:18 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/28/19
Instrument: Loki
Initial Cal. Date: 07/24/19
Data File: 0727L40.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	Fluorobenzene (IS)	ISTD			I
2	TML	Dichlorodifluoromethane	0.0658	0.0441	33	TML 30
3	TM	Freon 114	0.1781	0.1245	30	TM
4	TM**L	Chloromethane	0.2185	0.1387	37	TM**L 31
5	TM*	Vinyl chloride	0.2145	0.1660	23	TM*
6	TML	Bromomethane	0.1588	0.1342	16	TML 6.7
7	TML	Chloroethane	0.1451	0.0953	34	TML 30
8	TM	Dichlorofluoromethane	0.3604	0.2958	18	TM
9	TM	Trichlorofluoromethane	0.2355	0.1945	17	TM
10	TM	Acrolein	0.0129	0.0104	19	TM
11	TML	Acetone	0.1507	0.0751	50	TML 18
12	TM	Freon-113	0.2038	0.1660	19	TM
13	TM*	1,1-DCE	0.1989	0.1631	18	TM*
14	TML	t-Butanol	0.0231	0.0175	24	TML 17
15	TML	2-Propanol	0.0150	0.0002	99	TML 101
16	TM	Acetonitrile	0.0276	0.0201	27	TM
17	TML	Methyl Acetate	0.1950	0.1372	30	TML 24
18	TMQ	Iodomethane	0.0797	0.0505	37	TMQ 34
19	TM	Acrylonitrile	0.0910	0.0689	24	TM
20	TM	Methylene chloride	0.2362	0.2005	15	TM
21	TM	Carbon disulfide	0.5632	0.4130	27	TM
22	TM	Methyl t-butyl ether (MtBE)	0.5880	0.5013	15	TM
23	TM	Trans-1,2-DCE	0.2206	0.1888	14	TM
24	TM	Diisopropyl Ether	0.4569	0.3819	16	TM
25	TM**	2,2-Dichloro-1,1,1-trifluoroethane	0.0000	0.0002	0.00	TM**
26	TM**	1,1-DCA	0.3596	0.3027	16	TM**
27	TM	Vinyl Acetate	0.4569	0.3819	16	TM
28	TM	Ethyl tert Butyl Ether	0.4073	0.3707	9.0	TM
29	TM	MEK (2-Butanone)	0.0322	0.0301	6.5	TM
30	TM	Cis-1,2-DCE	0.2357	0.2086	11	TM
31	TM	2,2-Dichloropropane	0.2660	0.1720	35	TM
32	TM	2-Methylpentane	0.0000	0.0005	0.00	TM
33	TM	3-Methylpentane	0.0000	0.0965	0.00	TM
34	TM*	Chloroform	0.3867	0.3662	5.3	TM*
35	TM	Bromochloromethane	0.1333	0.1282	3.8	TM
36	S	Dibromofluoromethane(S)	0.4428	0.4123	6.9	S
37	TM	1,1,1-TCA	0.3239	0.3223	0.51	TM
38	TM	Cyclohexane	0.1164	0.0940	19	TM
39	TM	1,1-Dichloropropene	0.2169	0.1963	9.5	TM
40	TM	2,2,4-Trimethylpentane	0.3618	0.2601	28	TM

* NT

Average

20.7

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 07/28/19
Instrument: Loki
Cal. Date: 07/24/19
Data File: 0727L40.D

		Compound	MEAN	CCRF	%D	%Drift
41	S	1,2-DCA-D4(S)	0.4547	0.4035	11	S
42	TM	Carbon Tetrachloride	0.3106	0.3053	1.7	TM
43	TM	Tert Amyl Methyl Ether	0.4237	0.3591	15	TM
44	TM	Methylcyclopentane	0.0000	0.0363	0.00	TM
45	TM	1,2-DCA	0.2881	0.2835	1.6	TM
46	TM	Benzene	0.7219	0.6977	3.4	TM
47	TM	TCE	0.2429	0.2901	19	TM
48	TM	2-Pentanone	0.1149	0.1023	11	TM
49	TM*	1,2-Dichloropropane	0.1924	0.1738	9.7	TM*
50	TM	Bromodichloromethane	0.2967	0.2935	1.1	TM
51	TM	Methyl Cyclohexane	0.2139	0.1849	14	TM
52	TM	Dibromomethane	0.1454	0.1414	2.7	TM
53	TML	2-Chloroethyl vinyl ether	0.0055	0.0005	90	TML 78 * NT
54	TM	MIBK (methyl isobutyl ketone)	0.1498	0.1254	16	TM
55	TM	1-Bromo-2-chloroethane	0.2732	0.2552	6.6	TM
56	TM	Cis-1,3-Dichloropropene	0.2839	0.2368	17	TM
57	TM*	Toluene	0.7820	0.7733	1.1	TM*
58	TM	Trans-1,3-Dichloropropene	0.2497	0.2240	10	TM
59	TM	1,1,2-TCA	0.1716	0.1623	5.4	TM
60	TM	2-Hexanone	0.0886	0.0762	14	TM
61	I	Chlorobenzene-D5 (IS)	ISTD			I
62	S	Toluene-D8(S)	1.519	1.396	8.1	S
63	TM	1,2-EDB	0.2298	0.2245	2.3	TM
64	TM	Tetrachloroethene	0.3408	0.3179	6.7	TM
65	TM	1-Chlorohexane	0.2163	0.1918	11	TM
66	TM	1,1,1,2-Tetrachloroethane	0.2949	0.2890	2.0	TM
67	TM	m&p-Xylene	0.6605	0.6217	5.9	TM
68	TML	o-Xylene	0.3115	0.3068	1.5	TML 11
69	TML	Styrene	0.5372	0.5049	6.0	TML 15
70	S	4-Bromofluorobenzene(S)	0.5252	0.4975	5.3	S
71	TM	1,3-Dichloropropane	0.3570	0.3312	7.2	TM
72	TM	Dibromochloromethane	0.2966	0.2901	2.2	TM
73	TM**	Chlorobenzene	0.6441	0.6463	0.35	TM**
74	TM*	Ethylbenzene	0.8602	0.8007	6.9	TM*
75	TM**	Bromoform	0.2439	0.2356	3.4	TM**
76	I	1,4-Dichlorobenzene-D (IS)	ISTD			I
77	TM	Isopropylbenzene	0.7829	0.6978	11	TM
78	TM**	1,1,2,2-Tetrachloroethane	0.5203	0.3604	31	TM**
79	TM	1,2,3-Trichloropropane	0.1831	0.1742	4.8	TM
80	TML	t-1,4-Dichloro-2-Butene	0.0571	0.0439	23	TML 34

Average

10.2

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 07/28/19
Instrument: Loki
Cal. Date: 07/24/19
Data File: 0727L40.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Bromobenzene	0.5255	0.4981	5.2	TM
82	TM	n-Propylbenzene	1.547	1.345	13	TM
83	TM	4-Ethyltoluene	1.381	1.239	10	TM
84	TM	2-Chlorotoluene	0.5883	0.5198	12	TM
85	TM	1,3,5-Trimethylbenzene	1.225	1.129	7.9	TM
86	TM	4-Chlorotoluene	0.2353	0.1987	16	TM
87	TML	Tert-Butylbenzene	1.075	0.9455	12	TML 17
88	TM	1,2,4-Trimethylbenzene	1.155	1.055	8.6	TM
89	TM	Sec-Butylbenzene	1.400	1.278	8.7	TM
90	TM	p-Isopropyltoluene	1.290	1.183	8.3	TM
91	TML	Benzyl Chloride	0.3786	0.1622	57	TML 49
92	TM	1,3-DCB	0.9008	0.9179	1.9	TM
93	TM	1,4-DCB	0.9807	0.9492	3.2	TM
94	TM	n-Butylbenzene	0.9508	0.7670	19	TM
95	TM	1,2-DCB	0.9114	0.8350	8.4	TM
96	TM	Hexachloroethane	0.3132	0.2838	9.4	TM
97	TML	1,2-Dibromo-3-chloropropane	0.0944	0.0854	9.5	TML 6.7
98	TML	1,2,4-Trichlorobenzene	0.4994	0.4686	6.2	TML 13
99	TML	Hexachlorobutadiene	0.1369	0.0882	36	TML 27
100	TML	Naphthalene	0.9257	0.7338	21	TML 22
101	TM	1,2,3-Trichlorobenzene	0.5201	0.4542	13	TM
102						
103						
104						
105						
106						
107						
108						
109						
110						
111						
112						
113						
114						
115						
116						
117						
118						
119						
120						

Average

13.6

Data File : M:\LOKI\DATA\190724\0727L40.D
 Acq On : 28 Jul 19 4:31
 Sample : Ending CCV 10ug/L 07/27/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 40
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:57 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.71	96	207424	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	191168	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	117504	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	85523	23.2778	ppb	0.00
Spiked Amount	25.000		Recovery	=	93.112%	
44) 1,2-DCA-D4(S)	5.25	65	83687	22.1846	ppb	0.00
Spiked Amount	25.000		Recovery	=	88.740%	
65) Toluene-D8(S)	7.63	98	266832	22.9729	ppb	0.00
Spiked Amount	25.000		Recovery	=	91.892%	
73) 4-Bromofluorobenzene(S)	10.53	95	95102	23.6810	ppb	0.00
Spiked Amount	25.000		Recovery	=	94.724%	
Target Compounds						
3) Dichlorodifluoromethane	0.91	87	3663	7.0016	ppb	95
4) Freon 114	0.99	85	10327	6.9873	ppb	91
5) Chloromethane	1.02	50	11504	6.9225	ppb	96
6) Vinyl chloride	1.09	62	13770	7.7368	ppb	98
8) Bromomethane	1.30	94	11136	10.6656	ppb	97
9) Chloroethane	1.38	64	7909	7.0124	ppb	98
10) Dichlorofluoromethane	1.54	67	24540	8.2073	ppb	95
11) Trichlorofluoromethane	1.57	103	16140	8.2619	ppb	89
13) Acrolein	1.90	56	10803	101.3010	ppb	95
14) Acetone	2.04	43	6234	8.1679	ppb	# 85
15) Freon-113	2.00	101	13775	8.1447	ppb	86
16) 1,1-DCE	1.98	96	13536	8.2028	ppb	99
17) t-Butanol	2.62	59	18129	103.8370	ppb	96
18) 2-Propanol	2.22	45	185	-0.8970	ppb	# 1
19) Acetonitrile	2.28	41	20884	91.1248	ppb	98
20) Methyl Acetate	2.36	43	11381	7.6003	ppb	# 85
21) Iodomethane	2.09	142	4193	6.5886	ppb	88
22) Acrylonitrile	2.69	53	5719	7.5727	ppb	90
23) Methylene chloride	2.43	84	16634	8.4879	ppb	97
24) Carbon disulfide	2.15	76	34265	7.3327	ppb	97
25) Methyl t-butyl ether (MtBE)	2.75	73	41591	8.5249	ppb	99
26) Trans-1,2-DCE	2.72	96	15662	8.5578	ppb	95
27) Diisopropyl Ether	3.40	45	31683	8.3579	ppb	95
29) 1,1-DCA	3.21	63	25119	8.4183	ppb	91
30) Vinyl Acetate	3.40	45	31683	8.3579	ppb	95
31) Ethyl tert Butyl Ether	3.94	59	30754	9.1007	ppb	99
32) MEK (2-Butanone)	4.15	43	2498	9.3459	ppb	89
33) Cis-1,2-DCE	4.07	96	17307	8.8509	ppb	85
34) 2,2-Dichloropropane	4.05	77	14267	6.4644	ppb	# 88
37) Chloroform	4.59	83	30381	9.4683	ppb	99
38) Bromochloromethane	4.42	128	10633	9.6152	ppb	77
40) 1,1,1-TCA	4.80	97	26737	9.9487	ppb	89
41) Cyclohexane	4.86	41	7801	8.0810	ppb	92
42) 1,1-Dichloropropene	5.04	75	16286	9.0487	ppb	93
43) 2,2,4-Trimethylpentane	5.49	57	21582	7.1888	ppb	# 78
45) Carbon Tetrachloride	5.03	117	25332	9.8301	ppb	95
46) Tert Amyl Methyl Ether	5.56	73	29795	8.4751	ppb	95
48) 1,2-DCA	5.35	62	23520	9.8385	ppb	98
49) Benzene	5.31	78	57888	9.6645	ppb	98

(#) = qualifier out of range (m) = manual integration
 0727L40.D L0724W.M Mon Jul 29 13:59:12 2019

Data File : M:\LOKI\DATA\190724\0727L40.D
 Acq On : 28 Jul 19 4:31
 Sample : Ending CCV 10ug/L 07/27/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 40
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:57 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) TCE	6.17	130	24066	11.9395	ppb	91
51) 2-Pentanone	6.47	43	106102	111.3213	ppb	99
52) 1,2-Dichloropropane	6.44	63	14419	9.0335	ppb	99
53) Bromodichloromethane	6.80	83	24355	9.8937	ppb	97
54) Methyl Cyclohexane	6.40	83	15340	8.6453	ppb	96
55) Dibromomethane	6.57	93	11732	9.7262	ppb	89
56) 2-Chloroethyl vinyl ether	7.23	63	135	6.4800	ppb	# 48
57) MIBK (methyl isobutyl ket	7.56	43	10406	8.3752	ppb	99
58) 1-Bromo-2-chloroethane	7.13	63	21173	9.3406	ppb	95
59) Cis-1,3-Dichloropropene	7.34	75	19650	8.3410	ppb	98
60) Toluene	7.71	91	64161	9.8883	ppb	98
61) Trans-1,3-Dichloropropene	7.99	75	18587	8.9710	ppb	97
62) 1,1,2-TCA	8.18	83	13462	9.4571	ppb	97
63) 2-Hexanone	8.51	43	6324	8.6002	ppb	# 96
66) 1,2-EDB	8.70	107	17169	9.7718	ppb	97
67) Tetrachloroethene	8.32	166	24306	9.3283	ppb	96
68) 1-Chlorohexane	9.29	91	14663	8.8653	ppb	89
69) 1,1,1,2-Tetrachloroethane	9.37	131	22096	9.7992	ppb	100
70) m&p-Xylene	9.55	91	95074	18.8227	ppb	98
71) o-Xylene	9.97	106	23458	8.8805	ppb	100
72) Styrene	9.99	104	38610	8.4659	ppb	100
74) 1,3-Dichloropropane	8.36	76	25326	9.2766	ppb	97
75) Dibromochloromethane	8.60	129	22185	9.7803	ppb	81
76) Chlorobenzene	9.26	112	49423	10.0349	ppb	97
77) Ethylbenzene	9.41	91	61227	9.3081	ppb	99
78) Bromoform	10.16	173	18017	9.6614	ppb	98
80) Isopropylbenzene	10.39	105	32800	8.9142	ppb	98
81) 1,1,2,2-Tetrachloroethane	10.71	83	16940	6.9266	ppb	96
82) 1,2,3-Trichloropropane	10.74	110	8190	9.5161	ppb	89
83) t-1,4-Dichloro-2-Butene	10.78	53	2062	6.5805	ppb	# 74
84) Bromobenzene	10.68	156	23410	9.4785	ppb	99
85) n-Propylbenzene	10.84	91	63204	8.6912	ppb	97
86) 4-Ethyltoluene	10.97	105	58246	8.9754	ppb	98
87) 2-Chlorotoluene	10.90	91	24432	8.8351	ppb	94
88) 1,3,5-Trimethylbenzene	11.04	105	53047	9.2103	ppb	99
89) 4-Chlorotoluene	11.03	126	9341	8.4465	ppb	97
90) Tert-Butylbenzene	11.39	119	44441	8.2886	ppb	94
91) 1,2,4-Trimethylbenzene	11.44	105	49596	9.1396	ppb	96
92) Sec-Butylbenzene	11.62	105	60087	9.1291	ppb	100
93) p-Isopropyltoluene	11.79	119	55596	9.1703	ppb	99
94) Benzyl Chloride	11.96	91	7625	5.0714	ppb	96
95) 1,3-DCB	11.71	146	43141	10.1894	ppb	97
96) 1,4-DCB	11.81	146	44614	9.6792	ppb	99
97) n-Butylbenzene	12.23	91	36048	8.0661	ppb	95
98) 1,2-DCB	12.21	146	39246	9.1619	ppb	95
99) Hexachloroethane	12.49	201	13339	9.0602	ppb	# 82
100) 1,2-Dibromo-3-chloropropan	13.05	75	4016	9.3273	ppb	91
101) 1,2,4-Trichlorobenzene	13.95	180	22023	8.6993	ppb	98
102) Hexachlorobutadiene	14.16	223	4146	7.2678	ppb	# 72
103) Naphthalene	14.21	128	34490	7.8324	ppb	98
104) 1,2,3-Trichlorobenzene	14.47	180	21348	8.7325	ppb	86

(#) = qualifier out of range (m) = manual integration
 0727L40.D L0724W.M Mon Jul 29 13:59:13 2019

Quantitation Report

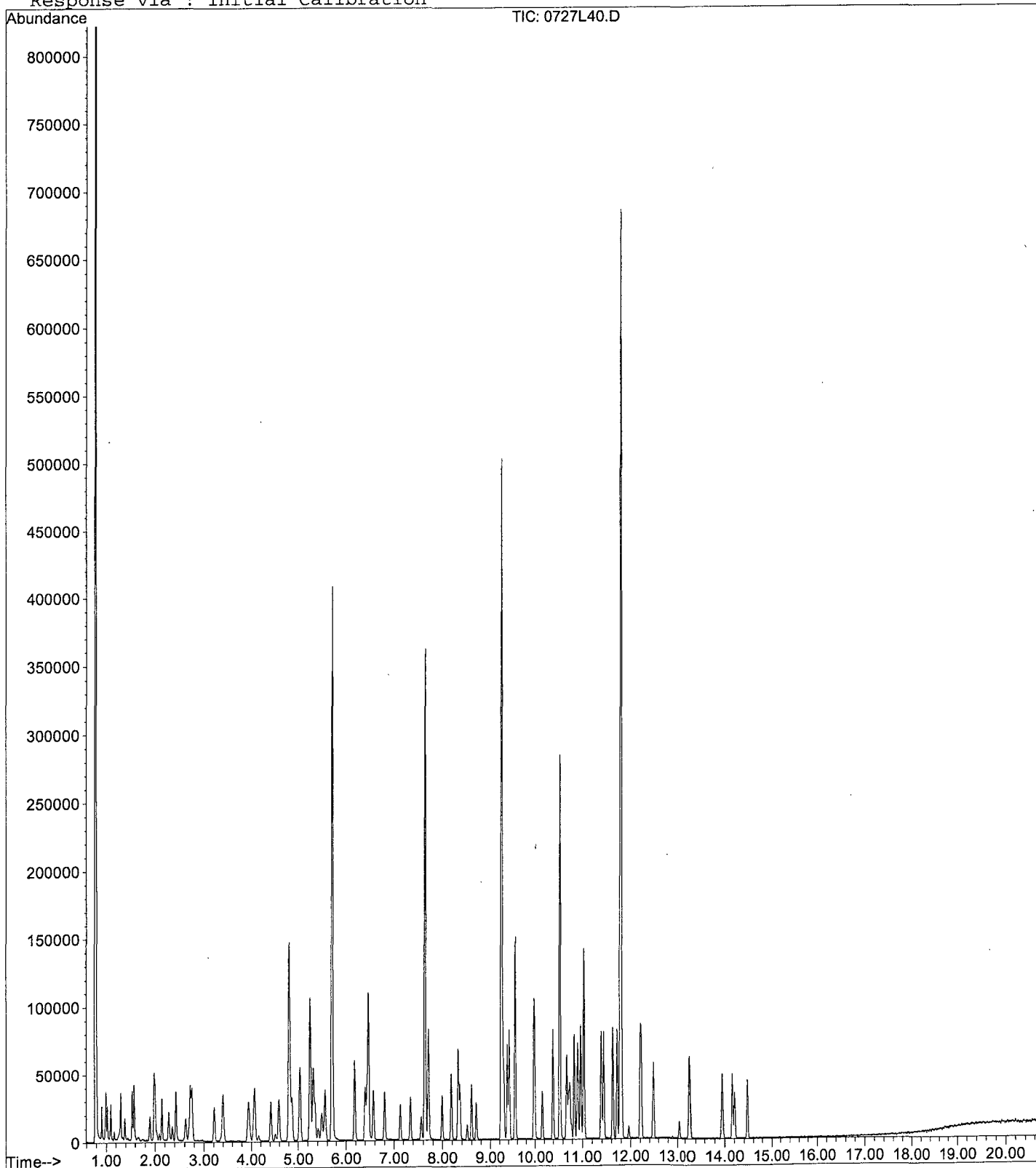
Data File : M:\LOKI\DATA\190724\0727L40.D
Acq On : 28 Jul 19 4:31
Sample : Ending CCV 10ug/L 07/27/19
Misc : IS&S 7/15/19,6/5/19

Vial: 40
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:57 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Initial Cal. Date: 07/26/19

Matrix: _____

Instrument: Thor

Initials: DP/LL

0726T04.D 0726T05.D 0726T06.D 0726T07.D 0726T08.D 0726T09.D 0726T10.D 0726T12.D

		Compound	1	2	3	4	5	6	7	9			Avg	%RSD	Type	r ²	Q	MRF
1	I	Fluorobenzene (IS)																
2	TM	Chlorotrifluoroethene		0.1044	0.1079	0.0918	0.0746	0.0901	0.1009	0.0898			0.09	12	TM			
3	TML	Dichlorodifluoromethane		0.0813	0.1955	0.0686	0.0788	0.0669	0.0749	0.0699			0.09	51	TML	1.000		
4	TM	Freon 114		0.1962	0.1954	0.1613	0.1580	0.1546	0.1805	0.1676			0.17	10	TM			
5	TM**L	Chloromethane		0.9522	0.7748	0.5292	0.5359	0.3849	0.3882	0.3494			0.56	40	TM**L	1.000		
6	TM*	Vinyl chloride		0.2208	0.2391	0.2200	0.2361	0.2013	0.2054	0.2061			0.22	6.9	TM*			
7	TM	2-Chloro-1,1,1-trifluoroethane		0.0351	0.0346	0.0309	0.0233	0.0298	0.0334	0.0294			0.03	13	TM			
8	TML	Bromomethane		0.1671	0.1294	0.0802	0.0832	0.0635	0.0663				0.10	42	TML	0.991		
9	TML	Chloroethane		0.2550	0.1548	0.1684	0.1420	0.1236	0.1160				0.16	32	TML	0.994		
10	TM	Dichlorofluoromethane		0.3466	0.3292	0.2785	0.2997	0.2710	0.2942	0.2750			0.30	9.6	TM			
11	TM	Trichlorofluoromethane		0.3474	0.3438	0.3027	0.3409	0.2694	0.3059	0.2871			0.31	9.8	TM			
12	TM	Diethyl ether													TM			
13	TM	Acrolein		0.0112	0.0095	0.0101	0.0109	0.0108	0.0136				0.01	13	TM			
14	TML	Acetone				0.1150	0.1228	0.0744	0.0778	0.0671			0.09	28	TML	0.999		
15	TML	Freon-113		0.1348	0.1182	0.0811	0.0868	0.0800	0.0834	0.0822			0.10	23	TML	1.00		
16	TM*	1,1-DCE		0.3031	0.2981	0.2519	0.2618	0.2395	0.2615	0.2473			0.27	9.3	TM*			
17	TML	2-Propanol		0.0218	0.0182	0.0135	0.0115	0.0125	0.0142	0.0144			0.02	24	TML	0.990		
18	TML	Acetonitrile		0.0416	0.0322	0.0318	0.0273	0.0288	0.0307				0.03	16	TML	0.990		
19	TM	t-Butanol	0.0130	0.0126	0.0121	0.0108	0.0112	0.0102	0.0106	0.0108			0.01	8.9	TM			
20	TM	Methyl Acetate		0.1793	0.1930	0.1770	0.1737	0.1609	0.1603	0.1568			0.17	7.6	TM			
21	TML	Iodomethane		0.0832	0.0494	0.0424	0.0374	0.0370	0.0416	0.0451			0.05	34	TML	0.999		
22	TM	Acrylonitrile		0.0733	0.0722	0.0700	0.0668	0.0642	0.0669	0.0629			0.07	5.8	TM			
23	TML	Methylene chloride		0.3559	0.2332	0.2048	0.2161	0.1921	0.2024	0.1944			0.23	25	TML	1.000		
24	TM	Carbon disulfide		0.4703	0.4800	0.3722	0.3822	0.3755	0.4193	0.4082			0.42	11	TM			
25	TM	Methyl t-butyl ether (MtBE)		0.5883	0.5644	0.4816	0.5019	0.4520	0.4953	0.5016			0.51	9.3	TM			
26	TML	Trans-1,2-DCE		0.1119	0.2163	0.1730	0.1864	0.1705	0.1877	0.1807			0.18	18	TML	1.000		
27	TM	Hexane													TM			
28	TM	Diisopropyl Ether		0.2216	0.2099	0.1906	0.1895	0.1808	0.1942	0.1901			0.20	7.1	TM			
29	TM**	2,2-Dichloro-1,1,1-trifluoroethane													TM**			
30	TM**	1,1-DCA		0.4123	0.3803	0.3287	0.3426	0.3069	0.3396	0.3209			0.35	11	TM**			
31	TM	Vinyl Acetate		0.1426	0.1620	0.1429	0.1412	0.1328	0.1470	0.1438			0.14	6.1	TM			
32	TM	Ethyl tert Butyl Ether		0.3372	0.3627	0.3472	0.3571	0.3401	0.3984	0.4376			0.37	9.9	TM			
33	TML	MEK (2-Butanone)		0.0530	0.0417	0.0259	0.0376	0.0324	0.0351	0.0336			0.04	23	TML	1.000		
34	TML	Cis-1,2-DCE		0.1998	0.3356	0.3670	0.3334	0.2886	0.3162	0.2954			0.31	18	TML	1.000		
35	TML	2,2-Dichloropropane		0.1193	0.1393	0.1000	0.0965	0.0895	0.0921	0.0902			0.10	18	TML	1.00		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/26/19
Instrument: Thor

Initials: DP

		Compound	1	2	3	4	5	6	7	9		Avg	%RSD	Type	Q	MRF
36	TM	2-Methylpentane												TM		
37	TM	3-Methylpentane												TM		
38	TM*	Chloroform		0.3974	0.4210	0.3508	0.3689	0.3232	0.3599	0.3442		0.37	9.0	TM*		
39	TML	Bromochloromethane		0.0739	0.1581	0.1194	0.1229	0.0985	0.1178	0.1051		0.11	23	TML	0.999	
40	S	Dibromofluoromethane(S)	0.4766	0.4836	0.6024	0.5738	0.6171	0.4740	0.5183	0.4828		0.53	11	S		
41	TML	1,1,1-TCA		0.1749	0.1446	0.1192	0.1302	0.1177	0.1241	0.1199		0.13	16	TML	1.000	
42	TML	Cyclohexane		0.2124	0.1219	0.1393	0.1430	0.1229	0.1301	0.1241		0.14	23	TML	1.000	
43	TM	1,1-Dichloropropene		0.3204	0.2652	0.2315	0.2431	0.2156	0.2461	0.2400		0.25	13	TM		
44	TML	2,2,4-Trimethylpentane		0.2515	0.1649	0.1550	0.1480	0.1475	0.1617	0.1600		0.17	22	TML	1.000	
45	S	1,2-DCA-D4(S)	0.5363	0.5804	0.6641	0.6617	0.7139	0.5436	0.5803	0.5435		0.60	11	S		
46	TML	Carbon Tetrachloride		0.1465	0.2024	0.1806	0.2055	0.2043	0.2337	0.2638		0.21	18	TML	0.999	
47	TM	Tert Amyl Methyl Ether		0.3727	0.3200	0.3162	0.3309	0.3084	0.3637	0.4103		0.35	11	TM		
48	TM	Methylcyclopentane												TM		
49	TM	1,2-DCA		0.3441	0.3250	0.2946	0.3044	0.2727	0.2985	0.2806		0.30	8.2	TM		
50	TM	Benzene		0.7889	0.7982	0.7201	0.7565	0.7019	0.7638	0.7253		0.75	4.8	TM		
51	TM	TCE		0.2189	0.2377	0.1761	0.2020	0.1909	0.2117	0.1990		0.21	9.7	TM		
52	TM	2-Pentanone		0.1643	0.1579	0.1459	0.1416	0.1396	0.1503	0.1339		0.15	7.2	TM		
53	TM*L	1,2-Dichloropropane		0.1407	0.1081	0.0821	0.0935	0.0935	0.1028	0.0971		0.10	18	TM*L	1.000	
54	TM	Bromodichloromethane		0.1798	0.1532	0.1385	0.1491	0.1300	0.1532	0.1473		0.15	10	TM		
55	TML	Methyl Cyclohexane		0.3457	0.2596	0.2274	0.2418	0.2163	0.2524	0.2433		0.26	17	TML	1.000	
56	TM	Dibromomethane		0.1331	0.1739	0.1215	0.1373	0.1354	0.1476	0.1387		0.14	12	TM		
57	TML	MIBK (methyl isobutyl ketone)		0.1125	0.0693	0.0736	0.0878	0.0736	0.0797	0.0805		0.08	18	TML	1.000	
58	TM	1-Bromo-2-chloroethane		0.2924	0.2554	0.2430	0.2502	0.2339	0.2504	0.2415		0.25	7.5	TM		
59	TML	2-Chloroethyl vinyl ether		0.0016	0.0019	0.0015	0.0033	0.0029	0.0036	0.0031		0.00	34	TML	0.999	
60	TM	Cis-1,3-Dichloropropene		0.1579	0.2233	0.1607	0.1588	0.1523	0.1813	0.1877		0.17	14	TM		
61	TM*	Toluene		0.8893	0.9113	0.7961	0.7896	0.7726	0.8366	0.7797		0.83	6.7	TM*		
62	TM	Trans-1,3-Dichloropropene		0.3116	0.2612	0.2609	0.2543	0.2448	0.2760	0.2869		0.27	8.4	TM		
63	TM	1,1,2-TCA		0.1923	0.1680	0.1411	0.1551	0.1448	0.1607	0.1578		0.16	11	TM		
64	TM	2-Hexanone		0.0487	0.0566	0.0347	0.0439	0.0415	0.0474	0.0487		0.05	15	TM		
65	I	Chlorobenzene-D5 (IS)														
66	S	Toluene-D8(S)	1.810	1.748	2.139	2.007	2.137	1.669	1.834	1.732		1.9	9.8	S		
67	TM	1,2-EDB		0.2309	0.2119	0.1898	0.2069	0.2016	0.2172	0.2195		0.21	6.3	TM		
68	TM	Tetrachloroethene		0.2292	0.2883	0.2198	0.2558	0.2211	0.2592	0.2507		0.25	10	TM		
69	TM	1-Chlorohexane		0.2291	0.2091	0.1734	0.1772	0.1673	0.1931	0.1926		0.19	11	TM		
70	TM	1,1,1,2-Tetrachloroethane		0.1485	0.1358	0.1119	0.1269	0.1219	0.1421	0.1481		0.13	10	TM		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. _____
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/26/19 _____
Instrument: Thor _____

Initials: DP

		Compound	1	2	3	4	5	6	7	9			Avg	%RSD	Type	Q	MRF
71	TM	m&p-Xylene		0.1955	0.2023	0.1819	0.1965	0.1877	0.2188	0.2269			0.20	8.1	TM		
72	TM	o-Xylene		0.3282	0.3212	0.3021	0.3299	0.3045	0.3512	0.3580			0.33	6.5	TM		
73	TM	Styrene		0.4543	0.4382	0.4099	0.4193	0.4324	0.5233	0.5938			0.47	14	TM		
74	S	4-Bromofluorobenzene(S)	0.6873	0.6595	0.7922	0.7541	0.8100	0.6396	0.7357	0.7425			0.73	8.4	S		
75	TM	1,3-Dichloropropane		0.2239	0.2123	0.1731	0.1975	0.1897	0.2108	0.2051			0.20	8.3	TM		
76	TM	Dibromochloromethane		0.1398	0.1454	0.1262	0.1378	0.1338	0.1564	0.1523			0.14	7.4	TM		
77	TM**	Chlorobenzene		0.6291	0.5817	0.5065	0.5673	0.5356	0.5833	0.5760			0.57	6.8	TM**		
78	TM*	Ethylbenzene		0.9844	0.9411	0.8325	0.8530	0.8100	0.9250	0.8955			0.89	7.1	TM*		
79	TM**L	Bromoform		0.0796	0.1646	0.0920	0.1132	0.1018	0.1307	0.1371			0.12	25	TM**L	0.999	
80	I	1,4-Dichlorobenzene-D (IS)															
81	TM	Isopropylbenzene		1.731	1.697	1.468	1.552	1.439	1.487	1.380			1.5	8.6	TM		
82	TM**	1,1,2,2-Tetrachloroethane		0.5635	0.5208	0.4598	0.5101	0.4706	0.5064	0.4448			0.50	8.2	TM**		
83	TM	1,2,3-Trichloropropane		0.2148	0.2037	0.1960	0.1804	0.1565	0.1657	0.1446			0.18	14	TM		
84	TML	t-1,4-Dichloro-2-Butene		0.0292	0.0494	0.0686	0.0538	0.0596	0.0630	0.0629			0.06	24	TML	1.000	
85	TM	Bromobenzene		0.5395	0.5408	0.4783	0.5072	0.4738	0.4869	0.4491			0.50	6.9	TM		
86	TM	n-Propylbenzene		2.010	1.599	1.548	1.587	1.450	1.587	1.532			1.6	11	TM		
87	TM	4-Ethyltoluene		1.356	1.210	1.013	1.126	1.015	1.124	1.158			1.1	10	TM		
88	TML	2-Chlorotoluene		1.554	1.475	1.031	1.160	1.046	1.066	0.9929			1.2	19	TML	1.000	
89	TM	1,3,5-Trimethylbenzene		1.326	1.329	1.148	1.165	1.111	1.163	1.155			1.2	7.4	TM		
90	TM	4-Chlorotoluene		1.281	1.406	1.133	1.265	1.094	1.201	1.146			1.2	8.9	TM		
91	TM	Tert-Butylbenzene		1.331	1.229	1.210	1.125	1.010	1.090	1.067			1.2	9.6	TM		
92	TM	1,2,4-Trimethylbenzene		1.555	1.362	1.154	1.196	1.051	1.112	1.092			1.2	15	TM		
93	TM	Sec-Butylbenzene		1.513	1.493	1.279	1.433	1.303	1.408	1.407			1.4	6.3	TM		
94	TM	p-Isopropyltoluene		1.420	1.488	1.215	1.247	1.121	1.155	1.172			1.3	11	TM		
95	TML	Benzyl Chloride		0.3797	0.2815	0.2348	0.2744	0.2347	0.2521	0.2421			0.27	19	TML	1.000	
96	TM	1,3-DCB		1.047	0.9562	0.8495	0.8079	0.7875	0.8644	0.7920			0.87	11	TM		
97	TM	1,4-DCB		1.047	0.9562	0.8302	0.8438	0.7852	0.8276	0.7879			0.87	11	TM		
98	TM	n-Butylbenzene		1.193	1.152	0.9207	0.9992	0.9106	0.9901	0.8935			1.0	12	TM		
99	TM	1,2-DCB		0.8468	0.7972	0.7822	0.8628	0.7645	0.8355	0.7837			0.81	4.6	TM		
100	TM	Hexachloroethane		0.1944	0.1695	0.1318	0.1667	0.1382	0.1437	0.1425			0.16	14	TM		
101	TML	1,2-Dibromo-3-chloropropane		0.1034	0.0070	0.1137	0.1100	0.1122	0.1261	0.1158			0.10	42	TML	1.000	
102	TM	1,2,4-Trichlorobenzene		0.2695	0.3527	0.2468	0.3214	0.3116	0.3560	0.3648			0.32	14	TM		
103	TML	Hexachlorobutadiene		0.1714	0.2912	0.2928	0.3043	0.2789	0.3058	0.2981			0.28	17	TML	1.000	
104	TM	Naphthalene		0.7315	0.6260	0.6239	0.6754	0.6124	0.7434	0.7985			0.69	10	TM		
105	TM	1,2,3-Trichlorobenzene		0.1152	0.1176	0.0784	0.1041	0.0940	0.0944	0.1020			0.10	13	TM		

Data File : M:\THOR\DATA\T190726\0726T04.D Vial: 4
 Acq On : 26 Jul 19 13:35 Operator:
 Sample : 0.3ug/L VOC STD 07/26/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 29 14:18 2019 Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	514880	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	482560	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	249664	25.0000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	49078	4.5084	ppb	0.00
Spiked Amount	25.000		Recovery	=	18.032%	
45) 1,2-DCA-D4(S)	5.05	65	55228	4.4473	ppb	0.00
Spiked Amount	25.000		Recovery	=	17.788%	
66) Toluene-D8(S)	7.32	98	174680	4.8022	ppb	0.00
Spiked Amount	25.000		Recovery	=	19.208%	
74) 4-Bromofluorobenzene(S)	9.98	95	66331	4.7228	ppb	0.00
Spiked Amount	25.000		Recovery	=	18.892%	
Target Compounds						
19) t-Butanol	2.49	59	2675	11.3923	ppb	Qvalue # 83

Quantitation Report

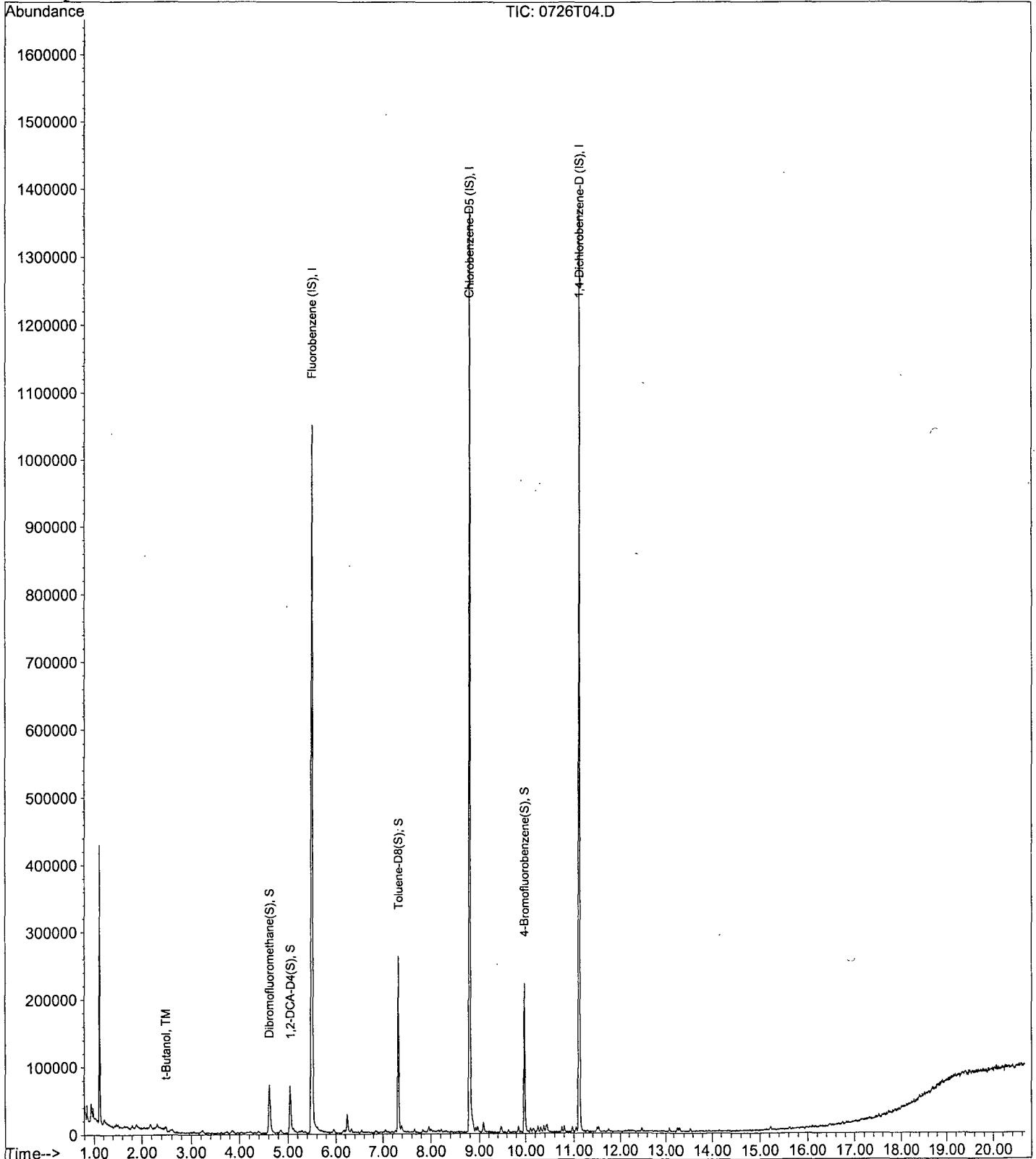
Data File : M:\THOR\DATA\T190726\0726T04.D
Acq On : 26 Jul 19 13:35
Sample : 0.3ug/L VOC STD 07/26/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 4
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 29 14:18 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0726T05.D Vial: 5
 Acq On : 26 Jul 19 14:03 Operator:
 Sample : 0.5ug/L VOC STD 07/26/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 29 14:10 2019 Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	485632	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	475648	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	250048	25.0000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	46971	4.5747	ppb	0.00
Spiked Amount	25.000		Recovery	=	18.300%	
45) 1,2-DCA-D4(S)	5.05	65	56371	4.8127	ppb	0.00
Spiked Amount	25.000		Recovery	=	19.252%	
66) Toluene-D8(S)	7.32	98	166263	4.6372	ppb	0.00
Spiked Amount	25.000		Recovery	=	18.548%	
74) 4-Bromofluorobenzene(S)	9.98	95	62740	4.5320	ppb	0.00
Spiked Amount	25.000		Recovery	=	18.128%	
Target Compounds						
2) Chlorotrifluoroethene	0.85	116	10143	5.5416	ppb	98
4) Freon 114	0.95	85	1906	0.5659	ppb	# 70
5) Chloromethane	0.98	50	9248	-0.1995	ppb	93
6) Vinyl chloride	1.05	62	2145	0.5056	ppb	90
7) 2-Chloro-1,1,1-trifluoroet	0.85	118	3408	5.6714	ppb	# 100
8) Bromomethane	1.25	94	1623	0.4501	ppb	# 66
9) Chloroethane	1.32	64	2477	0.5110	ppb	# 73
10) Dichlorofluoromethane	1.47	67	3366	0.5792	ppb	# 78
11) Trichlorofluoromethane	1.50	101	3374	0.5534	ppb	93
13) Acrolein	1.81	55	5447	25.4266	ppb	99
14) Acetone	1.94	43	5443	1.5485	ppb	97
15) Freon-113	1.90	101	1309	0.6350	ppb	# 67
16) 1,1-DCE	1.89	61	2944	0.5694	ppb	# 87
17) 2-Propanol	2.10	45	2122	8.9694	ppb	98
18) Acetonitrile	2.17	41	20208	25.5454	ppb	97
19) t-Butanol	2.49	59	6107	27.5748	ppb	95
20) Methyl Acetate	2.24	43	1741	0.5224	ppb	# 78
21) Iodomethane	2.00	142	808	1.5103	ppb	# 64
22) Acrylonitrile	2.57	52	712	0.5386	ppb	# 42
23) Methylene chloride	2.30	84	3457	0.5801	ppb	# 73
24) Carbon disulfide	2.04	76	4568	0.5661	ppb	# 64
25) Methyl t-butyl ether (MtBE)	2.61	73	5714	0.5743	ppb	# 79
26) Trans-1,2-DCE	2.59	96	1087	0.2791	ppb	# 88
28) Diisopropyl Ether	3.23	45	2152	0.5633	ppb	# 84
30) 1,1-DCA	3.05	63	4005	0.5936	ppb	# 89
31) Vinyl Acetate	3.22	87	1385	0.4931	ppb	# 81
32) Ethyl tert Butyl Ether	3.73	59	3275	0.4574	ppb	# 56
33) MEK (2-Butanone)	3.98	43	515	0.5915	ppb	# 47
35) 2,2-Dichloropropane	3.84	77	1159	0.3770	ppb	# 28
38) Chloroform	4.40	83	3860	0.5422	ppb	# 64
39) Bromochloromethane	4.22	128	718	-0.1608	ppb	81
41) 1,1,1-TCA	4.61	97	1699	0.5007	ppb	90
42) Cyclohexane	4.67	41	2063	0.4883	ppb	89
43) 1,1-Dichloropropene	4.85	75	3112	0.6365	ppb	95
44) 2,2,4-Trimethylpentane	5.29	57	2443	0.9054	ppb	# 67
46) Carbon Tetrachloride	4.83	117	1423	1.3758	ppb	# 87
47) Tert Amyl Methyl Ether	5.36	73	3620	0.5385	ppb	# 84
49) 1,2-DCA	5.15	62	3342	0.5681	ppb	# 89
50) Benzene	5.11	78	7662	0.5254	ppb	94

Data File : M:\THOR\DATA\T190726\0726T05.D
 Acq On : 26 Jul 19 14:03
 Sample : 0.5ug/L VOC STD 07/26/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 5
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 29 14:10 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) TCE	5.95	95	2126	0.5334	ppb	# 72
52) 2-Pentanone	6.23	43	79810	27.8239	ppb	96
53) 1,2-Dichloropropane	6.20	63	1367	0.6457	ppb	100
54) Bromodichloromethane	6.54	83	1746	0.5987	ppb	87
55) Methyl Cyclohexane	6.17	83	3358	0.7676	ppb	84
56) Dibromomethane	6.33	93	1293	0.4719	ppb	# 30
57) MIBK (methyl isobutyl ket	7.26	58	1093	0.8109	ppb	# 37
58) 1-Bromo-2-chloroethane	6.85	63	2840	0.5792	ppb	97
59) 2-Chloroethyl vinyl ether	6.84	107	47	0.7173	ppb	# 31
60) Cis-1,3-Dichloropropene	7.05	75	1534	0.4524	ppb	90
61) Toluene	7.39	91	8637	0.5389	ppb	95
62) Trans-1,3-Dichloropropene	7.66	75	3026	0.5752	ppb	91
63) 1,1,2-TCA	7.83	83	1868	0.6011	ppb	75
64) 2-Hexanone	8.15	58	473	0.5304	ppb	# 52
67) 1,2-EDB	8.30	107	2197	0.5469	ppb	# 62
68) Tetrachloroethene	7.96	164	2180	0.4652	ppb	91
69) 1-Chlorohexane	8.85	91	2179	0.5975	ppb	# 78
70) 1,1,1,2-Tetrachloroethane	8.92	131	1413	0.5558	ppb	92
71) m&p-Xylene	9.08	106	3720	0.9709	ppb	89
72) o-Xylene	9.47	106	3122	0.5005	ppb	81
73) Styrene	9.49	104	4322	0.4861	ppb	# 80
75) 1,3-Dichloropropane	8.00	76	2130	0.5548	ppb	94
76) Dibromochloromethane	8.22	129	1330	0.4935	ppb	# 24
77) Chlorobenzene	8.82	112	5985	0.5533	ppb	# 65
78) Ethylbenzene	8.96	91	9365	0.5520	ppb	98
79) Bromoform	9.63	173	757	1.1294	ppb	85
81) Isopropylbenzene	9.85	105	8655	0.5633	ppb	96
82) 1,1,2,2-Tetrachloroethane	10.15	83	2818	0.5674	ppb	83
83) 1,2,3-Trichloropropane	10.17	110	1074	0.5958	ppb	99
84) t-1,4-Dichloro-2-Butene	10.20	53	146	0.5057	ppb	98
85) Bromobenzene	10.10	156	2698	0.5433	ppb	86
86) n-Propylbenzene	10.26	91	10051	0.6218	ppb	96
87) 4-Ethyltoluene	10.37	105	6781	0.5930	ppb	94
88) 2-Chlorotoluene	10.31	91	7769	0.1723	ppb	95
89) 1,3,5-Trimethylbenzene	10.44	105	6629	0.5525	ppb	90
90) 4-Chlorotoluene	10.43	91	6408	0.5261	ppb	89
91) Tert-Butylbenzene	10.75	119	6658	0.5779	ppb	93
92) 1,2,4-Trimethylbenzene	10.80	105	7774	0.6385	ppb	95
93) Sec-Butylbenzene	10.97	105	7567	0.5384	ppb	# 84
94) p-Isopropyltoluene	11.12	119	7103	0.5637	ppb	93
95) Benzyl Chloride	11.29	91	1899	0.5236	ppb	# 85
96) 1,3-DCB	11.14	146	5237	0.6004	ppb	90
97) 1,4-DCB	11.14	146	5237	0.6030	ppb	89
98) n-Butylbenzene	11.53	91	5965	0.5914	ppb	95
99) 1,2-DCB	11.49	146	4235	0.5225	ppb	93
100) Hexachloroethane	11.74	117	972	0.6260	ppb	85
101) 1,2-Dibromo-3-chloropropan	12.26	157	517	0.4855	ppb	# 69
102) 1,2,4-Trichlorobenzene	13.08	182	1348	0.4244	ppb	# 74
103) Hexachlorobutadiene	13.27	225	857	0.3538	ppb	88
104) Naphthalene	13.31	128	3658	0.5321	ppb	92
105) 1,2,3-Trichlorobenzene	13.55	145	576	0.5712	ppb	# 66

(#) = qualifier out of range (m) = manual integration
 0726T05.D T0726W.M Mon Jul 29 14:18:23 2019
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Quantitation Report

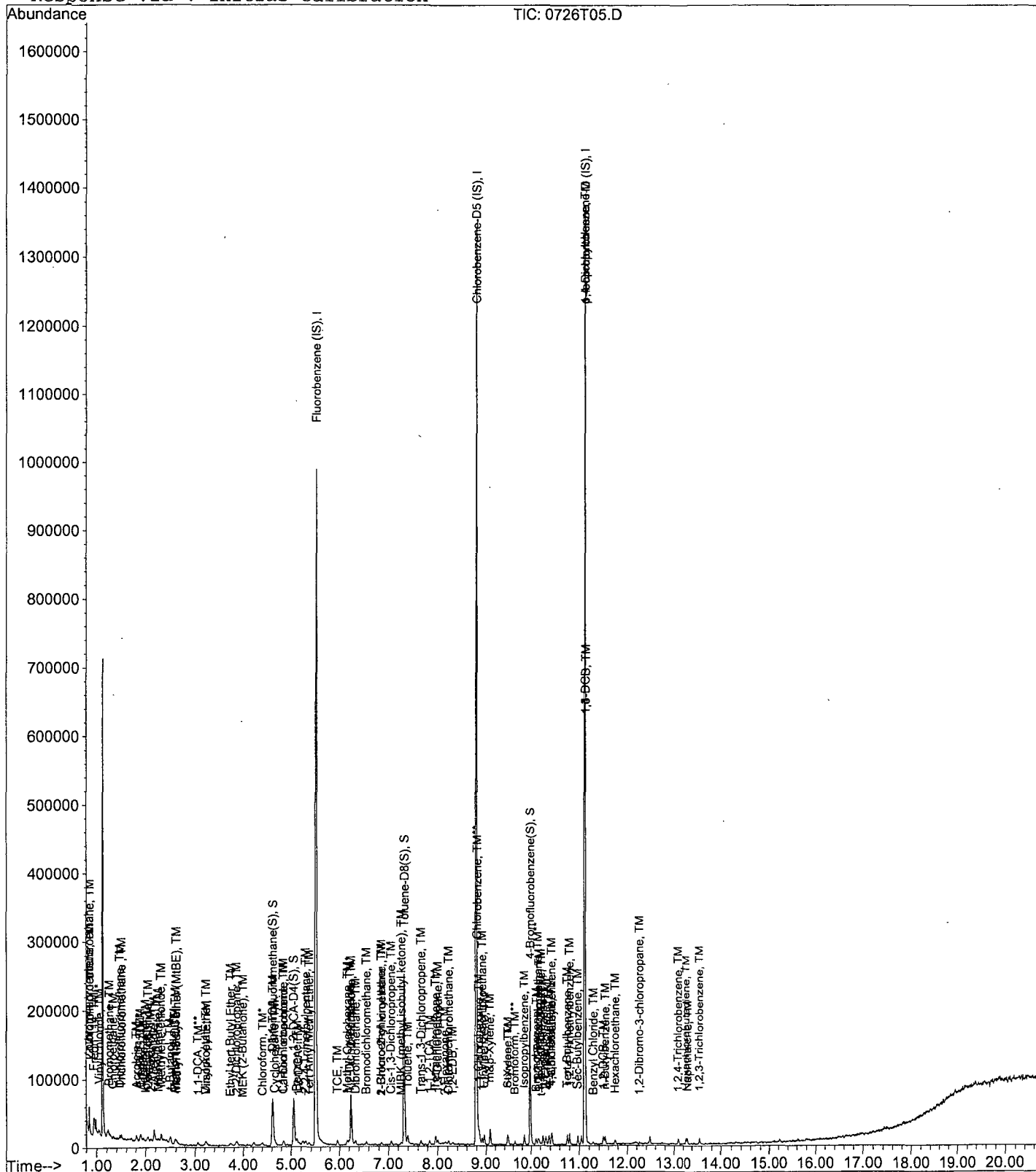
Data File : M:\THOR\DATA\T190726\0726T05.D
Acq On : 26 Jul 19 14:03
Sample : 0.5ug/L VOC STD 07/26/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 5
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 29 14:10 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0726T06.D
 Acq On : 26 Jul 19 14:31
 Sample : 1.0ug/L VOC STD 07/26/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 6
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 29 14:10 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	476864	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	470464	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	244032	25.0000	ppb	0.00

System Monitoring Compounds

40) Dibromofluoromethane(S)	4.62	111	114912	11.3975	ppb	0.00
Spiked Amount			25.000	Recovery =		45.588%
45) 1,2-DCA-D4(S)	5.05	65	126665	11.0130	ppb	0.00
Spiked Amount			25.000	Recovery =		44.052%
66) Toluene-D8(S)	7.32	98	402531	11.3506	ppb	0.00
Spiked Amount			25.000	Recovery =		45.404%
74) 4-Bromofluorobenzene(S)	9.98	95	149088	10.8881	ppb	0.00
Spiked Amount			25.000	Recovery =		43.552%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chlorotrifluoroethene	0.85	116	20588	11.4549	ppb	98
3) Dichlorodifluoromethane	0.85	87	3729	2.2143	ppb #	61
4) Freon 114	0.95	85	3728	1.1272	ppb	96
5) Chloromethane	0.98	50	14779	0.6674	ppb	98
6) Vinyl chloride	1.05	62	4560	1.0945	ppb	91
7) 2-Chloro-1,1,1-trifluoroet	0.85	118	6594	11.1751	ppb #	100
8) Bromomethane	1.25	94	2468	1.1798	ppb #	64
9) Chloroethane	1.32	64	2953	0.7459	ppb #	65
10) Dichlorofluoromethane	1.47	67	6279	1.1004	ppb	98
11) Trichlorofluoromethane	1.50	101	6558	1.0954	ppb	90
13) Acrolein	1.81	55	9101	43.2645	ppb	100
14) Acetone	1.94	43	3063	-0.2817	ppb #	88
15) Freon-113	1.90	101	2255	1.2545	ppb	83
16) 1,1-DCE	1.88	61	5687	1.1201	ppb	95
17) 2-Propanol	2.10	45	3480	14.2019	ppb #	86
18) Acetonitrile	2.17	41	30734	47.6106	ppb	100
19) t-Butanol	2.49	59	11525	52.9954	ppb	96
20) Methyl Acetate	2.24	43	3682	1.1251	ppb #	82
21) Iodomethane	1.99	142	942	1.6828	ppb #	62
22) Acrylonitrile	2.56	52	1378	1.0617	ppb	93
23) Methylene chloride	2.31	84	4448	0.8649	ppb	89
24) Carbon disulfide	2.04	76	9155	1.1555	ppb	93
25) Methyl t-butyl ether (MtBE)	2.62	73	10766	1.1020	ppb #	88
26) Trans-1,2-DCE	2.58	96	4126	1.1660	ppb #	70
28) Diisopropyl Ether	3.21	45	4004	1.0673	ppb	93
30) 1,1-DCA	3.05	63	7254	1.0949	ppb	97
31) Vinyl Acetate	3.20	87	3091	1.1206	ppb #	70
32) Ethyl tert Butyl Ether	3.73	59	6919	0.9841	ppb #	84
33) MEK (2-Butanone)	3.96	43	796	1.0452	ppb #	58
34) Cis-1,2-DCE	3.86	61	6401	0.7736	ppb #	86
35) 2,2-Dichloropropane	3.83	77	2658	1.2627	ppb #	62
38) Chloroform	4.40	83	8031	1.1488	ppb	86
39) Bromochloromethane	4.21	128	3016	0.9950	ppb #	1
41) 1,1,1-TCA	4.60	97	2759	0.9785	ppb	94
42) Cyclohexane	4.66	41	2325	0.6150	ppb	75
43) 1,1-Dichloropropene	4.85	75	5058	1.0535	ppb	93
44) 2,2,4-Trimethylpentane	5.29	57	3146	1.1499	ppb #	63
46) Carbon Tetrachloride	4.83	117	3860	1.8615	ppb #	71
47) Tert Amyl Methyl Ether	5.36	73	6104	0.9248	ppb	97

Data File : M:\THOR\DATA\T190726\0726T06.D
 Acq On : 26 Jul 19 14:31
 Sample : 1.0ug/L VOC STD 07/26/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 6
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 29 14:10 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) 1,2-DCA	5.16	62	6200	1.0733	ppb	# 85
50) Benzene	5.11	78	15225	1.0633	ppb	# 93
51) TCE	5.95	95	4534	1.1585	ppb	85
52) 2-Pentanone	6.23	43	150613	53.4731	ppb	97
53) 1,2-Dichloropropane	6.20	63	2061	1.0334	ppb	# 100
54) Bromodichloromethane	6.55	83	2922	1.0203	ppb	# 92
55) Methyl Cyclohexane	6.16	83	4951	1.1234	ppb	75
56) Dibromomethane	6.32	93	3317	1.2327	ppb	# 29
57) MIBK (methyl isobutyl ket	7.26	58	1322	0.9727	ppb	# 38
58) 1-Bromo-2-chloroethane	6.85	63	4872	1.0119	ppb	96
59) 2-Chloroethyl vinyl ether	6.86	107	107	1.7325	ppb	# 1
60) Cis-1,3-Dichloropropene	7.05	75	4259	1.2790	ppb	# 81
61) Toluene	7.39	91	17383	1.1046	ppb	86
62) Trans-1,3-Dichloropropene	7.66	75	4982	0.9645	ppb	87
63) 1,1,2-TCA	7.83	83	3204	1.0500	ppb	92
64) 2-Hexanone	8.14	58	1079	1.2321	ppb	# 49
67) 1,2-EDB	8.30	107	3988	1.0038	ppb	91
68) Tetrachloroethene	7.96	164	5426	1.1707	ppb	# 85
69) 1-Chlorohexane	8.85	91	3935	1.0909	ppb	94
70) 1,1,1,2-Tetrachloroethane	8.92	131	2556	1.0165	ppb	84
71) m&p-Xylene	9.09	106	7613	2.0089	ppb	87
72) o-Xylene	9.47	106	6045	0.9798	ppb	97
73) Styrene	9.49	104	8247	0.9377	ppb	99
75) 1,3-Dichloropropane	8.00	76	3996	1.0524	ppb	# 76
76) Dibromochloromethane	8.21	129	2736	1.0263	ppb	83
77) Chlorobenzene	8.82	112	10947	1.0232	ppb	92
78) Ethylbenzene	8.96	91	17711	1.0555	ppb	93
79) Bromoform	9.64	173	3098	2.0343	ppb	81
81) Isopropylbenzene	9.85	105	16565	1.1046	ppb	97
82) 1,1,2,2-Tetrachloroethane	10.15	83	5084	1.0489	ppb	83
83) 1,2,3-Trichloropropane	10.17	110	1988	1.1300	ppb	80
84) t-1,4-Dichloro-2-Butene	10.21	53	482	1.0571	ppb	86
85) Bromobenzene	10.10	156	5279	1.0892	ppb	99
86) n-Propylbenzene	10.26	91	15604	0.9891	ppb	98
87) 4-Ethyltoluene	10.37	105	11815	1.0587	ppb	96
88) 2-Chlorotoluene	10.32	91	14402	0.8790	ppb	92
89) 1,3,5-Trimethylbenzene	10.44	105	12976	1.1081	ppb	100
90) 4-Chlorotoluene	10.43	91	13724	1.1545	ppb	# 72
91) Tert-Butylbenzene	10.75	119	11995	1.0669	ppb	86
92) 1,2,4-Trimethylbenzene	10.80	105	13293	1.1188	ppb	96
93) Sec-Butylbenzene	10.97	105	14576	1.0626	ppb	99
94) p-Isopropyltoluene	11.12	119	14524	1.1810	ppb	96
95) Benzyl Chloride	11.28	91	2748	0.9029	ppb	# 90
96) 1,3-DCB	11.05	146	9334	1.0964	ppb	97
97) 1,4-DCB	11.05	146	9334	1.1013	ppb	95
98) n-Butylbenzene	11.53	91	11246	1.1425	ppb	95
99) 1,2-DCB	11.49	146	7782	0.9837	ppb	92
100) Hexachloroethane	11.74	117	1655	1.0921	ppb	# 86
101) 1,2-Dibromo-3-chloropropan	12.25	157	68	0.1005	ppb	# 1
102) 1,2,4-Trichlorobenzene	13.08	182	3443	1.1107	ppb	89
103) Hexachlorobutadiene	13.28	225	2842	1.0423	ppb	# 54
104) Naphthalene	13.31	128	6111	0.9109	ppb	# 88
105) 1,2,3-Trichlorobenzene	13.55	145	1148	1.1665	ppb	# 73

Quantitation Report

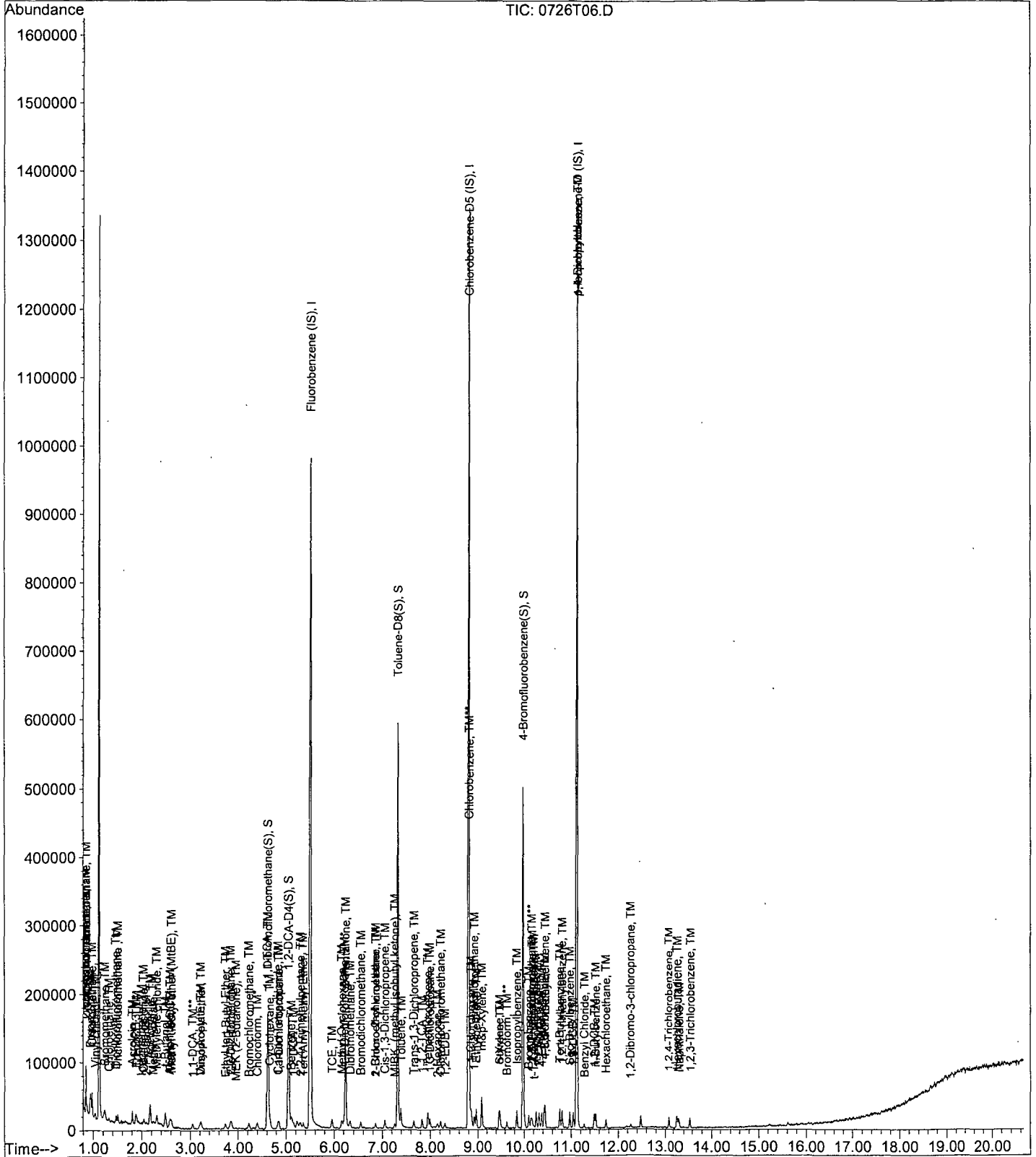
Data File : M:\THOR\DATA\T190726\0726T06.D
Acq On : 26 Jul 19 14:31
Sample : 1.0ug/L VOC STD 07/26/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 6
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 29 14:10 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0726T07.D
 Acq On : 26 Jul 19 14:59
 Sample : 2.0ug/L VOC STD 07/26/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 7
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 29 14:10 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	521088	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	525952	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	267392	25.0000	ppb	0.00

System Monitoring Compounds

40) Dibromofluoromethane(S)	4.62	111	119604	10.8560	ppb	0.00
Spiked Amount	25.000		Recovery	= 43.424%		
45) 1,2-DCA-D4(S)	5.05	65	137925	10.9743	ppb	0.00
Spiked Amount	25.000		Recovery	= 43.896%		
66) Toluene-D8(S)	7.32	98	422219	10.6497	ppb	0.00
Spiked Amount	25.000		Recovery	= 42.600%		
74) 4-Bromofluorobenzene(S)	9.98	95	158657	10.3645	ppb	0.00
Spiked Amount	25.000		Recovery	= 41.456%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chlorotrifluoroethene	0.85	116	38248	19.4747	ppb	98
3) Dichlorodifluoromethane	0.87	87	2861	1.3771	ppb	80
4) Freon 114	0.95	85	6725	1.8609	ppb	95
5) Chloromethane	0.98	50	22062	1.4906	ppb	99
6) Vinyl chloride	1.05	62	9171	2.0145	ppb	99
7) 2-Chloro-1,1,1-trifluoroet	0.85	118	12895	19.9990	ppb	# 100
8) Bromomethane	1.25	94	3344	1.6740	ppb	90
9) Chloroethane	1.32	64	7018	2.3106	ppb	98
10) Dichlorofluoromethane	1.47	67	11610	1.8619	ppb	99
11) Trichlorofluoromethane	1.50	101	12617	1.9285	ppb	99
13) Acrolein	1.81	55	15827	68.8533	ppb	82
14) Acetone	1.94	43	4793	0.7797	ppb	96
15) Freon-113	1.90	101	3380	1.7899	ppb	# 82
16) 1,1-DCE	1.88	61	10501	1.8927	ppb	95
17) 2-Propanol	2.10	45	5636	20.4887	ppb	# 78
18) Acetonitrile	2.17	41	49662	77.4202	ppb	99
19) t-Butanol	2.50	59	16848	70.8972	ppb	96
20) Methyl Acetate	2.24	43	7380	2.0637	ppb	87
21) Iodomethane	1.99	142	1768	2.4672	ppb	# 24
22) Acrylonitrile	2.56	52	2919	2.0581	ppb	# 64
23) Methylene chloride	2.31	84	8537	1.7748	ppb	98
24) Carbon disulfide	2.04	76	15516	1.7921	ppb	96
25) Methyl t-butyl ether (MtBE)	2.61	73	20078	1.8808	ppb	97
26) Trans-1,2-DCE	2.58	96	7211	1.8831	ppb	90
28) Diisopropyl Ether	3.22	45	7945	1.9382	ppb	95
30) 1,1-DCA	3.05	63	13704	1.8929	ppb	# 92
31) Vinyl Acetate	3.22	87	5955	1.9758	ppb	91
32) Ethyl tert Butyl Ether	3.73	59	14472	1.8836	ppb	99
33) MEK (2-Butanone)	3.97	43	1079	1.3444	ppb	# 69
34) Cis-1,2-DCE	3.86	61	15301	2.1253	ppb	# 92
35) 2,2-Dichloropropane	3.83	77	4169	1.9370	ppb	80
38) Chloroform	4.39	83	14623	1.9143	ppb	95
39) Bromochloromethane	4.21	128	4978	1.7651	ppb	95
41) 1,1,1-TCA	4.60	97	4968	1.7615	ppb	89
42) Cyclohexane	4.67	41	5809	1.8817	ppb	95
43) 1,1-Dichloropropene	4.85	75	9652	1.8398	ppb	93
44) 2,2,4-Trimethylpentane	5.29	57	6462	2.0557	ppb	# 71
46) Carbon Tetrachloride	4.83	117	7528	2.4590	ppb	97
47) Tert Amyl Methyl Ether	5.36	73	13181	1.8275	ppb	# 88

Data File : M:\THOR\DATA\T190726\0726T07.D Vial: 7
 Acq On : 26 Jul 19 14:59 Operator:
 Sample : 2.0ug/L VOC STD 07/26/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 29 14:10 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) 1,2-DCA	5.16	62	12282	1.9456	ppb	99
50) Benzene	5.11	78	30019	1.9186	ppb	95
51) TCE	5.95	95	7340	1.7163	ppb	99
52) 2-Pentanone	6.23	43	228112	74.1147	ppb	100
53) 1,2-Dichloropropane	6.20	63	3424	1.6119	ppb #	100
54) Bromodichloromethane	6.55	83	5772	1.8445	ppb #	98
55) Methyl Cyclohexane	6.16	83	9481	1.9252	ppb	100
56) Dibromomethane	6.32	93	5063	1.7219	ppb	87
57) MIBK (methyl isobutyl ket	7.26	58	3068	1.9397	ppb	98
58) 1-Bromo-2-chloroethane	6.85	63	10131	1.9256	ppb	87
59) 2-Chloroethyl vinyl ether	6.86	107	191	2.8635	ppb #	31
60) Cis-1,3-Dichloropropene	7.05	75	6699	1.8411	ppb	93
61) Toluene	7.39	91	33188	1.9299	ppb	89
62) Trans-1,3-Dichloropropene	7.66	75	10875	1.9266	ppb	94
63) 1,1,2-TCA	7.83	83	5884	1.7646	ppb	86
64) 2-Hexanone	8.14	58	1446	1.5110	ppb #	68
67) 1,2-EDB	8.30	107	7988	1.7984	ppb	89
68) Tetrachloroethene	7.96	164	9247	1.7846	ppb	88
69) 1-Chlorohexane	8.86	91	7296	1.8092	ppb	92
70) 1,1,1,2-Tetrachloroethane	8.92	131	4709	1.6752	ppb	88
71) m&p-Xylene	9.08	106	15304	3.6124	ppb	98
72) o-Xylene	9.47	106	12711	1.8428	ppb	86
73) Styrene	9.49	104	17249	1.7544	ppb	100
75) 1,3-Dichloropropane	7.99	76	7282	1.7155	ppb	96
76) Dibromochloromethane	8.21	129	5309	1.7813	ppb	95
77) Chlorobenzene	8.82	112	21312	1.7819	ppb	96
78) Ethylbenzene	8.96	91	35028	1.8673	ppb	97
79) Bromoform	9.64	173	3872	2.1750	ppb	87
81) Isopropylbenzene	9.85	105	31407	1.9114	ppb	91
82) 1,1,2,2-Tetrachloroethane	10.15	83	9835	1.8518	ppb	95
83) 1,2,3-Trichloropropane	10.17	110	4192	2.1747	ppb	76
84) t-1,4-Dichloro-2-Butene	10.21	53	1467	2.4488	ppb	92
85) Bromobenzene	10.10	156	10232	1.9267	ppb	95
86) n-Propylbenzene	10.26	91	33109	1.9154	ppb	98
87) 4-Ethyltoluene	10.37	105	21674	1.7724	ppb	88
88) 2-Chlorotoluene	10.31	91	22063	1.4732	ppb	98
89) 1,3,5-Trimethylbenzene	10.44	105	24559	1.9141	ppb	98
90) 4-Chlorotoluene	10.43	91	24226	1.8599	ppb	97
91) Tert-Butylbenzene	10.75	119	25883	2.1010	ppb	98
92) 1,2,4-Trimethylbenzene	10.80	105	24677	1.8954	ppb	93
93) Sec-Butylbenzene	10.97	105	27364	1.8206	ppb	95
94) p-Isopropyltoluene	11.12	119	25996	1.9292	ppb	98
95) Benzyl Chloride	11.28	91	5022	1.6811	ppb	99
96) 1,3-DCB	11.04	146	18173	1.9482	ppb	93
97) 1,4-DCB	11.14	146	17760	1.9123	ppb	96
98) n-Butylbenzene	11.53	91	19695	1.8260	ppb	91
99) 1,2-DCB	11.49	146	16733	1.9305	ppb	92
100) Hexachloroethane	11.74	117	2820	1.6983	ppb #	94
101) 1,2-Dibromo-3-chloropropan	12.26	157	2432	1.9980	ppb #	82
102) 1,2,4-Trichlorobenzene	13.08	182	5280	1.5545	ppb #	75
103) Hexachlorobutadiene	13.28	225	6264	2.0291	ppb	93
104) Naphthalene	13.31	128	13346	1.8155	ppb	91
105) 1,2,3-Trichlorobenzene	13.56	145	1677	1.5552	ppb #	68

(#) = qualifier out of range (m) = manual integration
 0726T07.D T0726W.M Mon Jul 29 14:18:32 2019

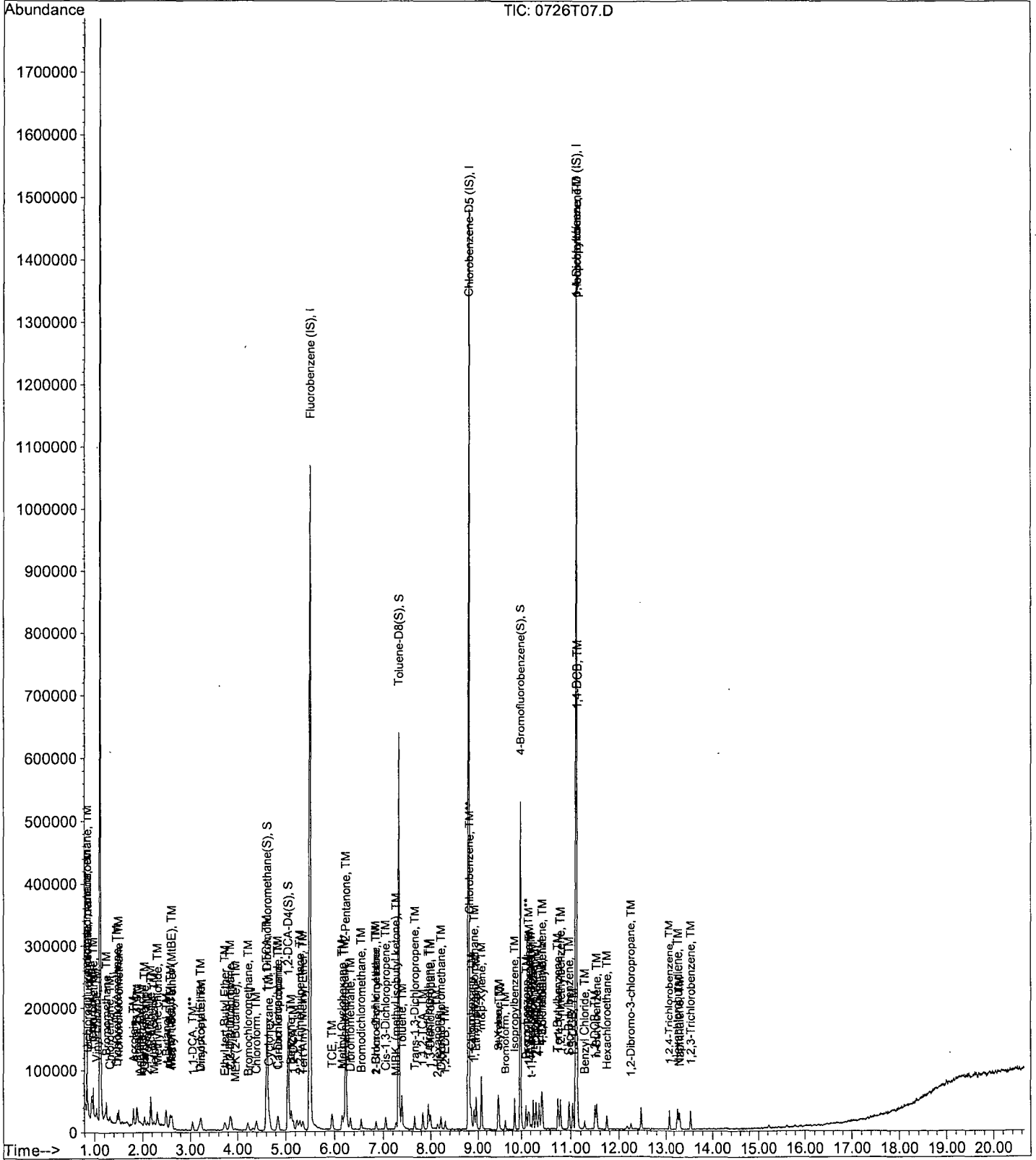
Data File : M:\THOR\DATA\T190726\0726T07.D
 Acq On : 26 Jul 19 14:59
 Sample : 2.0ug/L VOC STD 07/26/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 7
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 29 14:10 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0726T08.D Vial: 8
 Acq On : 26 Jul 19 15:27 Operator:
 Sample : 5.0ug/L VOC STD 07/26/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 29 14:11 2019 Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.50	96	517952	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	528768	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	271168	25.0000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	319621	29.1866	ppb	0.00
Spiked Amount	25.000		Recovery	=	116.748%	
45) 1,2-DCA-D4(S)	5.05	65	369788	29.6011	ppb	0.00
Spiked Amount	25.000		Recovery	=	118.404%	
66) Toluene-D8(S)	7.32	98	1130014	28.3507	ppb	0.00
Spiked Amount	25.000		Recovery	=	113.404%	
74) 4-Bromofluorobenzene(S)	9.98	95	428284	27.8292	ppb	0.00
Spiked Amount	25.000		Recovery	=	111.316%	
Target Compounds						
2) Chlorotrifluoroethene	0.85	116	77326	39.6103	ppb	98
3) Dichlorodifluoromethane	0.87	87	8159	5.0654	ppb	98
4) Freon 114	0.95	85	16364	4.5555	ppb	86
5) Chloromethane	0.98	50	55509	6.1942	ppb	97
6) Vinyl chloride	1.05	62	24453	5.4039	ppb	97
7) 2-Chloro-1,1,1-trifluoroet	0.85	118	24181	37.7297	ppb	# 100
8) Bromomethane	1.25	94	8622	5.7450	ppb	85
9) Chloroethane	1.32	64	14706	5.5205	ppb	98
10) Dichlorofluoromethane	1.47	67	31049	5.0095	ppb	100
11) Trichlorofluoromethane	1.50	101	35315	5.4306	ppb	100
13) Acrolein	1.81	55	22636	99.0712	ppb	89
14) Acetone	1.94	43	12719	6.6544	ppb	95
15) Freon-113	1.90	101	8995	5.1046	ppb	92
16) 1,1-DCE	1.88	61	27117	4.9171	ppb	97
17) 2-Propanol	2.10	45	11927	42.3101	ppb	95
18) Acetonitrile	2.17	41	56631	90.9770	ppb	99
19) t-Butanol	2.49	59	23168	98.0824	ppb	98
20) Methyl Acetate	2.24	43	17993	5.0618	ppb	99
21) Iodomethane	1.99	142	3872	4.7264	ppb	# 38
22) Acrylonitrile	2.56	52	6916	4.9057	ppb	90
23) Methylene chloride	2.31	84	22387	5.2359	ppb	100
24) Carbon disulfide	2.04	76	39593	4.6007	ppb	# 92
25) Methyl t-butyl ether (MtBE)	2.61	73	51990	4.8997	ppb	95
26) Trans-1,2-DCE	2.58	96	19311	5.1250	ppb	97
28) Diisopropyl Ether	3.22	45	19632	4.8182	ppb	98
30) 1,1-DCA	3.05	63	35486	4.9314	ppb	98
31) Vinyl Acetate	3.22	87	14622	4.8807	ppb	# 36
32) Ethyl tert Butyl Ether	3.73	59	36994	4.8442	ppb	96
33) MEK (2-Butanone)	3.95	43	3893	5.4027	ppb	100
34) Cis-1,2-DCE	3.86	61	34536	5.2895	ppb	93
35) 2,2-Dichloropropane	3.84	77	9992	5.0746	ppb	# 61
38) Chloroform	4.40	83	38214	5.0328	ppb	88
39) Bromochloromethane	4.22	128	12729	5.3481	ppb	94
41) 1,1,1-TCA	4.60	97	13484	5.2083	ppb	96
42) Cyclohexane	4.67	41	14809	5.4045	ppb	96
43) 1,1-Dichloropropene	4.85	75	25180	4.8288	ppb	91
44) 2,2,4-Trimethylpentane	5.29	57	15336	4.7412	ppb	# 69
46) Carbon Tetrachloride	4.83	117	21292	4.9669	ppb	93
47) Tert Amyl Methyl Ether	5.35	73	34283	4.7820	ppb	96

Data File : M:\THOR\DATA\T190726\0726T08.D
 Acq On : 26 Jul 19 15:27
 Sample : 5.0ug/L VOC STD 07/26/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 8
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 29 14:11 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) 1,2-DCA	5.15	62	31535	5.0258	ppb	97
50) Benzene	5.11	78	78362	5.0386	ppb	99
51) TCE	5.95	95	20923	4.9221	ppb	98
52) 2-Pentanone	6.23	43	293426	95.9128	ppb	100
53) 1,2-Dichloropropane	6.19	63	9686	4.7321	ppb #	100
54) Bromodichloromethane	6.54	83	15441	4.9641	ppb #	91
55) Methyl Cyclohexane	6.16	83	25050	5.0212	ppb	87
56) Dibromomethane	6.32	93	14227	4.8679	ppb	94
57) MIBK (methyl isobutyl ket	7.26	58	9094	5.5617	ppb	93
58) 1-Bromo-2-chloroethane	6.85	63	25920	4.9565	ppb	98
59) 2-Chloroethyl vinyl ether	6.85	107	1032	15.7994	ppb #	31
60) Cis-1,3-Dichloropropene	7.05	75	16448	4.5477	ppb	96
61) Toluene	7.39	91	81795	4.7853	ppb	89
62) Trans-1,3-Dichloropropene	7.66	75	26344	4.6954	ppb	95
63) 1,1,2-TCA	7.83	83	16071	4.8489	ppb	90
64) 2-Hexanone	8.14	58	4545	4.7782	ppb	88
67) 1,2-EDB	8.30	107	21878	4.8994	ppb	99
68) Tetrachloroethene	7.95	164	27050	5.1926	ppb	95
69) 1-Chlorohexane	8.85	91	18741	4.6225	ppb	94
70) 1,1,1,2-Tetrachloroethane	8.92	131	13418	4.7479	ppb	95
71) m&p-Xylene	9.08	106	41560	9.7576	ppb	99
72) o-Xylene	9.47	106	34885	5.0306	ppb	91
73) Styrene	9.48	104	44347	4.4865	ppb	97
75) 1,3-Dichloropropane	8.00	76	20888	4.8945	ppb	92
76) Dibromochloromethane	8.21	129	14578	4.8653	ppb	90
77) Chlorobenzene	8.82	112	59993	4.9892	ppb	100
78) Ethylbenzene	8.96	91	90206	4.7832	ppb	96
79) Bromoform	9.63	173	11974	4.9444	ppb	100
81) Isopropylbenzene	9.85	105	84179	5.0517	ppb	96
82) 1,1,2,2-Tetrachloroethane	10.15	83	27662	5.1359	ppb	95
83) 1,2,3-Trichloropropane	10.17	110	9783	5.0045	ppb	89
84) t-1,4-Dichloro-2-Butene	10.21	53	2917	4.5378	ppb	94
85) Bromobenzene	10.10	156	27505	5.1071	ppb	89
86) n-Propylbenzene	10.26	91	86093	4.9111	ppb	95
87) 4-Ethyltoluene	10.37	105	61092	4.9264	ppb	100
88) 2-Chlorotoluene	10.31	91	62901	5.2524	ppb	95
89) 1,3,5-Trimethylbenzene	10.44	105	63192	4.8565	ppb	97
90) 4-Chlorotoluene	10.43	91	68580	5.1916	ppb	97
91) Tert-Butylbenzene	10.75	119	61027	4.8848	ppb	97
92) 1,2,4-Trimethylbenzene	10.80	105	64854	4.9120	ppb	97
93) Sec-Butylbenzene	10.97	105	77717	5.0987	ppb	100
94) p-Isopropyltoluene	11.13	119	67603	4.9471	ppb	95
95) Benzyl Chloride	11.28	91	14882	5.4162	ppb	98
96) 1,3-DCB	11.05	146	43818	4.6321	ppb	97
97) 1,4-DCB	11.14	146	45760	4.8587	ppb	99
98) n-Butylbenzene	11.53	91	54191	4.9543	ppb	95
99) 1,2-DCB	11.49	146	46793	5.3233	ppb	96
100) Hexachloroethane	11.74	117	9040	5.3683	ppb #	92
101) 1,2-Dibromo-3-chloropropan	12.26	157	5964	4.7739	ppb	88
102) 1,2,4-Trichlorobenzene	13.08	182	17432	5.0608	ppb	96
103) Hexachlorobutadiene	13.28	225	16503	5.1648	ppb	92
104) Naphthalene	13.31	128	36632	4.9138	ppb	96
105) 1,2,3-Trichlorobenzene	13.55	145	5648	5.1648	ppb	85

(#) = qualifier out of range (m) = manual integration
 0726T08.D T0726W.M Mon Jul 29 14:18:37 2019 Page 64 of 97

Quantitation Report

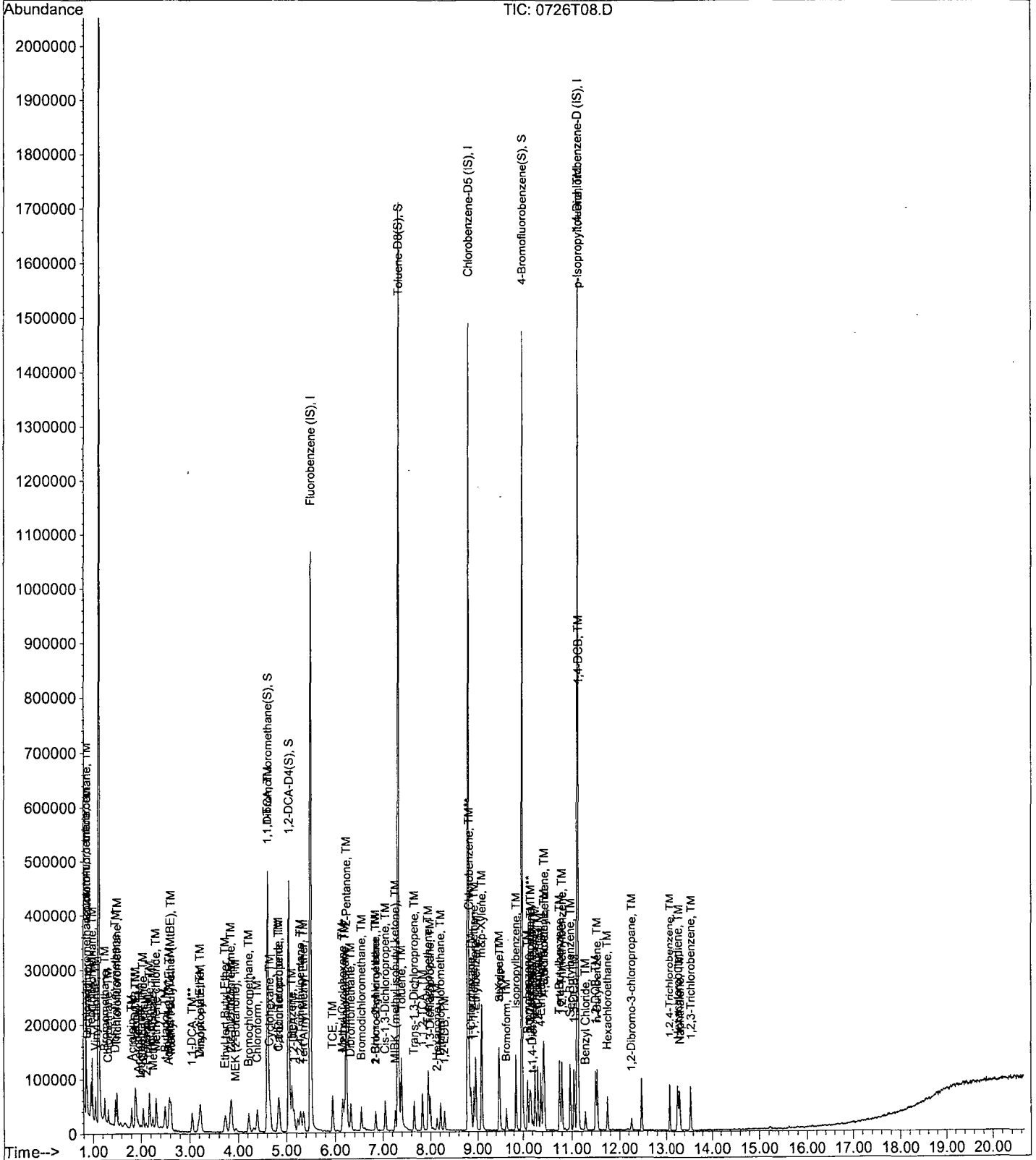
Data File : M:\THOR\DATA\T190726\0726T08.D
 Acq On : 26 Jul 19 15:27
 Sample : 5.0ug/L VOC STD 07/26/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 8
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 29 14:11 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0726T09.D Vial: 9
 Acq On : 26 Jul 19 15:55 Operator:
 Sample : 10ug/L VOC STD 07/26/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 29 14:11 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	516096	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	513536	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	275520	25.0000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	244604	22.4166	ppb	0.00
Spiked Amount	25.000		Recovery	=	89.668%	
45) 1,2-DCA-D4(S)	5.05	65	280529	22.5368	ppb	0.00
Spiked Amount	25.000		Recovery	=	90.148%	
66) Toluene-D8(S)	7.32	98	857337	22.1476	ppb	0.00
Spiked Amount	25.000		Recovery	=	88.592%	
74) 4-Bromofluorobenzene(S)	9.98	95	328447	21.9750	ppb	0.00
Spiked Amount	25.000		Recovery	=	87.900%	
Target Compounds						
2) Chlorotrifluoroethene	0.85	116	185984	95.6131	ppb	100
3) Dichlorodifluoromethane	0.87	87	13801	9.0149	ppb	100
4) Freon 114	0.95	85	31910	8.9151	ppb	100
5) Chloromethane	0.98	50	79458	9.5888	ppb	100
6) Vinyl chloride	1.05	62	41566	9.2188	ppb	100
7) 2-Chloro-1,1,1-trifluoroet	0.85	118	61573	96.4181	ppb	100
8) Bromomethane	1.24	94	13111	9.2305	ppb	100
9) Chloroethane	1.32	64	25506	10.0431	ppb	100
10) Dichlorofluoromethane	1.47	67	55937	9.0575	ppb	100
11) Trichlorofluoromethane	1.50	101	55605	8.5815	ppb	100
13) Acrolein	1.81	55	27751	121.8949	ppb	100
14) Acetone	1.94	43	15357	8.6433	ppb	100
15) Freon-113	1.90	101	16512	9.5609	ppb	100
16) 1,1-DCE	1.88	61	49447	8.9984	ppb	100
17) 2-Propanol	2.11	45	25745	90.3026	ppb	100
18) Acetonitrile	2.17	41	74384	124.5909	ppb	100
19) t-Butanol	2.50	59	26296	111.7252	ppb	100
20) Methyl Acetate	2.24	43	33222	9.3797	ppb	100
21) Iodomethane	1.99	142	7640	8.7814	ppb	100
22) Acrylonitrile	2.56	52	13261	9.4402	ppb	100
23) Methylene chloride	2.31	84	39664	9.5730	ppb	100
24) Carbon disulfide	2.04	76	77512	9.0393	ppb	100
25) Methyl t-butyl ether (MtBE)	2.61	73	93307	8.8252	ppb	100
26) Trans-1,2-DCE	2.58	96	35205	9.4020	ppb	100
28) Diisopropyl Ether	3.22	45	37328	9.1941	ppb	100
30) 1,1-DCA	3.05	63	63347	8.8348	ppb	100
31) Vinyl Acetate	3.22	87	27408	9.1815	ppb	100
32) Ethyl tert Butyl Ether	3.73	59	70211	9.2269	ppb	100
33) MEK (2-Butanone)	3.94	43	6693	9.4661	ppb	100
34) Cis-1,2-DCE	3.86	61	59576	9.4241	ppb	100
35) 2,2-Dichloropropane	3.84	77	18480	9.6641	ppb	100
38) Chloroform	4.39	83	66722	8.8190	ppb	100
39) Bromochloromethane	4.22	128	20340	8.8866	ppb	100
41) 1,1,1-TCA	4.60	97	24296	9.6043	ppb	100
42) Cyclohexane	4.66	41	25377	9.5606	ppb	100
43) 1,1-Dichloropropene	4.85	75	44511	8.5666	ppb	100
44) 2,2,4-Trimethylpentane	5.29	57	30456	9.3299	ppb	100
46) Carbon Tetrachloride	4.83	117	42166	8.7852	ppb	100
47) Tert Amyl Methyl Ether	5.35	73	63663	8.9121	ppb	100

(#) = qualifier out of range (m) = manual integration
 0726T09.D T0726W.M Mon Jul 29 14:18:41 2019

Data File : M:\THOR\DATA\T190726\0726T09.D
 Acq On : 26 Jul 19 15:55
 Sample : 10ug/L VOC STD 07/26/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 9
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 29 14:11 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) 1,2-DCA	5.15	62	56290	9.0034	ppb	100
50) Benzene	5.11	78	144896	9.3502	ppb	100
51) TCE	5.95	95	39407	9.3038	ppb	100
52) 2-Pentanone	6.23	43	360185	118.1578	ppb	100
53) 1,2-Dichloropropane	6.19	63	19312	9.5472	ppb	100
54) Bromodichloromethane	6.55	83	26832	8.6572	ppb	100
55) Methyl Cyclohexane	6.16	83	44655	8.9375	ppb	100
56) Dibromomethane	6.32	93	27945	9.5960	ppb	100
57) MIBK (methyl isobutyl ket	7.26	58	15186	9.2450	ppb	100
58) 1-Bromo-2-chloroethane	6.85	63	48289	9.2671	ppb	100
59) 2-Chloroethyl vinyl ether	6.86	107	1805	27.7728	ppb	100
60) Cis-1,3-Dichloropropene	7.05	75	31448	8.7264	ppb	100
61) Toluene	7.39	91	159497	9.3647	ppb	100
62) Trans-1,3-Dichloropropene	7.66	75	50545	9.0413	ppb	100
63) 1,1,2-TCA	7.83	83	29887	9.0498	ppb	100
64) 2-Hexanone	8.14	58	8558	9.0295	ppb	100
67) 1,2-EDB	8.30	107	41408	9.5480	ppb	100
68) Tetrachloroethene	7.95	164	45422	8.9779	ppb	100
69) 1-Chlorohexane	8.85	91	34366	8.7278	ppb	100
70) 1,1,1,2-Tetrachloroethane	8.92	131	25040	9.1231	ppb	100
71) m&p-Xylene	9.08	106	77128	18.6454	ppb	100
72) o-Xylene	9.47	106	62545	9.2869	ppb	100
73) Styrene	9.48	104	88822	9.2525	ppb	100
75) 1,3-Dichloropropane	7.99	76	38968	9.4019	ppb	100
76) Dibromochloromethane	8.21	129	27480	9.4433	ppb	100
77) Chlorobenzene	8.82	112	110020	9.4210	ppb	100
78) Ethylbenzene	8.96	91	166376	9.0838	ppb	100
79) Bromoform	9.63	173	20920	8.2227	ppb	100
81) Isopropylbenzene	9.85	105	158564	9.3654	ppb	100
82) 1,1,2,2-Tetrachloroethane	10.15	83	51861	9.4767	ppb	100
83) 1,2,3-Trichloropropane	10.17	110	17244	8.6818	ppb	100
84) t-1,4-Dichloro-2-Butene	10.21	53	6564	9.7169	ppb	100
85) Bromobenzene	10.10	156	52221	9.5432	ppb	100
86) n-Propylbenzene	10.26	91	159842	8.9741	ppb	100
87) 4-Ethyltoluene	10.37	105	111857	8.8775	ppb	100
88) 2-Chlorotoluene	10.31	91	115262	9.9655	ppb	100
89) 1,3,5-Trimethylbenzene	10.44	105	122433	9.2607	ppb	100
90) 4-Chlorotoluene	10.43	91	120542	8.9811	ppb	100
91) Tert-Butylbenzene	10.75	119	111287	8.7670	ppb	100
92) 1,2,4-Trimethylbenzene	10.80	105	115793	8.6315	ppb	100
93) Sec-Butylbenzene	10.97	105	143616	9.2732	ppb	100
94) p-Isopropyltoluene	11.13	119	123571	8.9000	ppb	100
95) Benzyl Chloride	11.28	91	25864	9.4506	ppb	100
96) 1,3-DCB	11.05	146	86787	9.0296	ppb	100
97) 1,4-DCB	11.14	146	86533	9.0427	ppb	100
98) n-Butylbenzene	11.53	91	100354	9.0298	ppb	100
99) 1,2-DCB	11.49	146	84253	9.4334	ppb	100
100) Hexachloroethane	11.74	117	15227	8.8995	ppb	100
101) 1,2-Dibromo-3-chloropropan	12.26	157	12361	9.6958	ppb	100
102) 1,2,4-Trichlorobenzene	13.08	182	34336	9.8109	ppb	100
103) Hexachlorobutadiene	13.28	225	30740	9.4128	ppb	100
104) Naphthalene	13.31	128	67488	8.9098	ppb	100
105) 1,2,3-Trichlorobenzene	13.55	145	10365	9.3286	ppb	100

(#) = qualifier out of range (m) = manual integration
 0726T09.D T0726W.M Mon Jul 29 14:18:41 2019

Quantitation Report

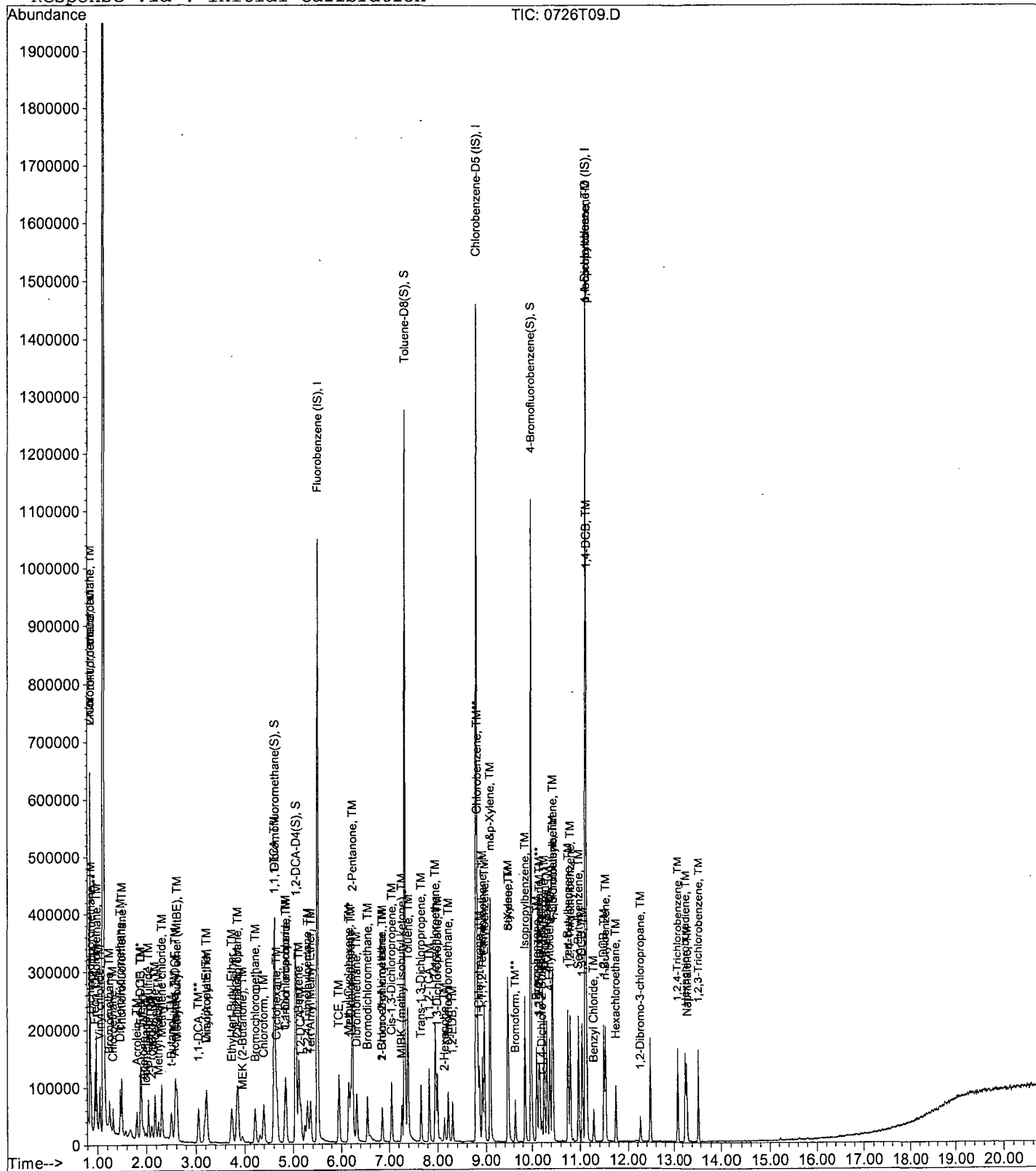
Data File : M:\THOR\DATA\T190726\0726T09.D
Acq On : 26 Jul 19 15:55
Sample : 10ug/L VOC STD 07/26/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 9
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 29 14:11 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0726T10.D
 Acq On : 26 Jul 19 16:24
 Sample : 20ug/L VOC STD 07/26/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 10
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 29 14:11 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	469568	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	465088	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	276672	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Dibromofluoromethane(S)	4.62	111	486727	49.0257	ppb	0.00
Spiked Amount				25.000		
				Recovery	= 196.104%	
45) 1,2-DCA-D4(S)	5.05	65	545002	48.1220	ppb	0.00
Spiked Amount				25.000		
				Recovery	= 192.488%	
66) Toluene-D8(S)	7.32	98	1706063	48.6637	ppb	0.00
Spiked Amount				25.000		
				Recovery	= 194.656%	
74) 4-Bromofluorobenzene(S)	9.98	95	684366	50.5578	ppb	0.00
Spiked Amount				25.000		
				Recovery	= 202.232%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chlorotrifluoroethene	0.85	116	227388	128.4818	ppb	99
3) Dichlorodifluoromethane	0.87	87	28120	20.9271	ppb	95
4) Freon 114	0.95	85	67802	20.8198	ppb	98
5) Chloromethane	0.98	50	145829	20.9503	ppb	99
6) Vinyl chloride	1.05	62	77177	18.8128	ppb	96
7) 2-Chloro-1,1,1-trifluoroet	0.85	118	75186	129.4009	ppb	# 100
8) Bromomethane	1.24	94	24896	20.2207	ppb	# 76
9) Chloroethane	1.31	64	43568	19.3690	ppb	95
10) Dichlorofluoromethane	1.47	67	110517	19.6684	ppb	98
11) Trichlorofluoromethane	1.49	101	114928	19.4943	ppb	97
13) Acrolein	1.80	55	38333	185.0597	ppb	# 66
14) Acetone	1.94	43	29211	21.0566	ppb	93
15) Freon-113	1.90	101	31336	20.1444	ppb	94
16) 1,1-DCE	1.88	61	98251	19.6515	ppb	97
17) 2-Propanol	2.12	45	31975	122.8441	ppb	98
18) Acetonitrile	2.18	41	86385	163.0808	ppb	93
19) t-Butanol	2.51	59	29913	139.6862	ppb	99
20) Methyl Acetate	2.24	43	60208	18.6830	ppb	88
21) Iodomethane	1.99	142	15641	19.0220	ppb	98
22) Acrylonitrile	2.56	52	25125	19.6581	ppb	99
23) Methylene chloride	2.31	84	76035	20.5437	ppb	96
24) Carbon disulfide	2.04	76	157510	20.1885	ppb	99
25) Methyl t-butyl ether (MtBE)	2.61	73	186054	19.3410	ppb	96
26) Trans-1,2-DCE	2.58	96	70523	20.7369	ppb	94
28) Diisopropyl Ether	3.22	45	72960	19.7512	ppb	99
30) 1,1-DCA	3.05	63	127579	19.5560	ppb	97
31) Vinyl Acetate	3.22	87	55211	20.3279	ppb	95
32) Ethyl tert Butyl Ether	3.73	59	149650	21.6151	ppb	99
33) MEK (2-Butanone)	3.94	43	13203	20.7559	ppb	96
34) Cis-1,2-DCE	3.85	61	118774	21.0846	ppb	96
35) 2,2-Dichloropropane	3.84	77	34608	20.1945	ppb	# 63
38) Chloroform	4.39	83	135197	19.6403	ppb	85
39) Bromochloromethane	4.22	128	44235	21.9551	ppb	91
41) 1,1,1-TCA	4.60	97	46632	20.5157	ppb	96
42) Cyclohexane	4.67	41	48873	20.6498	ppb	85
43) 1,1-Dichloropropene	4.85	75	92430	19.5517	ppb	92
44) 2,2,4-Trimethylpentane	5.29	57	60728	20.3033	ppb	98
46) Carbon Tetrachloride	4.83	117	87801	18.6882	ppb	96
47) Tert Amyl Methyl Ether	5.36	73	136613	21.0192	ppb	98

Data File : M:\THOR\DATA\T190726\0726T10.D
 Acq On : 26 Jul 19 16:24
 Sample : 20ug/L VOC STD 07/26/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 10
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 29 14:11 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) 1,2-DCA	5.15	62	112132	19.7122	ppb	94
50) Benzene	5.11	78	286942	20.3512	ppb	98
51) TCE	5.95	95	79534	20.6383	ppb	96
52) 2-Pentanone	6.23	43	423474	152.6847	ppb	99
53) 1,2-Dichloropropane	6.20	63	38624	21.0804	ppb #	100
54) Bromodichloromethane	6.54	83	57560	20.4117	ppb	98
55) Methyl Cyclohexane	6.16	83	94798	20.7762	ppb	92
56) Dibromomethane	6.32	93	55429	20.9198	ppb	98
57) MIBK (methyl isobutyl ket	7.26	58	29942	19.9033	ppb #	84
58) 1-Bromo-2-chloroethane	6.85	63	94065	19.8406	ppb	94
59) 2-Chloroethyl vinyl ether	6.85	107	4013	67.9407	ppb	90
60) Cis-1,3-Dichloropropene	7.05	75	68088	20.7655	ppb	97
61) Toluene	7.39	91	314282	20.2812	ppb	99
62) Trans-1,3-Dichloropropene	7.66	75	103674	20.3824	ppb	97
63) 1,1,2-TCA	7.83	83	60351	20.0850	ppb	89
64) 2-Hexanone	8.14	58	17808	20.6508	ppb	83
67) 1,2-EDB	8.30	107	80821	20.5772	ppb	99
68) Tetrachloroethene	7.95	164	96452	21.0503	ppb	93
69) 1-Chlorohexane	8.85	91	71853	20.1492	ppb	97
70) 1,1,1,2-Tetrachloroethane	8.92	131	52888	21.2765	ppb	97
71) m&p-Xylene	9.08	106	162816	43.4603	ppb	98
72) o-Xylene	9.47	106	130674	21.4241	ppb	93
73) Styrene	9.48	104	194716	22.3962	ppb	98
75) 1,3-Dichloropropane	7.99	76	78432	20.8947	ppb	98
76) Dibromochloromethane	8.21	129	58184	22.0774	ppb	98
77) Chlorobenzene	8.82	112	217043	20.5214	ppb	99
78) Ethylbenzene	8.96	91	344155	20.7475	ppb	98
79) Bromoform	9.64	173	48632	19.7883	ppb	98
81) Isopropylbenzene	9.85	105	329196	19.3626	ppb	99
82) 1,1,2,2-Tetrachloroethane	10.15	83	112086	20.3966	ppb #	89
83) 1,2,3-Trichloropropane	10.17	110	36683	18.3919	ppb	99
84) t-1,4-Dichloro-2-Butene	10.21	53	13937	20.2399	ppb	95
85) Bromobenzene	10.10	156	107778	19.6141	ppb	93
86) n-Propylbenzene	10.26	91	351277	19.6398	ppb	98
87) 4-Ethyltoluene	10.37	105	248865	19.6688	ppb	100
88) 2-Chlorotoluene	10.31	91	235837	20.9418	ppb	96
89) 1,3,5-Trimethylbenzene	10.44	105	257379	19.3868	ppb	99
90) 4-Chlorotoluene	10.42	91	265853	19.7252	ppb	99
91) Tert-Butylbenzene	10.75	119	241252	18.9263	ppb	99
92) 1,2,4-Trimethylbenzene	10.80	105	246124	18.2703	ppb	98
93) Sec-Butylbenzene	10.97	105	311668	20.0403	ppb	99
94) p-Isopropyltoluene	11.12	119	255711	18.3404	ppb	96
95) Benzyl Chloride	11.28	91	55800	20.6053	ppb	98
96) 1,3-DCB	11.04	146	191319	19.8225	ppb	99
97) 1,4-DCB	11.14	146	183176	19.0622	ppb	98
98) n-Butylbenzene	11.53	91	219142	19.6362	ppb	97
99) 1,2-DCB	11.49	146	184929	20.6195	ppb	98
100) Hexachloroethane	11.74	117	31800	18.5083	ppb #	93
101) 1,2-Dibromo-3-chloropropan	12.26	157	27902	21.7443	ppb	95
102) 1,2,4-Trichlorobenzene	13.08	182	78800	22.4218	ppb	93
103) Hexachlorobutadiene	13.28	225	67682	20.5588	ppb	94
104) Naphthalene	13.31	128	164544	21.6326	ppb	96
105) 1,2,3-Trichlorobenzene	13.55	145	20888	18.7211	ppb	92

Quantitation Report

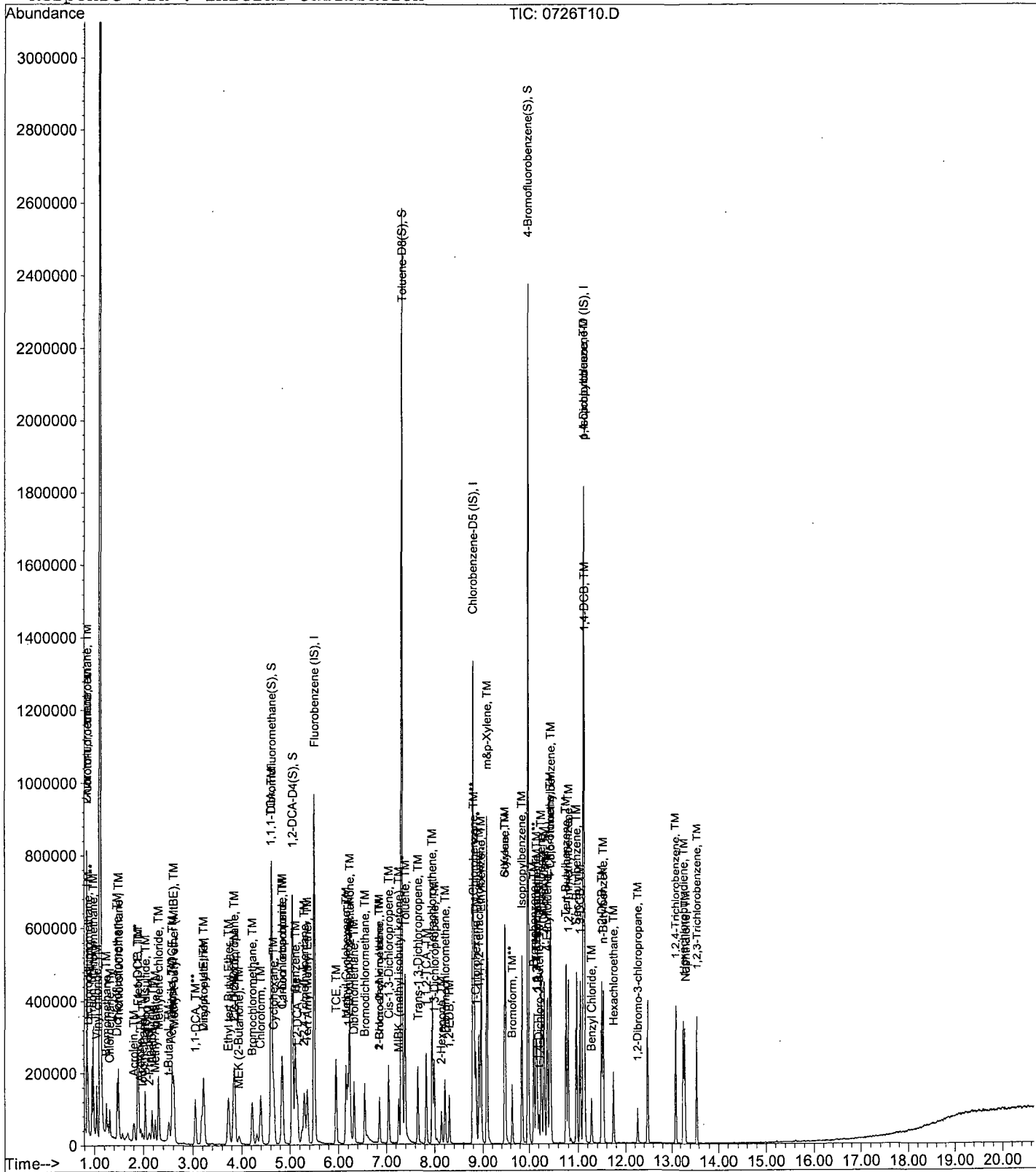
Data File : M:\THOR\DATA\T190726\0726T10.D
Acq On : 26 Jul 19 16:24
Sample : 20ug/L VOC STD 07/26/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 10
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 29 14:11 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0726T12.D Vial: 12
 Acq On : 26 Jul 19 17:20 Operator:
 Sample : 100ug/L VOC STD 07/26/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 29 14:11 2019 Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	470528	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	451200	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	300928	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Dibromofluoromethane(S)	4.62	111	908679	91.3402	ppb	0.00
Spiked Amount				25.000		
				Recovery =	365.360%	
45) 1,2-DCA-D4(S)	5.05	65	1022857	90.1309	ppb	0.00
Spiked Amount				25.000		
				Recovery =	360.524%	
66) Toluene-D8(S)	7.32	98	3125296	91.8898	ppb	0.00
Spiked Amount				25.000		
				Recovery =	367.560%	
74) 4-Bromofluorobenzene(S)	9.98	95	1340065	102.0449	ppb	0.00
Spiked Amount				25.000		
				Recovery =	408.180%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chlorotrifluoroethene	0.85	116	270538	152.5511	ppb	99
3) Dichlorodifluoromethane	0.87	87	131582	99.9127	ppb	93
4) Freon 114	0.95	85	315532	96.6919	ppb	98
5) Chloromethane	0.98	50	657560	99.8084	ppb	99
6) Vinyl chloride	1.05	62	387954	94.3755	ppb	95
7) 2-Chloro-1,1,1-trifluoroet	0.85	118	88603	152.1815	ppb	# 100
8) Bromomethane	1.24	94	108221	90.6560	ppb	# 76
9) Chloroethane	1.31	64	147557	66.8602	ppb	94
10) Dichlorofluoromethane	1.46	67	517541	91.9173	ppb	98
11) Trichlorofluoromethane	1.49	101	540315	91.4625	ppb	96
13) Acrolein	1.79	55	84477	406.9963	ppb	# 1
14) Acetone	1.95	43	126215	99.8660	ppb	95
15) Freon-113	1.89	101	154752	100.0108	ppb	95
16) 1,1-DCE	1.88	61	465440	92.9040	ppb	98
17) 2-Propanol	2.18	45	43373	165.8831	ppb	95
18) Acetonitrile	2.19	41	110779	212.8068	ppb	96
19) t-Butanol	2.56	59	45708	213.0094	ppb	98
20) Methyl Acetate	2.24	43	295104	91.3864	ppb	98
21) Iodomethane	1.99	142	84792	100.3099	ppb	96
22) Acrylonitrile	2.56	52	118332	92.3954	ppb	97
23) Methylene chloride	2.31	84	365837	99.9276	ppb	99
24) Carbon disulfide	2.03	76	768285	98.2725	ppb	97
25) Methyl t-butyl ether (MtBE)	2.62	73	944024	97.9347	ppb	96
26) Trans-1,2-DCE	2.58	96	340070	99.9079	ppb	96
28) Diisopropyl Ether	3.22	45	357696	96.6353	ppb	98
30) 1,1-DCA	3.05	63	603944	92.3868	ppb	97
31) Vinyl Acetate	3.23	87	270704	99.4658	ppb	94
32) Ethyl tert Butyl Ether	3.73	59	823519	118.7047	ppb	96
33) MEK (2-Butanone)	3.94	43	63195	99.8943	ppb	99
34) Cis-1,2-DCE	3.86	61	555949	99.8286	ppb	99
35) 2,2-Dichloropropane	3.84	77	169792	99.9902	ppb	# 61
38) Chloroform	4.39	83	647794	93.9143	ppb	90
39) Bromochloromethane	4.22	128	197720	99.7110	ppb	93
41) 1,1,1-TCA	4.60	97	225600	99.9310	ppb	97
42) Cyclohexane	4.66	41	233617	99.9000	ppb	87
43) 1,1-Dichloropropene	4.85	75	451704	95.3538	ppb	99
44) 2,2,4-Trimethylpentane	5.29	57	301184	100.0147	ppb	97
46) Carbon Tetrachloride	4.83	117	496543	100.3633	ppb	100
47) Tert Amyl Methyl Ether	5.36	73	772260	118.5774	ppb	99

(#) = qualifier out of range (m) = manual integration
 0726T12.D T0726W.M Mon Jul 29 14:18:50 2019

Data File : M:\THOR\DATA\T190726\0726T12.D Vial: 12
 Acq On : 26 Jul 19 17:20 Operator:
 Sample : 100ug/L VOC STD 07/26/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 29 14:11 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) 1,2-DCA	5.15	62	528212	92.6674	ppb	95
50) Benzene	5.11	78	1365105	96.6217	ppb	97
51) TCE	5.95	95	374464	96.9715	ppb	98
52) 2-Pentanone	6.24	43	567225	204.0973	ppb	100
53) 1,2-Dichloropropane	6.20	63	182784	99.8493	ppb	# 100
54) Bromodichloromethane	6.55	83	277184	98.0934	ppb	98
55) Methyl Cyclohexane	6.16	83	457992	99.9489	ppb	91
56) Dibromomethane	6.32	93	261099	98.3418	ppb	97
57) MIBK (methyl isobutyl ket	7.27	58	151531	100.0667	ppb	# 81
58) 1-Bromo-2-chloroethane	6.85	63	454570	95.6844	ppb	97
59) 2-Chloroethyl vinyl ether	6.85	107	17667	298.6739	ppb	89
60) Cis-1,3-Dichloropropene	7.05	75	353280	107.5238	ppb	93
61) Toluene	7.39	91	1467406	94.5010	ppb	97
62) Trans-1,3-Dichloropropene	7.66	75	539956	105.9392	ppb	97
63) 1,1,2-TCA	7.83	83	297021	98.6480	ppb	88
64) 2-Hexanone	8.14	58	91640	106.0522	ppb	85
67) 1,2-EDB	8.30	107	396138	103.9621	ppb	98
68) Tetrachloroethene	7.95	164	452423	101.7787	ppb	94
69) 1-Chlorohexane	8.85	91	347634	100.4851	ppb	96
70) 1,1,1,2-Tetrachloroethane	8.92	131	267328	110.8546	ppb	99
71) m&p-Xylene	9.08	106	819196	225.3979	ppb	97
72) o-Xylene	9.47	106	646063	109.1829	ppb	94
73) Styrene	9.49	104	1071649	127.0551	ppb	97
75) 1,3-Dichloropropane	7.99	76	370112	101.6349	ppb	99
76) Dibromochloromethane	8.21	129	274816	107.4862	ppb	97
77) Chlorobenzene	8.82	112	1039615	101.3211	ppb	98
78) Ethylbenzene	8.96	91	1616270	100.4365	ppb	97
79) Bromoform	9.64	173	247424	100.2059	ppb	98
81) Isopropylbenzene	9.85	105	1660801	89.8109	ppb	99
82) 1,1,2,2-Tetrachloroethane	10.15	83	535382	89.5720	ppb	# 89
83) 1,2,3-Trichloropropane	10.17	110	174052	80.2311	ppb	98
84) t-1,4-Dichloro-2-Butene	10.21	53	75712	99.9939	ppb	99
85) Bromobenzene	10.10	156	540558	90.4446	ppb	99
86) n-Propylbenzene	10.26	91	1844273	94.8016	ppb	98
87) 4-Ethyltoluene	10.37	105	1393606	101.2646	ppb	99
88) 2-Chlorotoluene	10.31	91	1195142	99.8159	ppb	98
89) 1,3,5-Trimethylbenzene	10.44	105	1390761	96.3138	ppb	98
90) 4-Chlorotoluene	10.43	91	1379103	94.0762	ppb	99
91) Tert-Butylbenzene	10.75	119	1284911	92.6769	ppb	99
92) 1,2,4-Trimethylbenzene	10.80	105	1314932	89.7426	ppb	98
93) Sec-Butylbenzene	10.97	105	1693776	100.1316	ppb	99
94) p-Isopropyltoluene	11.13	119	1411110	93.0515	ppb	97
95) Benzyl Chloride	11.28	91	291376	99.9203	ppb	96
96) 1,3-DCB	11.05	146	953392	90.8183	ppb	99
97) 1,4-DCB	11.14	146	948408	90.7409	ppb	96
98) n-Butylbenzene	11.53	91	1075514	88.6036	ppb	99
99) 1,2-DCB	11.49	146	943394	96.7093	ppb	98
100) Hexachloroethane	11.74	117	171525	91.7845	ppb	# 94
101) 1,2-Dibromo-3-chloropropan	12.26	157	139356	99.7020	ppb	95
102) 1,2,4-Trichlorobenzene	13.08	182	439168	114.8890	ppb	95
103) Hexachlorobutadiene	13.28	225	358780	99.9385	ppb	95
104) Naphthalene	13.31	128	961152	116.1774	ppb	98
105) 1,2,3-Trichlorobenzene	13.55	145	122760	101.1566	ppb	93

(#) = qualifier out of range (m) = manual integration
 0726T12.D T0726W.M Mon Jul 29 14:18:51 2019

Quantitation Report

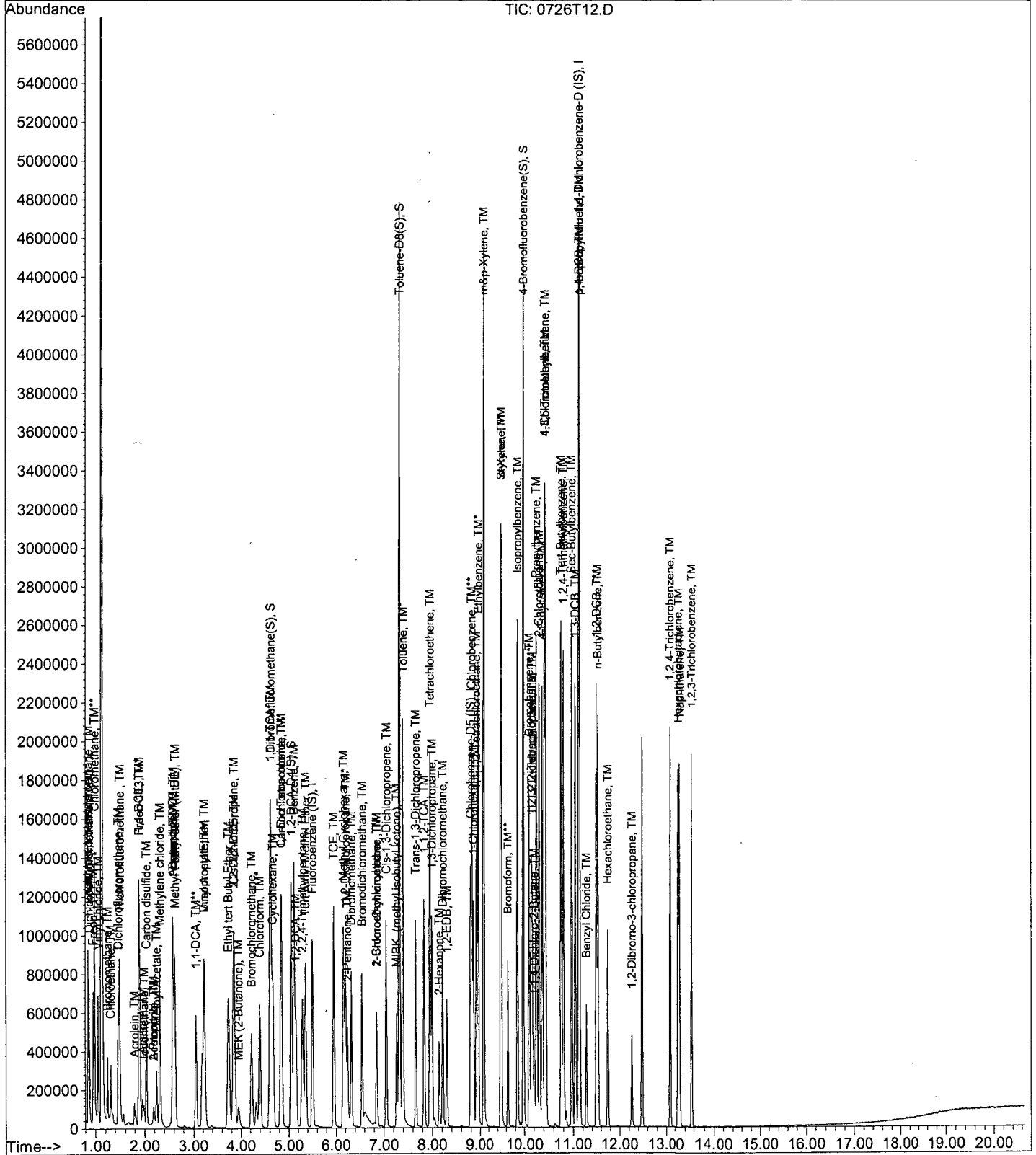
Data File : M:\THOR\DATA\T190726\0726T12.D
Acq On : 26 Jul 19 17:20
Sample : 100ug/L VOC STD 07/26/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 12
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 29 14:11 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/26/19
Instrument: Thor
Initial Cal. Date: 07/26/19
Data File: 0726T16.D

		Compound	MEAN	CCRF	%D	%Drift	
1	TM	Chlorotrifluoroethene	0.0942	0.0970	3.0	TM	
2	TML	Dichlorodifluoromethane	0.0908	0.0645	29	TML	13
3	TM	Freon 114	0.1734	0.1690	2.5	TM	
4	TM**L	Chloromethane	0.5592	0.4050	28	TM**L	1.7
5	TM*	Vinyl chloride	0.2184	0.2204	0.91	TM*	
6	TM	2-Chloro-1,1,1-trifluoroethane	0.0309	0.0317	2.5	TM	
7	TML	Bromomethane	0.0983	0.0738	25	TML	8.8
8	TML	Chloroethane	0.1599	0.1224	23	TML	0.59
9	TM	Dichlorofluoromethane	0.2992	0.3023	1.1	TM	
10	TM	Trichlorofluoromethane	0.3139	0.2950	6.0	TM	
11	TM	Diethyl ether	0.0000	0.0024	0.00	TM	
12	TM	Acrolein	0.0110	0.0125	13	TM	
13	TML	Acetone	0.0914	0.0952	4.2	TML	18
14	TML	Freon-113	0.0952	0.0819	14	TML	2.0
15	TM*	1,1-DCE	0.2662	0.2642	0.74	TM*	
16	TML	2-Propanol	0.0152	0.0137	9.4	TML	0.56
17	TML	Acetonitrile	0.0321	0.0287	11	TML	0.94
18	TM	t-Butanol	0.0114	0.0106	6.7	TM	
19	TM	Methyl Acetate	0.1716	0.1740	1.4	TM	
20	TML	Iodomethane	0.0480	0.0430	10	TML	1.1
21	TM	Acrylonitrile	0.0680	0.0723	6.3	TM	
22	TML	Methylene chloride	0.2284	0.1937	15	TML	3.5
23	TM	Carbon disulfide	0.4154	0.4237	2.0	TM	
24	TM	Methyl t-butyl ether (MtBE)	0.5122	0.4769	6.9	TM	
25	TML	Trans-1,2-DCE	0.1752	0.1907	8.8	TML	5.2
26	TM	Hexane	0.0000	0.0347	0.00	TM	
27	TM	Diisopropyl Ether	0.1967	0.1930	1.9	TM	
28	TM**	2,2-Dichloro-1,1,1-trifluoroethane	0.0000	0.0005	0.00	TM**	
29	TM**	1,1-DCA	0.3473	0.3289	5.3	TM**	
30	TM	Vinyl Acetate	0.1446	0.1427	1.3	TM	
31	TM	Ethyl tert Butyl Ether	0.3686	0.3686	0.00	TM	
32	TML	MEK (2-Butanone)	0.0371	0.0361	2.6	TML	5.5
33	TML	Cis-1,2-DCE	0.3051	0.3111	2.0	TML	1.9
34	TML	2,2-Dichloropropane	0.1039	0.0882	15	TML	4.8
35	TM	2-Methylpentane	0.0000	0.0009	0.00	TM	
36	TM	3-Methylpentane	0.0000	0.1052	0.00	TM	
37	TM*	Chloroform	0.3665	0.3481	5.0	TM*	
38	TML	Bromochloromethane	0.1137	0.1209	6.4	TML	10
39	TML	1,1,1-TCA	0.1329	0.1140	14	TML	7.1
40	TML	Cyclohexane	0.1420	0.1279	9.9	TML	0.40

Average

7.3

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 07/26/19
Instrument: Thor
Cal. Date: 07/26/19
Data File: 0726T16.D

		Compound	MEAN	CCRF	%D	%Drift	
41	TM	1,1-Dichloropropene	0.2517	0.2432	3.4	TM	
42	TML	2,2,4-Trimethylpentane	0.1698	0.1470	13	TML	7.0
43	TML	Carbon Tetrachloride	0.2053	0.2216	8.0	TML	5.6
44	TM	Tert Amyl Methyl Ether	0.3460	0.3300	4.6	TM	
45	TM	Methylcyclopentane	0.0000	0.0213	0.00	TM	
46	TM	1,2-DCA	0.3029	0.2698	11	TM	
47	TM	Benzene	0.7507	0.7641	1.8	TM	
48	TM	TCE	0.2052	0.2161	5.3	TM	
49	TM	2-Pentanone	0.1477	0.1431	3.1	TM	
50	TM*L	1,2-Dichloropropane	0.1026	0.1017	0.86	TM*L	3.8
51	TM	Bromodichloromethane	0.1501	0.1440	4.1	TM	
52	TML	Methyl Cyclohexane	0.2552	0.2325	8.9	TML	4.0
53	TM	Dibromomethane	0.1411	0.1373	2.7	TM	
54	TML	MIBK (methyl isobutyl ketone)	0.0824	0.0839	1.7	TML	5.2
55	TM	1-Bromo-2-chloroethane	0.2524	0.2478	1.8	TM	
56	TML	2-Chloroethyl vinyl ether	0.0026	0.0034	31	TML	6.8
57	TM	Cis-1,3-Dichloropropene	0.1746	0.1671	4.3	TM	
58	TM*	Toluene	0.8250	0.8367	1.4	TM*	
59	TM	Trans-1,3-Dichloropropene	0.2708	0.2619	3.3	TM	
60	TM	1,1,2-TCA	0.1600	0.1511	5.5	TM	
61	TM	2-Hexanone	0.0459	0.0521	13	TM	
62	TM	1,2-EDB	0.2111	0.2169	2.7	TM	
63	TM	Tetrachloroethene	0.2463	0.2572	4.4	TM	
64	TM	1-Chlorohexane	0.1917	0.1814	5.4	TM	
65	TM	1,1,1,2-Tetrachloroethane	0.1336	0.1354	1.3	TM	
66	TM	m&p-Xylene	0.2014	0.2071	2.8	TM	
67	TM	o-Xylene	0.3279	0.3276	0.07	TM	
68	TM	Styrene	0.4673	0.4791	2.5	TM	
69	TM	1,3-Dichloropropane	0.2018	0.2084	3.3	TM	
70	TM	Dibromochloromethane	0.1417	0.1434	1.2	TM	
71	TM**	Chlorobenzene	0.5685	0.5726	0.71	TM**	
72	TM*	Ethylbenzene	0.8916	0.8934	0.20	TM*	
73	TM**L	Bromoform	0.1170	0.1082	7.5	TM**L	13
74	TM	Isopropylbenzene	1.536	1.541	0.32	TM	
75	TM**	1,1,2,2-Tetrachloroethane	0.4966	0.4945	0.42	TM**	
76	TM	1,2,3-Trichloropropane	0.1802	0.1652	8.3	TM	
77	TML	t-1,4-Dichloro-2-Butene	0.0552	0.0633	15	TML	3.2
78	TM	Bromobenzene	0.4965	0.4920	0.91	TM	
79	TM	n-Propylbenzene	1.616	1.558	3.6	TM	
80	TM	4-Ethyltoluene	1.143	1.132	1.0	TM	

Average

4.8

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 07/26/19

Matrix: 0

Instrument: Thor

Cal. Date: 07/26/19

Data File: 0726T16.D

		Compound	MEAN	CCRF	%D	%Drift	
81	TML	2-Chlorotoluene	1.189	1.121	5.7	TML	7.2
82	TM	1,3,5-Trimethylbenzene	1.200	1.155	3.7	TM	
83	TM	4-Chlorotoluene	1.218	1.216	0.15	TM	
84	TM	Tert-Butylbenzene	1.152	1.074	6.7	TM	
85	TM	1,2,4-Trimethylbenzene	1.217	1.162	4.6	TM	
86	TM	Sec-Butylbenzene	1.405	1.370	2.5	TM	
87	TM	p-Isopropyltoluene	1.260	1.157	8.2	TM	
88	TML	Benzyl Chloride	0.2713	0.2224	18	TML	11
89	TM	1,3-DCB	0.8721	0.8402	3.7	TM	
90	TM	1,4-DCB	0.8683	0.8349	3.8	TM	
91	TM	n-Butylbenzene	1.008	1.030	2.2	TM	
92	TM	1,2-DCB	0.8104	0.8072	0.39	TM	
93	TM	Hexachloroethane	0.1553	0.1428	8.0	TM	
94	TML	1,2-Dibromo-3-chloropropane	0.0983	0.1183	20	TML	2.3
95	TM	1,2,4-Trichlorobenzene	0.3176	0.3376	6.3	TM	
96	TML	Hexachlorobutadiene	0.2775	0.3049	9.9	TML	2.8
97	TM	Naphthalene	0.6873	0.6987	1.7	TM	
98	TM	1,2,3-Trichlorobenzene	0.1008	0.0905	10	TM	
99							
100							
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							

Average

6.4

Data File : M:\THOR\DATA\T190726\0726T16.D
 Acq On : 26 Jul 19 19:13
 Sample : SS 10ug/L VOC STD 07/26/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 16
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 29 9:38 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:38:07 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	510848	25.00000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	497280	25.00000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	272960	25.00000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	239932	22.21435	ppb	0.00
Spiked Amount	25.000		Recovery	=	88.856%	
45) 1,2-DCA-D4(S)	5.05	65	272912	22.15006	ppb	0.00
Spiked Amount	25.000		Recovery	=	88.600%	
66) Toluene-D8(S)	7.32	98	838559	22.37061	ppb	0.00
Spiked Amount	25.000		Recovery	=	89.484%	
74) 4-Bromofluorobenzene(S)	9.98	95	325207	22.46951	ppb	0.00
Spiked Amount	25.000		Recovery	=	89.880%	
Target Compounds						Qvalue
2) Chlorotrifluoroethene	0.85	116	198264	102.97330	ppb	98
3) Dichlorodifluoromethane	0.87	87	13178	8.67530	ppb	98
4) Freon 114	0.95	85	34536	9.74794	ppb	100
5) Chloromethane	0.98	50	82752	10.17136	ppb	99
6) Vinyl chloride	1.05	62	45037	10.09118	ppb	93
7) 2-Chloro-1,1,1-trifluoroet	0.85	118	64787	102.49320	ppb	# 100
8) Bromomethane	1.24	94	15090	10.87611	ppb	# 78
9) Chloroethane	1.32	64	25004	9.94092	ppb	97
10) Dichlorofluoromethane	1.47	67	61774	10.10537	ppb	94
11) Trichlorofluoromethane	1.50	101	60286	9.39953	ppb	97
13) Acrolein	1.81	55	31863	141.39446	ppb	94
14) Acetone	1.94	43	19458	11.83097	ppb	91
15) Freon-113	1.90	101	16744	9.79936	ppb	94
16) 1,1-DCE	1.88	61	53989	9.92590	ppb	96
17) 2-Propanol	2.10	45	28095	99.43882	ppb	99
18) Acetonitrile	2.17	41	73222	123.82381	ppb	95
19) t-Butanol	2.50	59	27184	116.68465	ppb	98
20) Methyl Acetate	2.24	43	35565	10.14432	ppb	99
21) Iodomethane	1.99	142	8792	10.11344	ppb	99
22) Acrylonitrile	2.56	52	14779	10.62886	ppb	82
23) Methylene chloride	2.31	84	39585	9.65489	ppb	98
24) Carbon disulfide	2.04	76	86583	10.20085	ppb	95
25) Methyl t-butyl ether (MtBE)	2.61	73	97454	9.31209	ppb	96
26) Trans-1,2-DCE	2.58	96	38964	10.51638	ppb	93
28) Diisopropyl Ether	3.22	45	39440	9.81415	ppb	96
30) 1,1-DCA	3.05	63	67205	9.46910	ppb	94
31) Vinyl Acetate	3.22	87	29150	9.86532	ppb	97
32) Ethyl tert Butyl Ether	3.73	59	75320	9.99997	ppb	93
33) MEK (2-Butanone)	3.94	43	7371	10.55449	ppb	95
34) Cis-1,2-DCE	3.86	61	63570	10.18769	ppb	96
35) 2,2-Dichloropropane	3.83	77	18024	9.51828	ppb	# 64
38) Chloroform	4.39	83	71121	9.49700	ppb	91
39) Bromochloromethane	4.22	128	24714	11.02531	ppb	93
41) 1,1,1-TCA	4.60	97	23288	9.29312	ppb	92
42) Cyclohexane	4.67	41	26128	9.95954	ppb	90
43) 1,1-Dichloropropene	4.85	75	49704	9.66428	ppb	96
44) 2,2,4-Trimethylpentane	5.28	57	30048	9.29984	ppb	99
46) Carbon Tetrachloride	4.83	117	45287	9.43886	ppb	98

Data File : M:\THOR\DATA\T190726\0726T16.D
 Acq On : 26 Jul 19 19:13
 Sample : SS 10ug/L VOC STD 07/26/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 16
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 29 9:38 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:38:07 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47) Tert Amyl Methyl Ether	5.35	73	67435	9.53712	ppb	# 97
49) 1,2-DCA	5.15	62	55124	8.90745	ppb	95
50) Benzene	5.11	78	156137	10.17907	ppb	98
51) TCE	5.95	95	44154	10.53169	ppb	92
52) 2-Pentanone	6.23	43	365405	121.10167	ppb	99
53) 1,2-Dichloropropane	6.20	63	20776	10.38333	ppb	# 100
54) Bromodichloromethane	6.55	83	29416	9.58846	ppb	# 99
55) Methyl Cyclohexane	6.16	83	47516	9.60350	ppb	98
56) Dibromomethane	6.32	93	28060	9.73451	ppb	96
57) MIBK (methyl isobutyl ket	7.26	58	17137	10.52417	ppb	# 78
58) 1-Bromo-2-chloroethane	6.85	63	50641	9.81830	ppb	99
59) 2-Chloroethyl vinyl ether	6.85	107	2061	32.04563	ppb	96
60) Cis-1,3-Dichloropropene	7.05	75	34144	9.57180	ppb	96
61) Toluene	7.39	91	170967	10.14127	ppb	99
62) Trans-1,3-Dichloropropene	7.66	75	53511	9.67019	ppb	97
63) 1,1,2-TCA	7.83	83	30877	9.44561	ppb	95
64) 2-Hexanone	8.14	58	10640	11.34149	ppb	# 96
67) 1,2-EDB	8.30	107	43140	10.27252	ppb	98
68) Tetrachloroethene	7.95	164	51160	10.44266	ppb	97
69) 1-Chlorohexane	8.85	91	36080	9.46268	ppb	97
70) 1,1,1,2-Tetrachloroethane	8.92	131	26936	10.13469	ppb	94
71) m&p-Xylene	9.08	106	82392	20.56910	ppb	98
72) o-Xylene	9.47	106	65168	9.99269	ppb	89
73) Styrene	9.48	104	95289	10.25063	ppb	99
75) 1,3-Dichloropropane	7.99	76	41448	10.32717	ppb	99
76) Dibromochloromethane	8.21	129	28528	10.12396	ppb	95
77) Chlorobenzene	8.82	112	113889	10.07110	ppb	96
78) Ethylbenzene	8.96	91	177718	10.02022	ppb	96
79) Bromoform	9.64	173	21528	8.68552	ppb	98
81) Isopropylbenzene	9.85	105	168272	10.03199	ppb	98
82) 1,1,2,2-Tetrachloroethane	10.15	83	53990	9.95831	ppb	# 89
83) 1,2,3-Trichloropropane	10.17	110	18041	9.16828	ppb	99
84) t-1,4-Dichloro-2-Butene	10.21	53	6916	10.31658	ppb	# 75
85) Bromobenzene	10.10	156	53719	9.90904	ppb	98
86) n-Propylbenzene	10.26	91	170152	9.64254	ppb	100
87) 4-Ethyltoluene	10.37	105	123580	9.89986	ppb	98
88) 2-Chlorotoluene	10.31	91	122380	10.72409	ppb	99
89) 1,3,5-Trimethylbenzene	10.44	105	126095	9.62714	ppb	99
90) 4-Chlorotoluene	10.42	91	132771	9.98505	ppb	100
91) Tert-Butylbenzene	10.75	119	117306	9.32786	ppb	98
92) 1,2,4-Trimethylbenzene	10.80	105	126840	9.54367	ppb	96
93) Sec-Butylbenzene	10.97	105	149566	9.74792	ppb	100
94) p-Isopropyltoluene	11.13	119	126287	9.18089	ppb	99
95) Benzyl Chloride	11.28	91	24280	8.94127	ppb	98
96) 1,3-DCB	11.04	146	91736	9.63397	ppb	96
97) 1,4-DCB	11.14	146	91158	9.61538	ppb	95
98) n-Butylbenzene	11.53	91	112507	10.21829	ppb	96
99) 1,2-DCB	11.49	146	88138	9.96097	ppb	97
100) Hexachloroethane	11.74	117	15590	9.19711	ppb	# 97
101) 1,2-Dibromo-3-chloropropan	12.26	157	12920	10.22713	ppb	94
102) 1,2,4-Trichlorobenzene	13.08	182	36864	10.63197	ppb	96
103) Hexachlorobutadiene	13.28	225	33290	10.28299	ppb	98
104) Naphthalene	13.31	128	76288	10.16598	ppb	99

(#) = qualifier out of range (m) = manual integration

Data File : M:\THOR\DATA\T190726\0726T16.D Vial: 16
 Acq On : 26 Jul 19 19:13 Operator:
 Sample : SS 10ug/L VOC STD 07/26/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 29 9:38 2019 Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:38:07 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
105) 1,2,3-Trichlorobenzene	13.55	145	9886	8.98093	ppb	90

Quantitation Report

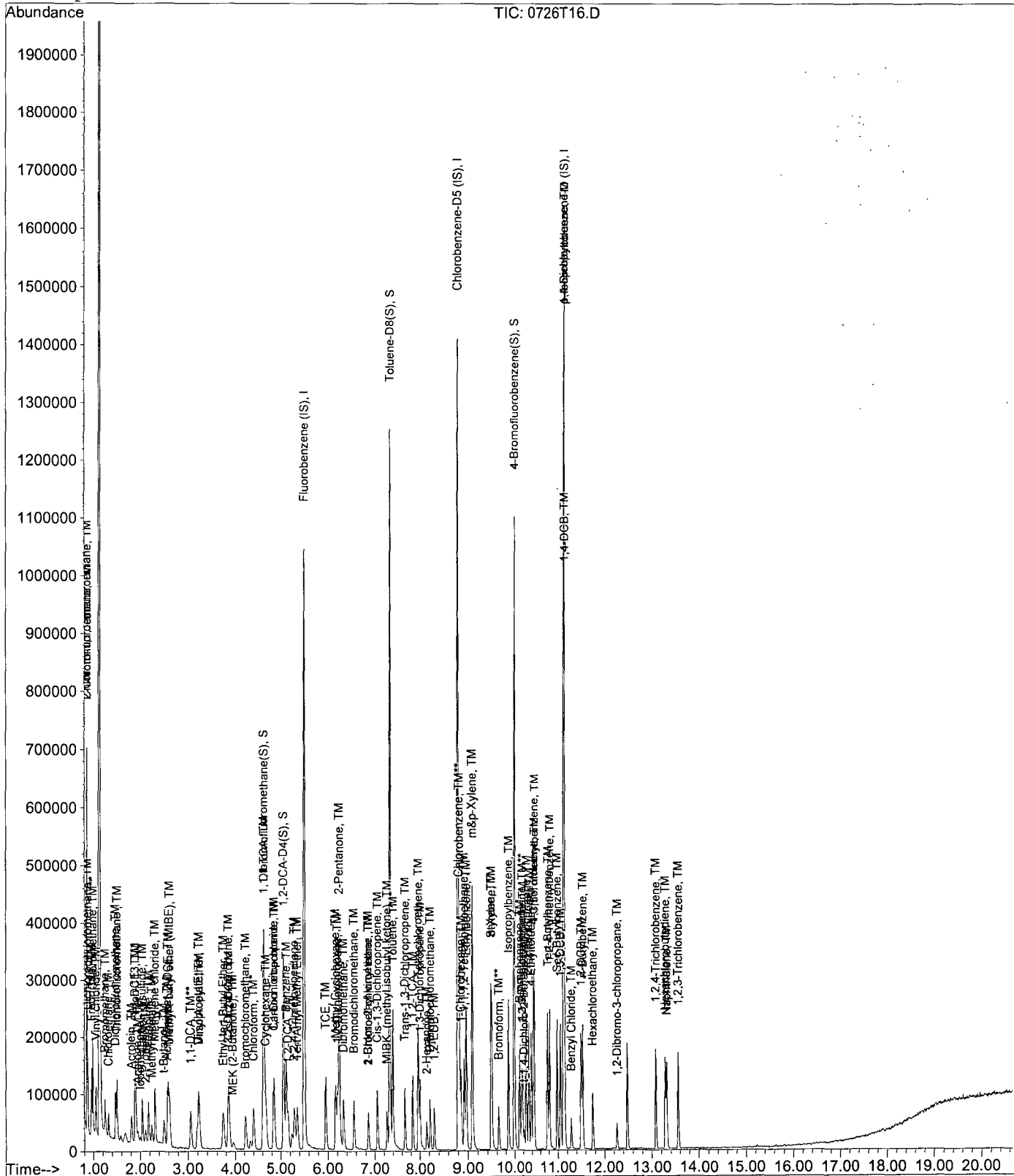
Data File : M:\THOR\DATA\T190726\0726T16.D
Acq On : 26 Jul 19 19:13
Sample : SS 10ug/L VOC STD 07/26/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 16
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 29 9:38 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 7/29/2019
Instrument: Thor
Initial Cal. Date: 7/26/2019
Data File: 0729T21.D

		Compound	MEAN	CCRF	%D		%Drift	
1	I	Fluorobenzene (IS)	ISTD			I		
2	TM	Chlorotrifluoroethene	0.0942	0.0001	100	TM		NT
3	TML	Dichlorodifluoromethane	0.0908	0.0803	12	TML	9.4	
4	TM	Freon 114	0.1734	0.1770	2.1	TM		
5	TM**L	Chloromethane	0.5592	0.3755	33	TM**L	6.8	
6	TM*	Vinyl chloride	0.2184	0.2266	3.8	TM*		
7	TM	2-Chloro-1,1,1-trifluoroethane	0.0309	0.0001	100	TM		NT
8	TML	Bromomethane	0.0983	0.0814	17	TML	21	NT
9	TML	Chloroethane	0.1599	0.1262	21	TML	2.7	
10	TM	Dichlorofluoromethane	0.2992	0.3109	3.9	TM		
11	TM	Trichlorofluoromethane	0.3139	0.3227	2.8	TM		
12	TM	Diethyl ether	0.0000	0.0003	0.00	TM		
13	TM	Acrolein	0.0110	0.0122	10	TM		
14	TML	Acetone	0.0914	0.0933	2.1	TML	15	
15	TML	Freon-113	0.0952	0.0935	1.8	TML	12	
16	TM*	1,1-DCE	0.2662	0.2779	4.4	TM*		
17	TML	2-Propanol	0.0152	0.0012	92	TML	90	NT
18	TML	Acetonitrile	0.0321	0.0290	9.7	TML	0.20	
19	TM	t-Butanol	0.0114	0.0118	3.8	TM		
20	TM	Methyl Acetate	0.1716	0.1720	0.22	TM		
21	TML	Iodomethane	0.0480	0.0395	18	TML	6.7	
22	TM	Acrylonitrile	0.0680	0.0698	2.6	TM		
23	TML	Methylene chloride	0.2284	0.2070	9.4	TML	3.4	
24	TM	Carbon disulfide	0.4154	0.4215	1.5	TM		
25	TM	Methyl t-butyl ether (MtBE)	0.5122	0.5335	4.2	TM		
26	TML	Trans-1,2-DCE	0.1752	0.1964	12	TML	8.3	
27	TM	Hexane	0.0000	0.0348	0.00	TM		
28	TM	Diisopropyl Ether	0.1967	0.1981	0.74	TM		
29	TM**	2,2-Dichloro-1,1,1-trifluoroethane	0.0000	0.0011	0.00	TM**		
30	TM**	1,1-DCA	0.3473	0.3435	1.1	TM**		
31	TM	Vinyl Acetate	0.1446	0.1468	1.5	TM		
32	TM	Ethyl tert Butyl Ether	0.3686	0.3829	3.9	TM		
33	TML	MEK (2-Butanone)	0.0371	0.0332	10	TML	2.9	
34	TML	Cis-1,2-DCE	0.3051	0.3089	1.2	TML	1.1	
35	TML	2,2-Dichloropropane	0.1039	0.0894	14	TML	3.5	
36	TM	2-Methylpentane	0.0000	0.0007	0.00	TM		
37	TM	3-Methylpentane	0.0000	0.1100	0.00	TM		
38	TM*	Chloroform	0.3665	0.3756	2.5	TM*		
39	TML	Bromochloromethane	0.1137	0.1223	7.6	TML	12	
40	S	Dibromofluoromethane(S)	0.5286	0.5237	0.92	S		
Average					13.1			

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 7/29/2019

Matrix: 0

Instrument: Thor

Cal. Date: 7/26/2019

Data File: 0729T21.D

		Compound	MEAN	CCRF	%D	%Drift	
41	TML	1,1,1-TCA	0.1329	0.1295	2.6	TML	5.9
42	TML	Cyclohexane	0.1420	0.1354	4.6	TML	5.7
43	TM	1,1-Dichloropropene	0.2517	0.2511	0.23	TM	
44	TML	2,2,4-Trimethylpentane	0.1698	0.1591	6.3	TML	0.51
45	S	1,2-DCA-D4(S)	0.6030	0.5946	1.4	S	
46	TML	Carbon Tetrachloride	0.2053	0.2402	17	TML	1.4
47	TM	Tert Amyl Methyl Ether	0.3460	0.3524	1.9	TM	
48	TM	Methylcyclopentane	0.0000	0.0012	0.00	TM	
49	TM	1,2-DCA	0.3029	0.2914	3.8	TM	
50	TM	Benzene	0.7507	0.7826	4.3	TM	
51	TM	TCE	0.2052	0.2231	8.7	TM	
52	TM	2-Pentanone	0.1477	0.1529	3.6	TM	
53	TM*L	1,2-Dichloropropane	0.1026	0.1083	5.6	TM*L	11
54	TM	Bromodichloromethane	0.1501	0.1585	5.5	TM	
55	TML	Methyl Cyclohexane	0.2552	0.2484	2.7	TML	2.5
56	TM	Dibromomethane	0.1411	0.1583	12	TM	
57	TML	MIBK (methyl isobutyl ketone)	0.0824	0.0827	0.39	TML	3.9
58	TM	1-Bromo-2-chloroethane	0.2524	0.2545	0.83	TM	
59	TML	2-Chloroethyl vinyl ether	0.0026	0.0032	26	TML	2.9
60	TM	Cis-1,3-Dichloropropene	0.1746	0.1747	0.06	TM	
61	TM*	Toluene	0.8250	0.8760	6.2	TM*	
62	TM	Trans-1,3-Dichloropropene	0.2708	0.2739	1.1	TM	
63	TM	1,1,2-TCA	0.1600	0.1711	7.0	TM	
64	TM	2-Hexanone	0.0459	0.0475	3.5	TM	
65	I	Chlorobenzene-D5 (IS)	ISTD			I	
66	S	Toluene-D8(S)	1.884	1.839	2.4	S	
67	TM	1,2-EDB	0.2111	0.2236	5.9	TM	
68	TM	Tetrachloroethene	0.2463	0.2602	5.6	TM	
69	TM	1-Chlorohexane	0.1917	0.1883	1.8	TM	
70	TM	1,1,1,2-Tetrachloroethane	0.1336	0.1476	10	TM	
71	TM	m&p-Xylene	0.2014	0.2157	7.1	TM	
72	TM	o-Xylene	0.3279	0.3553	8.4	TM	
73	TM	Styrene	0.4673	0.4793	2.6	TM	
74	S	4-Bromofluorobenzene(S)	0.7276	0.7119	2.2	S	
75	TM	1,3-Dichloropropane	0.2018	0.2102	4.2	TM	
76	TM	Dibromochloromethane	0.1417	0.1466	3.5	TM	
77	TM**	Chlorobenzene	0.5685	0.6034	6.1	TM**	
78	TM*	Ethylbenzene	0.8916	0.9200	3.2	TM*	
79	TM**L	Bromoform	0.1170	0.1326	13	TM**L	4.6
80	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	

Average

5.3

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 7/29/2019
Instrument: Thor
Cal. Date: 7/26/2019
Data File: 0729T21.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Isopropylbenzene	1.536	1.682	9.5	TM
82	TM**	1,1,2,2-Tetrachloroethane	0.4966	0.5245	5.6	TM**
83	TM	1,2,3-Trichloropropane	0.1802	0.1841	2.1	TM
84	TML	t-1,4-Dichloro-2-Butene	0.0552	0.0707	28	TML 15
85	TM	Bromobenzene	0.4965	0.5408	8.9	TM
86	TM	n-Propylbenzene	1.616	1.680	4.0	TM
87	TM	4-Ethyltoluene	1.143	1.241	8.6	TM
88	TML	2-Chlorotoluene	1.189	1.191	0.11	TML 14
89	TM	1,3,5-Trimethylbenzene	1.200	1.240	3.4	TM
90	TM	4-Chlorotoluene	1.218	1.284	5.4	TM
91	TM	Tert-Butylbenzene	1.152	1.194	3.7	TM
92	TM	1,2,4-Trimethylbenzene	1.217	1.229	0.94	TM
93	TM	Sec-Butylbenzene	1.405	1.497	6.5	TM
94	TM	p-Isopropyltoluene	1.260	1.262	0.16	TM
95	TML	Benzyl Chloride	0.2713	0.1832	32	TML 27*
96	TM	1,3-DCB	0.8721	0.8799	0.89	TM
97	TM	1,4-DCB	0.8683	0.8800	1.4	TM
98	TM	n-Butylbenzene	1.008	1.077	6.8	TM
99	TM	1,2-DCB	0.8104	0.8578	5.9	TM
100	TM	Hexachloroethane	0.1553	0.1678	8.1	TM
101	TML	1,2-Dibromo-3-chloropropane	0.0983	0.1182	20	TML 2.2
102	TM	1,2,4-Trichlorobenzene	0.3176	0.3439	8.3	TM
103	TML	Hexachlorobutadiene	0.2775	0.3015	8.7	TML 1.7
104	TM	Naphthalene	0.6873	0.7610	11	TM
105	TM	1,2,3-Trichlorobenzene	0.1008	0.0977	3.1	TM
106						
107						
108						
109						
110						
111						
112						
113						
114						
115						
116						
117						
118						
119						
120						

Average

7.7

Data File : M:\THOR\DATA\T190726\0729T21.D
 Acq On : 29 Jul 19 18:03
 Sample : 190729B CCV/LCS 10ug/L
 Misc : IS&S 7/6/19, 6/2/19

Vial: 21
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 30 10:20 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	451456	25.00000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	442240	25.00000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	235968	25.00000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	236422	24.76907	ppb	0.00
Spiked Amount	25.000		Recovery	=	99.076%	
45) 1,2-DCA-D4(S)	5.05	65	268437	24.65307	ppb	0.00
Spiked Amount	25.000		Recovery	=	98.612%	
66) Toluene-D8(S)	7.32	98	813494	24.40290	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.612%	
74) 4-Bromofluorobenzene(S)	9.98	95	314828	24.45964	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.840%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	0.87	87	14496	10.94432	ppb	99
4) Freon 114	0.95	85	31957	10.20664	ppb	98
5) Chloromethane	0.98	50	67805	9.31543	ppb	100
6) Vinyl chloride	1.05	62	40926	10.37644	ppb	96
7) 2-Chloro-1,1,1-trifluoroet	0.85	118	105	0.18796	ppb	# 100
8) Bromomethane	1.25	94	14696	12.07537	ppb	90
9) Chloroethane	1.32	64	22789	10.27059	ppb	89
10) Dichlorofluoromethane	1.47	67	56143	10.39246	ppb	99
11) Trichlorofluoromethane	1.50	101	58271	10.28060	ppb	96
13) Acrolein	1.81	55	27487	138.02233	ppb	95
14) Acetone	1.94	43	16855	11.54223	ppb	97
15) Freon-113	1.90	101	16880	11.20480	ppb	94
16) 1,1-DCE	1.88	61	50184	10.44014	ppb	96
17) 2-Propanol	1.96	45	2194	9.84552	ppb	# 1
18) Acetonitrile	2.17	41	65374	125.24675	ppb	94
19) t-Butanol	2.49	59	26712	129.74274	ppb	100
20) Methyl Acetate	2.24	43	31052	10.02227	ppb	100
21) Iodomethane	1.99	142	7131	9.33041	ppb	# 89
22) Acrylonitrile	2.56	52	12611	10.26284	ppb	93
23) Methylene chloride	2.31	84	37381	10.33994	ppb	98
24) Carbon disulfide	2.04	76	76116	10.14742	ppb	97
25) Methyl t-butyl ether (MtBE)	2.61	73	96345	10.41725	ppb	96
26) Trans-1,2-DCE	2.58	96	35471	10.83400	ppb	97
28) Diisopropyl Ether	3.22	45	35776	10.07357	ppb	95
30) 1,1-DCA	3.05	63	62027	9.88927	ppb	95
31) Vinyl Acetate	3.22	87	26503	10.14949	ppb	98
32) Ethyl tert Butyl Ether	3.73	59	69136	10.38649	ppb	98
33) MEK (2-Butanone)	3.94	43	6002	9.70922	ppb	98
34) Cis-1,2-DCE	3.85	61	55779	10.11251	ppb	97
35) 2,2-Dichloropropane	3.83	77	16138	9.64724	ppb	# 63
38) Chloroform	4.39	83	67821	10.24776	ppb	89
39) Bromochloromethane	4.21	128	22092	11.15807	ppb	98
41) 1,1,1-TCA	4.60	97	23392	10.59409	ppb	99
42) Cyclohexane	4.67	41	24456	10.57046	ppb	# 78
43) 1,1-Dichloropropene	4.85	75	45347	9.97707	ppb	95
44) 2,2,4-Trimethylpentane	5.29	57	28728	10.05115	ppb	99
46) Carbon Tetrachloride	4.83	117	43384	10.13937	ppb	96
47) Tert Amyl Methyl Ether	5.35	73	63645	10.18527	ppb	# 93
49) 1,2-DCA	5.15	62	52615	9.62051	ppb	97

(#) = qualifier out of range (m) = manual integration
 0729T21.D T0726W.M Tue Aug 13 16:16:15 2019

Data File : M:\THOR\DATA\T190726\0729T21.D
 Acq On : 29 Jul 19 18:03
 Sample : 190729B CCV/LCS 10ug/L
 Misc : IS&S 7/6/19, 6/2/19

Vial: 21
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 30 10:20 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Benzene	5.11	78	141332	10.42603	ppb	97
51) TCE	5.95	95	40280	10.87161	ppb	99
52) 2-Pentanone	6.23	43	345210	129.45991	ppb	98
53) 1,2-Dichloropropane	6.20	63	19560	11.06677	ppb #	100
54) Bromodichloromethane	6.55	83	28616	10.55482	ppb	98
55) Methyl Cyclohexane	6.16	83	44857	10.25484	ppb	91
56) Dibromomethane	6.32	93	28587	11.22203	ppb	98
57) MIBK (methyl isobutyl ket	7.26	58	14943	10.38556	ppb #	91
58) 1-Bromo-2-chloroethane	6.85	63	45961	10.08323	ppb	94
59) 2-Chloroethyl vinyl ether	6.85	107	1755	30.87572	ppb #	31
60) Cis-1,3-Dichloropropene	7.05	75	31544	10.00627	ppb	94
61) Toluene	7.39	91	158196	10.61822	ppb	95
62) Trans-1,3-Dichloropropene	7.66	75	49460	10.11398	ppb	95
63) 1,1,2-TCA	7.83	83	30903	10.69724	ppb	89
64) 2-Hexanone	8.14	58	8585	10.35488	ppb	94
67) 1,2-EDB	8.30	107	39558	10.59191	ppb	98
68) Tetrachloroethene	7.95	164	46024	10.56350	ppb	95
69) 1-Chlorohexane	8.85	91	33309	9.82318	ppb	97
70) 1,1,1,2-Tetrachloroethane	8.92	131	26104	11.04402	ppb	98
71) m&p-Xylene	9.08	106	76328	21.42678	ppb	94
72) o-Xylene	9.47	106	62857	10.83789	ppb	88
73) Styrene	9.48	104	84788	10.25617	ppb	98
75) 1,3-Dichloropropane	7.99	76	37176	10.41558	ppb	100
76) Dibromochloromethane	8.21	129	25936	10.34963	ppb	95
77) Chlorobenzene	8.82	112	106740	10.61367	ppb	95
78) Ethylbenzene	8.96	91	162750	10.31834	ppb	99
79) Bromoform	9.64	173	23464	10.45506	ppb	92
81) Isopropylbenzene	9.85	105	158756	10.94841	ppb	97
82) 1,1,2,2-Tetrachloroethane	10.15	83	49509	10.56337	ppb #	94
83) 1,2,3-Trichloropropane	10.17	110	17373	10.21288	ppb	95
84) t-1,4-Dichloro-2-Butene	10.21	53	6676	11.48776	ppb #	74
85) Bromobenzene	10.10	156	51044	10.89167	ppb	92
86) n-Propylbenzene	10.26	91	158598	10.39676	ppb	99
87) 4-Ethyltoluene	10.37	105	117170	10.85784	ppb	99
88) 2-Chlorotoluene	10.31	91	112371	11.42882	ppb	93
89) 1,3,5-Trimethylbenzene	10.44	105	117076	10.33983	ppb	98
90) 4-Chlorotoluene	10.42	91	121177	10.54176	ppb	100
91) Tert-Butylbenzene	10.75	119	112686	10.36520	ppb	98
92) 1,2,4-Trimethylbenzene	10.80	105	115976	10.09423	ppb	97
93) Sec-Butylbenzene	10.97	105	141302	10.65303	ppb	99
94) p-Isopropyltoluene	11.12	119	119101	10.01584	ppb	98
95) Benzyl Chloride	11.28	91	17288	7.31823	ppb	98
96) 1,3-DCB	11.04	146	83049	10.08895	ppb	95
97) 1,4-DCB	11.14	146	83065	10.13528	ppb	98
98) n-Butylbenzene	11.53	91	101673	10.68194	ppb	99
99) 1,2-DCB	11.49	146	80970	10.58543	ppb	98
100) Hexachloroethane	11.74	117	15835	10.80611	ppb #	97
101) 1,2-Dibromo-3-chloropropan	12.26	157	11156	10.21522	ppb	91
102) 1,2,4-Trichlorobenzene	13.08	182	32464	10.83077	ppb	88
103) Hexachlorobutadiene	13.28	225	28459	10.16958	ppb	99
104) Naphthalene	13.31	128	71832	11.07279	ppb	98
105) 1,2,3-Trichlorobenzene	13.55	145	9222	9.69107	ppb	87

(#) = qualifier out of range (m) = manual integration
 0729T21.D T0726W.M Tue Aug 13 16:16:16 2019

Quantitation Report

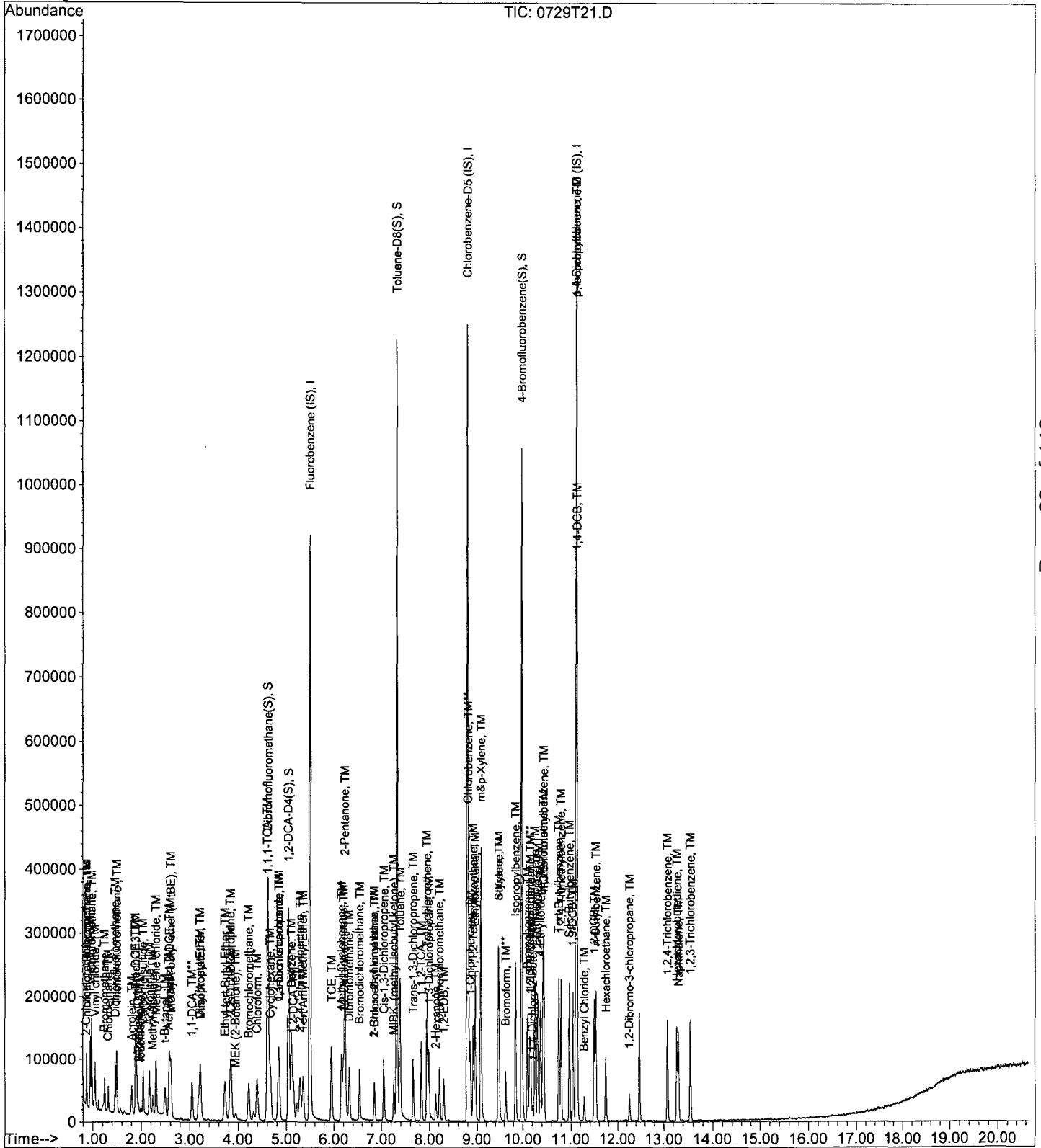
Data File : M:\THOR\DATA\T190726\0729T21.D
Acq On : 29 Jul 19 18:03
Sample : 190729B CCV/LCS 10ug/L
Misc : IS&S 7/6/19, 6/2/19

Vial: 21
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 10:20 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 7/30/2019

Matrix: _____

Instrument: Thor

Initial Cal. Date: 7/26/2019

Data File: 0729T42.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	TM	Chlorotrifluoroethene	0.0942	0.0000	100	TM	*NT
3	TML	Dichlorodifluoromethane	0.0908	0.0650	28	TML	12
4	TM	Freon 114	0.1734	0.1563	9.9	TM	
5	TM**L	Chloromethane	0.5592	0.3359	40	TM**L	18
6	TM*	Vinyl chloride	0.2184	0.2016	7.7	TM*	
7	TM	2-Chloro-1,1,1-trifluoroethane	0.0309	0.0002	99	TM	NT
8	TML	Bromomethane	0.0983	0.0768	22	TML	14
9	TML	Chloroethane	0.1599	0.1216	24	TML	1.3
10	TM	Dichlorofluoromethane	0.2992	0.2984	0.25	TM	
11	TM	Trichlorofluoromethane	0.3139	0.2813	10	TM	
12	TM	Diethyl ether	0.0000	0.0001	0.00	TM	
13	TM	Acrolein	0.0110	0.0121	9.5	TM	
14	TML	Acetone	0.0914	0.0826	9.7	TML	1.1
15	TML	Freon-113	0.0952	0.0810	15	TML	3.1
16	TM*	1,1-DCE	0.2662	0.2428	8.8	TM*	
17	TML	2-Propanol	0.0152	0.0009	94	TML	92 NT
18	TML	Acetonitrile	0.0321	0.0239	25	TML	19
19	TM	t-Butanol	0.0114	0.0094	18	TM	
20	TM	Methyl Acetate	0.1716	0.1658	3.3	TM	
21	TML	Iodomethane	0.0480	0.0284	41	TML	31 NT
22	TM	Acrylonitrile	0.0680	0.0645	5.2	TM	
23	TML	Methylene chloride	0.2284	0.1977	13	TML	1.4
24	TM	Carbon disulfide	0.4154	0.4067	2.1	TM	
25	TM	Methyl t-butyl ether (MtBE)	0.5122	0.4793	6.4	TM	
26	TML	Trans-1,2-DCE	0.1752	0.1835	4.7	TML	1.2
27	TM	Hexane	0.0000	0.0272	0.00	TM	
28	TM	Diisopropyl Ether	0.1967	0.1719	13	TM	
29	TM**	2,2-Dichloro-1,1,1-trifluoroethane	0.0000	0.0006	0.00	TM**	
30	TM**	1,1-DCA	0.3473	0.3262	6.1	TM**	
31	TM	Vinyl Acetate	0.1446	0.1429	1.1	TM	
32	TM	Ethyl tert Butyl Ether	0.3686	0.3536	4.1	TM	
33	TML	MEK (2-Butanone)	0.0371	0.0260	30	TML	24 NT
34	TML	Cis-1,2-DCE	0.3051	0.2842	6.9	TML	7.2
35	TML	2,2-Dichloropropane	0.1039	0.0647	38	TML	31 NT
36	TM	2-Methylpentane	0.0000	0.0006	0.00	TM	
37	TM	3-Methylpentane	0.0000	0.0940	0.00	TM	
38	TM*	Chloroform	0.3665	0.3643	0.59	TM*	
39	TML	Bromochloromethane	0.1137	0.1226	7.9	TML	12
40	S	Dibromofluoromethane(S)	0.5286	0.5119	3.2	S	
Average					18.1		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 7/30/2019
Instrument: Thor
Cal. Date: 7/26/2019
Data File: 0729T42.D

		Compound	MEAN	CCRF	%D	%Drift	
41	TML	1,1,1-TCA	0.1329	0.1186	11	TML	3.2
42	TML	Cyclohexane	0.1420	0.1247	12	TML	2.9
43	TM	1,1-Dichloropropene	0.2517	0.2297	8.7	TM	
44	TML	2,2,4-Trimethylpentane	0.1698	0.1317	22	TML	17
45	S	1,2-DCA-D4(S)	0.6030	0.5704	5.4	S	
46	TML	Carbon Tetrachloride	0.2053	0.2206	7.5	TML	6.0
47	TM	Tert Amyl Methyl Ether	0.3460	0.2942	15	TM	
48	TM	Methylcyclopentane	0.0000	0.0190	0.00	TM	
49	TM	1,2-DCA	0.3029	0.2833	6.4	TM	
50	TM	Benzene	0.7507	0.7243	3.5	TM	
51	TM	TCE	0.2052	0.2174	6.0	TM	
52	TM	2-Pentanone	0.1477	0.1226	17	TM	
53	TM*L	1,2-Dichloropropane	0.1026	0.0943	8.1	TM*L	3.8
54	TM	Bromodichloromethane	0.1501	0.1445	3.7	TM	
55	TML	Methyl Cyclohexane	0.2552	0.2119	17	TML	12
56	TM	Dibromomethane	0.1411	0.1399	0.83	TM	
57	TML	MIBK (methyl isobutyl ketone)	0.0824	0.0621	25	TML	22
58	TM	1-Bromo-2-chloroethane	0.2524	0.2298	9.0	TM	
59	TML	2-Chloroethyl vinyl ether	0.0026	0.0024	6.6	TML	24
60	TM	Cis-1,3-Dichloropropene	0.1746	0.1605	8.1	TM	
61	TM*	Toluene	0.8250	0.8094	1.9	TM*	
62	TM	Trans-1,3-Dichloropropene	0.2708	0.2403	11	TM	
63	TM	1,1,2-TCA	0.1600	0.1653	3.4	TM	
64	TM	2-Hexanone	0.0459	0.0339	26	TM	
65	I	Chlorobenzene-D5 (IS)	ISTD			I	
66	S	Toluene-D8(S)	1.884	1.769	6.1	S	
67	TM	1,2-EDB	0.2111	0.2075	1.7	TM	
68	TM	Tetrachloroethene	0.2463	0.2388	3.1	TM	
69	TM	1-Chlorohexane	0.1917	0.1648	14	TM	
70	TM	1,1,1,2-Tetrachloroethane	0.1336	0.1318	1.3	TM	
71	TM	m&p-Xylene	0.2014	0.1999	0.72	TM	
72	TM	o-Xylene	0.3279	0.3232	1.4	TM	
73	TM	Styrene	0.4673	0.4225	9.6	TM	
74	S	4-Bromofluorobenzene(S)	0.7276	0.6734	7.4	S	
75	TM	1,3-Dichloropropane	0.2018	0.1952	3.3	TM	
76	TM	Dibromochloromethane	0.1417	0.1324	6.6	TM	
77	TM**	Chlorobenzene	0.5685	0.5711	0.45	TM**	
78	TM*	Ethylbenzene	0.8916	0.8548	4.1	TM*	
79	TM**L	Bromoform	0.1170	0.1167	0.29	TM**L	7.0
80	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	

Average

7.8

NT
NT
NT

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 7/30/2019

Matrix: 0

Instrument: Thor

Cal. Date: 7/26/2019

Data File: 0729T42.D

		Compound	MEAN	CCRF	%D	%Drift	
81	TM	Isopropylbenzene	1.536	1.467	4.5	TM	
82	TM**	1,1,2,2-Tetrachloroethane	0.4966	0.4430	11	TM**	
83	TM	1,2,3-Trichloropropane	0.1802	0.1563	13	TM	
84	TML	t-1,4-Dichloro-2-Butene	0.0552	0.0322	42	TML	46 NT
85	TM	Bromobenzene	0.4965	0.4920	0.90	TM	
86	TM	n-Propylbenzene	1.616	1.451	10	TM	
87	TM	4-Ethyltoluene	1.143	1.050	8.1	TM	
88	TML	2-Chlorotoluene	1.189	1.075	9.6	TML	2.6
89	TM	1,3,5-Trimethylbenzene	1.200	1.148	4.3	TM	
90	TM	4-Chlorotoluene	1.218	1.148	5.7	TM	
91	TM	Tert-Butylbenzene	1.152	1.005	13	TM	
92	TM	1,2,4-Trimethylbenzene	1.217	1.081	11	TM	
93	TM	Sec-Butylbenzene	1.405	1.290	8.2	TM	
94	TM	p-Isopropyltoluene	1.260	1.102	13	TM	
95	TML	Benzyl Chloride	0.2713	0.1053	61	TML	59 NT
96	TM	1,3-DCB	0.8721	0.7800	11	TM	
97	TM	1,4-DCB	0.8683	0.7783	10	TM	
98	TM	n-Butylbenzene	1.008	0.8849	12	TM	
99	TM	1,2-DCB	0.8104	0.7892	2.6	TM	
100	TM	Hexachloroethane	0.1553	0.1480	4.7	TM	
101	TML	1,2-Dibromo-3-chloropropane	0.0983	0.1002	2.0	TML	13
102	TM	1,2,4-Trichlorobenzene	0.3176	0.2832	11	TM	
103	TML	Hexachlorobutadiene	0.2775	0.2902	4.6	TML	2.1
104	TM	Naphthalene	0.6873	0.5728	17	TM	
105	TM	1,2,3-Trichlorobenzene	0.1008	0.0812	20	TM	
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							

Average

12.4

Data File : M:\THOR\DATA\T190726\0729T42.D
 Acq On : 30 Jul 19 3:53
 Sample : Ending CCV 10ug/L 7/29/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 42
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 30 10:24 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	436480	25.00000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	430272	25.00000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	233216	25.00000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	223432	24.21130	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.844%	
45) 1,2-DCA-D4(S)	5.05	65	248951	23.64795	ppb	0.00
Spiked Amount	25.000		Recovery	=	94.592%	
66) Toluene-D8(S)	7.32	98	761208	23.46958	ppb	0.00
Spiked Amount	25.000		Recovery	=	93.880%	
74) 4-Bromofluorobenzene(S)	9.98	95	289755	23.13783	ppb	0.00
Spiked Amount	25.000		Recovery	=	92.552%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	0.87	87	11354	8.75305	ppb	95
4) Freon 114	0.95	85	27286	9.01380	ppb	92
5) Chloromethane	0.98	50	58643	8.16640	ppb	97
6) Vinyl chloride	1.05	62	35197	9.23008	ppb	95
7) 2-Chloro-1,1,1-trifluoroet	0.95	118	273	0.50547	ppb	# 100
8) Bromomethane	1.25	94	13416	11.35277	ppb	91
9) Chloroethane	1.32	64	21228	9.87392	ppb	91
10) Dichlorofluoromethane	1.47	67	52100	9.97497	ppb	98
11) Trichlorofluoromethane	1.50	101	49117	8.96291	ppb	96
13) Acrolein	1.81	55	26353	136.86839	ppb	87
14) Acetone	1.94	43	14414	9.89305	ppb	92
15) Freon-113	1.90	101	14144	9.68598	ppb	94
16) 1,1-DCE	1.88	61	42388	9.12084	ppb	97
17) 2-Propanol	1.95	45	1636	7.85901	ppb	# 1
18) Acetonitrile	2.17	41	52159	100.79575	ppb	94
19) t-Butanol	2.49	59	20408	102.52462	ppb	99
20) Methyl Acetate	2.24	43	28953	9.66543	ppb	99
21) Iodomethane	1.99	142	4962	6.88046	ppb	92
22) Acrylonitrile	2.56	52	11259	9.47696	ppb	92
23) Methylene chloride	2.31	84	34517	9.86013	ppb	96
24) Carbon disulfide	2.04	76	71012	9.79180	ppb	98
25) Methyl t-butyl ether (MtBE)	2.61	73	83688	9.35918	ppb	93
26) Trans-1,2-DCE	2.58	96	32039	10.11952	ppb	93
28) Diisopropyl Ether	3.22	45	30008	8.73937	ppb	96
30) 1,1-DCA	3.05	63	56947	9.39086	ppb	93
31) Vinyl Acetate	3.22	87	24958	9.88576	ppb	90
32) Ethyl tert Butyl Ether	3.73	59	61739	9.59346	ppb	90
33) MEK (2-Butanone)	3.95	43	4544	7.55975	ppb	96
34) Cis-1,2-DCE	3.86	61	49626	9.27659	ppb	96
35) 2,2-Dichloropropane	3.84	77	11291	6.90221	ppb	# 67
38) Chloroform	4.40	83	63609	9.94110	ppb	91
39) Bromochloromethane	4.22	128	21407	11.18422	ppb	95
41) 1,1,1-TCA	4.60	97	20704	9.67898	ppb	100
42) Cyclohexane	4.67	41	21778	9.70675	ppb	91
43) 1,1-Dichloropropene	4.85	75	40099	9.12513	ppb	92
44) 2,2,4-Trimethylpentane	5.29	57	22992	8.34101	ppb	100
46) Carbon Tetrachloride	4.83	117	38518	9.40088	ppb	93
47) Tert Amyl Methyl Ether	5.35	73	51361	8.50145	ppb	98
49) 1,2-DCA	5.15	62	49467	9.35525	ppb	94

(#) = qualifier out of range (m) = manual integration
 0729T42.D T0726W.M Tue Aug 13 16:17:20 2019

Data File : M:\THOR\DATA\T190726\0729T42.D
 Acq On : 30 Jul 19 3:53
 Sample : Ending CCV 10ug/L 7/29/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 42
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 30 10:24 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Benzene	5.11	78	126450	9.64825	ppb	96
51) TCE	5.95	95	37959	10.59669	ppb	95
52) 2-Pentanone	6.23	43	267609	103.80152	ppb	97
53) 1,2-Dichloropropane	6.20	63	16464	9.62456	ppb #	100
54) Bromodichloromethane	6.54	83	25232	9.62597	ppb	98
55) Methyl Cyclohexane	6.16	83	37004	8.75830	ppb	99
56) Dibromomethane	6.32	93	24425	9.91719	ppb	97
57) MIBK (methyl isobutyl ket	7.26	58	10836	7.81762	ppb	90
58) 1-Bromo-2-chloroethane	6.85	63	40119	9.10356	ppb	93
59) 2-Chloroethyl vinyl ether	6.87	107	1254	22.80482	ppb #	39
60) Cis-1,3-Dichloropropene	7.05	75	28024	9.19468	ppb	90
61) Toluene	7.39	91	141321	9.81101	ppb	96
62) Trans-1,3-Dichloropropene	7.66	75	41961	8.87493	ppb	99
63) 1,1,2-TCA	7.83	83	28867	10.33532	ppb	87
64) 2-Hexanone	8.14	58	5914	7.37797	ppb	95
67) 1,2-EDB	8.30	107	35706	9.82643	ppb	95
68) Tetrachloroethene	7.95	164	41092	9.69384	ppb	91
69) 1-Chlorohexane	8.85	91	28371	8.59963	ppb	95
70) 1,1,1,2-Tetrachloroethane	8.92	131	22688	9.86578	ppb	99
71) m&p-Xylene	9.08	106	68816	19.85535	ppb	99
72) o-Xylene	9.47	106	55624	9.85753	ppb	100
73) Styrene	9.48	104	72708	9.03957	ppb	94
75) 1,3-Dichloropropane	7.99	76	33592	9.67323	ppb	94
76) Dibromochloromethane	8.21	129	22784	9.34473	ppb	94
77) Chlorobenzene	8.82	112	98285	10.04478	ppb	99
78) Ethylbenzene	8.96	91	147121	9.58691	ppb	98
79) Bromoform	9.63	173	20080	9.29737	ppb	97
81) Isopropylbenzene	9.85	105	136860	9.54976	ppb	97
82) 1,1,2,2-Tetrachloroethane	10.15	83	41323	8.92082	ppb #	88
83) 1,2,3-Trichloropropane	10.17	110	14580	8.67213	ppb	92
84) t-1,4-Dichloro-2-Butene	10.21	53	3007	5.38463	ppb	96
85) Bromobenzene	10.10	156	45901	9.90984	ppb	100
86) n-Propylbenzene	10.26	91	135331	8.97619	ppb	97
87) 4-Ethyltoluene	10.37	105	97978	9.18650	ppb	98
88) 2-Chlorotoluene	10.31	91	100282	10.26012	ppb	98
89) 1,3,5-Trimethylbenzene	10.44	105	107098	9.57021	ppb	100
90) 4-Chlorotoluene	10.43	91	107097	9.42681	ppb	98
91) Tert-Butylbenzene	10.75	119	93787	8.72861	ppb	98
92) 1,2,4-Trimethylbenzene	10.80	105	100815	8.87820	ppb	95
93) Sec-Butylbenzene	10.97	105	120385	9.18315	ppb	99
94) p-Isopropyltoluene	11.12	119	102803	8.74727	ppb	99
95) Benzyl Chloride	11.28	91	9826	4.09715	ppb	98
96) 1,3-DCB	11.04	146	72764	8.94382	ppb	94
97) 1,4-DCB	11.13	146	72605	8.96353	ppb	99
98) n-Butylbenzene	11.53	91	82547	8.77487	ppb	97
99) 1,2-DCB	11.49	146	73621	9.73825	ppb	96
100) Hexachloroethane	11.74	117	13804	9.53127	ppb #	86
101) 1,2-Dibromo-3-chloropropan	12.26	157	9351	8.66963	ppb #	91
102) 1,2,4-Trichlorobenzene	13.08	182	26416	8.91701	ppb	90
103) Hexachlorobutadiene	13.28	225	27074	9.79132	ppb	96
104) Naphthalene	13.31	128	53432	8.33365	ppb	97
105) 1,2,3-Trichlorobenzene	13.55	145	7571	8.04998	ppb	87

(#) = qualifier out of range (m) = manual integration
 0729T42.D T0726W.M Tue Aug 13 16:17:21 2019

Quantitation Report

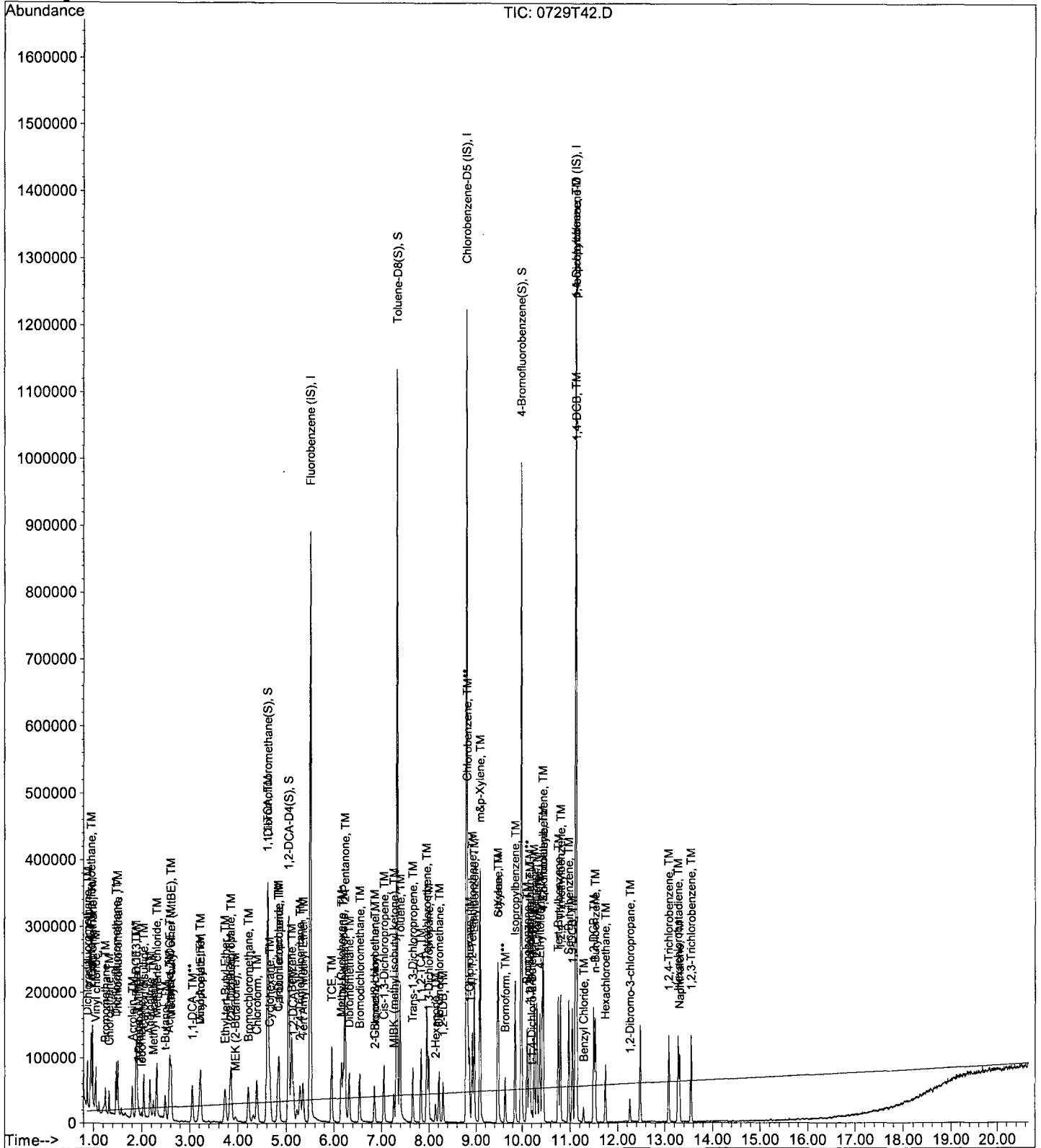
Data File : M:\THOR\DATA\T190726\0729T42.D
 Acq On : 30 Jul 19 3:53
 Sample : Ending CCV 10ug/L 7/29/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 42
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 30 10:24 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration



ORGANICS
Raw Data

Data File : M:\LOKI\DATA\190724\0727L32.D
 Acq On : 28 Jul 19 00:40
 Sample : AZ95328W01
 Misc : IS&S 7/15/19,6/5/19

Vial: 32
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 17:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	172672	25.00000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	161280	25.00000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	78696	25.00000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	83737	27.37876	ppb	0.00
Spiked Amount	25.000		Recovery	=	109.516%	
44) 1,2-DCA-D4(S)	5.25	65	84092	26.77847	ppb	0.00
Spiked Amount	25.000		Recovery	=	107.112%	
65) Toluene-D8(S)	7.63	98	242133	24.70968	ppb	0.00
Spiked Amount	25.000		Recovery	=	98.840%	
73) 4-Bromofluorobenzene(S)	10.54	95	74937	22.11773	ppb	0.00
Spiked Amount	25.000		Recovery	=	88.472%	

Target Compounds

Qvalue

Quantitation Report

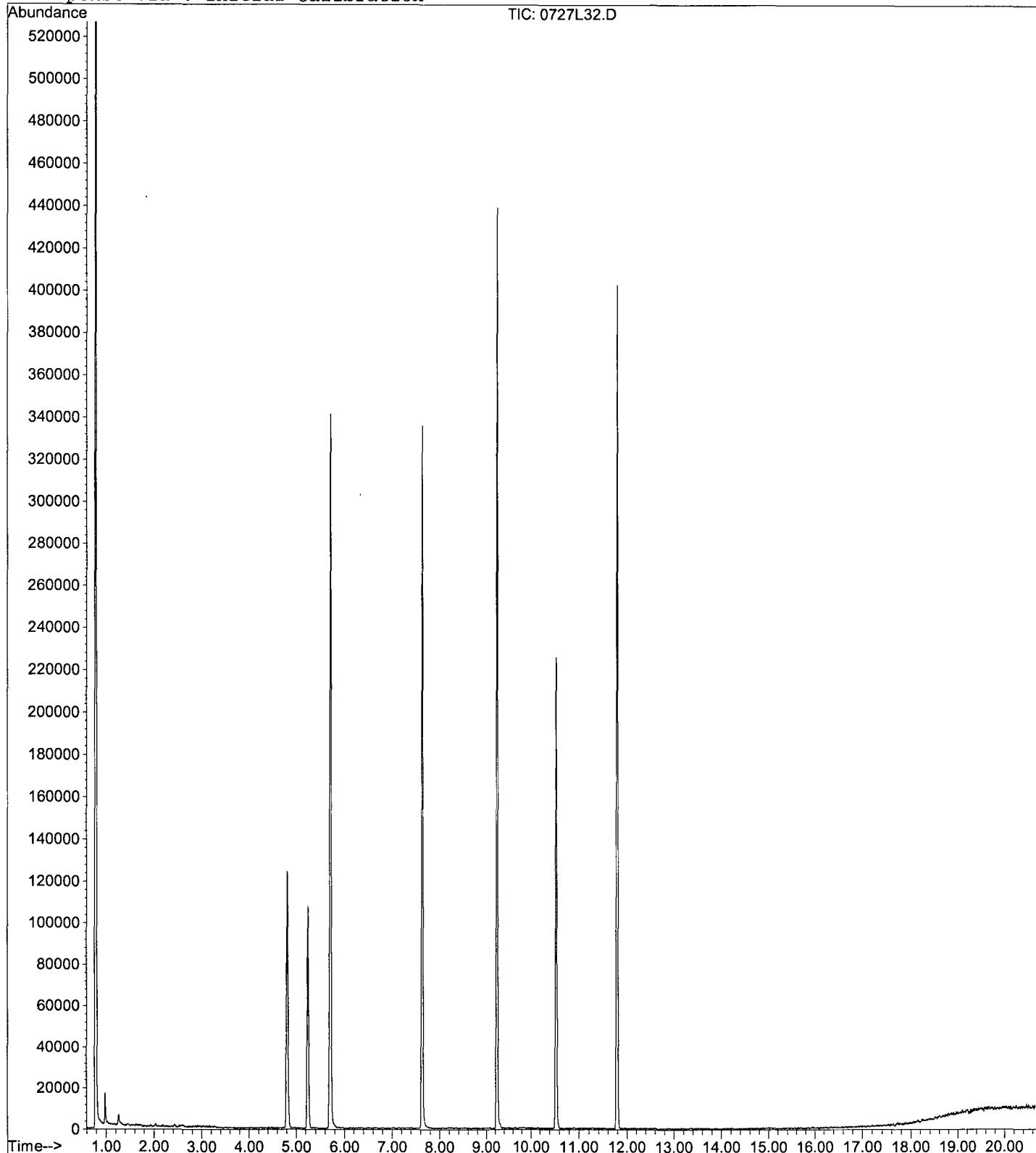
Data File : M:\LOKI\DATA\190724\0727L32.D
Acq On : 28 Jul 19 00:40
Sample : AZ95328W01
Misc : IS&S 7/15/19,6/5/19

Vial: 32
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 17:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0727L33.D
 Acq On : 28 Jul 19 1:09
 Sample : AZ95329W01
 Misc : IS&S 7/15/19,6/5/19

Vial: 33
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 17:22 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	164096	25.00000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	167680	25.00000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	96248	25.00000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	78204	26.90601	ppb	0.00
Spiked Amount	25.000		Recovery	=	107.624%	
44) 1,2-DCA-D4(S)	5.25	65	76278	25.55962	ppb	0.00
Spiked Amount	25.000		Recovery	=	102.240%	
65) Toluene-D8(S)	7.63	98	220482	21.64141	ppb	0.00
Spiked Amount	25.000		Recovery	=	86.564%	
73) 4-Bromofluorobenzene(S)	10.53	95	81370	23.09978	ppb	0.00
Spiked Amount	25.000		Recovery	=	92.400%	
Target Compounds						Qvalue
80) Isopropylbenzene	10.39	105	9549	3.16829	ppb	98
85) n-Propylbenzene	10.84	91	33826	5.67864	ppb	100
90) Tert-Butylbenzene	11.38	119	2629	1.21495	ppb	97
92) Sec-Butylbenzene	11.62	105	20933	3.88274	ppb	96
97) n-Butylbenzene	12.23	91	16780	4.58392	ppb	92
103) Naphthalene	14.21	128	370821	78.70372	ppb	98

Quantitation Report

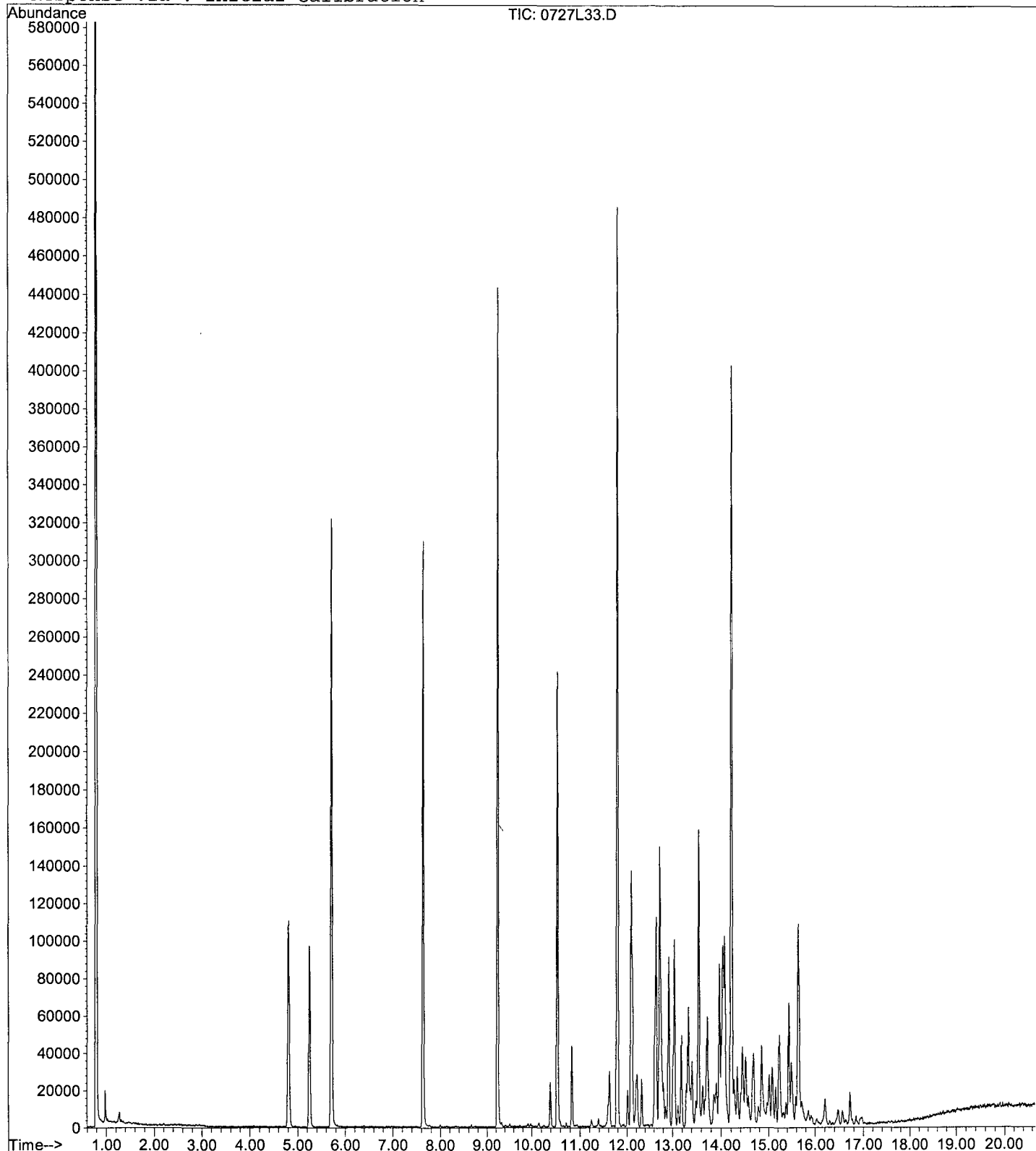
Data File : M:\LOKI\DATA\190724\0727L33.D
Acq On : 28 Jul 19 1:09
Sample : AZ95329W01
Misc : IS&S 7/15/19,6/5/19

Vial: 33
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 17:22 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T27.D Vial: 27
 Acq On : 29 Jul 19 20:52 Operator:
 Sample : AZ95330W02 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 11:19 2019 Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	443136	25.00000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	430720	25.00000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	237632	25.00000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	223080	23.81008	ppb	0.00
Spiked Amount				25.000		
					Recovery =	95.240%
45) 1,2-DCA-D4(S)	5.05	65	253097	23.68067	ppb	0.00
Spiked Amount				25.000		
					Recovery =	94.724%
66) Toluene-D8(S)	7.32	98	767299	23.63278	ppb	0.00
Spiked Amount				25.000		
					Recovery =	94.532%
74) 4-Bromofluorobenzene(S)	9.98	95	298881	23.84174	ppb	0.00
Spiked Amount				25.000		
					Recovery =	95.368%

Target Compounds Qvalue

Quantitation Report

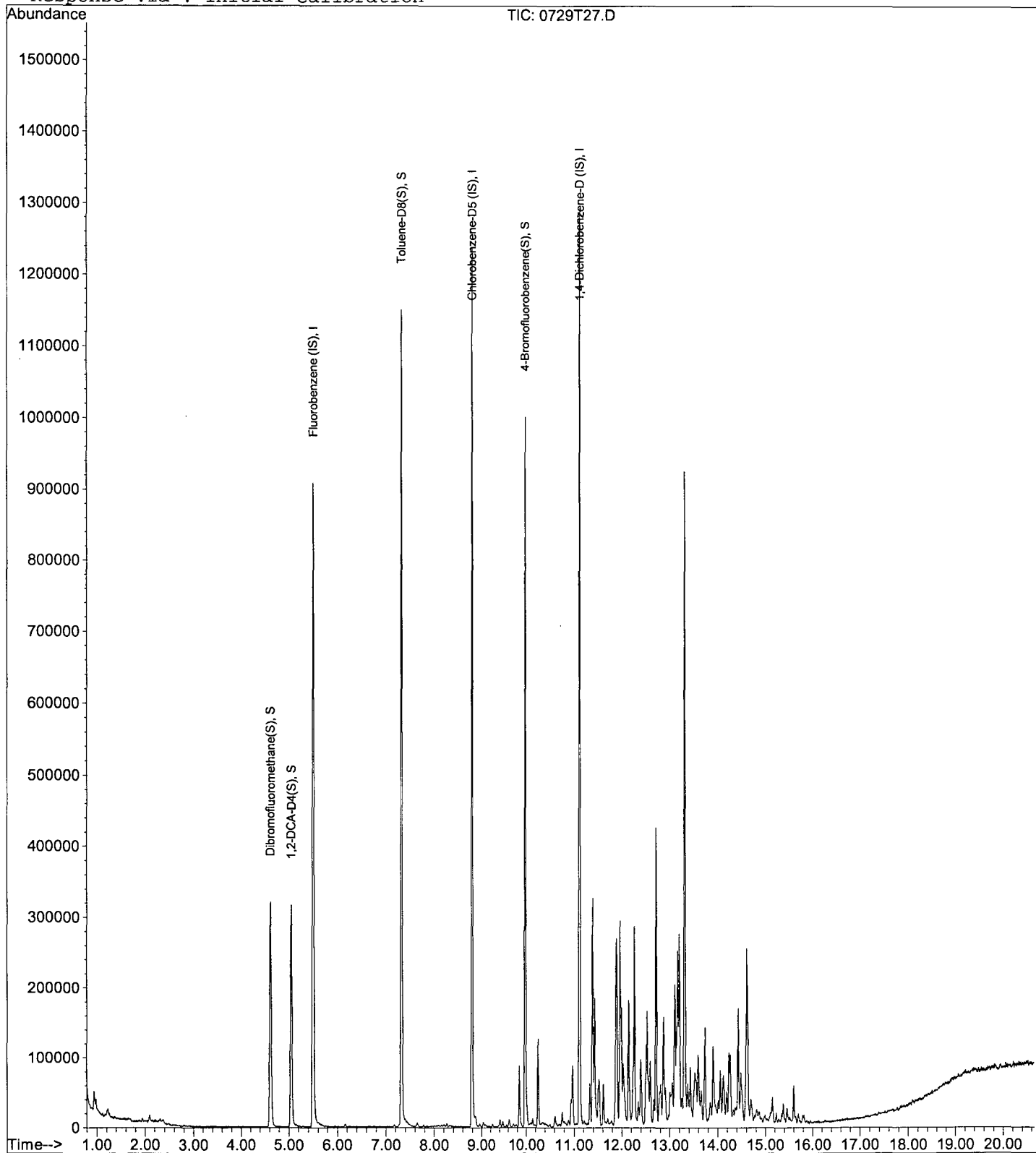
Data File : M:\THOR\DATA\T190726\0729T27.D
Acq On : 29 Jul 19 20:52
Sample : AZ95330W02
Misc : IS&S 7/6/19, 6/2/19

Vial: 27
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 11:19 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T28.D Vial: 28
 Acq On : 29 Jul 19 21:20 Operator:
 Sample : AZ95331W01 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 11:20 2019 Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	482368	25.00000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	468800	25.00000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	244352	25.00000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	269951	26.46937	ppb	0.00
Spiked Amount	25.000		Recovery	=	105.876%	
45) 1,2-DCA-D4(S)	5.05	65	295617	25.40943	ppb	0.00
Spiked Amount	25.000		Recovery	=	101.636%	
66) Toluene-D8(S)	7.32	98	881363	24.94091	ppb	0.00
Spiked Amount	25.000		Recovery	=	99.764%	
74) 4-Bromofluorobenzene(S)	9.98	95	331400	24.28844	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.152%	

Target Compounds Qvalue

Quantitation Report

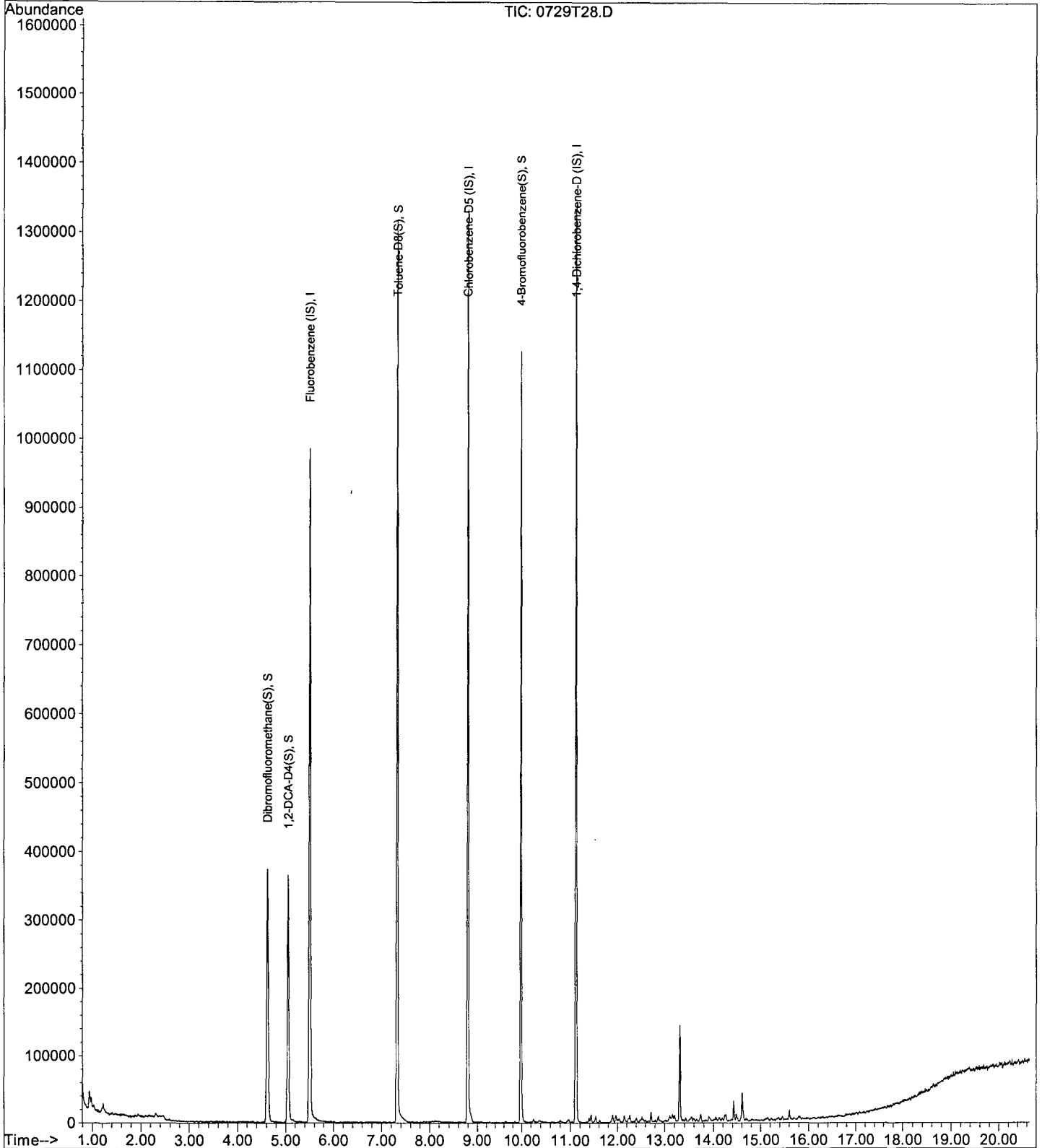
Data File : M:\THOR\DATA\T190726\0729T28.D
Acq On : 29 Jul 19 21:20
Sample : AZ95331W01
Misc : IS&S 7/6/19, 6/2/19

Vial: 28
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 11:20 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T29.D Vial: 29
 Acq On : 29 Jul 19 21:48 Operator:
 Sample : AZ95332W01 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 11:20 2019 Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	453568	25.00000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	433664	25.00000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	229760	25.00000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	259451	27.05516	ppb	0.00
Spiked Amount						
						Recovery = 108.220%
45) 1,2-DCA-D4(S)	5.05	65	287546	26.28506	ppb	0.00
Spiked Amount						
						Recovery = 105.140%
66) Toluene-D8(S)	7.32	98	885977	27.10280	ppb	0.00
Spiked Amount						
						Recovery = 108.412%
74) 4-Bromofluorobenzene(S)	9.98	95	331979	26.30219	ppb	0.00
Spiked Amount						
						Recovery = 105.208%

Target Compounds Qvalue

Quantitation Report

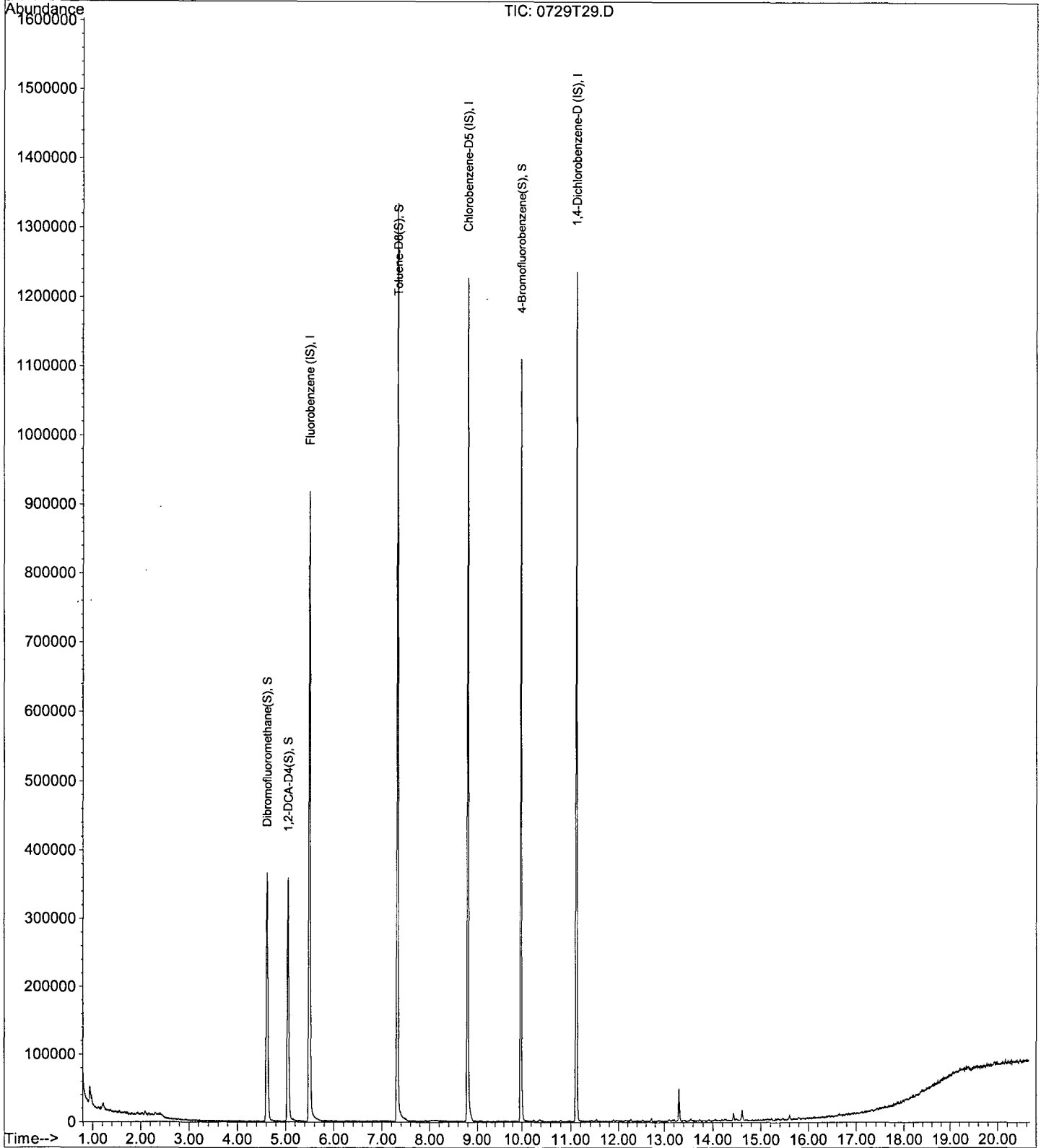
Data File : M:\THOR\DATA\T190726\0729T29.D
Acq On : 29 Jul 19 21:48
Sample : AZ95332W01
Misc : IS&S 7/6/19, 6/2/19

Vial: 29
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 11:20 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T30.D Vial: 30
 Acq On : 29 Jul 19 22:16 Operator:
 Sample : AZ95333W01 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 11:20 2019 Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	441216	25.00000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	444480	25.00000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	225856	25.00000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	322305	34.55039	ppb	0.00
Spiked Amount	25.000		Recovery	=	138.200%	
45) 1,2-DCA-D4(S)	5.05	65	360201	33.84836	ppb	0.00
Spiked Amount	25.000		Recovery	=	135.392%	
66) Toluene-D8(S)	7.32	98	1103221	32.92725	ppb	0.00
Spiked Amount	25.000		Recovery	=	131.708%	
74) 4-Bromofluorobenzene(S)	9.98	95	416007	32.15756	ppb	0.00
Spiked Amount	25.000		Recovery	=	128.632%	

Target Compounds Qvalue

Quantitation Report

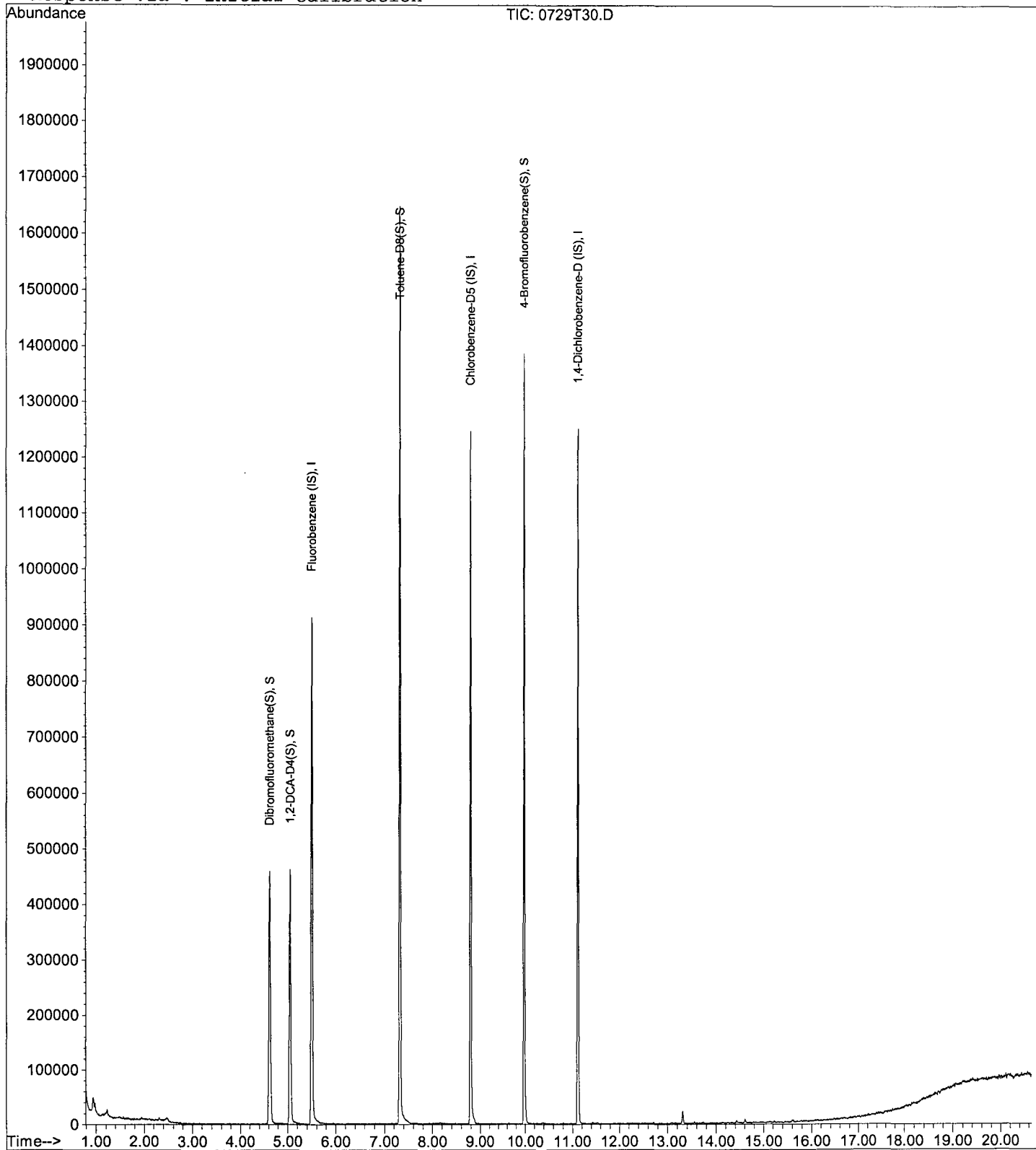
Data File : M:\THOR\DATA\T190726\0729T30.D
Acq On : 29 Jul 19 22:16
Sample : AZ95333W01
Misc : IS&S 7/6/19, 6/2/19

Vial: 30
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 11:20 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T31.D Vial: 31
 Acq On : 29 Jul 19 22:44 Operator:
 Sample : AZ95334W01 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 11:21 2019 Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	454400	25.00000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	458304	25.00000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	234880	25.00000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	229441	23.88195	ppb	0.00
Spiked Amount	25.000		Recovery	=	95.528%	
45) 1,2-DCA-D4(S)	5.05	65	259010	23.63318	ppb	0.00
Spiked Amount	25.000		Recovery	=	94.532%	
66) Toluene-D8(S)	7.32	98	774765	22.42650	ppb	0.00
Spiked Amount	25.000		Recovery	=	89.704%	
74) 4-Bromofluorobenzene(S)	9.98	95	293999	22.04078	ppb	0.00
Spiked Amount	25.000		Recovery	=	88.164%	

Target Compounds Qvalue

Quantitation Report

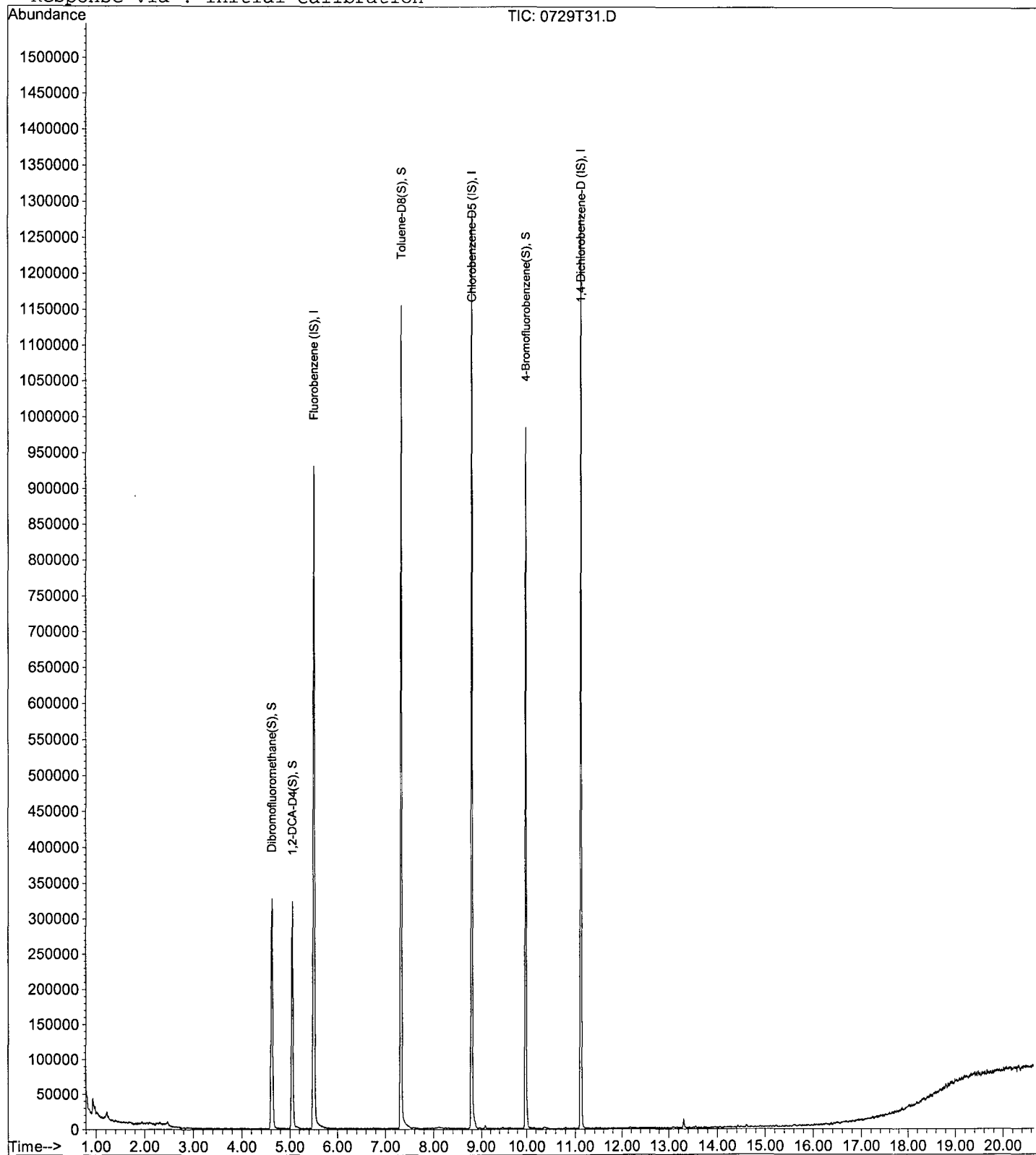
Data File : M:\THOR\DATA\T190726\0729T31.D
Acq On : 29 Jul 19 22:44
Sample : AZ95334W01
Misc : IS&S 7/6/19, 6/2/19

Vial: 31
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 11:21 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T32.D Vial: 32
 Acq On : 29 Jul 19 23:12 Operator:
 Sample : AZ95335W01 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 11:21 2019 Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	438400	25.00000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	442240	25.00000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	222144	25.00000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	257125	27.74029	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	110.960%
45) 1,2-DCA-D4(S)	5.05	65	287300	27.17122	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	108.684%
66) Toluene-D8(S)	7.32	98	860695	25.81882	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	103.276%
74) 4-Bromofluorobenzene(S)	9.98	95	325885	25.31868	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	101.276%

Target Compounds Qvalue

Quantitation Report

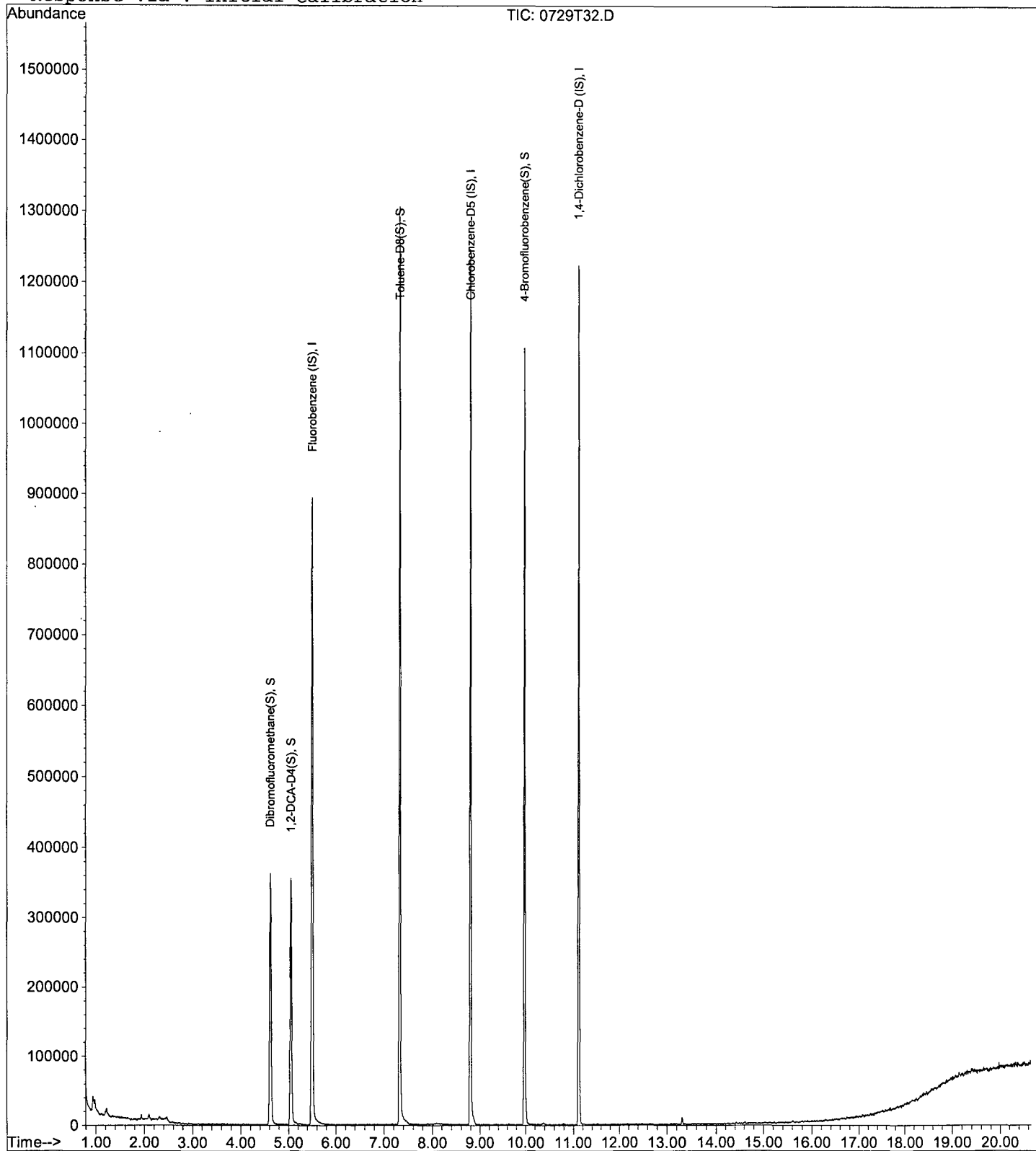
Data File : M:\THOR\DATA\T190726\0729T32.D
Acq On : 29 Jul 19 23:12
Sample : AZ95335W01
Misc : IS&S 7/6/19, 6/2/19

Vial: 32
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 11:21 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T33.D Vial: 33
 Acq On : 29 Jul 19 23:40 Operator:
 Sample : AZ95336W01 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 11:21 2019 Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	439680	25.00000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	443712	25.00000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	220160	25.00000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	228120	24.53939	ppb	0.00
Spiked Amount	25.000		Recovery	=	98.156%	
45) 1,2-DCA-D4(S)	5.05	65	252900	23.84823	ppb	0.00
Spiked Amount	25.000		Recovery	=	95.392%	
66) Toluene-D8(S)	7.32	98	762691	22.80303	ppb	0.00
Spiked Amount	25.000		Recovery	=	91.212%	
74) 4-Bromofluorobenzene(S)	9.98	95	283495	21.95225	ppb	0.00
Spiked Amount	25.000		Recovery	=	87.808%	

Target Compounds Qvalue

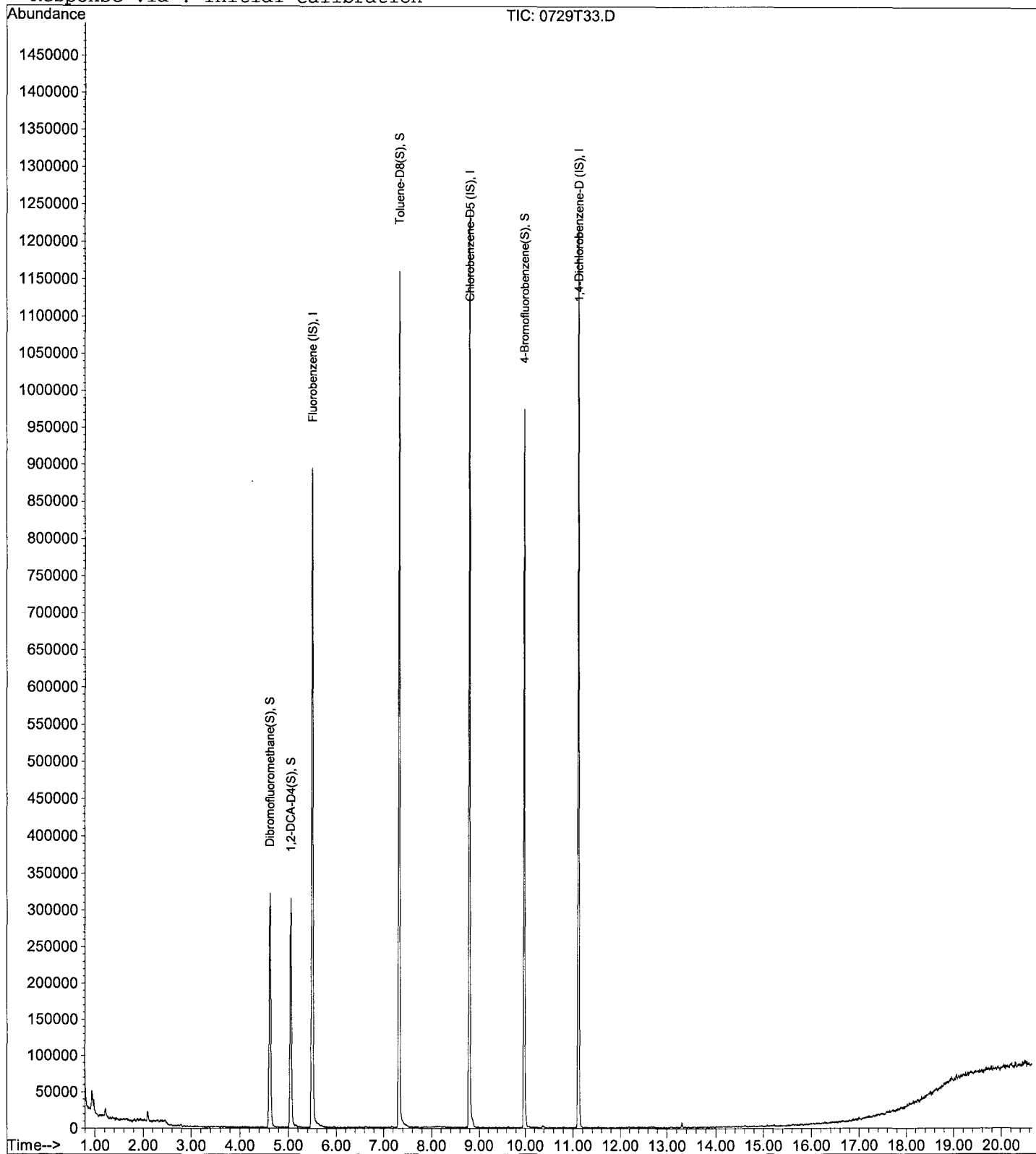
Data File : M:\THOR\DATA\T190726\0729T33.D
Acq On : 29 Jul 19 23:40
Sample : AZ95336W01
Misc : IS&S 7/6/19, 6/2/19

Vial: 33
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 11:21 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T34.D
 Acq On : 30 Jul 19 00:08
 Sample : AZ95337W01
 Misc : IS&S 7/6/19, 6/2/19

Vial: 34
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 30 11:21 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	451904	25.00000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	454272	25.00000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	232704	25.00000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	231572	24.23690	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.948%	
45) 1,2-DCA-D4(S)	5.05	65	260045	23.85868	ppb	0.00
Spiked Amount	25.000		Recovery	=	95.436%	
66) Toluene-D8(S)	7.32	98	779978	22.77779	ppb	0.00
Spiked Amount	25.000		Recovery	=	91.112%	
74) 4-Bromofluorobenzene(S)	9.98	95	298569	22.58206	ppb	0.00
Spiked Amount	25.000		Recovery	=	90.328%	

Target Compounds

Qvalue

Quantitation Report

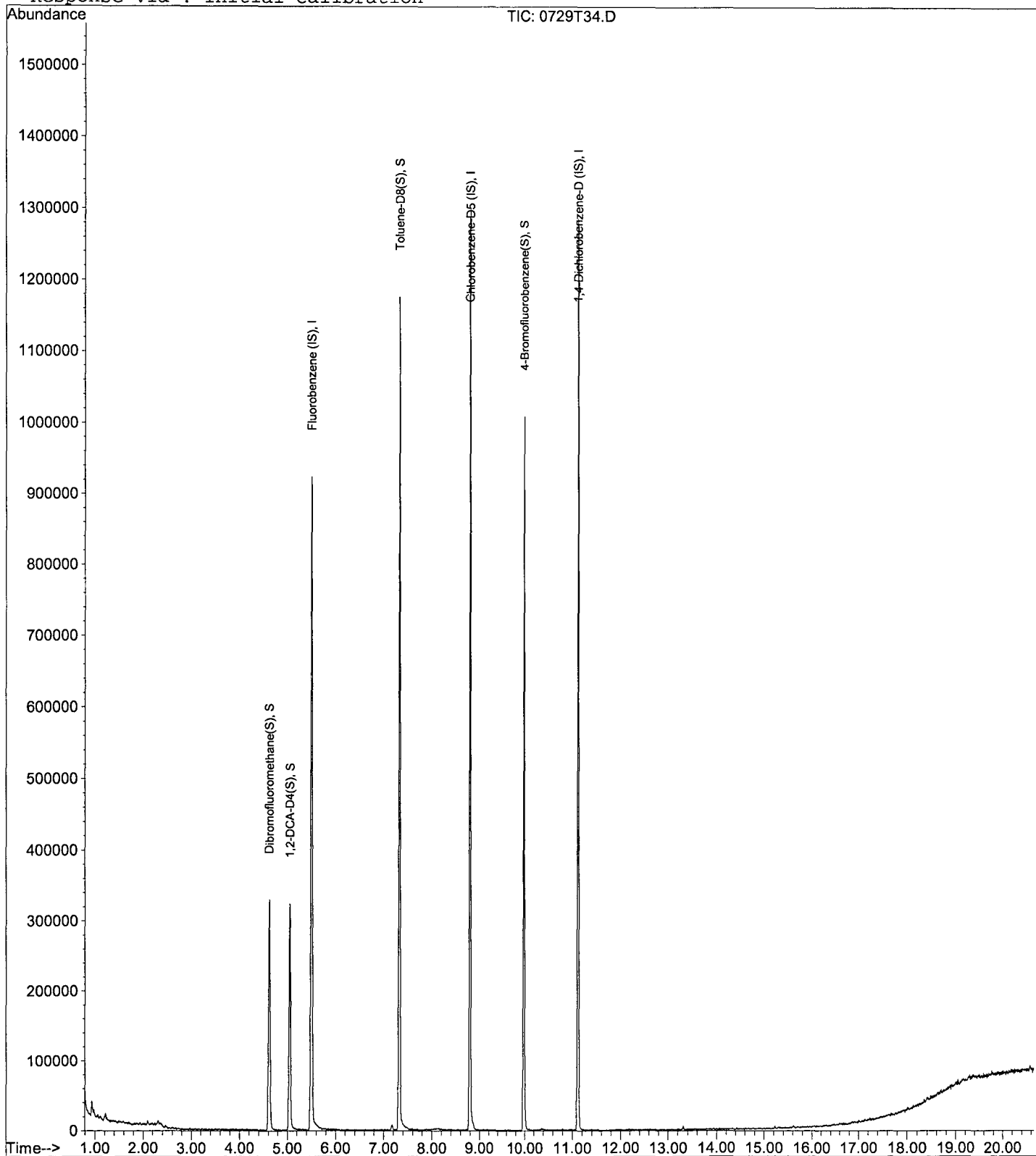
Data File : M:\THOR\DATA\T190726\0729T34.D
Acq On : 30 Jul 19 00:08
Sample : AZ95337W01
Misc : IS&S 7/6/19, 6/2/19

Vial: 34
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 11:21 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T35.D
 Acq On : 30 Jul 19 00:37
 Sample : AZ95338W01
 Misc : IS&S 7/6/19, 6/2/19

Vial: 35
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 30 11:22 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	464000	25.00000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	454080	25.00000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	233216	25.00000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	229203	23.36358	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	93.456%
45) 1,2-DCA-D4(S)	5.05	65	256064	22.88098	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	91.524%
66) Toluene-D8(S)	7.32	98	777735	22.72189	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	90.888%
74) 4-Bromofluorobenzene(S)	9.98	95	290597	21.98839	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	87.952%

Target Compounds

Qvalue

Quantitation Report

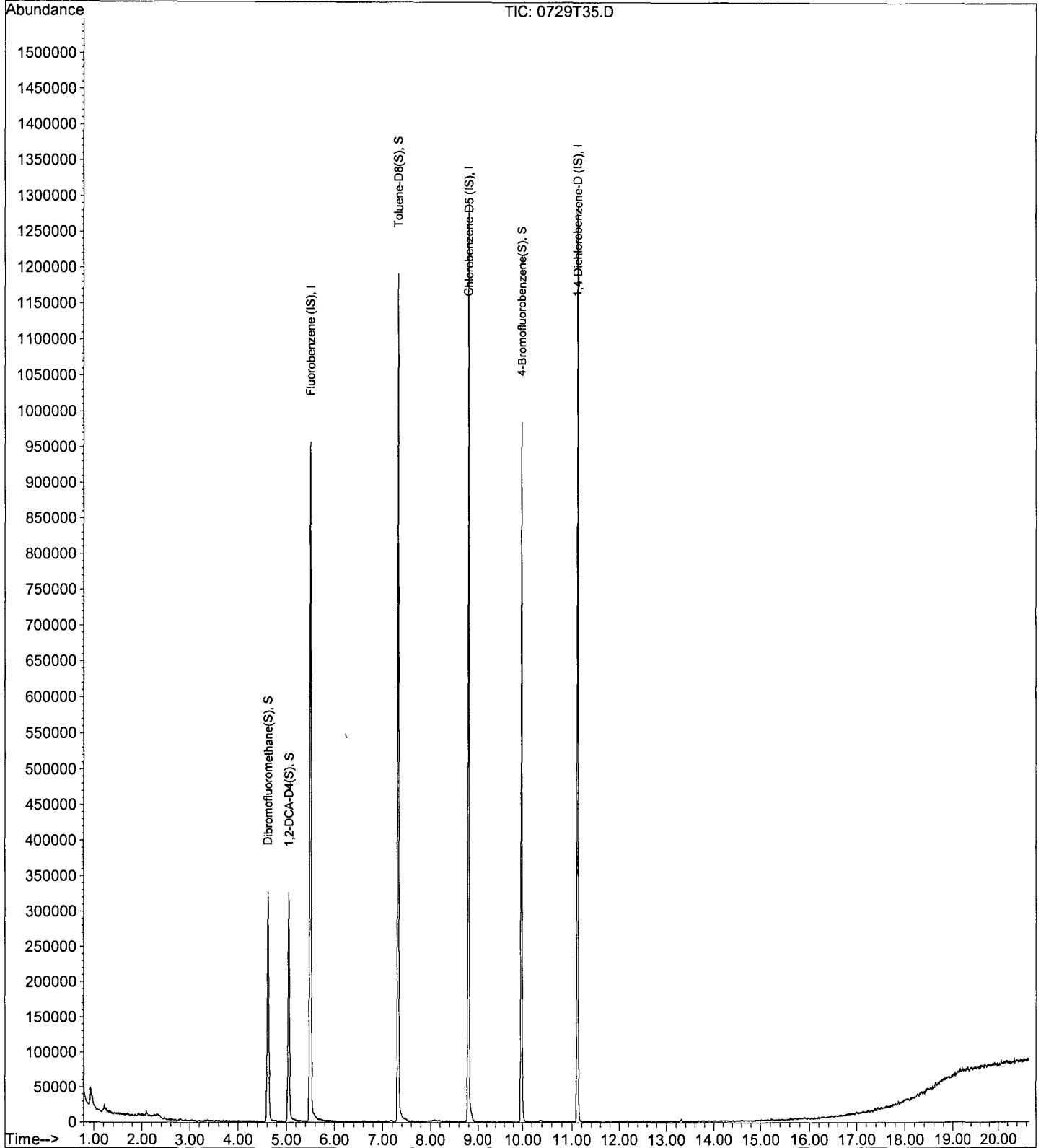
Data File : M:\THOR\DATA\T190726\0729T35.D
Acq On : 30 Jul 19 00:37
Sample : AZ95338W01
Misc : IS&S 7/6/19, 6/2/19

Vial: 35
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 11:22 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0727L26.D
 Acq On : 27 Jul 19 21:48
 Sample : 190727B BLK
 Misc : IS&S 7/15/19,6/5/19

Vial: 26
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:56 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	177664	25.00000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	161600	25.00000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	83280	25.00000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	83824	26.63712	ppb	0.00
Spiked Amount	25.000					
					Recovery = 106.548%	
44) 1,2-DCA-D4(S)	5.25	65	81517	25.22910	ppb	0.00
Spiked Amount	25.000					
					Recovery = 100.916%	
65) Toluene-D8(S)	7.63	98	245461	24.99970	ppb	0.00
Spiked Amount	25.000					
					Recovery = 100.000%	
73) 4-Bromofluorobenzene(S)	10.54	95	82902	24.42015	ppb	0.00
Spiked Amount	25.000					
					Recovery = 97.680%	

Target Compounds

Qvalue

Quantitation Report

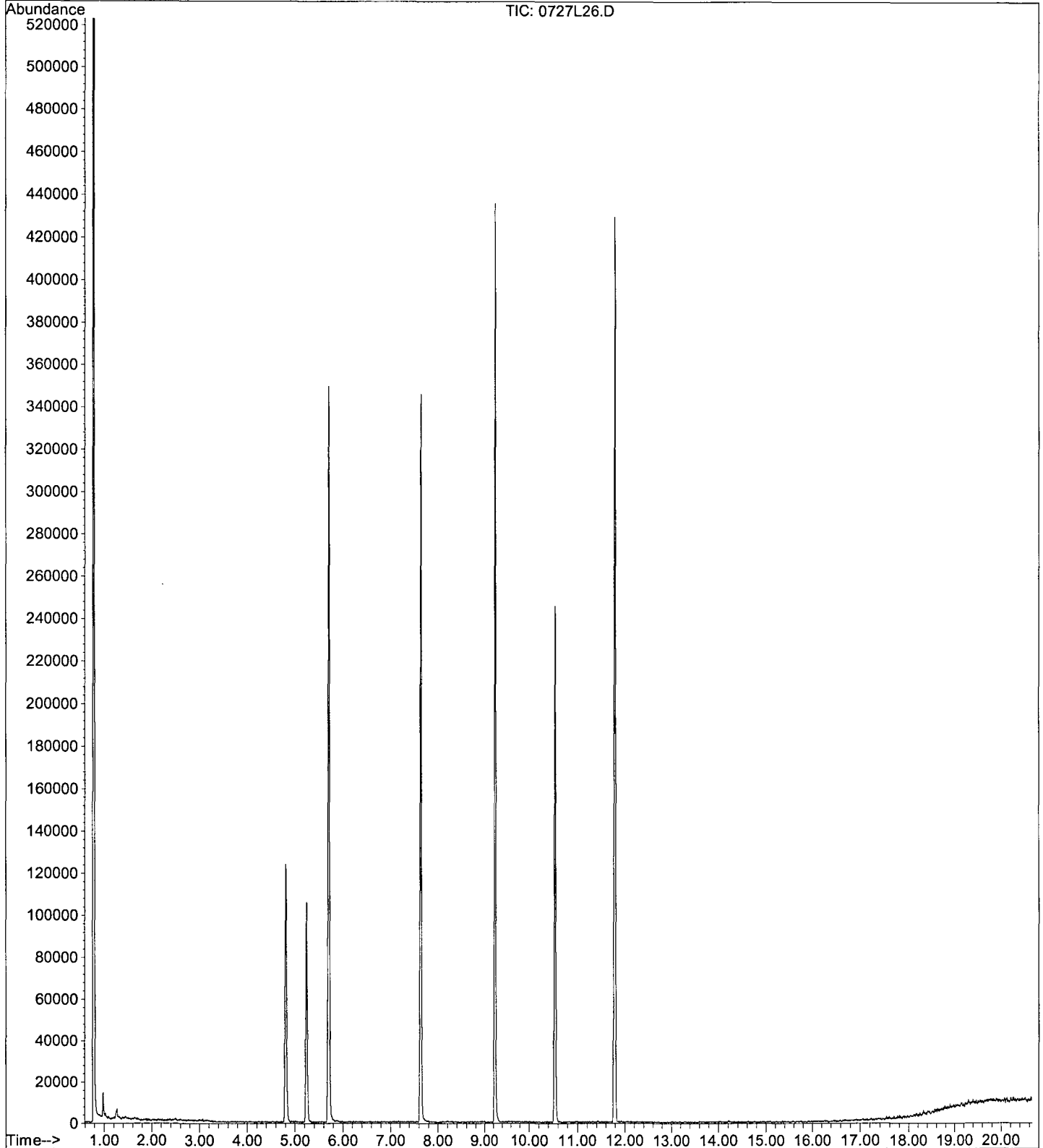
Data File : M:\LOKI\DATA\190724\0727L26.D
Acq On : 27 Jul 19 21:48
Sample : 190727B BLK
Misc : IS&S 7/15/19,6/5/19

Vial: 26
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:56 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0727L21.D
 Acq On : 27 Jul 19 19:24
 Sample : 190727B LCS 10ug/L
 Misc : IS&S 7/15/19,6/5/19

Vial: 21
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:55 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	203648	25.00000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	188800	25.00000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	109992	25.00000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	88657	24.57826	ppb	0.00
Spiked Amount	25.000		Recovery	=	98.312%	
44) 1,2-DCA-D4(S)	5.25	65	86623	23.38870	ppb	0.00
Spiked Amount	25.000		Recovery	=	93.556%	
65) Toluene-D8(S)	7.63	98	267001	23.27580	ppb	0.00
Spiked Amount	25.000		Recovery	=	93.104%	
73) 4-Bromofluorobenzene(S)	10.53	95	99263	25.02708	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.108%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	0.91	87	3485	6.75572	ppb	97
4) Freon 114	0.99	85	9514	6.55661	ppb	94
5) Chloromethane	1.02	50	10858	6.58466	ppb	92
6) Vinyl chloride	1.09	62	11430	6.54111	ppb	90
8) Bromomethane	1.30	94	10844	10.57655	ppb	98
9) Chloroethane	1.38	64	6935	6.02210	ppb	# 82
10) Dichlorofluoromethane	1.54	67	23474	7.99632	ppb	99
11) Trichlorofluoromethane	1.57	103	14110	7.35672	ppb	92
13) Acrolein	1.90	56	11849	113.16968	ppb	97
14) Acetone	2.03	43	5655	7.19713	ppb	93
15) Freon-113	2.00	101	12688	7.64108	ppb	90
16) 1,1-DCE	1.98	96	13146	8.11413	ppb	93
17) t-Butanol	2.62	59	18511	108.29152	ppb	95
18) 2-Propanol	2.21	45	139	-1.30833	ppb	# 45
19) Acetonitrile	2.28	41	21447	95.31652	ppb	90
20) Methyl Acetate	2.35	43	10644	7.16168	ppb	# 82
21) Iodomethane	2.09	142	4309	6.80641	ppb	# 88
22) Acrylonitrile	2.69	53	6419	8.65720	ppb	92
23) Methylene chloride	2.43	84	15253	7.92757	ppb	90
24) Carbon disulfide	2.15	76	31601	6.88803	ppb	98
25) Methyl t-butyl ether (MtBE)	2.75	73	39314	8.20761	ppb	99
26) Trans-1,2-DCE	2.72	96	14042	7.81487	ppb	99
27) Diisopropyl Ether	3.39	45	29859	8.02276	ppb	94
29) 1,1-DCA	3.21	63	24456	8.34806	ppb	98
30) Vinyl Acetate	3.39	45	29859	8.02276	ppb	94
31) Ethyl tert Butyl Ether	3.94	59	28252	8.51532	ppb	98
32) MEK (2-Butanone)	4.15	43	2153	8.20449	ppb	92
33) Cis-1,2-DCE	4.08	96	16865	8.78483	ppb	95
34) 2,2-Dichloropropane	4.05	77	16429	7.58206	ppb	# 92
37) Chloroform	4.59	83	28466	9.03595	ppb	96
38) Bromochloromethane	4.42	128	11327	10.43272	ppb	100
40) 1,1,1-TCA	4.80	97	25414	9.63173	ppb	97
41) Cyclohexane	4.86	41	7481	7.89318	ppb	94
42) 1,1-Dichloropropene	5.04	75	15011	8.49494	ppb	91
43) 2,2,4-Trimethylpentane	5.49	57	21054	7.14299	ppb	96
45) Carbon Tetrachloride	5.03	117	22977	9.08153	ppb	98
46) Tert Amyl Methyl Ether	5.55	73	30002	8.69217	ppb	98
48) 1,2-DCA	5.35	62	22380	9.53520	ppb	98
49) Benzene	5.31	78	53398	9.08017	ppb	98

(#) = qualifier out of range (m) = manual integration

Data File : M:\LOKI\DATA\190724\0727L21.D
 Acq On : 27 Jul 19 19:24
 Sample : 190727B LCS 10ug/L
 Misc : IS&S 7/15/19,6/5/19

Vial: 21
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:55 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) TCE	6.18	130	20792	10.50645	ppb	93
51) 2-Pentanone	6.46	43	107151	114.50645	ppb	96
52) 1,2-Dichloropropane	6.44	63	13555	8.64969	ppb #	94
53) Bromodichloromethane	6.80	83	23712	9.81106	ppb	98
54) Methyl Cyclohexane	6.40	83	14709	8.44336	ppb	93
55) Dibromomethane	6.57	93	11295	9.53754	ppb	94
56) 2-Chloroethyl vinyl ether	7.22	63	84	5.68668	ppb #	48
57) MIBK (methyl isobutyl ket)	7.56	43	9632	7.89598	ppb	98
58) 1-Bromo-2-chloroethane	7.13	63	19988	8.98130	ppb	100
59) Cis-1,3-Dichloropropene	7.34	75	18860	8.15408	ppb	99
60) Toluene	7.71	91	60370	9.47655	ppb	100
61) Trans-1,3-Dichloropropene	7.99	75	17405	8.55624	ppb	97
62) 1,1,2-TCA	8.18	83	13281	9.50297	ppb	98
63) 2-Hexanone	8.51	43	6571	9.10180	ppb	98
66) 1,2-EDB	8.70	107	15987	9.21316	ppb #	95
67) Tetrachloroethene	8.32	166	22823	8.86897	ppb	97
68) 1-Chlorohexane	9.29	91	13472	8.24737	ppb	89
69) 1,1,1,2-Tetrachloroethane	9.37	131	20587	9.24449	ppb	93
70) m&p-Xylene	9.55	91	89915	18.02463	ppb	94
71) o-Xylene	9.97	106	22767	8.74506	ppb	91
72) Styrene	9.99	104	37904	8.42352	ppb	99
74) 1,3-Dichloropropane	8.36	76	24261	8.99792	ppb	97
75) Dibromochloromethane	8.60	129	21263	9.49143	ppb	79
76) Chlorobenzene	9.26	112	48263	9.92224	ppb	97
77) Ethylbenzene	9.41	91	59259	9.12195	ppb	99
78) Bromoform	10.16	173	17978	9.76140	ppb	84
80) Isopropylbenzene	10.39	105	31312	9.09093	ppb	99
81) 1,1,2,2-Tetrachloroethane	10.72	83	19334	8.44539	ppb	92
82) 1,2,3-Trichloropropane	10.74	110	8184	10.15852	ppb	89
83) t-1,4-Dichloro-2-Butene	10.78	53	2446	8.12095	ppb #	69
84) Bromobenzene	10.68	156	22680	9.81013	ppb	87
85) n-Propylbenzene	10.84	91	62036	9.11314	ppb	99
86) 4-Ethyltoluene	10.97	105	54635	8.99393	ppb	99
87) 2-Chlorotoluene	10.90	91	24376	9.41689	ppb	98
88) 1,3,5-Trimethylbenzene	11.04	105	50013	9.27653	ppb	95
89) 4-Chlorotoluene	11.03	126	10439	10.08401	ppb	81
90) Tert-Butylbenzene	11.38	119	41379	8.24808	ppb	96
91) 1,2,4-Trimethylbenzene	11.44	105	47632	9.37719	ppb	99
92) Sec-Butylbenzene	11.62	105	57232	9.28916	ppb	100
93) p-Isopropyltoluene	11.79	119	53581	9.44152	ppb	98
94) Benzyl Chloride	11.96	91	10675	7.36249	ppb	95
95) 1,3-DCB	11.71	146	40388	10.19065	ppb	99
96) 1,4-DCB	11.81	146	42304	9.80487	ppb	97
97) n-Butylbenzene	12.23	91	36655	8.76211	ppb	95
98) 1,2-DCB	12.20	146	37402	9.32775	ppb	99
99) Hexachloroethane	12.48	201	12565	9.11730	ppb #	78
100) 1,2-Dibromo-3-chloropropan	13.04	75	3812	9.47617	ppb	87
101) 1,2,4-Trichlorobenzene	13.95	180	21042	8.86204	ppb	91
102) Hexachlorobutadiene	14.16	223	4231	7.98141	ppb	87
103) Naphthalene	14.21	128	38289	8.91934	ppb	97
104) 1,2,3-Trichlorobenzene	14.47	180	21421	9.36077	ppb	96

(#) = qualifier out of range (m) = manual integration
 0727L21.D L0724W.M Tue Aug 13 15:50:37 2019

Quantitation Report

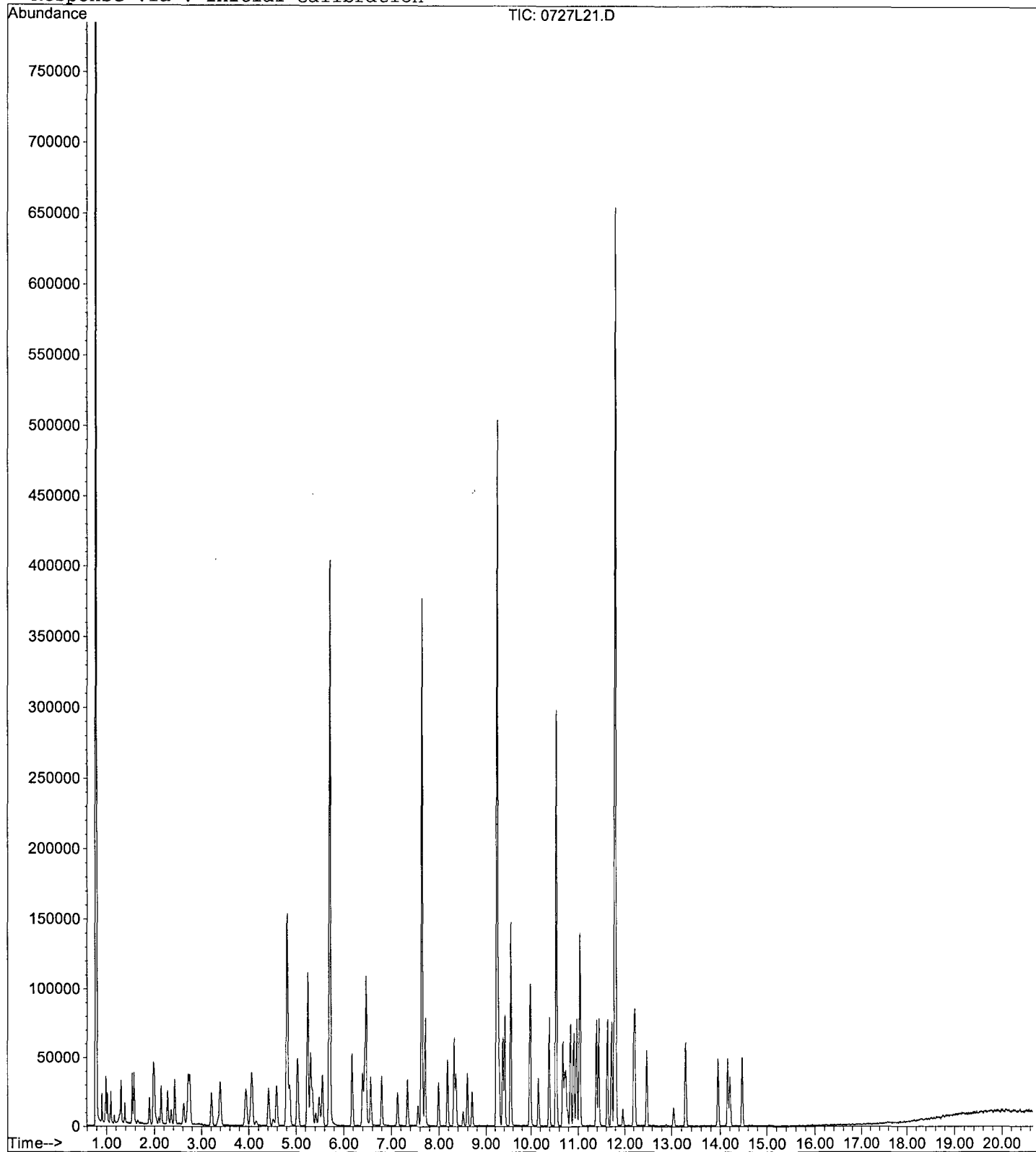
Data File : M:\LOKI\DATA\190724\0727L21.D
Acq On : 27 Jul 19 19:24
Sample : 190727B LCS 10ug/L
Misc : IS&S 7/15/19,6/5/19

Vial: 21
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:55 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0727L22.D
 Acq On : 27 Jul 19 19:53
 Sample : 190727B LCSD 10ug/L
 Misc : IS&S 7/15/19,6/5/19

Vial: 22
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:55 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	194944	25.00000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	180992	25.00000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	111920	25.00000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	86636	25.09036	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.360%	
44) 1,2-DCA-D4(S)	5.25	65	82347	23.22688	ppb	0.00
Spiked Amount	25.000		Recovery	=	92.908%	
65) Toluene-D8(S)	7.63	98	267725	24.34576	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.384%	
73) 4-Bromofluorobenzene(S)	10.53	95	102410	26.93443	ppb	0.00
Spiked Amount	25.000		Recovery	=	107.736%	
Target Compounds						
3) Dichlorodifluoromethane	0.91	87	5260	11.19490	ppb	97
4) Freon 114	0.99	85	12237	8.80971	ppb	98
5) Chloromethane	1.02	50	13570	9.15245	ppb	97
6) Vinyl chloride	1.09	62	15104	9.02957	ppb	96
8) Bromomethane	1.30	94	11612	11.86034	ppb	90
9) Chloroethane	1.38	64	7544	7.15062	ppb	91
10) Dichlorofluoromethane	1.54	67	23547	8.37933	ppb	97
11) Trichlorofluoromethane	1.57	103	16935	9.22386	ppb	85
13) Acrolein	1.90	56	11801	117.74364	ppb	99
14) Acetone	2.03	43	5295	6.93941	ppb	# 89
15) Freon-113	2.00	101	14153	8.90390	ppb	92
16) 1,1-DCE	1.98	96	14928	9.62543	ppb	97
17) t-Butanol	2.62	59	17762	108.56710	ppb	94
18) 2-Propanol	2.21	45	231	-0.32111	ppb	# 45
19) Acetonitrile	2.28	41	22141	102.79432	ppb	98
20) Methyl Acetate	2.36	43	10054	7.04488	ppb	90
21) Iodomethane	2.09	142	5279	8.15582	ppb	# 84
22) Acrylonitrile	2.69	53	5927	8.35055	ppb	# 77
23) Methylene chloride	2.43	84	17420	9.45808	ppb	85
24) Carbon disulfide	2.15	76	37976	8.64716	ppb	97
25) Methyl t-butyl ether (MtBE)	2.75	73	37804	8.24475	ppb	97
26) Trans-1,2-DCE	2.72	96	16860	9.80213	ppb	97
27) Diisopropyl Ether	3.40	45	28406	7.97313	ppb	93
29) 1,1-DCA	3.21	63	27347	9.75169	ppb	95
30) Vinyl Acetate	3.40	45	28406	7.97313	ppb	93
31) Ethyl tert Butyl Ether	3.94	59	27610	8.69337	ppb	98
32) MEK (2-Butanone)	4.15	43	2114	8.41555	ppb	# 83
33) Cis-1,2-DCE	4.07	96	18165	9.88445	ppb	88
34) 2,2-Dichloropropane	4.05	77	19873	9.58098	ppb	96
37) Chloroform	4.59	83	32594	10.80825	ppb	95
38) Bromochloromethane	4.42	128	11941	11.48931	ppb	96
40) 1,1,1-TCA	4.80	97	27038	10.70474	ppb	98
41) Cyclohexane	4.87	41	7745	8.53658	ppb	95
42) 1,1-Dichloropropene	5.05	75	16871	9.97383	ppb	96
43) 2,2,4-Trimethylpentane	5.49	57	21551	7.63806	ppb	96
45) Carbon Tetrachloride	5.03	117	25898	10.69306	ppb	97
46) Tert Amyl Methyl Ether	5.55	73	28526	8.63354	ppb	98
48) 1,2-DCA	5.35	62	23141	10.29964	ppb	96
49) Benzene	5.31	78	61478	10.92091	ppb	96

(#) = qualifier out of range (m) = manual integration
 0727L22.D L0724W.M Tue Aug 13 15:50:38 2019

Data File : M:\LOKI\DATA\190724\0727L22.D
 Acq On : 27 Jul 19 19:53
 Sample : 190727B LCSD 10ug/L
 Misc : IS&S 7/15/19,6/5/19

Vial: 22
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:55 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) TCE	6.18	130	22265	11.75311	ppb	90
51) 2-Pentanone	6.46	43	107008	119.45938	ppb	98
52) 1,2-Dichloropropane	6.44	63	15004	10.00181	ppb	98
53) Bromodichloromethane	6.80	83	25268	10.92166	ppb	100
54) Methyl Cyclohexane	6.40	83	14735	8.83594	ppb	99
55) Dibromomethane	6.57	93	12314	10.86225	ppb	98
56) 2-Chloroethyl vinyl ether	7.22	63	350	10.28950	ppb #	48
57) MIBK (methyl isobutyl ket	7.56	43	8662	7.41785	ppb	91
58) 1-Bromo-2-chloroethane	7.13	63	19624	9.21144	ppb	89
59) Cis-1,3-Dichloropropene	7.34	75	21877	9.88078	ppb	99
60) Toluene	7.71	91	66193	10.85454	ppb	97
61) Trans-1,3-Dichloropropene	7.99	75	19762	10.14869	ppb	98
62) 1,1,2-TCA	8.18	83	13446	10.05060	ppb	88
63) 2-Hexanone	8.51	43	5881	8.50976	ppb	91
66) 1,2-EDB	8.70	107	17327	10.41616	ppb	92
67) Tetrachloroethene	8.32	166	26407	10.70439	ppb	93
68) 1-Chlorohexane	9.29	91	13373	8.53994	ppb	99
69) 1,1,1,2-Tetrachloroethane	9.37	131	22668	10.61808	ppb	92
70) m&p-Xylene	9.55	91	100837	21.08613	ppb	99
71) o-Xylene	9.97	106	25326	9.98045	ppb	85
72) Styrene	9.99	104	44183	9.94743	ppb	92
74) 1,3-Dichloropropane	8.35	76	26797	10.36722	ppb	98
75) Dibromochloromethane	8.60	129	23465	10.92623	ppb	97
76) Chlorobenzene	9.26	112	51691	11.08544	ppb	97
77) Ethylbenzene	9.41	91	64891	10.41983	ppb	98
78) Bromoform	10.16	173	19257	10.90691	ppb	93
80) Isopropylbenzene	10.39	105	34448	9.82913	ppb	95
81) 1,1,2,2-Tetrachloroethane	10.71	83	20562	8.82708	ppb	99
82) 1,2,3-Trichloropropane	10.74	110	8372	10.21286	ppb	87
83) t-1,4-Dichloro-2-Butene	10.77	53	2608	8.47057	ppb	84
84) Bromobenzene	10.68	156	24679	10.49090	ppb	99
85) n-Propylbenzene	10.84	91	70618	10.19514	ppb	98
86) 4-Ethyltoluene	10.97	105	55974	9.05562	ppb	100
87) 2-Chlorotoluene	10.90	91	26376	10.01399	ppb	100
88) 1,3,5-Trimethylbenzene	11.04	105	59588	10.86213	ppb	100
89) 4-Chlorotoluene	11.03	126	10720	10.17706	ppb	95
90) Tert-Butylbenzene	11.39	119	54550	10.48978	ppb	99
91) 1,2,4-Trimethylbenzene	11.44	105	53408	10.33317	ppb	99
92) Sec-Butylbenzene	11.62	105	64288	10.25465	ppb	99
93) p-Isopropyltoluene	11.79	119	60038	10.39706	ppb	99
94) Benzyl Chloride	11.96	91	12503	8.40693	ppb	96
95) 1,3-DCB	11.71	146	43785	10.85746	ppb	97
96) 1,4-DCB	11.81	146	46227	10.52954	ppb	98
97) n-Butylbenzene	12.23	91	41646	9.78368	ppb	91
98) 1,2-DCB	12.20	146	41813	10.24818	ppb	94
99) Hexachloroethane	12.49	201	13124	9.35887	ppb	90
100) 1,2-Dibromo-3-chloropropan	13.04	75	4189	10.33634	ppb	90
101) 1,2,4-Trichlorobenzene	13.95	180	23801	9.75727	ppb	97
102) Hexachlorobutadiene	14.16	223	4601	8.57410	ppb #	71
103) Naphthalene	14.21	128	40734	9.23492	ppb	100
104) 1,2,3-Trichlorobenzene	14.47	180	24028	10.31912	ppb	98

(#) = qualifier out of range (m) = manual integration
 0727L22.D L0724W.M Tue Aug 13 15:50:39 2019

Quantitation Report

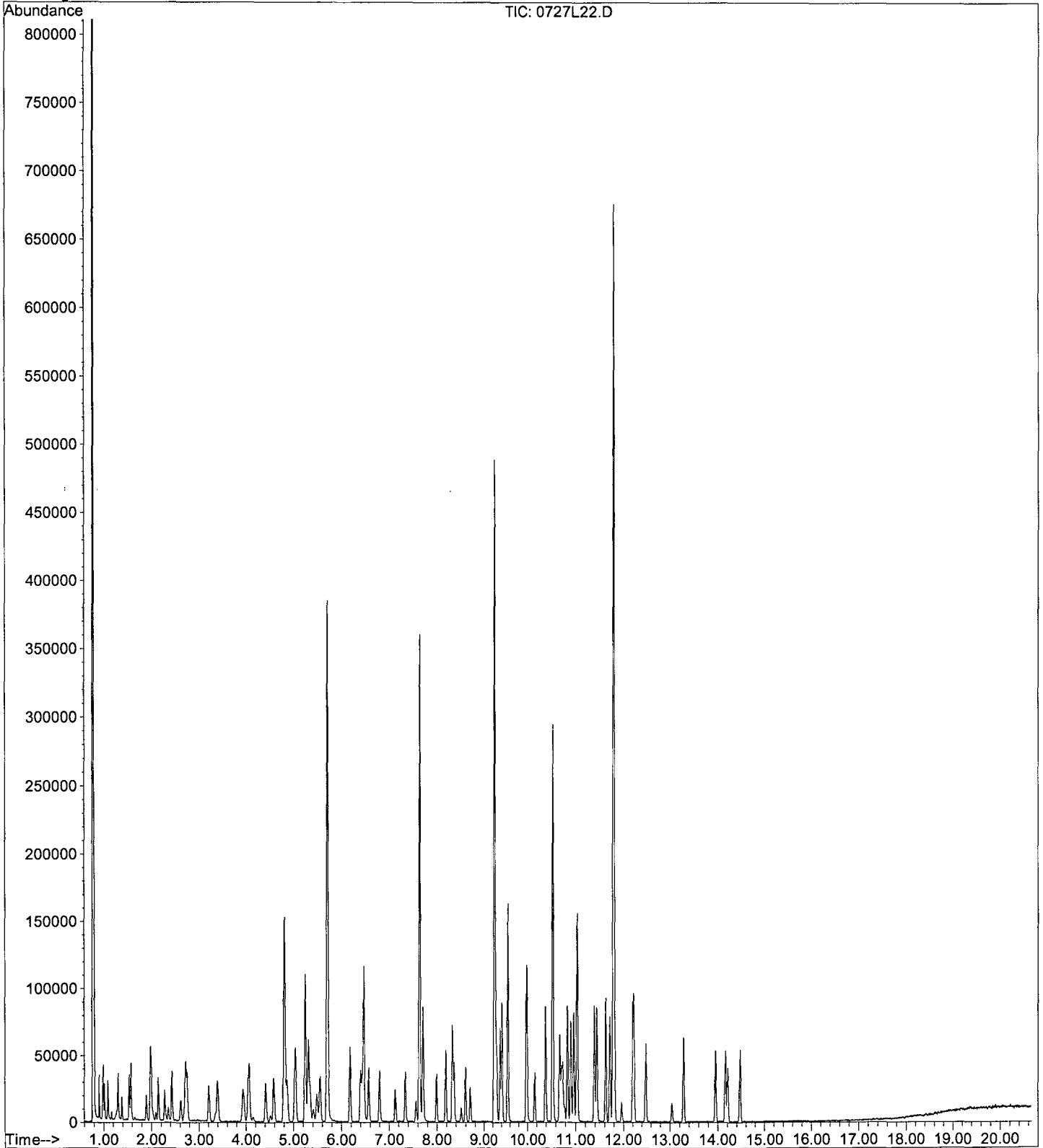
Data File : M:\LOKI\DATA\190724\0727L22.D
Acq On : 27 Jul 19 19:53
Sample : 190727B LCSD 10ug/L
Misc : IS&S 7/15/19,6/5/19

Vial: 22
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:55 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T26.D
 Acq On : 29 Jul 19 20:24
 Sample : 190729B BLK
 Misc : IS&S 7/6/19, 6/2/19

Vial: 26
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 30 10:23 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	451072	25.00000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	438912	25.00000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	234496	25.00000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	223873	23.47432	ppb	0.00
Spiked Amount	25.000		Recovery	=	93.896%	
45) 1,2-DCA-D4(S)	5.05	65	255221	23.45927	ppb	0.00
Spiked Amount	25.000		Recovery	=	93.836%	
66) Toluene-D8(S)	7.32	98	772255	23.34148	ppb	0.00
Spiked Amount	25.000		Recovery	=	93.364%	
74) 4-Bromofluorobenzene(S)	9.98	95	289526	22.66443	ppb	0.00
Spiked Amount	25.000		Recovery	=	90.656%	

Target Compounds

Qvalue

Quantitation Report

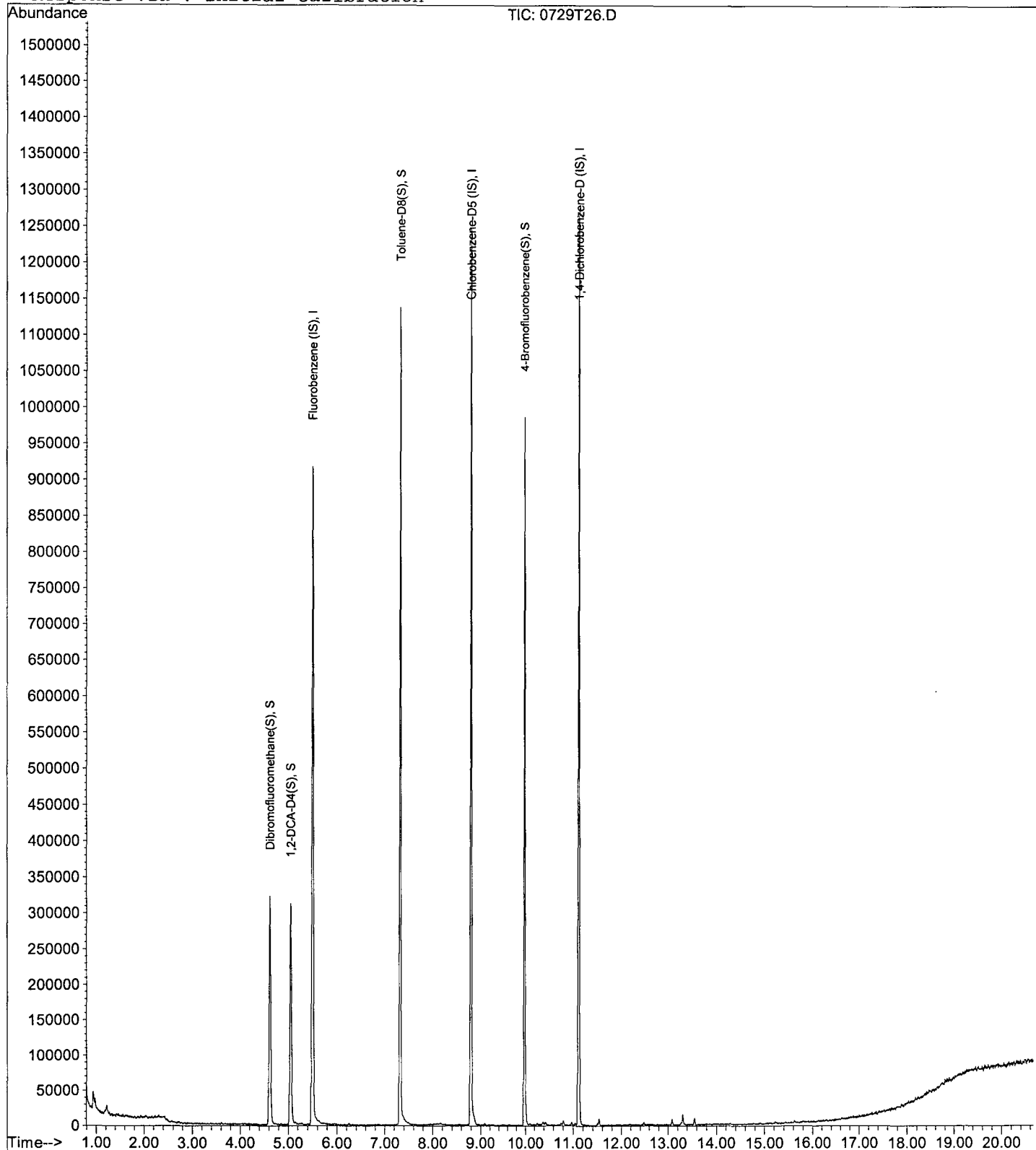
Data File : M:\THOR\DATA\T190726\0729T26.D
Acq On : 29 Jul 19 20:24
Sample : 190729B BLK
Misc : IS&S 7/6/19, 6/2/19

Vial: 26
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 10:23 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T21.D
 Acq On : 29 Jul 19 18:03
 Sample : 190729B CCV/LCS 10ug/L
 Misc : IS&S 7/6/19, 6/2/19

Vial: 21
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 30 10:20 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	451456	25.00000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	442240	25.00000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	235968	25.00000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	236422	24.76907	ppb	0.00
Spiked Amount	25.000		Recovery	=	99.076%	
45) 1,2-DCA-D4(S)	5.05	65	268437	24.65307	ppb	0.00
Spiked Amount	25.000		Recovery	=	98.612%	
66) Toluene-D8(S)	7.32	98	813494	24.40290	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.612%	
74) 4-Bromofluorobenzene(S)	9.98	95	314828	24.45964	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.840%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	0.87	87	14496	10.94432	ppb	99
4) Freon 114	0.95	85	31957	10.20664	ppb	98
5) Chloromethane	0.98	50	67805	9.31543	ppb	100
6) Vinyl chloride	1.05	62	40926	10.37644	ppb	96
7) 2-Chloro-1,1,1-trifluoroet	0.85	118	105	0.18796	ppb	# 100
8) Bromomethane	1.25	94	14696	12.07537	ppb	90
9) Chloroethane	1.32	64	22789	10.27059	ppb	89
10) Dichlorofluoromethane	1.47	67	56143	10.39246	ppb	99
11) Trichlorofluoromethane	1.50	101	58271	10.28060	ppb	96
13) Acrolein	1.81	55	27487	138.02233	ppb	95
14) Acetone	1.94	43	16855	11.54223	ppb	97
15) Freon-113	1.90	101	16880	11.20480	ppb	94
16) 1,1-DCE	1.88	61	50184	10.44014	ppb	96
17) 2-Propanol	1.96	45	2194	9.84552	ppb	# 1
18) Acetonitrile	2.17	41	65374	125.24675	ppb	94
19) t-Butanol	2.49	59	26712	129.74274	ppb	100
20) Methyl Acetate	2.24	43	31052	10.02227	ppb	100
21) Iodomethane	1.99	142	7131	9.33041	ppb	# 89
22) Acrylonitrile	2.56	52	12611	10.26284	ppb	93
23) Methylene chloride	2.31	84	37381	10.33994	ppb	98
24) Carbon disulfide	2.04	76	76116	10.14742	ppb	97
25) Methyl t-butyl ether (MtBE)	2.61	73	96345	10.41725	ppb	96
26) Trans-1,2-DCE	2.58	96	35471	10.83400	ppb	97
28) Diisopropyl Ether	3.22	45	35776	10.07357	ppb	95
30) 1,1-DCA	3.05	63	62027	9.88927	ppb	95
31) Vinyl Acetate	3.22	87	26503	10.14949	ppb	98
32) Ethyl tert Butyl Ether	3.73	59	69136	10.38649	ppb	98
33) MEK (2-Butanone)	3.94	43	6002	9.70922	ppb	98
34) Cis-1,2-DCE	3.85	61	55779	10.11251	ppb	97
35) 2,2-Dichloropropane	3.83	77	16138	9.64724	ppb	# 63
38) Chloroform	4.39	83	67821	10.24776	ppb	89
39) Bromochloromethane	4.21	128	22092	11.15807	ppb	98
41) 1,1,1-TCA	4.60	97	23392	10.59409	ppb	99
42) Cyclohexane	4.67	41	24456	10.57046	ppb	# 78
43) 1,1-Dichloropropene	4.85	75	45347	9.97707	ppb	95
44) 2,2,4-Trimethylpentane	5.29	57	28728	10.05115	ppb	99
46) Carbon Tetrachloride	4.83	117	43384	10.13937	ppb	96
47) Tert Amyl Methyl Ether	5.35	73	63645	10.18527	ppb	# 93
49) 1,2-DCA	5.15	62	52615	9.62051	ppb	97

(#) = qualifier out of range (m) = manual integration
 0729T21.D T0726W.M Tue Aug 13 15:54:38 2019

Data File : M:\THOR\DATA\T190726\0729T21.D
 Acq On : 29 Jul 19 18:03
 Sample : 190729B CCV/LCS 10ug/L
 Misc : IS&S 7/6/19, 6/2/19

Vial: 21
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 30 10:20 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Benzene	5.11	78	141332	10.42603	ppb	97
51) TCE	5.95	95	40280	10.87161	ppb	99
52) 2-Pentanone	6.23	43	345210	129.45991	ppb	98
53) 1,2-Dichloropropane	6.20	63	19560	11.06677	ppb #	100
54) Bromodichloromethane	6.55	83	28616	10.55482	ppb	98
55) Methyl Cyclohexane	6.16	83	44857	10.25484	ppb	91
56) Dibromomethane	6.32	93	28587	11.22203	ppb	98
57) MIBK (methyl isobutyl ket	7.26	58	14943	10.38556	ppb #	91
58) 1-Bromo-2-chloroethane	6.85	63	45961	10.08323	ppb	94
59) 2-Chloroethyl vinyl ether	6.85	107	1755	30.87572	ppb #	31
60) Cis-1,3-Dichloropropene	7.05	75	31544	10.00627	ppb	94
61) Toluene	7.39	91	158196	10.61822	ppb	95
62) Trans-1,3-Dichloropropene	7.66	75	49460	10.11398	ppb	95
63) 1,1,2-TCA	7.83	83	30903	10.69724	ppb	89
64) 2-Hexanone	8.14	58	8585	10.35488	ppb	94
67) 1,2-EDB	8.30	107	39558	10.59191	ppb	98
68) Tetrachloroethene	7.95	164	46024	10.56350	ppb	95
69) 1-Chlorohexane	8.85	91	33309	9.82318	ppb	97
70) 1,1,1,2-Tetrachloroethane	8.92	131	26104	11.04402	ppb	98
71) m&p-Xylene	9.08	106	76328	21.42678	ppb	94
72) o-Xylene	9.47	106	62857	10.83789	ppb	88
73) Styrene	9.48	104	84788	10.25617	ppb	98
75) 1,3-Dichloropropane	7.99	76	37176	10.41558	ppb	100
76) Dibromochloromethane	8.21	129	25936	10.34963	ppb	95
77) Chlorobenzene	8.82	112	106740	10.61367	ppb	95
78) Ethylbenzene	8.96	91	162750	10.31834	ppb	99
79) Bromoform	9.64	173	23464	10.45506	ppb	92
81) Isopropylbenzene	9.85	105	158756	10.94841	ppb	97
82) 1,1,2,2-Tetrachloroethane	10.15	83	49509	10.56337	ppb #	94
83) 1,2,3-Trichloropropane	10.17	110	17373	10.21288	ppb	95
84) t-1,4-Dichloro-2-Butene	10.21	53	6676	11.48776	ppb #	74
85) Bromobenzene	10.10	156	51044	10.89167	ppb	92
86) n-Propylbenzene	10.26	91	158598	10.39676	ppb	99
87) 4-Ethyltoluene	10.37	105	117170	10.85784	ppb	99
88) 2-Chlorotoluene	10.31	91	112371	11.42882	ppb	93
89) 1,3,5-Trimethylbenzene	10.44	105	117076	10.33983	ppb	98
90) 4-Chlorotoluene	10.42	91	121177	10.54176	ppb	100
91) Tert-Butylbenzene	10.75	119	112686	10.36520	ppb	98
92) 1,2,4-Trimethylbenzene	10.80	105	115976	10.09423	ppb	97
93) Sec-Butylbenzene	10.97	105	141302	10.65303	ppb	99
94) p-Isopropyltoluene	11.12	119	119101	10.01584	ppb	98
95) Benzyl Chloride	11.28	91	17288	7.31823	ppb	98
96) 1,3-DCB	11.04	146	83049	10.08895	ppb	95
97) 1,4-DCB	11.14	146	83065	10.13528	ppb	98
98) n-Butylbenzene	11.53	91	101673	10.68194	ppb	99
99) 1,2-DCB	11.49	146	80970	10.58543	ppb	98
100) Hexachloroethane	11.74	117	15835	10.80611	ppb #	97
101) 1,2-Dibromo-3-chloropropan	12.26	157	11156	10.21522	ppb	91
102) 1,2,4-Trichlorobenzene	13.08	182	32464	10.83077	ppb	88
103) Hexachlorobutadiene	13.28	225	28459	10.16958	ppb	99
104) Naphthalene	13.31	128	71832	11.07279	ppb	98
105) 1,2,3-Trichlorobenzene	13.55	145	9222	9.69107	ppb	87

(#) = qualifier out of range (m) = manual integration
 0729T21.D T0726W.M Tue Aug 13 15:54:39 2019

Data File : M:\THOR\DATA\T190726\0729T22.D
 Acq On : 29 Jul 19 18:31
 Sample : 190729B LCSD 10ug/L
 Misc : IS&S 7/6/19, 6/2/19

Vial: 22
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 30 10:22 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	463424	25.00000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	467712	25.00000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	249856	25.00000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	236358	24.12287	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.492%	
45) 1,2-DCA-D4(S)	5.05	65	262638	23.49758	ppb	0.00
Spiked Amount	25.000		Recovery	=	93.992%	
66) Toluene-D8(S)	7.32	98	793547	22.50812	ppb	0.00
Spiked Amount	25.000		Recovery	=	90.032%	
74) 4-Bromofluorobenzene(S)	9.98	95	305190	22.41953	ppb	0.00
Spiked Amount	25.000		Recovery	=	89.680%	
Target Compounds						Qvalue
2) Chlorotrifluoroethene	0.96	116	1099	0.62920	ppb	# 1
3) Dichlorodifluoromethane	0.87	87	13756	10.07237	ppb	91
4) Freon 114	0.95	85	30833	9.59333	ppb	99
5) Chloromethane	0.98	50	70454	9.44873	ppb	98
6) Vinyl chloride	1.05	62	41619	10.27963	ppb	93
8) Bromomethane	1.25	94	14558	11.62228	ppb	# 68
9) Chloroethane	1.32	64	24927	10.98244	ppb	93
10) Dichlorofluoromethane	1.47	67	58321	10.51682	ppb	93
11) Trichlorofluoromethane	1.50	101	60717	10.43550	ppb	92
13) Acrolein	1.81	55	30998	151.63260	ppb	100
14) Acetone	1.94	43	20458	14.14734	ppb	89
15) Freon-113	1.90	101	15761	10.17500	ppb	93
16) 1,1-DCE	1.88	61	50576	10.24996	ppb	95
17) 2-Propanol	1.95	45	2200	9.64438	ppb	# 1
18) Acetonitrile	2.17	41	69100	129.40163	ppb	95
19) t-Butanol	2.49	59	27936	132.18366	ppb	99
20) Methyl Acetate	2.24	43	34950	10.98906	ppb	97
21) Iodomethane	1.99	142	6777	8.68197	ppb	97
22) Acrylonitrile	2.56	52	13695	10.85718	ppb	81
23) Methylene chloride	2.31	84	39697	10.70866	ppb	96
24) Carbon disulfide	2.04	76	79108	10.27394	ppb	99
25) Methyl t-butyl ether (MtBE)	2.61	73	98840	10.41102	ppb	96
26) Trans-1,2-DCE	2.58	96	38426	11.43514	ppb	96
28) Diisopropyl Ether	3.22	45	37968	10.41469	ppb	98
30) 1,1-DCA	3.05	63	66105	10.26726	ppb	97
31) Vinyl Acetate	3.22	87	29210	10.89726	ppb	94
32) Ethyl tert Butyl Ether	3.73	59	73192	10.71186	ppb	98
33) MEK (2-Butanone)	3.94	43	7580	11.99102	ppb	95
34) Cis-1,2-DCE	3.86	61	57893	10.22876	ppb	93
35) 2,2-Dichloropropane	3.84	77	16872	9.83084	ppb	# 61
38) Chloroform	4.39	83	71995	10.59752	ppb	96
39) Bromochloromethane	4.22	128	22873	11.25861	ppb	81
41) 1,1,1-TCA	4.60	97	24552	10.83746	ppb	97
42) Cyclohexane	4.67	41	23766	9.98724	ppb	91
43) 1,1-Dichloropropene	4.85	75	47690	10.22159	ppb	94
44) 2,2,4-Trimethylpentane	5.28	57	28936	9.86473	ppb	96
46) Carbon Tetrachloride	4.83	117	44286	10.08901	ppb	94
47) Tert Amyl Methyl Ether	5.35	73	67645	10.54583	ppb	99
49) 1,2-DCA	5.15	62	59334	10.56889	ppb	96

(#) = qualifier out of range (m) = manual integration
 0729T22.D T0726W.M Tue Aug 13 15:54:41 2019

Data File : M:\THOR\DATA\T190726\0729T22.D
 Acq On : 29 Jul 19 18:31
 Sample : 190729B LCSD 10ug/L
 Misc : IS&S 7/6/19, 6/2/19

Vial: 22
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 30 10:22 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Benzene	5.11	78	148073	10.64122	ppb	99
51) TCE	5.95	95	42094	11.06780	ppb	89
52) 2-Pentanone	6.23	43	380835	139.13157	ppb	97
53) 1,2-Dichloropropane	6.19	63	19360	10.66793	ppb #	100
54) Bromodichloromethane	6.54	83	29024	10.42884	ppb	93
55) Methyl Cyclohexane	6.16	83	43660	9.72642	ppb	96
56) Dibromomethane	6.32	93	28362	10.84617	ppb	96
57) MIBK (methyl isobutyl ket	7.26	58	16424	11.11214	ppb #	79
58) 1-Bromo-2-chloroethane	6.85	63	48594	10.38556	ppb	93
59) 2-Chloroethyl vinyl ether	6.85	107	1161	19.87924	ppb #	86
60) Cis-1,3-Dichloropropene	7.05	75	33072	10.22005	ppb	97
61) Toluene	7.39	91	161528	10.56187	ppb	95
62) Trans-1,3-Dichloropropene	7.66	75	50530	10.06594	ppb	99
63) 1,1,2-TCA	7.83	83	32638	11.00605	ppb	86
64) 2-Hexanone	8.14	58	10496	12.33290	ppb	96
67) 1,2-EDB	8.30	107	40793	10.32773	ppb	98
68) Tetrachloroethene	7.95	164	50979	11.06354	ppb	97
69) 1-Chlorohexane	8.85	91	35000	9.75973	ppb	97
70) 1,1,1,2-Tetrachloroethane	8.92	131	26920	10.76898	ppb	99
71) m&p-Xylene	9.08	106	80168	21.27912	ppb	96
72) o-Xylene	9.47	106	63425	10.34025	ppb	91
73) Styrene	9.48	104	93372	10.67940	ppb	96
75) 1,3-Dichloropropane	7.99	76	40264	10.66638	ppb	100
76) Dibromochloromethane	8.21	129	27744	10.46816	ppb	100
77) Chlorobenzene	8.82	112	110993	10.43550	ppb	95
78) Ethylbenzene	8.96	91	175829	10.54045	ppb	97
79) Bromoform	9.63	173	22320	9.48827	ppb	100
81) Isopropylbenzene	9.85	105	163637	10.65776	ppb	97
82) 1,1,2,2-Tetrachloroethane	10.15	83	54043	10.88983	ppb #	93
83) 1,2,3-Trichloropropane	10.17	110	17852	9.91114	ppb	88
84) t-1,4-Dichloro-2-Butene	10.21	53	5739	9.37809	ppb	90
85) Bromobenzene	10.10	156	55372	11.15843	ppb	98
86) n-Propylbenzene	10.26	91	169208	10.47573	ppb	96
87) 4-Ethyltoluene	10.37	105	120643	10.55826	ppb	97
88) 2-Chlorotoluene	10.31	91	116422	11.16946	ppb	100
89) 1,3,5-Trimethylbenzene	10.44	105	126724	10.56982	ppb	99
90) 4-Chlorotoluene	10.42	91	128328	10.54332	ppb	98
91) Tert-Butylbenzene	10.75	119	113547	9.86386	ppb	96
92) 1,2,4-Trimethylbenzene	10.80	105	127298	10.46381	ppb	99
93) Sec-Butylbenzene	10.97	105	150916	10.74542	ppb	98
94) p-Isopropyltoluene	11.12	119	126349	10.03476	ppb	97
95) Benzyl Chloride	11.28	91	18888	7.55945	ppb	93
96) 1,3-DCB	11.04	146	89241	10.23857	ppb	97
97) 1,4-DCB	11.14	146	88595	10.20916	ppb	99
98) n-Butylbenzene	11.53	91	108301	10.74584	ppb	97
99) 1,2-DCB	11.49	146	86812	10.71834	ppb	96
100) Hexachloroethane	11.74	117	17121	11.03427	ppb #	98
101) 1,2-Dibromo-3-chloropropan	12.26	157	12415	10.73409	ppb	95
102) 1,2,4-Trichlorobenzene	13.08	182	37952	11.95791	ppb	100
103) Hexachlorobutadiene	13.27	225	26669	9.00790	ppb	97
104) Naphthalene	13.31	128	80512	11.72096	ppb	96
105) 1,2,3-Trichlorobenzene	13.55	145	9796	9.72207	ppb	87

(#) = qualifier out of range (m) = manual integration
 0729T22.D T0726W.M Tue Aug 13 15:54:41 2019

Quantitation Report

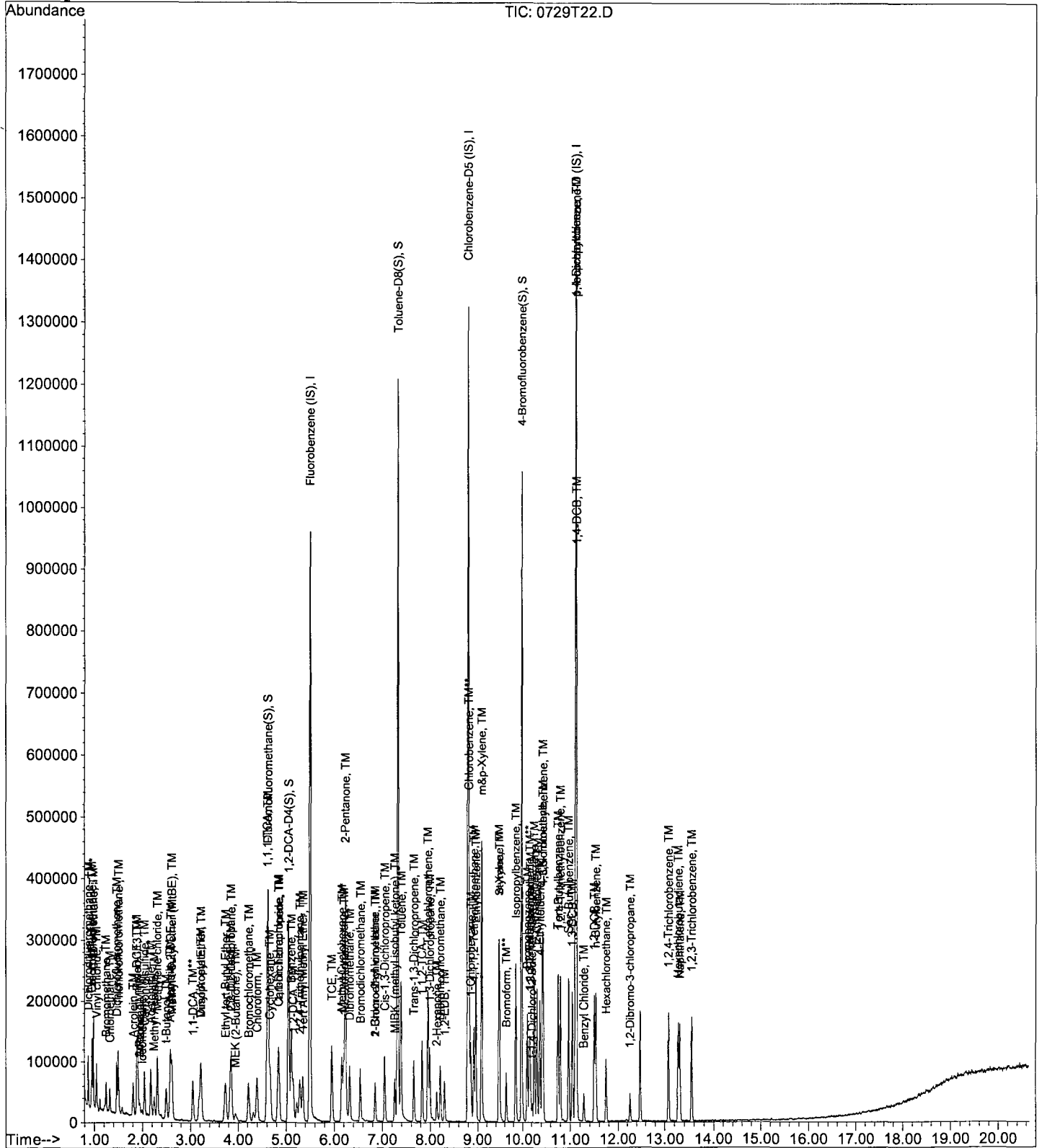
Data File : M:\THOR\DATA\T190726\0729T22.D
Acq On : 29 Jul 19 18:31
Sample : 190729B LCSD 10ug/L
Misc : IS&S 7/6/19, 6/2/19

Vial: 22
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 10:22 2019

Quant Results File: T0726W.RES

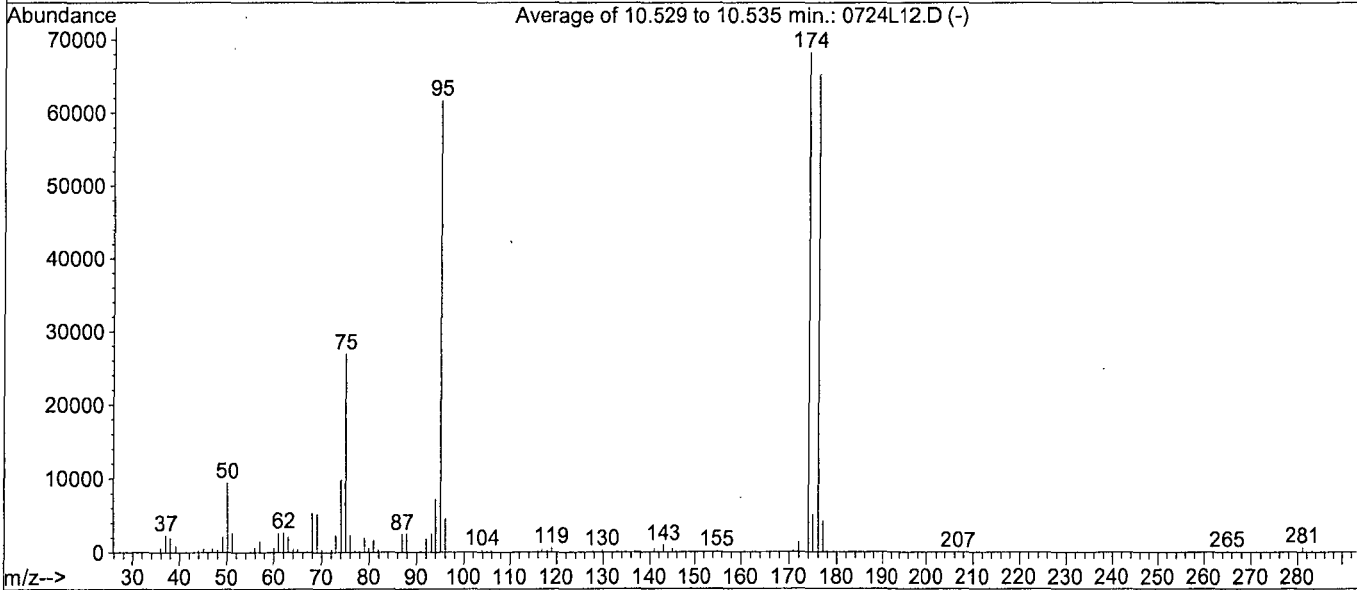
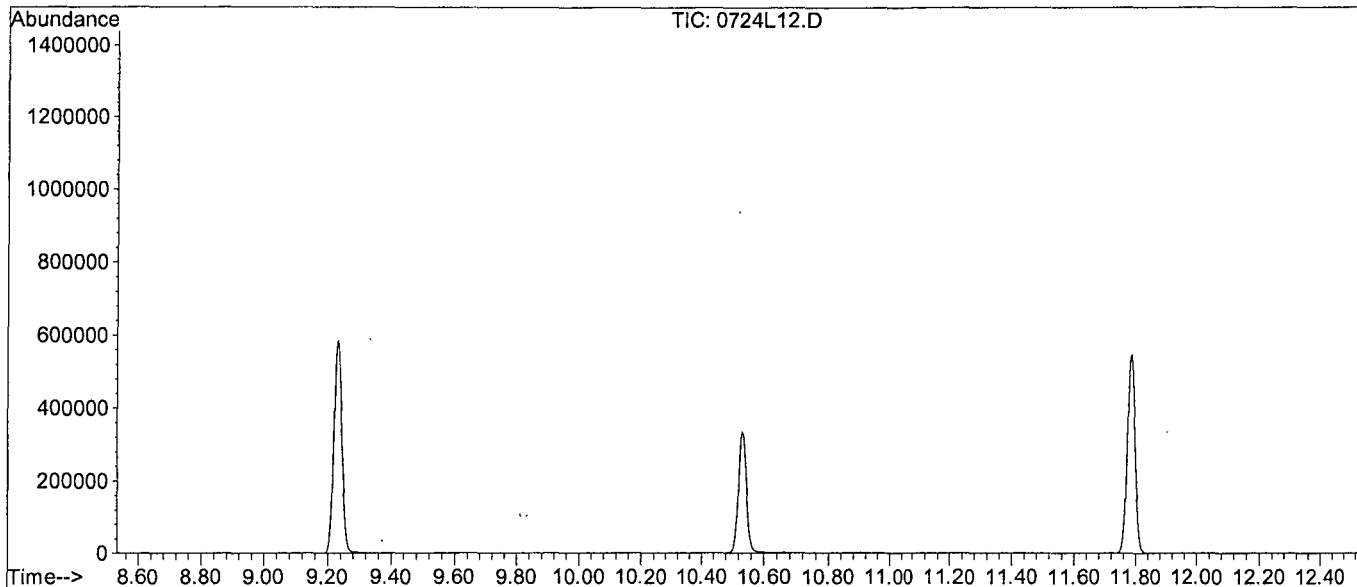
Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L12.D
 Acq On : 24 Jul 19 13:52
 Sample : 25ug/L BFB STD 7/5/19
 Misc : 2ul

Vial: 1
 Operator:
 Inst : Loki
 Multiplr: 1.00

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B



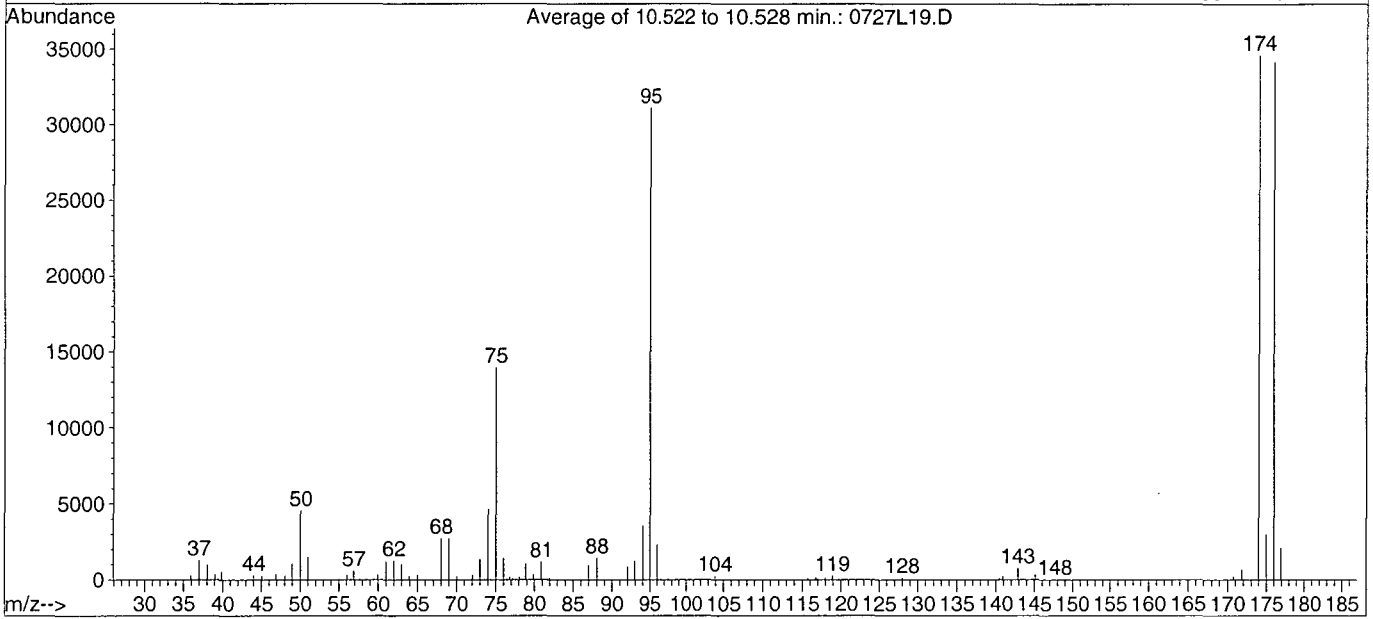
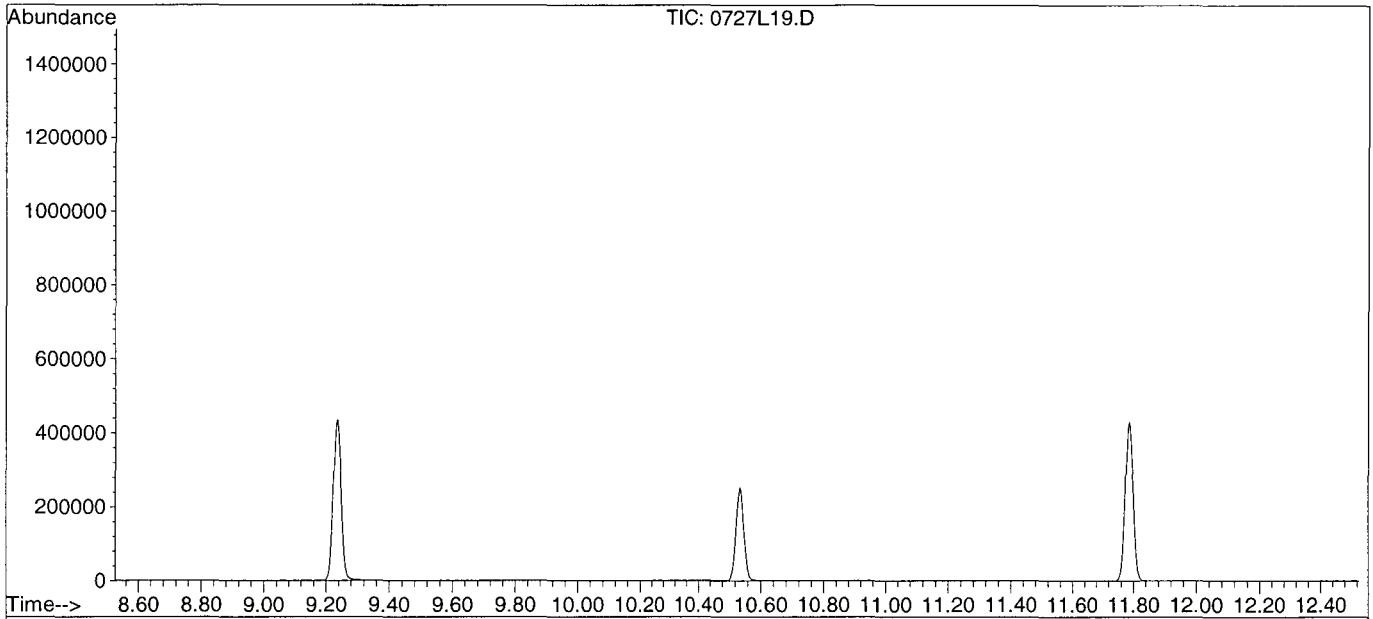
AutoFind: Scans 3091, 3092, 3093; Background Corrected with Scan 3076

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.3	9438	PASS
75	95	30	60	43.6	26904	PASS
95	95	100	100	100.0	61680	PASS
96	95	5	9	7.5	4623	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	200	110.7	68296	PASS
175	174	5	9	7.4	5033	PASS
176	174	95	101	95.5	65256	PASS
177	176	5	9	6.4	4185	PASS

Data File : M:\LOKI\DATA\190724\0727L19.D
 Acq On : 27 Jul 19 18:26
 Sample : 25ug/L BFB STD 7/5/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 19
 Operator:
 Inst : Loki
 Multiplr: 1.00

Method : M:\MAX\DATA\M190731\DIOX731Z.M (RTE Integrator)
 Title : METHOD 8260B



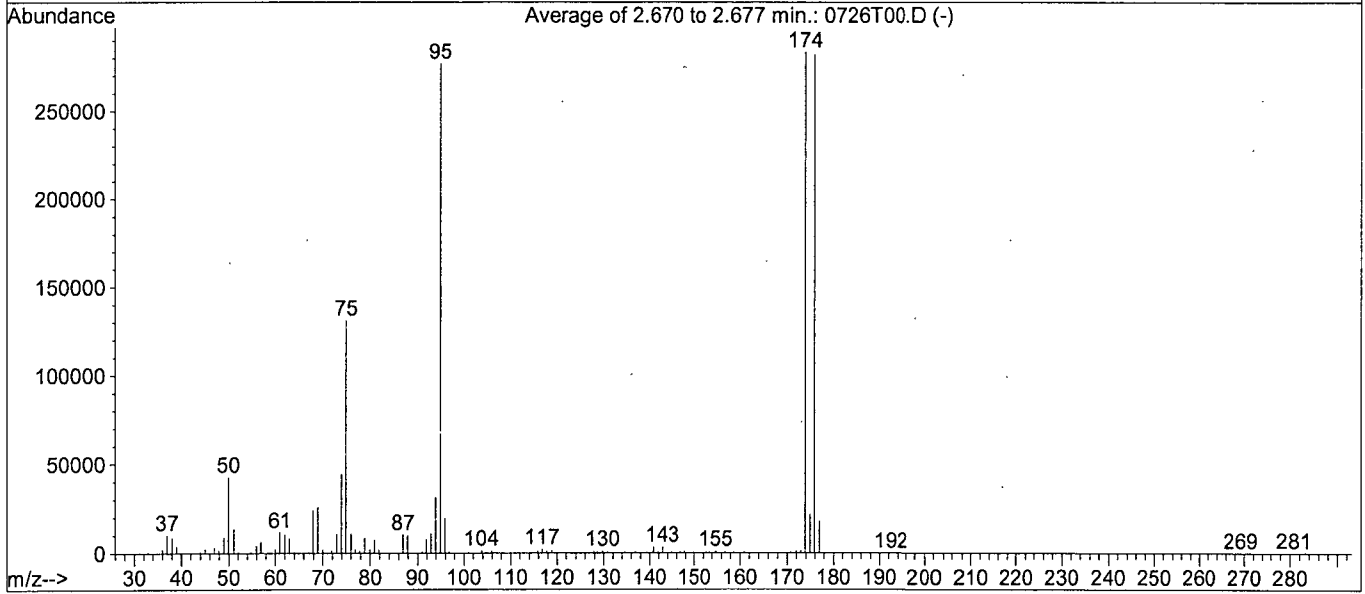
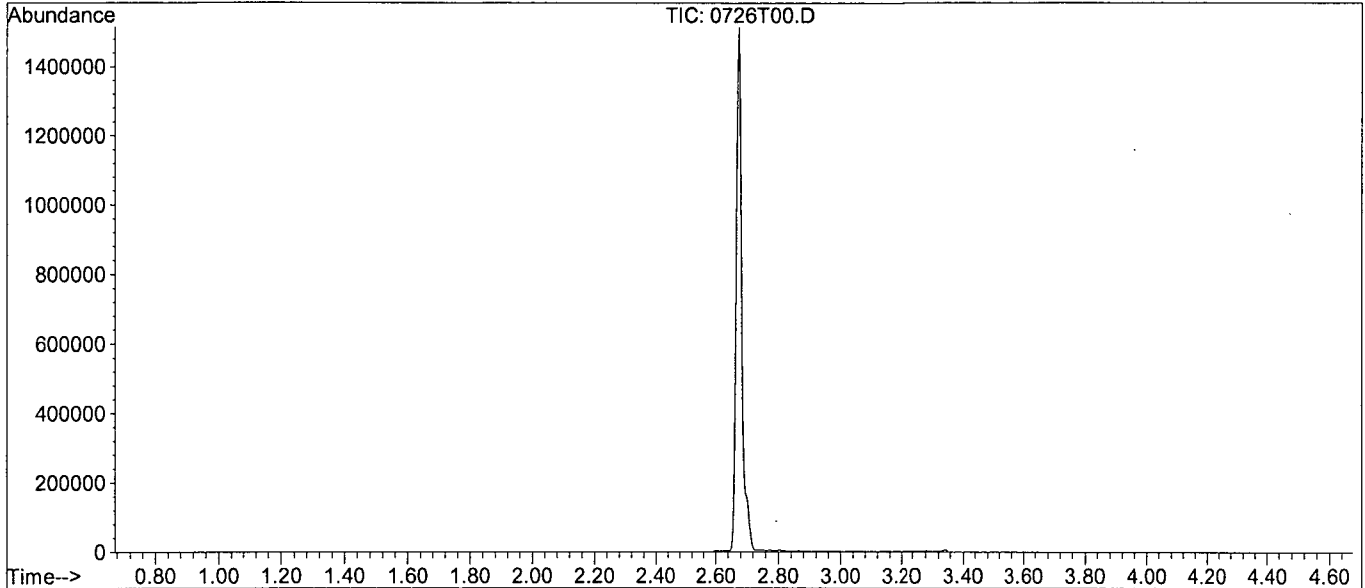
Spectrum Information: Average of 10.522 to 10.528 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	14.6	4533	PASS
75	95	30	60	44.8	13959	PASS
95	95	100	100	100.0	31136	PASS
96	95	5	9	7.4	2307	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	200	111.3	34659	PASS
175	174	5	9	8.6	2980	PASS
176	174	95	101	98.7	34208	PASS
177	176	5	9	6.1	2080	PASS

Data File : M:\THOR\DATA\T190726\0726t00.D
 Acq On : 26 Jul 19 11:50
 Sample : 25ug/mL BFB STD 7/5/19
 Misc : 2ul

Vial: 1
 Operator:
 Inst : Thor
 Multiplr: 1.00

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B



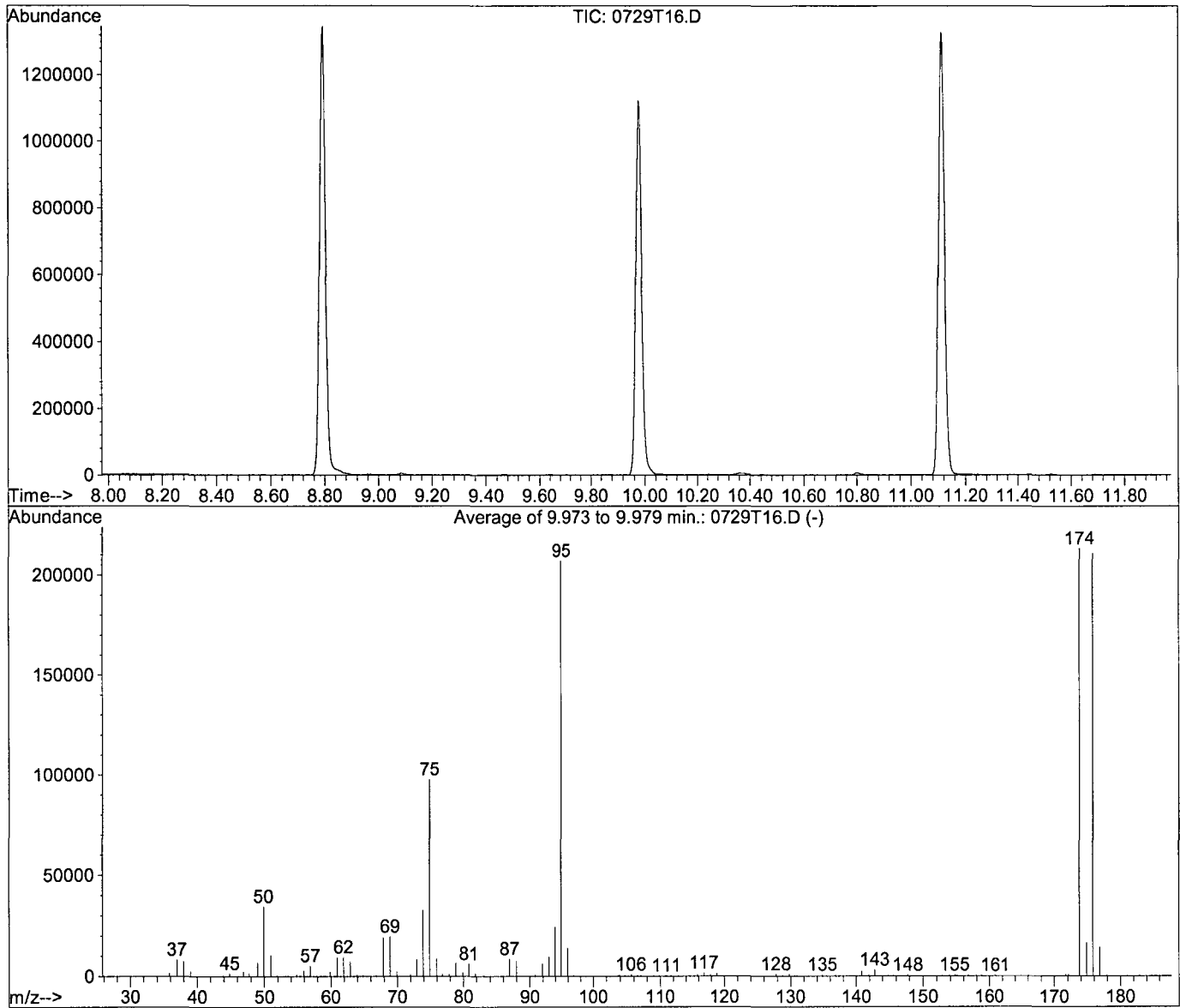
Spectrum Information: Average of 2.670 to 2.677 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.4	42589	PASS
75	95	30	60	47.4	131179	PASS
95	95	100	100	100.0	276885	PASS
96	95	5	9	7.1	19557	PASS
173	174	0.00	2	0.4	1126	PASS
174	95	50	200	102.3	283371	PASS
175	174	5	9	7.6	21579	PASS
176	174	95	101	99.4	281771	PASS
177	176	5	9	6.2	17573	PASS

Data File : M:\THOR\DATA\T190726\0729T16.D
 Acq On : 29 Jul 19 15:42
 Sample : 25ug/mL BFB STD 7/5/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 16
 Operator:
 Inst : Thor
 Multiplr: 1.00

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B



AutoFind: Scans 2856, 2857, 2858; Background Corrected with Scan 2843

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.6	34347	PASS
75	95	30	60	47.2	97707	PASS
95	95	100	100	100.0	206912	PASS
96	95	5	9	6.7	13814	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	200	103.0	213077	PASS
175	174	5	9	7.6	16268	PASS
176	174	95	101	98.9	210752	PASS
177	176	5	9	6.7	14143	PASS

Loki 8260 Standard Prep

Loki 8260 Water Calibration Curve										
						Prepared By (Initials): <u>CMM</u>				
<u>0.3ug/L</u>										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	0.3ug/L	5	Prepared 07/24/19	09/22/19	N/A	3uL	50mL	P&T Water	0.3
VOA STD. 10	O2SI		5	Prepared 07/24/19	09/22/19	N/A	3uL			0.3
VOA STD. 12	O2SI		5	Prepared 07/24/19	09/22/19	N/A	3uL			0.3
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	2uL			10
<u>0.5ug/L</u>										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	0.5ug/L	5	Prepared 07/24/19	09/22/19	N/A	5uL	50mL	P&T Water	0.5
VOA STD. 10	O2SI		5	Prepared 07/24/19	09/22/19	N/A	5uL			0.5
VOA STD. 12	O2SI		5	Prepared 07/24/19	09/22/19	N/A	5uL			0.5
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	5uL			25
<u>1.0ug/L</u>										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	1.0ug/L	5	Prepared 07/24/19	09/22/19	N/A	10uL	50mL	P&T Water	1
VOA STD. 10	O2SI		5	Prepared 07/24/19	09/22/19	N/A	10uL			1
VOA STD. 12	O2SI		5	Prepared 07/24/19	09/22/19	N/A	10uL			1
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	10uL			50
<u>2.0ug/L</u>										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	2.0ug/L	5	Prepared 07/24/19	09/22/19	N/A	20uL	50mL	P&T Water	2
VOA STD. 10	O2SI		5	Prepared 07/24/19	09/22/19	N/A	20uL			2
VOA STD. 12	O2SI		5	Prepared 07/24/19	09/22/19	N/A	20uL			2
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	15uL			75
<u>5ug/L</u>										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	5ug/L	50	Prepared 07/24/19	09/22/19	N/A	5uL	50mL	P&T Water	5
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	5uL			5
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	5uL			5
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	5uL			5
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	20uL			100
<u>10ug/L</u>										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	10ug/L	50	Prepared 07/24/19	09/22/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	10uL			10
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	25uL			125

7/17/19 *

* Entry Error. Wrong date
8/17/19

20ug/L
 Prepared: 07/24/19
 Expires: 08/23/19

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	20ug/L	50	Prepared 07/24/19	09/22/19	N/A	20uL	50mL	P&T Water	20
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	20uL			20
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	20uL			20
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	20uL			20
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	30uL			150

40ug/L
 Prepared: 07/24/19
 Expires: 08/23/19

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	40ug/L	50	Prepared 07/24/19	09/22/19	N/A	40uL	50mL	P&T Water	40
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	40uL			40
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	40uL			40
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	40uL			40
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	35uL			175

100ug/L
 Prepared: 07/24/19
 Expires: 08/23/19

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	100ug/L	50	Prepared 07/24/19	09/22/19	N/A	100uL	50mL	P&T Water	100
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	100uL			100
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	100uL			100
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	100uL			100
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	40uL			200

Loki 8260 Water Second Source (SS)
 Prepared: 07/24/19
 Expires: 08/23/19

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 4	Phenova	8260 Water SS	50	Prepared 07/24/19	09/22/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 5	O2SI	8260 Water SS	50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. 6	Various	8260 Water SS	50	Prepared 07/24/19	07/17/19	N/A	10uL			10
VOA STD. TBA	Various	8260 Water SS	250	Prepared 07/24/19	07/17/19	N/A	25uL			250

8260 Water Continuing Calibrations (CCV)/ Lab Control Spikes (LCS)
 Prepared: 07/24/19
 Expires: 07/25/19

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	CCV/ LCS	50	Prepared 07/24/19	09/22/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova	CCV/ LCS	50	Prepared 07/24/19	07/31/19	N/A	10uL			10
VOA STD. 1	O2SI	CCV/ LCS	50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. 2	O2SI	CCV/ LCS	50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. TBA	Various	CCV/ LCS	250	Prepared 07/24/19	07/31/19	N/A	25uL			125

LCS (X4 Ketones)
 Prepared: 07/24/19
 Expires: 07/25/19

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	LCS X4 Ketones	50	Prepared 07/24/19	09/22/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova	LCS X4 Ketones	50	Prepared 07/24/19	07/31/19	N/A	10uL			10
VOA STD. 1	O2SI	LCS X4 Ketones	50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. 2	O2SI	LCS X4 Ketones	50	Prepared 07/24/19	09/22/19	N/A	40uL			40
VOA STD. TBA	Various	LCS X4 Ketones	250	Prepared 07/24/19	07/31/19	N/A	25uL			125

Entry error, wrong date 8/17/19

Loki 8260 Water Surrogate										
Prepared: 08/08/19						Prepared By (Initials): <u>DG</u>				
Expires: 04/04/20										
Methanol Lot No: 58243										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
8260 Surrogate Solution	O2SI	120002-01	2,000	348756-39341	04/04/20	02/10/22	375uL	15mL	Methanol	50
Loki 8260 Water Internal Standard										
Prepared: 08/09/19						Prepared By (Initials): <u>DG</u>				
Expires: 08/06/20										
Methanol Lot No: 58243										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Internal Standard Solution	Phenova	ALO-101215	2,500	CL12444-40615	08/06/20	04/30/23	300uL	15mL	Methanol	50

Primary and Secondary Working Standards

Primary Standards											
VOA STD 7											
Prepared: 07/17/19 C											
Expires: 09/15/19											
Prepared By (Initials): CMM											
Methanol Lot No. 58019-00962											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
VOA Gasses STD	Phenova	ALO-101206	2,000	CL12965-408901	07/09/20	11/30/23	100uL	4mL	Methanol	50	
Hexachloroethane	Absolute	70199	1,000	091818-40719	07/09/20	09/18/23	200uL			50	
Benzyl Chloride	Absolute	70037	1,000	021119-40680	07/09/20	02/11/20	200uL			50	
VOA STD 8											
Prepared: 07/17/19 D											
Expires: 07/31/19											
Prepared By (Initials): CMM											
Methanol Lot No. 58019-00962											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
VOA Additions STD	Phenova	ALO-130175	2,000	CL12744-40591	07/09/20	08/31/20	100uL	4mL	Methanol	50	
502.2 Cal. Std.	Phenova	ALO-101200	2,000	CL12489-40595	07/09/20	05/31/23	100uL			50	
Vinyl Acetate	Phenova	ALO-101228	2,000	CL13816-41081	07/09/20	07/31/19	100uL			50	
VOA STD TBA											
Prepared: 07/17/19 E											
Expires: 07/31/19											
Prepared By (Initials): CMM											
Methanol Lot No. 58019-00962											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
Custom VOC Mix	Phenova	ALO-130176	2,000	CL12929-41066	07/17/20	11/30/20	500uL	4mL	Methanol	250	
Acrolein	Phenova	ALO-130549	10,000	CL13820-41082	07/09/20	07/31/19	100uL			250	
VOA STD 1											
Prepared: 07/17/19 F											
Expires: 09/15/19											
Prepared By (Initials): CMM											
Methanol Lot No. 58019-00962											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
2-CEVE	Absolute	071018-40341	2,000	071018-40713	07/05/20	07/10/21	50	2mL	Methanol	50	
VOA STD 2											
Prepared: 07/17/19 G											
Expires: 09/15/19											
Prepared By (Initials): CMM											
Methanol Lot No. 58019-00962											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
Ketones Std.	Phenova	ALO-109211	2,000	CL12729-40181	07/09/20	08/31/28	100	4mL	Methanol	50	
VOA STD 9											
Prepared: 07/17/19 H											
Expires: 09/15/19											
Prepared By (Initials): CMM											
Methanol Lot No. 58019-00962											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
VOA STD. 7		VOA STD. 9	50	Prepared 07/17/19	05/21/20	N/A	200uL	2mL	Methanol	5	
VOA STD. 8			50	Prepared 07/17/19	05/21/20	N/A	200uL			5	
VOA STD. 10											
Prepared: 07/17/19 I											
Expires: 09/15/19											
Prepared By (Initials): CMM											
Methanol Lot No. 58019-00962											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
VOA STD. 1		VOA STD. 10	50	Prepared 07/17/19	05/21/20	N/A	200uL	2mL	Methanol	5	
VOA STD. 12											
Prepared: 07/17/19 J											
Expires: 09/15/19											
Prepared By (Initials): CMM											
Methanol Lot No. 58019-00962											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
VOA STD. 2		VOA STD. 12	50	Prepared 07/17/19	05/21/20	N/A	200uL	2mL	Methanol	5	

Second Source (SS) Standards										
VOA STD. 3										
Prepared: 07/17/19 K										
Expires: 09/15/19										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Ketones Standard	Phenova	ALO-101211	2,000	CL12730-40609	07/09/20	08/31/28	50uL	2mL	Methanol	50
VOA STD. 5										
Prepared: 07/17/19 L										
Expires: 09/15/19										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
8260 Gases (SS)	Phenova	ALO-101206	2,000	CL12966-40911	07/09/20	11/30/23	50uL	2mL	Methanol	50
2-CEVE (SS)	Absolute	82408	2,000	071018-40965	0709/2020	07/10/21	50uL			50
VOA STD. 6										
Prepared: 07/17/19 M										
Expires: 07/17/19										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
502.2 Calibration STD. (54-compounds)	Phenova	ALO-101200	2,000	CL12490-40917	07/09/20	05/31/23	50uL	2mL	Methanol	50
Vinyl Acetate	Phenova	ALO-101228	2,000	CL13739-40986	06/25/20	07/17/19	50uL			50
Hexachloroethane	Accustan	AS-E0011	1,000	218051281-40737	07/09/20	05/14/28	100uL			50
Benzyl Chloride	Accustan	M-8010-01	200	219041664-40952	07/09/20	05/22/21	500uL			50
VOA STD. TBA										
Prepared: 07/17/19 N										
Expires: 07/17/19										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Custom VOA Mix (4-3)	Phenova	ALO-130176	2,000	CL12542-39863	07/17/20	05/31/20	250uL	2mL	Methanol	250
Acrolein	Phenova	ALO-101224	10,000	CL13741-40987	06/25/20	07/17/19	50uL			250
VOA STD. 0										
Prepared: 07/17/19 O										
Expires: 07/09/19										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Addition STD.	Phenova	ALO-130175	2,000	CL12744-40994	07/09/19	08/31/20	50uL	2mL	Methanol	50
BFB Tune										
Prepared: 07/05/19										
Expires: 01/19/21										
Methanol Lot No. 58019-00958										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
4-Bromofluorobenzene	O2SI	020135-03	2,500	342387-39073	04/19/20	01/19/21	20uL	2mL	Methanol	25

Thor 8260 Standard Prep

Thor 8260 Water Calibration Curve										
0.3ug/L						Prepared By (Initials): CMM				
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	0.3ug/L	5	Prepared 07/26/19	09/24/19	N/A	3uL	50mL	P&T Water	0.3
VOA STD. 10	O2SI		5	Prepared 07/26/19	09/24/19	N/A	3uL			0.3
VOA STD. 12	O2SI		5	Prepared 07/26/19	09/24/19	N/A	3uL			0.3
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	2uL			10
0.5ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	0.5ug/L	5	Prepared 07/26/19	09/24/19	N/A	5uL	50mL	P&T Water	0.5
VOA STD. 10	O2SI		5	Prepared 07/26/19	09/24/19	N/A	5uL			0.5
VOA STD. 12	O2SI		5	Prepared 07/26/19	09/24/19	N/A	5uL			0.5
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	5uL			25
1.0ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	1.0ug/L	5	Prepared 07/26/19	09/24/19	N/A	10uL	50mL	P&T Water	1
VOA STD. 10	O2SI		5	Prepared 07/26/19	09/24/19	N/A	10uL			1
VOA STD. 12	O2SI		5	Prepared 07/26/19	09/24/19	N/A	10uL			1
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	10uL			50
2.0ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	2.0ug/L	5	Prepared 07/26/19	09/24/19	N/A	20uL	50mL	P&T Water	2
VOA STD. 10	O2SI		5	Prepared 07/26/19	09/24/19	N/A	20uL			2
VOA STD. 12	O2SI		5	Prepared 07/26/19	09/24/19	N/A	20uL			2
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	15uL			75
5ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	5ug/L	50	Prepared 07/26/19	09/24/19	N/A	5uL	50mL	P&T Water	5
VOA STD. 8	Phenova		50	Prepared 07/26/19	07/31/19	N/A	5uL			5
VOA STD. 1	O2SI		50	Prepared 07/26/19	09/24/19	N/A	5uL			5
VOA STD. 2	O2SI		50	Prepared 07/26/19	09/24/19	N/A	5uL			5
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	20uL			100
10ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	10ug/L	50	Prepared 07/26/19	09/24/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova		50	Prepared 07/26/19	07/31/19	N/A	10uL			10
VOA STD. 1	O2SI		50	Prepared 07/26/19	09/24/19	N/A	10uL			10
VOA STD. 2	O2SI		50	Prepared 07/26/19	09/24/19	N/A	10uL			10
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	25uL			125

20ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	20ug/L	50	Prepared 07/26/19	09/24/19	N/A	20uL	50mL	P&T Water	20
VOA STD. 8	Phenova		50	Prepared 07/26/19	07/31/19	N/A	20uL			20
VOA STD. 1	O2SI		50	Prepared 07/26/19	09/24/19	N/A	20uL			20
VOA STD. 2	O2SI		50	Prepared 07/26/19	09/24/19	N/A	20uL			20
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	30uL			150
40ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	40ug/L	50	Prepared 07/26/19	09/24/19	N/A	40uL	50mL	P&T Water	40
VOA STD. 8	Phenova		50	Prepared 07/26/19	07/31/19	N/A	40uL			40
VOA STD. 1	O2SI		50	Prepared 07/26/19	09/24/19	N/A	40uL			40
VOA STD. 2	O2SI		50	Prepared 07/26/19	09/24/19	N/A	40uL			40
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	35uL			175
100ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	100ug/L	50	Prepared 07/26/19	09/24/19	N/A	100uL	50mL	P&T Water	100
VOA STD. 8	Phenova		50	Prepared 07/26/19	07/31/19	N/A	100uL			100
VOA STD. 1	O2SI		50	Prepared 07/26/19	09/24/19	N/A	100uL			100
VOA STD. 2	O2SI		50	Prepared 07/26/19	09/24/19	N/A	100uL			100
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	40uL			200
Thor 8260 Water Second Source (SS)										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 4	Phenova	8260 Water SS	50	Prepared 07/26/19	09/24/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 5	O2SI	8260 Water SS	50	Prepared 07/26/19	09/24/19	N/A	10uL			10
VOA STD. 6	Various	8260 Water SS	50	Prepared 07/26/19	07/17/19	N/A	10uL			10
VOA STD. TBA	Various	8260 Water SS	250	Prepared 07/26/19	07/17/19	N/A	25uL			250
VOA STD. 7	Various	8260 Water SS	50	Prepared 07/26/19	09/24/19	N/A	10uL			10
8260 Water Continuing Calibrations (CCV)/ Lab Control Spikes (LCS)										
Prepared: 07/26/19										
Expires: 07/27/19										
Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	CCV/ LCS	50	Prepared 07/26/19	09/24/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova	CCV/ LCS	50	Prepared 07/26/19	07/31/19	N/A	10uL			10
VOA STD. 1	O2SI	CCV/ LCS	50	Prepared 07/26/19	09/24/19	N/A	10uL			10
VOA STD. 2	O2SI	CCV/ LCS	50	Prepared 07/26/19	09/24/19	N/A	10uL			10
VOA STD. TBA	Various	CCV/ LCS	250	Prepared 07/26/19	07/31/19	N/A	25uL			125
LCS (X4 Ketones)										
Prepared: 07/26/19										
Expires: 07/27/19										
Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	LCS X4 Ketones	50	Prepared 07/26/19	09/24/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova	LCS X4 Ketones	50	Prepared 07/26/19	07/31/19	N/A	10uL			10
VOA STD. 1	O2SI	LCS X4 Ketones	50	Prepared 07/26/19	09/24/19	N/A	10uL			10
VOA STD. 2	O2SI	LCS X4 Ketones	50	Prepared 07/26/19	09/24/19	N/A	40uL			40
VOA STD. TBA	Various	LCS X4 Ketones	250	Prepared 07/26/19	07/31/19	N/A	25uL			125

Primary and Secondary Working Standards

Primary Standards										
VOA STD 7										
Prepared: 07/26/19 G										
Expires: 09/24/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): CMM										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Gasses STD	Phenova	ALO-101206	2,000	CL12965-40902	07/26/20	11/30/23	100uL	4mL	Methanol	50
Hexachloroethane	Absolute	70199	1,000	091818-41092	07/26/20	09/18/23	200uL			50
Benzyl Chloride	Absolute	70037	1,000	061919-41087	07/26/20	06/19/20	200uL			50
VOA STD 8										
Prepared: 07/26/19 H										
Expires: 07/31/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): CMM										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Additions STD	Phenova	ALO-130175	2,000	CL12744-40591	07/09/20	08/31/20	100uL	4mL	Methanol	50
502.2 Cal. Std.	Phenova	ALO-101200	2,000	CL12489-40595	07/09/20	05/31/23	100uL			50
Vinyl Acetate	Phenova	ALO-101228	2,000	CL13816-41081	07/09/20	07/31/19	100uL			50
VOA STD TBA										
Prepared: 07/26/19 I										
Expires: 07/31/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): CMM										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Custom VOC Mix	Phenova	ALO-130176	2,000	CL12929-41066	07/17/20	11/30/20	500uL	4mL	Methanol	250
Acrolein	Phenova	ALO-130549	10,000	CL13820-41082	07/09/20	07/31/19	100uL			250
VOA STD 1										
Prepared: 07/26/19 J										
Expires: 09/24/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): CMM										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
2-CEVE	Absolute	071018-40341	2,000	071018-40713	07/05/20	07/10/21	50	2mL	Methanol	50
VOA STD 2										
Prepared: 07/26/19 K										
Expires: 09/24/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): CMM										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Ketones Std.	Phenova	ALO-109211	2,000	CL12729-40181	07/09/20	08/31/28	100	4mL	Methanol	50
VOA STD 9										
Prepared: 07/26/19 L										
Expires: 09/24/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): CMM										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA STD. 7		VOA STD. 9	50	Prepared 07/26/19	05/21/20	N/A	200uL	2mL	Methanol	5
VOA STD. 8			50	Prepared 07/26/19	05/21/20	N/A	200uL			5
VOA STD. 10										
Prepared: 07/26/19 M										
Expires: 09/24/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): CMM										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA STD. 1		VOA STD. 10	50	Prepared 07/26/19	05/21/20	N/A	200uL	2mL	Methanol	5
VOA STD. 12										
Prepared: 07/26/19 N										
Expires: 09/24/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): CMM										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA STD. 2		VOA STD. 12	50	Prepared 07/26/19	05/21/20	N/A	200uL	2mL	Methanol	5

Second Source (SS) Standards										
VOA STD. 3										
Prepared: 07/26/19 O										
Expires: 09/24/19										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Ketones Standard	Phenova	ALO-101211	2,000	CL12730-40609	07/09/20	08/31/28	50uL	2mL	Methanol	50
VOA STD. 5										
Prepared: 07/26/19 P										
Expires: 09/24/19										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
8260 Gases (SS)	Phenova	ALO-101206	2,000	CL12966-40912	06/26/20	11/30/23	50uL	2mL	Methanol	50
2-CEVE (SS)	Absolute	82408	2,000	071018-40965	0709/2020	07/10/21	50uL			50
VOA STD. 6										
Prepared: 07/26/19 Q										
Expires: 07/17/19										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
502.2 Calibration STD. (54-compounds)	Phenova	ALO-101200	2,000	CL12490-40917	07/09/20	05/31/23	50uL	2mL	Methanol	50
Vinyl Acetate	Phenova	ALO-101228	2,000	CL13739-40986	06/25/20	07/17/19	50uL			50
Hexachloroethane	Accustan	AS-E0011	1,000	219061767-41116	07/26/20	06/28/29	100uL			50
Benzyl Chloride	Accustan	M-8010-01	200	219041664	07/26/20	05/22/21	500uL			50
VOA STD. TBA										
Prepared: 07/26/19 R										
Expires: 07/17/19										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Custom VOA Mix (4-3)	Phenova	ALO-130176	2,000	CL12542-39863	07/17/20	05/31/20	250uL	2mL	Methanol	250
Acrolein	Phenova	ALO-101224	10,000	CL13741-40987	06/25/20	07/17/19	50uL			250
VOA STD. 0										
Prepared: 07/26/19 S										
Expires: 07/09/19										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Addition STD.	Phenova	ALO-130175	2,000	CL12744-40994	07/09/19	08/31/20	50uL	2mL	Methanol	50
BFB Tune										
Prepared: 07/24/19										
Expires: 01/19/21										
Methanol Lot No. 58019-00958										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
4-Bromofluorobenzene	O2SI	020135-03	2,500	342387-39071	07/24/20	01/19/21	20uL	2mL	Methanol	25

Injection Log

Directory: M:\LOKI\DATA\190724\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	0724L12.D	1	25ug/L BFB STD 7/5/19	2ul	24 Jul 19 13:52
4	0724L15.D	1	0.3ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 15:18
5	0724L16.D	1	0.5ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 15:47
6	0724L17.D	1	1.0ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 16:16
7	0724L18.D	1	2.0ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 16:45
8	0724L19.D	1	5.0ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 17:14
9	0724L20.D	1	10ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 17:42
10	0724L21.D	1	20ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 18:11
11	0724L22.D	1	40ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 18:40
12	0724L23.D	1	100ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 19:09
15	0724L26.D	1	SS 10ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 20:36
16	0724L27.D	1	SS 30ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 21:04
19	0727L19.D	1	25ug/L BFB STD 7/5/19	IS&S 7/15/19,6/5/19	27 Jul 19 18:26
20	0727L20.D	1	190727B CCV 10ug/L	IS&S 7/15/19,6/5/19	27 Jul 19 18:55
21	0727L21.D	1	190727B LCS 10ug/L	IS&S 7/15/19,6/5/19	27 Jul 19 19:24
22	0727L22.D	1	190727B LCSD 10ug/L	IS&S 7/15/19,6/5/19	27 Jul 19 19:53
26	0727L26.D	1	190727B BLK	IS&S 7/15/19,6/5/19	27 Jul 19 21:48
32	0727L32.D	1	AZ95328W01	IS&S 7/15/19,6/5/19	28 Jul 19 00:40
33	0727L33.D	1	AZ95329W01	IS&S 7/15/19,6/5/19	28 Jul 19 1:09
40	0727L40.D	1	Ending CCV 10ug/L 07/27/19	IS&S 7/15/19,6/5/19	28 Jul 19 4:31

Injection Log

Directory: M:\THOR\DATA\T190726\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0726T00.D	1	25ug/mL BFB STD 7/5/19	2ul	26 Jul 19 11:50
2	4	0726T04.D	1	0.3ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 13:35
3	5	0726T05.D	1	0.5ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 14:03
4	6	0726T06.D	1	1.0ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 14:31
5	7	0726T07.D	1	2.0ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 14:59
6	8	0726T08.D	1	5.0ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 15:27
7	9	0726T09.D	1	10ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 15:55
8	10	0726T10.D	1	20ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 16:24
9	12	0726T12.D	1	100ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 17:20
10	16	0726T16.D	1	SS 10ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 19:13
11	16	0729T16.D	1	25ug/mL BFB STD 7/5/19	IS&S 7/6/19, 6/2/19	29 Jul 19 15:42
12	21	0729T21.D	1	190729B CCV/LCS 10ug/L	IS&S 7/6/19, 6/2/19	29 Jul 19 18:03
13	22	0729T22.D	1	190729B LCSD 10ug/L	IS&S 7/6/19, 6/2/19	29 Jul 19 18:31
14	26	0729T26.D	1	190729B BLK	IS&S 7/6/19, 6/2/19	29 Jul 19 20:24
15	27	0729T27.D	1	AZ95330W02	IS&S 7/6/19, 6/2/19	29 Jul 19 20:52
16	28	0729T28.D	1	AZ95331W01	IS&S 7/6/19, 6/2/19	29 Jul 19 21:20
17	29	0729T29.D	1	AZ95332W01	IS&S 7/6/19, 6/2/19	29 Jul 19 21:48
18	30	0729T30.D	1	AZ95333W01	IS&S 7/6/19, 6/2/19	29 Jul 19 22:16
19	31	0729T31.D	1	AZ95334W01	IS&S 7/6/19, 6/2/19	29 Jul 19 22:44
20	32	0729T32.D	1	AZ95335W01	IS&S 7/6/19, 6/2/19	29 Jul 19 23:12
21	33	0729T33.D	1	AZ95336W01	IS&S 7/6/19, 6/2/19	29 Jul 19 23:40
22	34	0729T34.D	1	AZ95337W01	IS&S 7/6/19, 6/2/19	30 Jul 19 00:08
23	35	0729T35.D	1	AZ95338W01	IS&S 7/6/19, 6/2/19	30 Jul 19 00:37
24	42	0729T42.D	1	Ending CCV 10ug/L 7/29/19	IS&S 7/6/19, 6/2/19	30 Jul 19 3:53

ORGANICS
Calibration Data

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 7/17/2019
Instrument: Loki

Initials: _____

0716L27.D 0716L28.D 0716L29.D 0716L30.D 0716L31.D 0716L32.D 0716L33.D

	Compound	1	2	3	4	5	6	7				Avg	%RSD	Type	r ²	Q	MRF
1	I Fluorobenzene (IS)																
2	TMHBL Gasoline C6-C10	12.2	4.688	2.469	1.121	0.7447	0.6371	0.6283				3.2	132	TMHBL	0.991		
3	I Chlorobenzene-D5 (IS)																
4	I 1,4-Dichlorobenzene-D (IS)																
5																	
6																	
7																	
8																	
9																	
10																	
11																	
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34																	
35																	

Data File : M:\LOKI\DATA\190715\0716L27.D
 Acq On : 16 Jul 19 23:53
 Sample : 20ug/L GAS STD 7/16/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 26
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 17 12:32 2019

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 09 11:47:35 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	480409	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	608530	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	581955	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	4690828m	69.01124	ppb	100

Quantitation Report

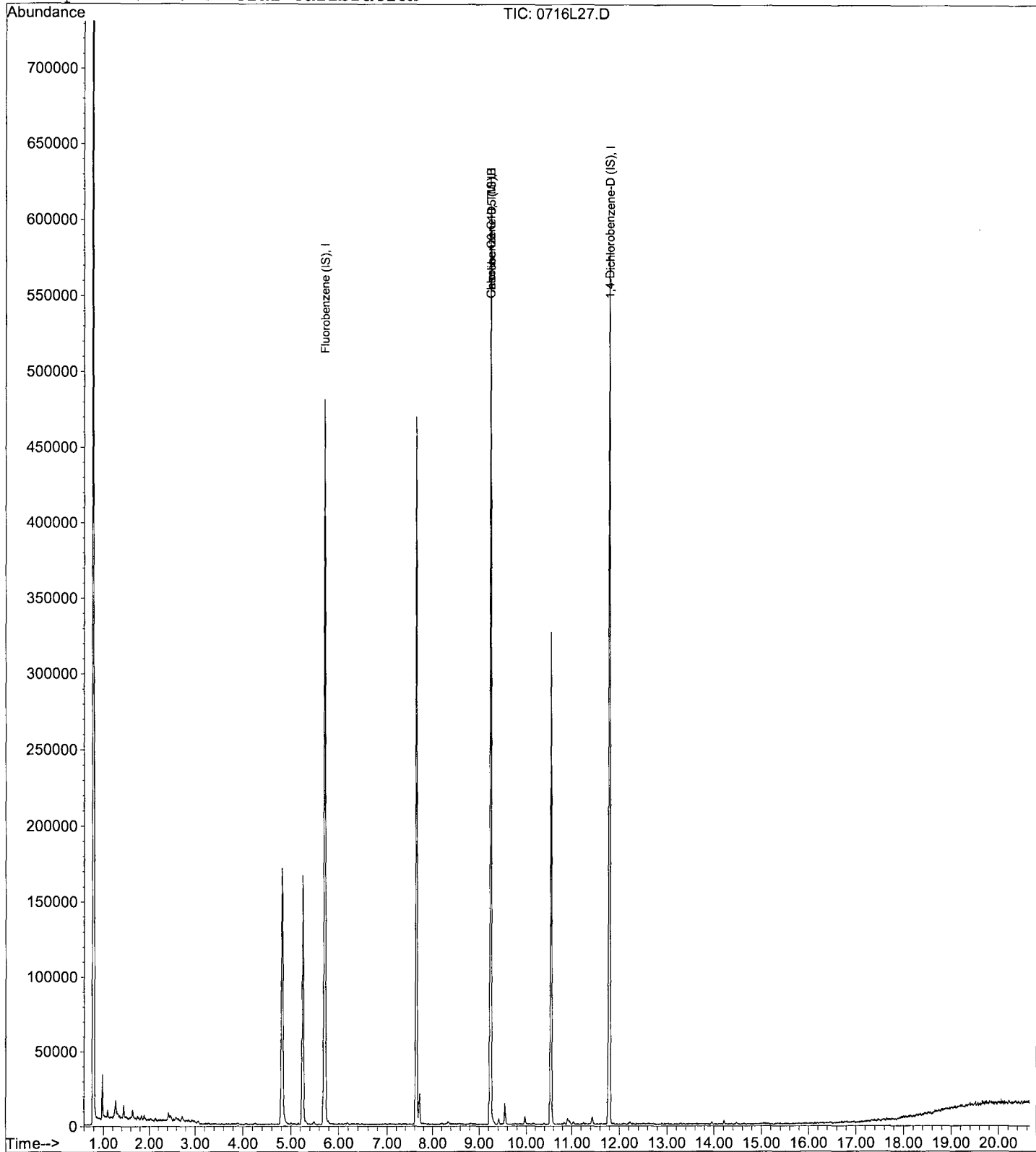
Data File : M:\LOKI\DATA\190715\0716L27.D
Acq On : 16 Jul 19 23:53
Sample : 20ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 26
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:32 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190715\0716L28.D
 Acq On : 17 Jul 19 00:22
 Sample : 50ug/L GAS STD 7/16/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 27
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 17 12:31 2019

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 09 11:47:35 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	594203	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	758986	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	708955	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	5571696m	40.60449	ppb	100

Quantitation Report

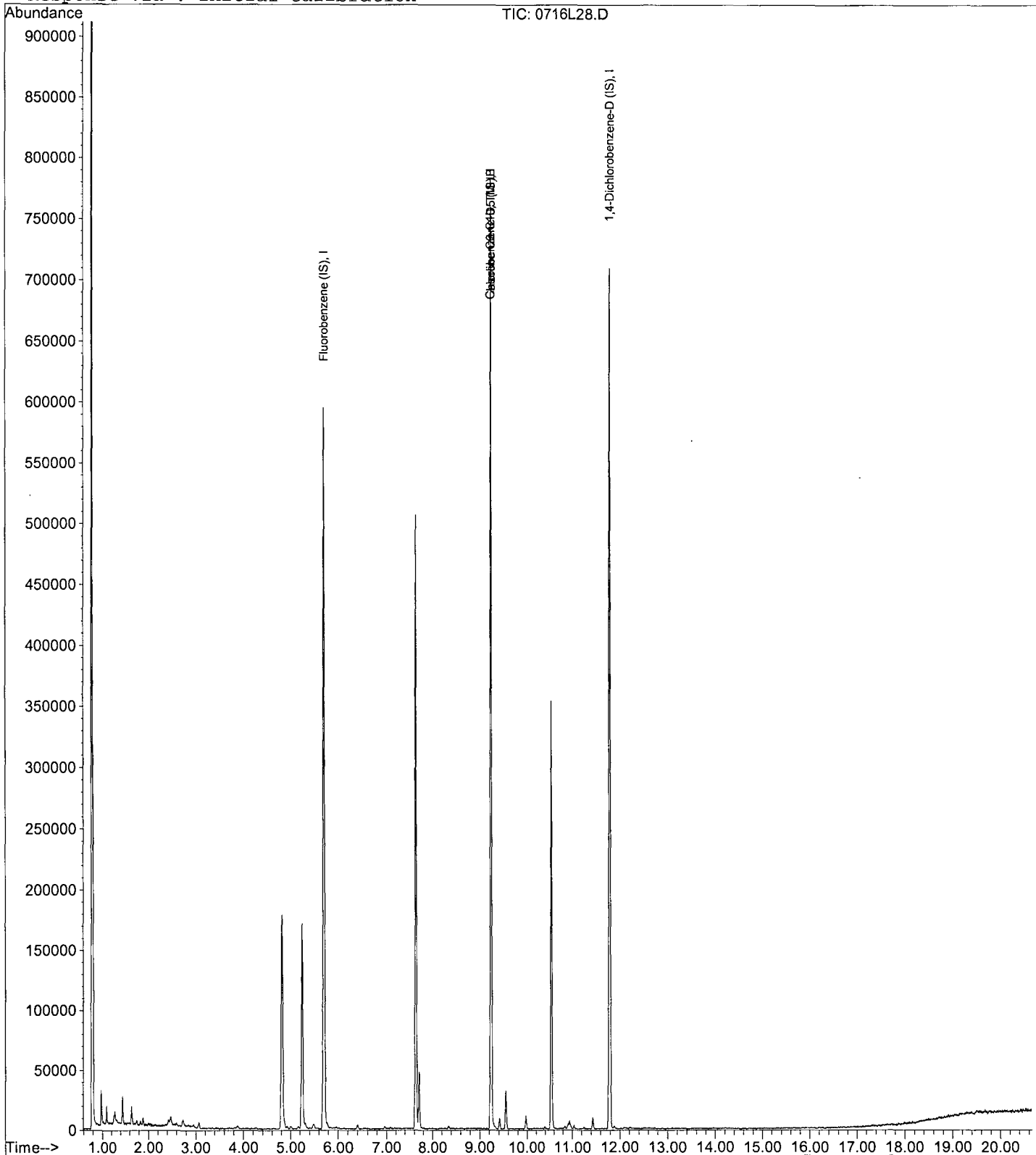
Data File : M:\LOKI\DATA\190715\0716L28.D
Acq On : 17 Jul 19 00:22
Sample : 50ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 27
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:31 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190715\0716L29.D
 Acq On : 17 Jul 19 00:51
 Sample : 100ug/L GAS STD 7/16/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 28
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 17 12:30 2019

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 09 11:47:35 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	594985	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	722754	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	744000	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	5876483m	71.10377	ppb	100

Quantitation Report

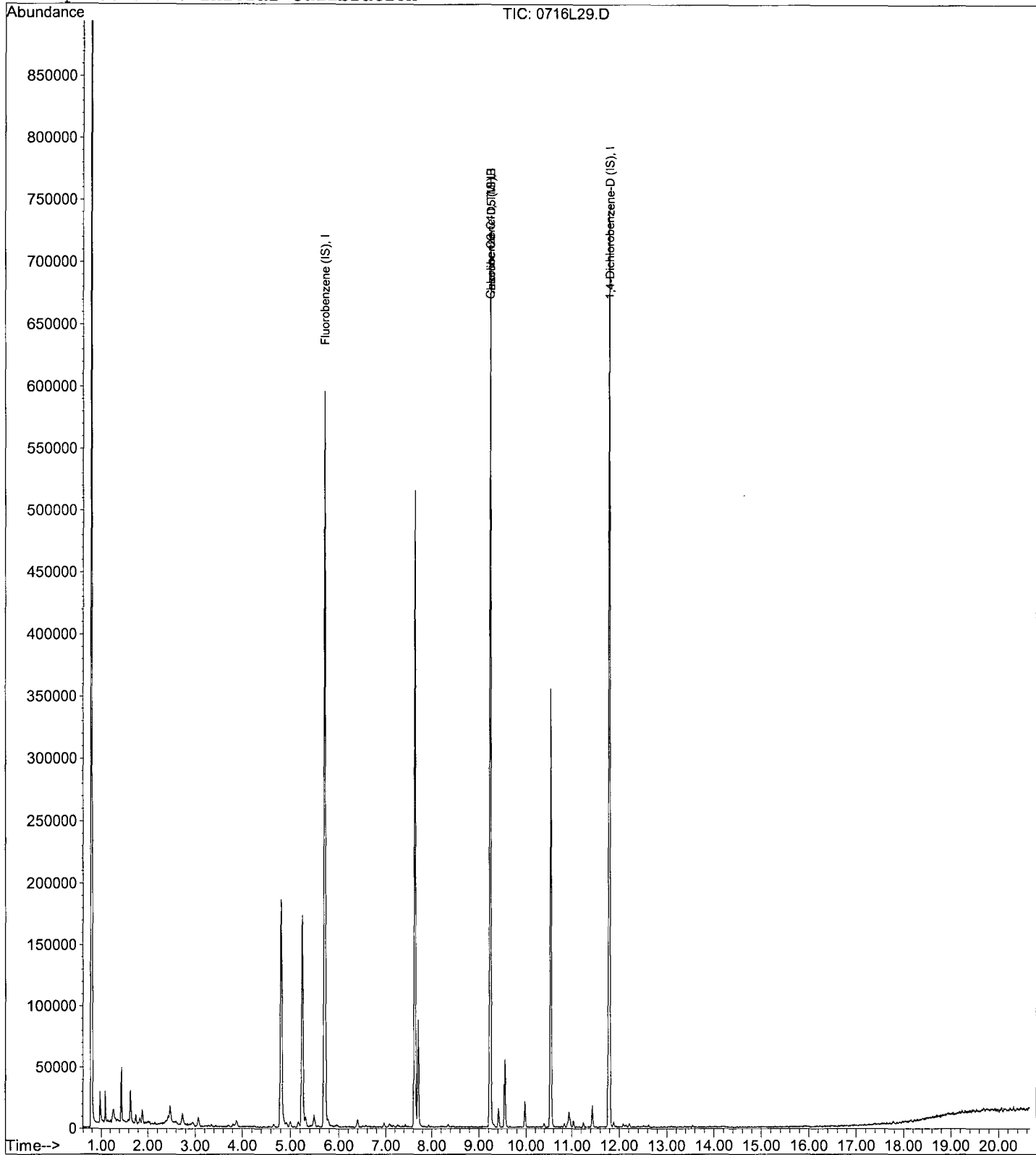
Data File : M:\LOKI\DATA\190715\0716L29.D
Acq On : 17 Jul 19 00:51
Sample : 100ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 28
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:30 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190715\0716L30.D Vial: 29
 Acq On : 17 Jul 19 1:20 Operator:
 Sample : 300ug/L GAS STD 7/16/19 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Jul 17 12:27 2019 Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 09 11:47:35 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	547842	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	710016	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	682146	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	7372679m	316.31954	ppb	100

Quantitation Report

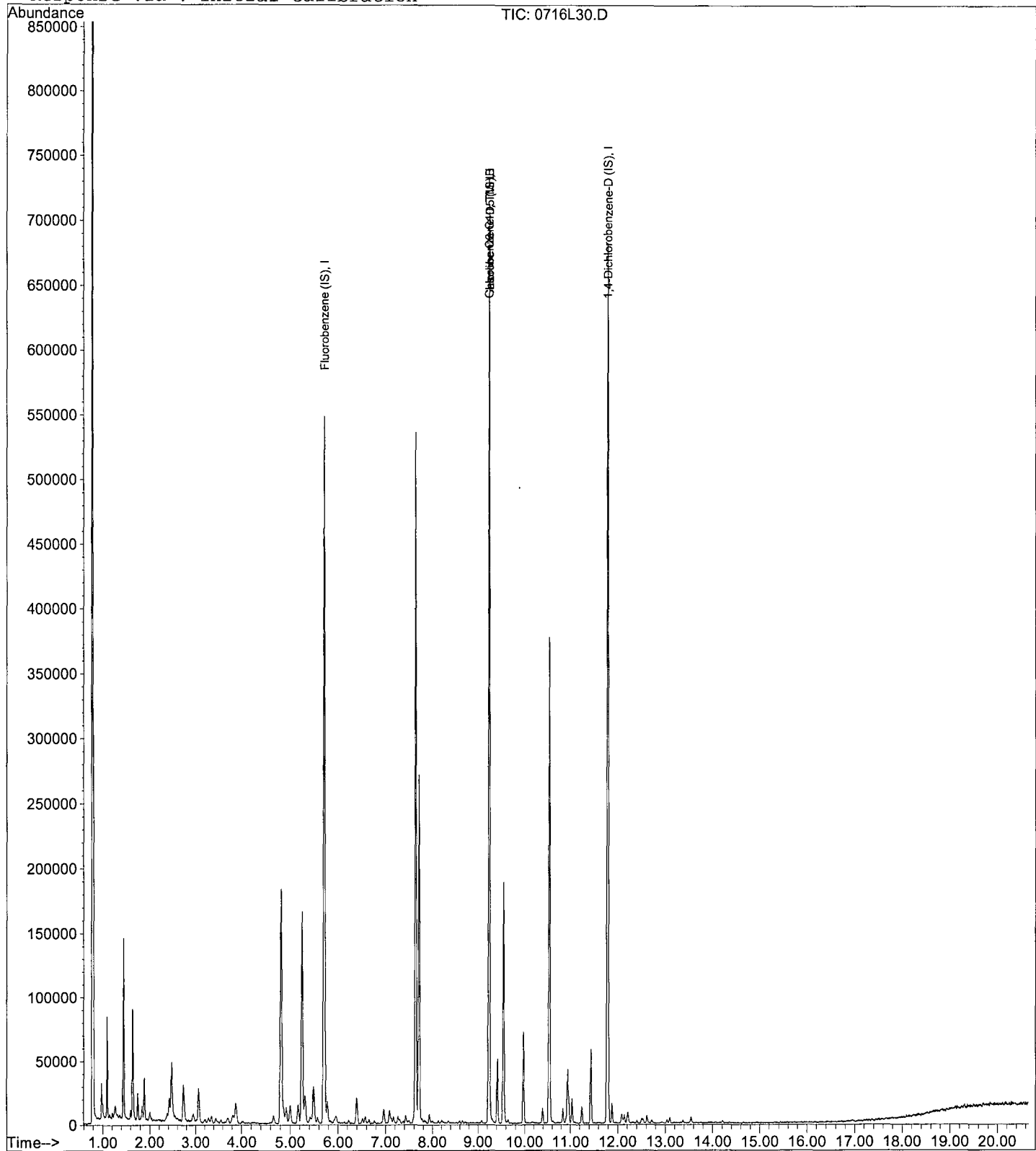
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Acq On : 17 Jul 19 1:20
Sample : 300ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 29
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:27 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190715\0716L31.D Vial: 30
 Acq On : 17 Jul 19 1:48 Operator:
 Sample : 600ug/L GAS STD 7/16/19 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Jul 17 12:28 2019 Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 09 11:47:35 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	575651	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	703823	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	740929	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	10288066m	624.88140	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

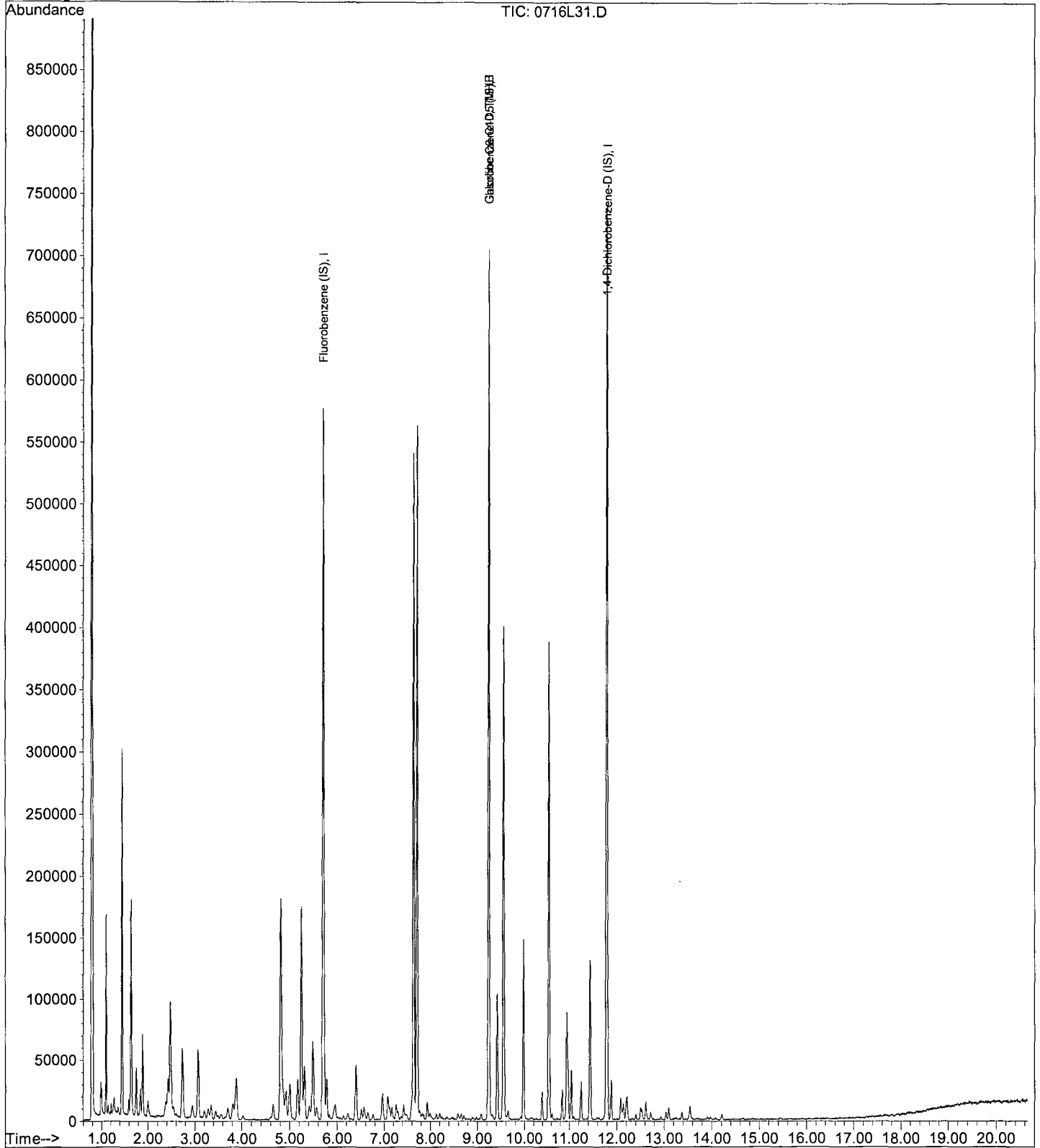
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Acq On : 17 Jul 19 1:48
Sample : 600ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 30
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:28 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190715\0716L32.D Vial: 31
 Acq On : 17 Jul 19 2:17 Operator:
 Sample : 800ug/L GAS STD 7/16/19 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Jul 17 12:29 2019 Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 09 11:47:35 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	595326	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	733057	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	771232	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	7.71	TIC	12137970m	791.22280	ppb	100

Quantitation Report

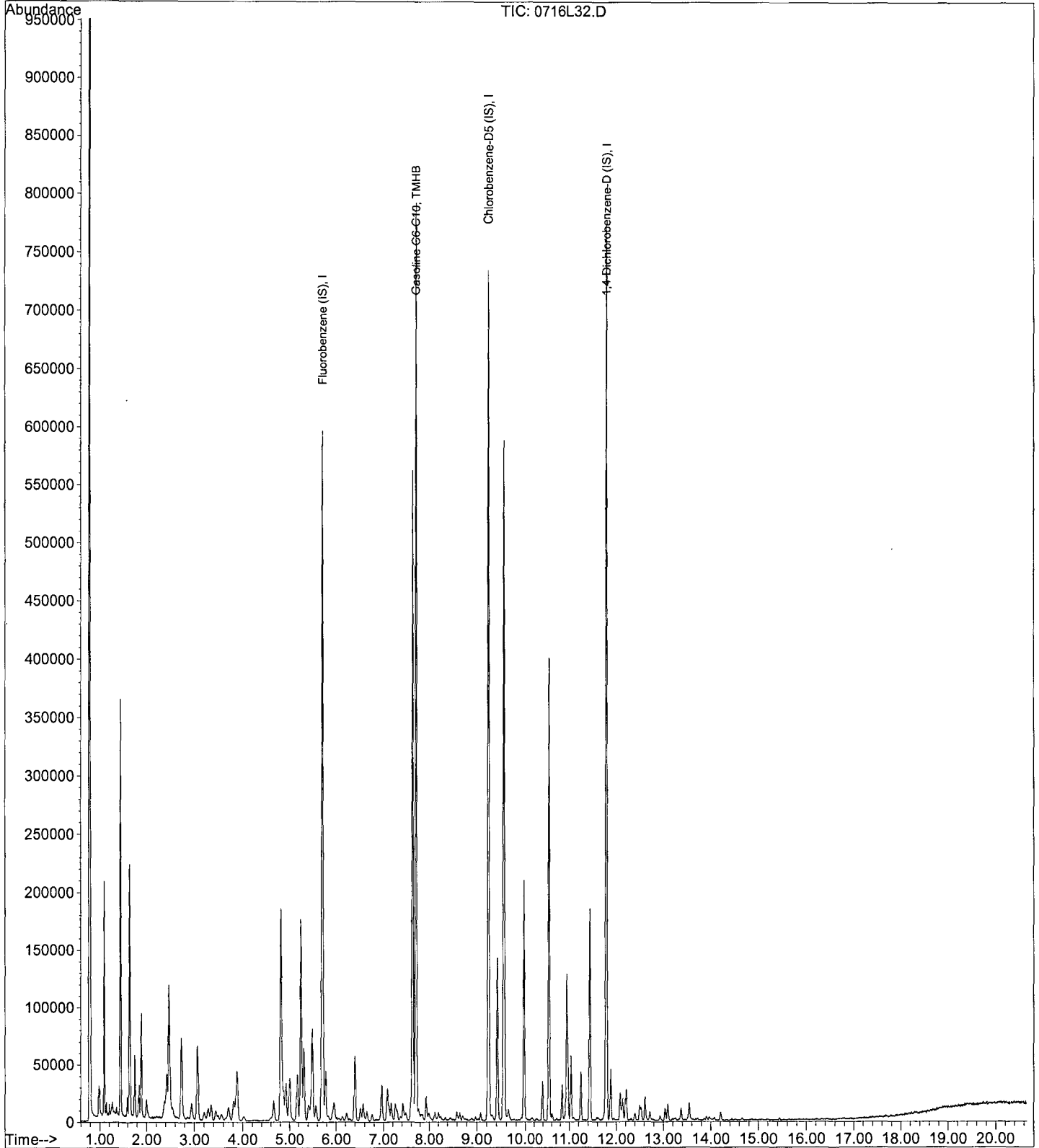
Data File : M:\LOKI\DATA\190715\0716L32.D
Acq On : 17 Jul 19 2:17
Sample : 800ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 31
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:29 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190715\0716L33.D Vial: 32
 Acq On : 17 Jul 19 2:46 Operator:
 Sample : 1000ug/L GAS STD 7/16/19 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Jul 17 12:30 2019 Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 09 11:47:35 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	554084	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	667853	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	706893	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	7.71	TIC	13925982m	1112.42326	ppb	100

Quantitation Report

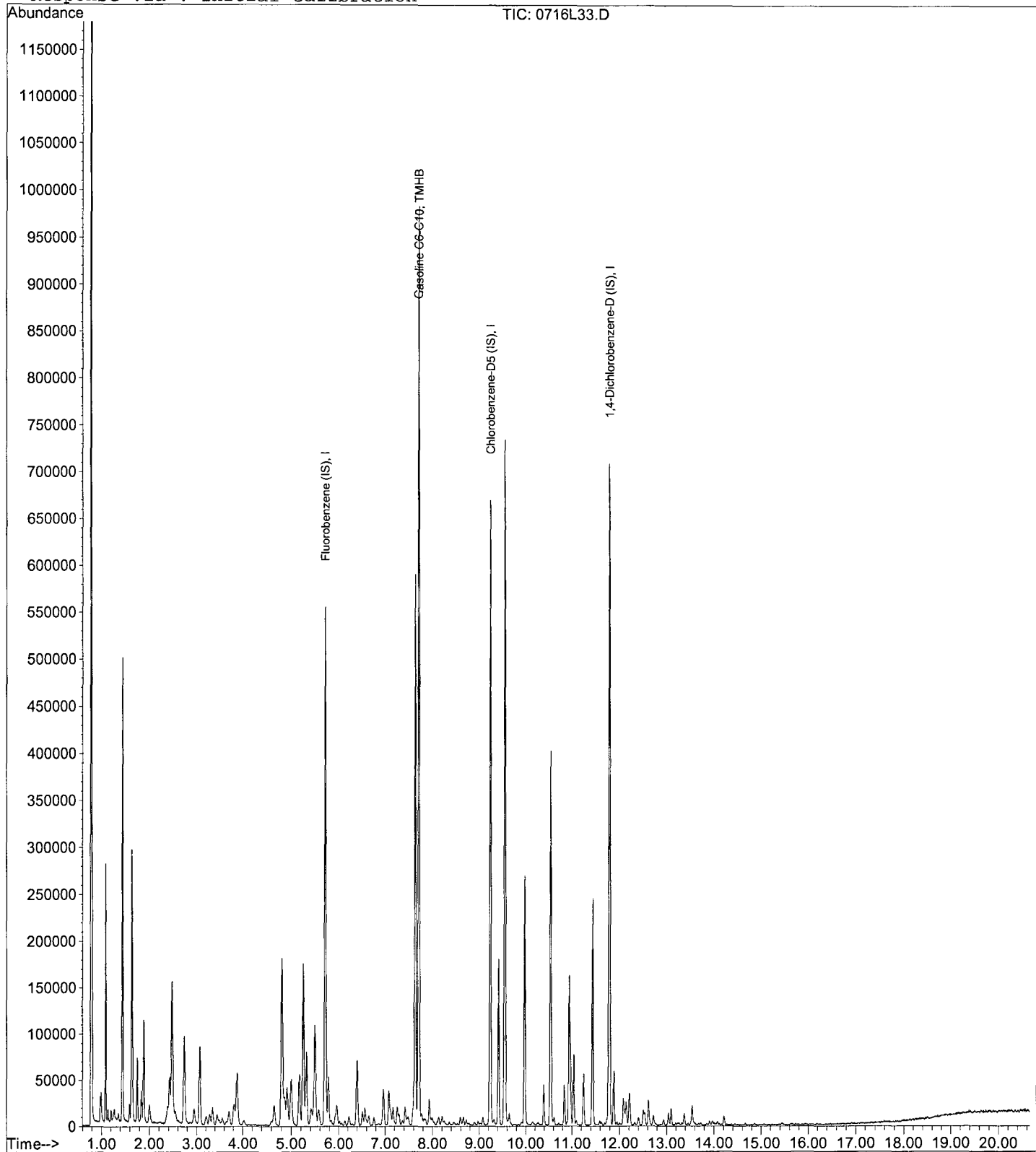
Data File : M:\LOKI\DATA\190715\0716L33.D
Acq On : 17 Jul 19 2:46
Sample : 1000ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 32
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:30 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 7/17/2019

Matrix: _____

Instrument: Loki

Initial Cal. Date: 7/17/2019

Data File: 0716L34.D

	Compound	MEAN	CCRF	%D	%Drift
1	TMHB Gasoline C6-C10	3.213	1.118	65	TMHBL 0.06
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40	Average			65.0	

Data File : M:\LOKI\DATA\190715\0716L34.D Vial: 33
 Acq On : 17 Jul 19 3:14 Operator:
 Sample : (SS)300ug/L GAS STD 7/16/19 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Jul 17 12:37 2019 Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Wed Jul 17 12:32:37 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	595148	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	768514	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	719908	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	7981319m	300.16668	ppb	100

Quantitation Report

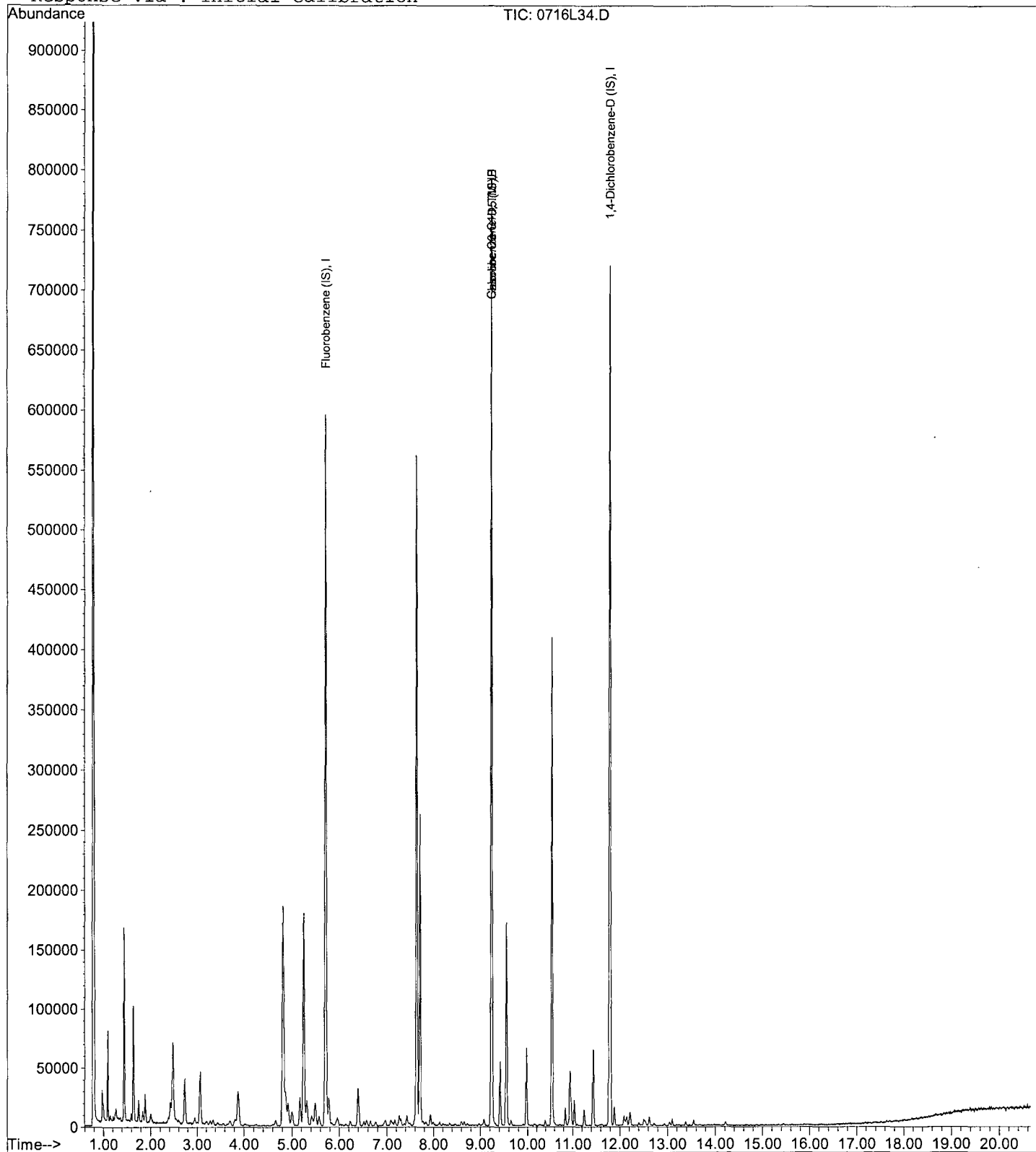
Data File : M:\LOKI\DATA\190715\0716L34.D
Acq On : 17 Jul 19 3:14
Sample : (SS)300ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

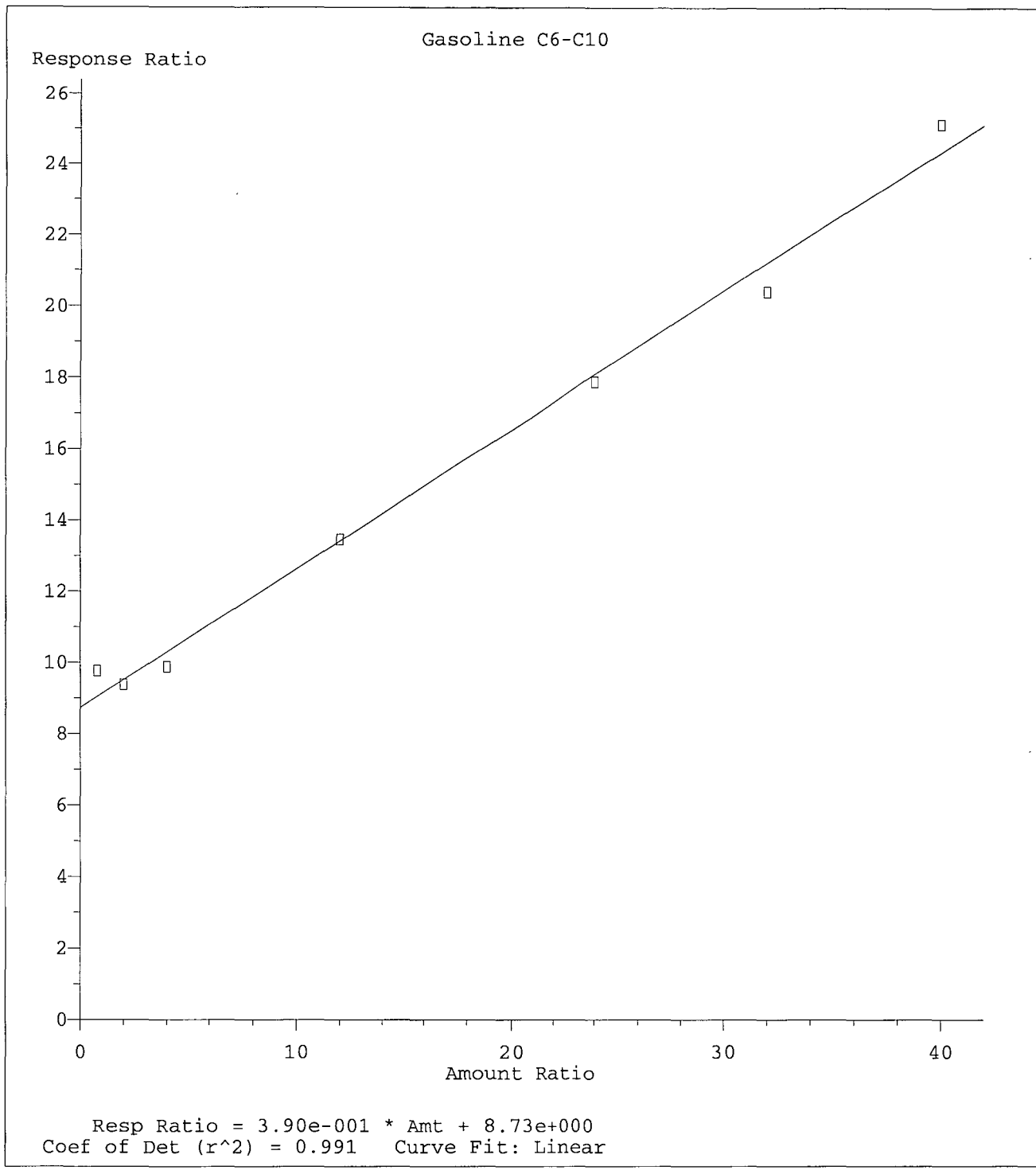
Vial: 33
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:37 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration





Method Name: M:\LOKI\DATA\190715\LGAS716.M
 Calibration Table Last Updated: Wed Jul 17 12:32:37 2019

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 7/24/2019
Instrument: Loki

Initials: _____

0724L15.D 0724L16.D 0724L17.D 0724L18.D 0724L19.D 0724L20.D 0724L21.D 0724L22.D 0724L23.D

	Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	r ²	Q	MRF
1	I Fluorobenzene (IS)																
2	S Dibromofluoromethane(S)	0.4886	0.4703	0.4153	0.4400	0.4699	0.4590	0.4183	0.4399	0.3839		0.44	7.4	S			
3	S 1,2-DCA-D4(S)	0.5208	0.4633	0.4317	0.4417	0.4813	0.4669	0.4327	0.4576	0.3960		0.45	7.8	S			
4	I Chlorobenzene-D5 (IS)																
5	S Toluene-D8(S)	1.575	1.432	1.295	1.387	1.593	1.580	1.582	1.688	1.539		1.5	8.1	S			
6	S 4-Bromofluorobenzene(S)	0.5257	0.4587	0.4310	0.4437	0.5416	0.5563	0.5718	0.6085	0.5893		0.53	12	S			
7	I 1,4-Dichlorobenzene-D (IS)																
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
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28																	
29																	
30																	
31																	
32																	
33																	
34																	
35																	

Data File : M:\LOKI\DATA\190724\0724L15.D Vial: 4
 Acq On : 24 Jul 19 15:18 Operator:
 Sample : 0.3ug/L VOC STD 07/24/19 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Jul 29 13:26 2019 Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.71	96	228544	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	199232	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	97600	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	22334	5.51715	ppb	0.00
Spiked Amount	25.000		Recovery	=	22.068%	
3) 1,2-DCA-D4(S)	5.25	65	23807	5.72780	ppb	0.00
Spiked Amount	25.000		Recovery	=	22.912%	
5) Toluene-D8(S)	7.63	98	62762	5.18479	ppb	0.00
Spiked Amount	25.000		Recovery	=	20.740%	
6) 4-Bromofluorobenzene(S)	10.53	95	20946	5.00457	ppb	0.00
Spiked Amount	25.000		Recovery	=	20.020%	

Target Compounds Qvalue

Quantitation Report

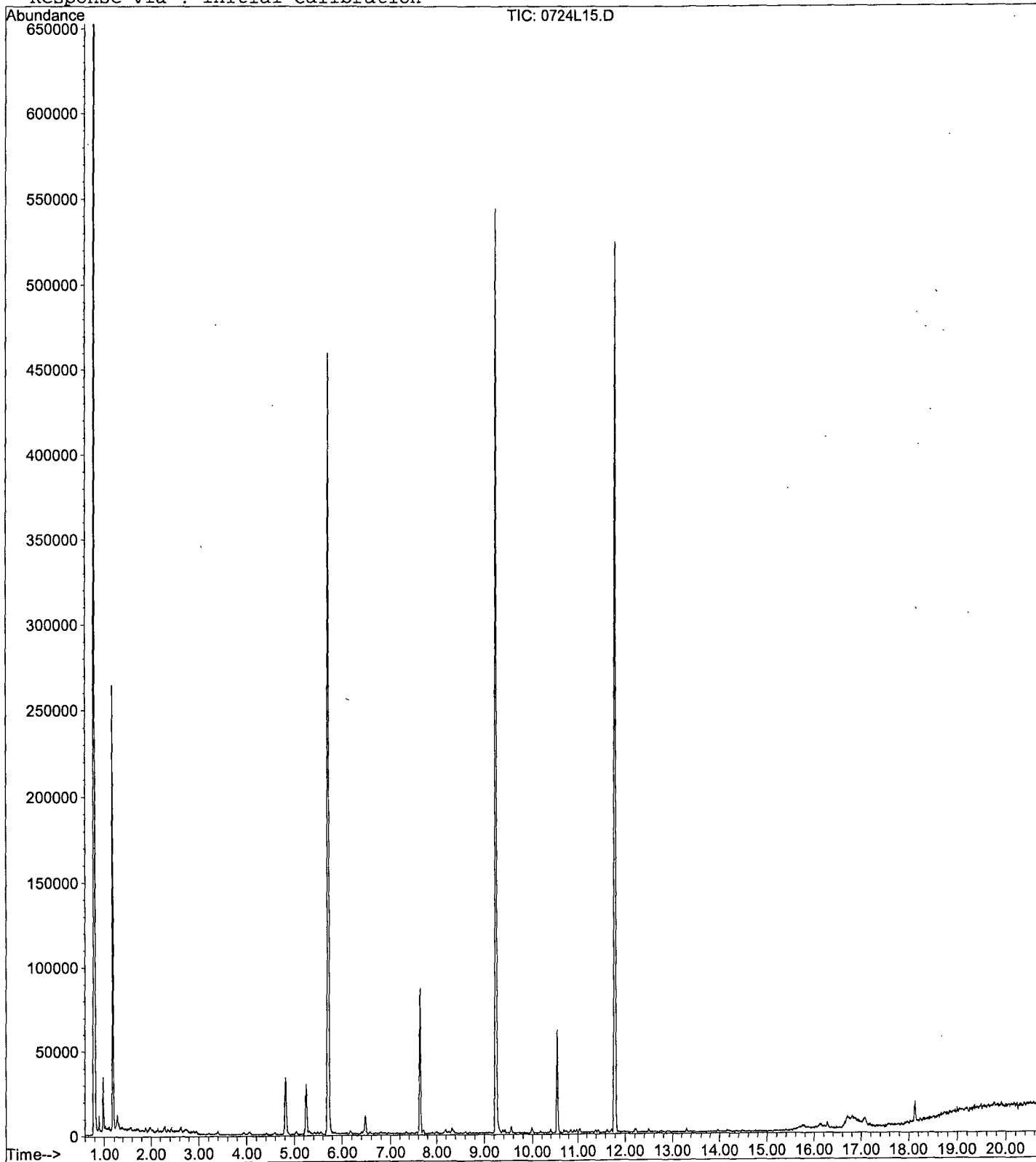
Data File : M:\LOKI\DATA\190724\0724L15.D
Acq On : 24 Jul 19 15:18
Sample : 0.3ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 4
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:26 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L16.D Vial: 5
 Acq On : 24 Jul 19 15:47 Operator:
 Sample : 0.5ug/L VOC STD 07/24/19 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Jul 29 13:26 2019 Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	244160	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	220672	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	107432	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	22968	5.31089	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	21.244%
3) 1,2-DCA-D4(S)	5.24	65	22625	5.09527	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	20.380%
5) Toluene-D8(S)	7.63	98	63183	4.71245	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	18.848%
6) 4-Bromofluorobenzene(S)	10.54	95	20244	4.36691	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	17.468%

Target Compounds Qvalue

Quantitation Report

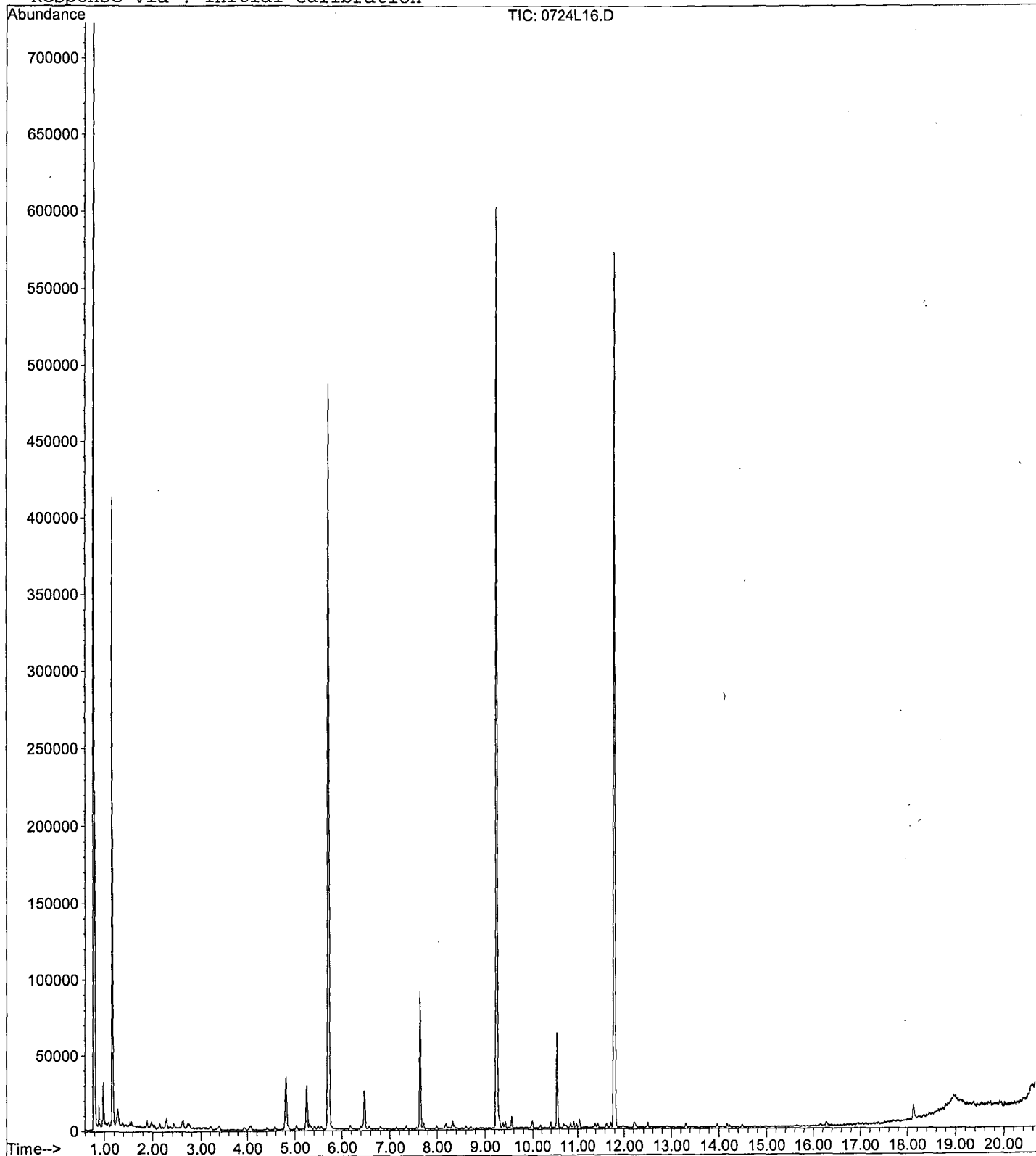
Data File : M:\LOKI\DATA\190724\0724L16.D
Acq On : 24 Jul 19 15:47
Sample : 0.5ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 5
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:26 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L17.D Vial: 6
 Acq On : 24 Jul 19 16:16 Operator:
 Sample : 1.0ug/L VOC STD 07/24/19 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Jul 29 13:26 2019 Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	236160	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	213952	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	109896	25.00000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.81	111	39231	9.37867	ppb	0.00
Spiked Amount				25.000		
				Recovery =	37.516%	
3) 1,2-DCA-D4(S)	5.25	65	40780	9.49498	ppb	0.00
Spiked Amount				25.000		
				Recovery =	37.980%	
5) Toluene-D8(S)	7.63	98	110803	8.52371	ppb	0.00
Spiked Amount				25.000		
				Recovery =	34.096%	
6) 4-Bromofluorobenzene(S)	10.54	95	36883	8.20606	ppb	0.00
Spiked Amount				25.000		
				Recovery =	32.824%	

Target Compounds Qvalue

Quantitation Report

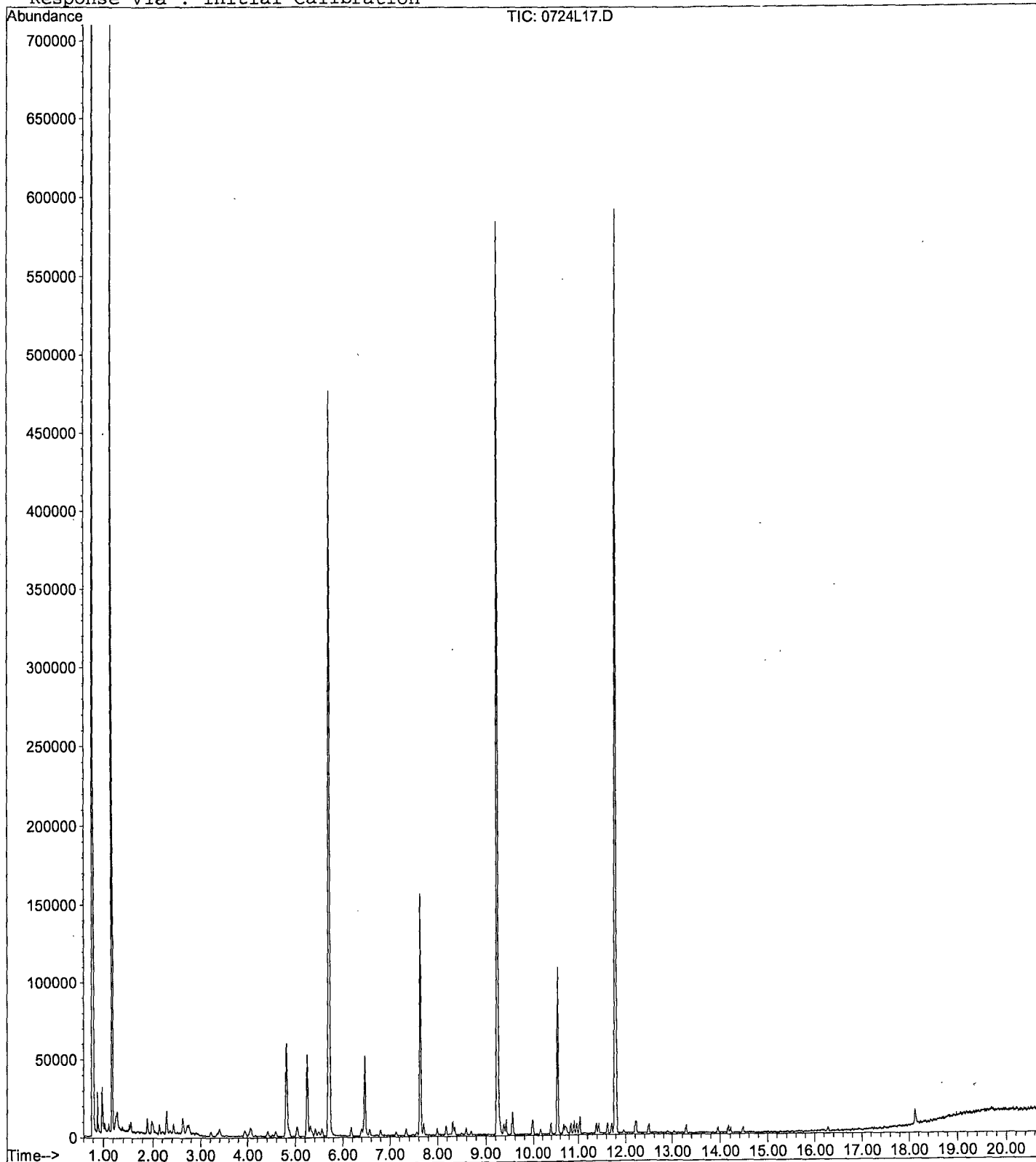
Data File : M:\LOKI\DATA\190724\0724L17.D
Acq On : 24 Jul 19 16:16
Sample : 1.0ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 6
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:26 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L18.D Vial: 7
 Acq On : 24 Jul 19 16:45 Operator:
 Sample : 2.0ug/L VOC STD 07/24/19 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Jul 29 13:27 2019 Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	228736	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	203328	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	106872	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	40260	9.93705	ppb	0.00
Spiked Amount	25.000			Recovery	=	39.748%
3) 1,2-DCA-D4(S)	5.25	65	40410	9.71421	ppb	0.00
Spiked Amount	25.000			Recovery	=	38.856%
5) Toluene-D8(S)	7.63	98	112797	9.13049	ppb	0.00
Spiked Amount	25.000			Recovery	=	36.520%
6) 4-Bromofluorobenzene(S)	10.53	95	36090	8.44918	ppb	0.00
Spiked Amount	25.000			Recovery	=	33.796%

Target Compounds Qvalue

Quantitation Report

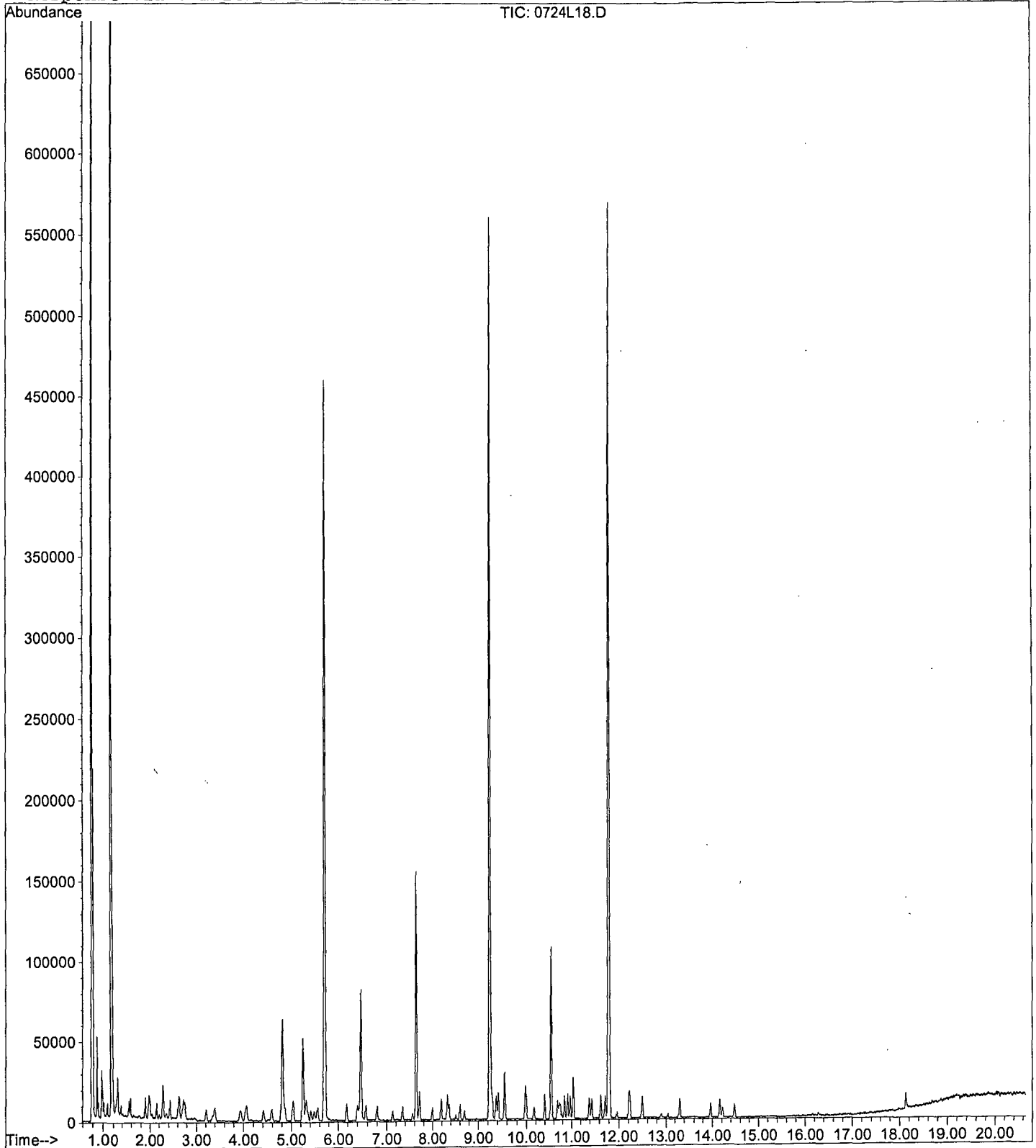
Data File : M:\LOKI\DATA\190724\0724L18.D
Acq On : 24 Jul 19 16:45
Sample : 2.0ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 7
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:27 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L19.D Vial: 8
 Acq On : 24 Jul 19 17:14 Operator:
 Sample : 5.0ug/L VOC STD 07/24/19 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Jul 29 13:27 2019 Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	226368	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	203008	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	112968	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	106359	26.52635	ppb	0.00
Spiked Amount	25.000			Recovery	= 106.104%	
3) 1,2-DCA-D4(S)	5.24	65	108946	26.46362	ppb	0.00
Spiked Amount	25.000			Recovery	= 105.856%	
5) Toluene-D8(S)	7.63	98	323314	26.21230	ppb	0.00
Spiked Amount	25.000			Recovery	= 104.848%	
6) 4-Bromofluorobenzene(S)	10.54	95	109955	25.78259	ppb	0.00
Spiked Amount	25.000			Recovery	= 103.132%	

Target Compounds Qvalue

Quantitation Report

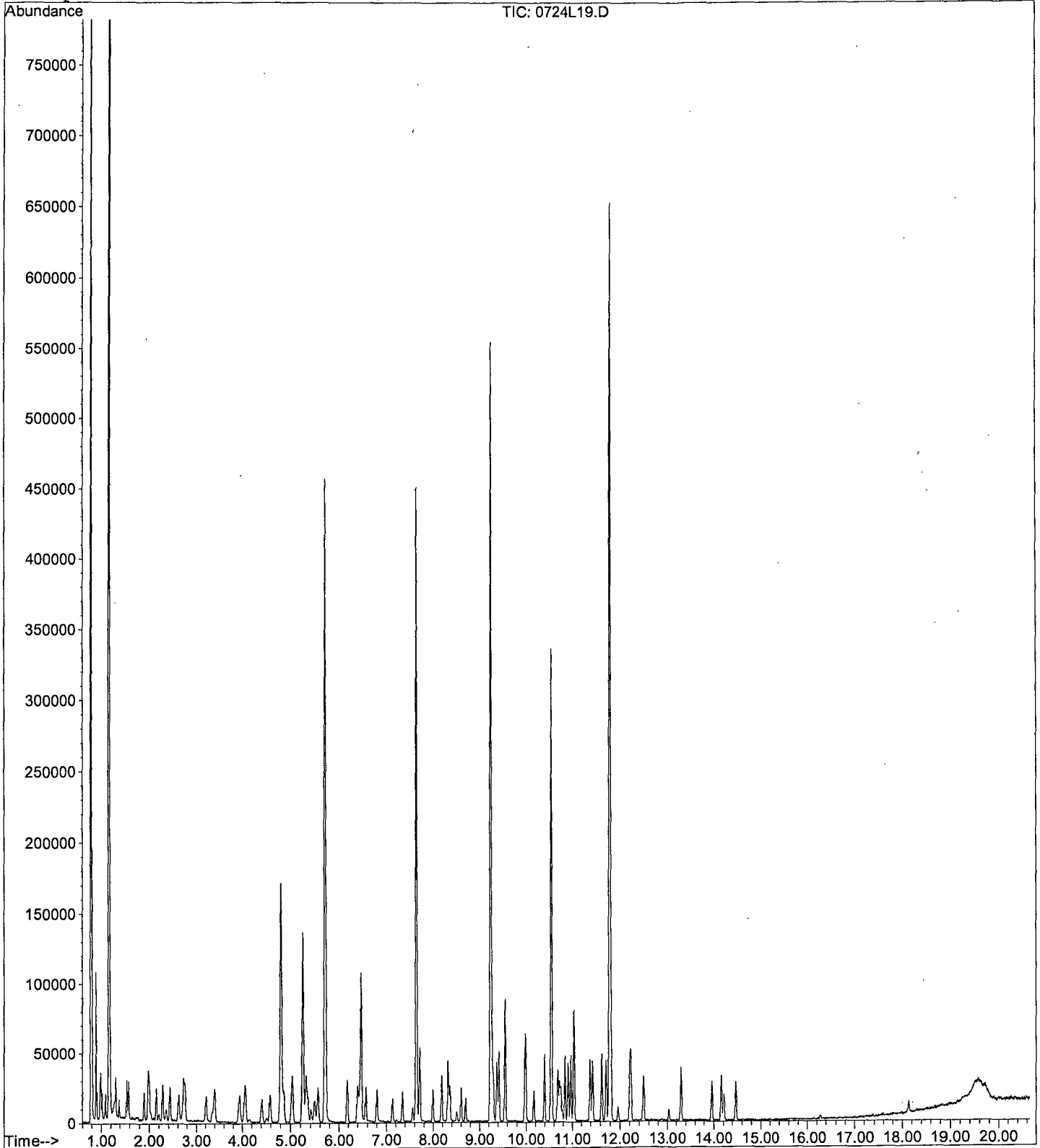
Data File : M:\LOKI\DATA\190724\0724L19.D
Acq On : 24 Jul 19 17:14
Sample : 5.0ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 8
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:27 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L20.D Vial: 9
 Acq On : 24 Jul 19 17:42 Operator:
 Sample : 10ug/L VOC STD 07/24/19 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Jul 29 13:27 2019 Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	232960	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	215616	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	119352	25.00000	ppb	0.00

System Monitoring Compounds

2) Dibromofluoromethane(S)	4.81	111	106937	25.91582	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	103.664%
3) 1,2-DCA-D4(S)	5.25	65	108770	25.67325	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	102.692%
5) Toluene-D8(S)	7.63	98	340696	26.00637	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	104.024%
6) 4-Bromofluorobenzene(S)	10.53	95	119955	26.48269	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	105.932%

Target Compounds Qvalue

Quantitation Report

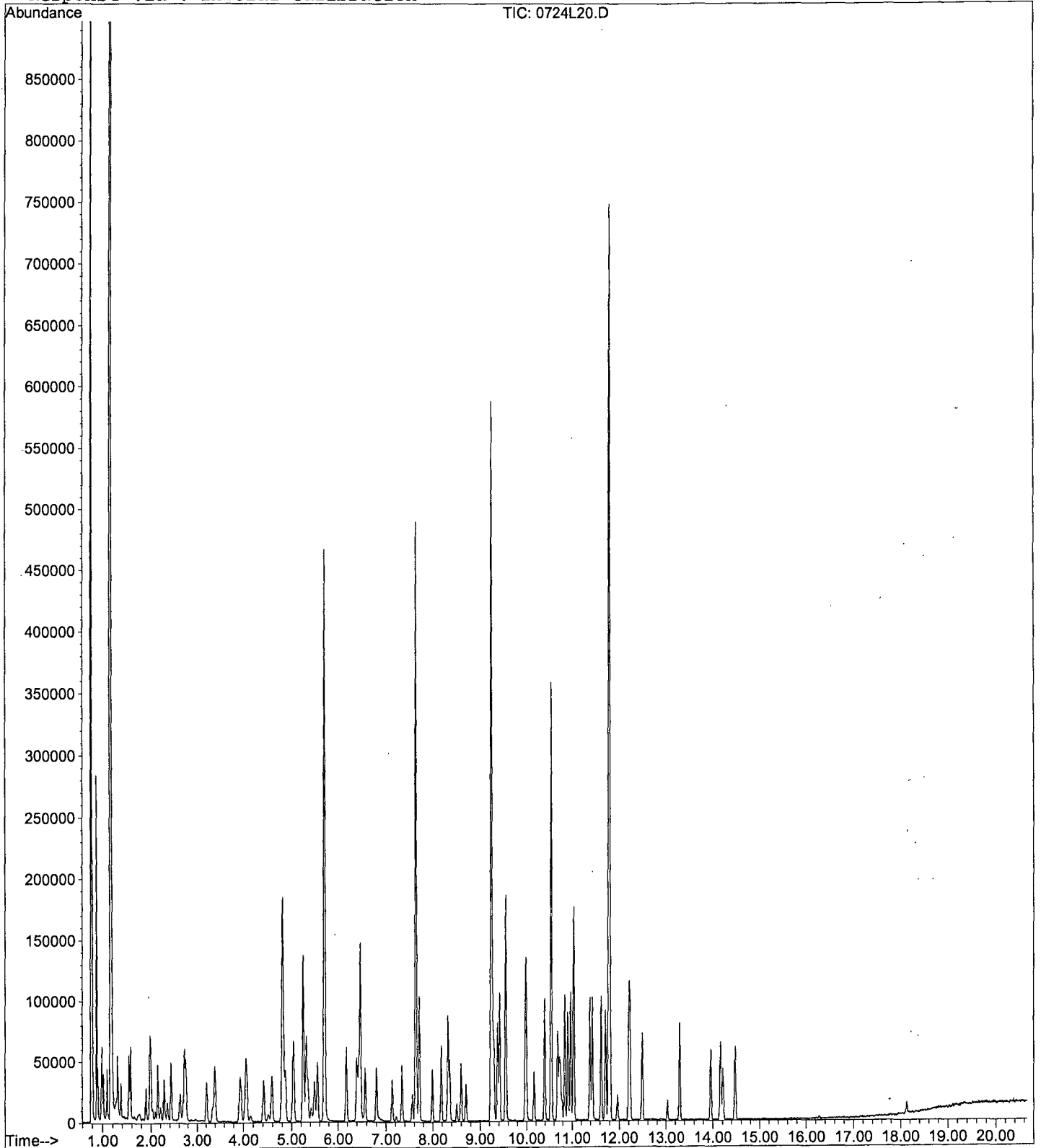
Data File : M:\LOKI\DATA\190724\0724L20.D
Acq On : 24 Jul 19 17:42
Sample : 10ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 9
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:27 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L21.D Vial: 10
 Acq On : 24 Jul 19 18:11 Operator:
 Sample : 20ug/L VOC STD 07/24/19 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Jul 29 13:27 2019 Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	252480	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	227712	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	144064	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	211246	47.23673	ppb	0.00
Spiked Amount	25.000			Recovery	= 188.948%	
3) 1,2-DCA-D4(S)	5.25	65	218495	47.58472	ppb	0.00
Spiked Amount	25.000			Recovery	= 190.340%	
5) Toluene-D8(S)	7.63	98	720478	52.07491	ppb	0.00
Spiked Amount	25.000			Recovery	= 208.300%	
6) 4-Bromofluorobenzene(S)	10.53	95	260415	54.43833	ppb	0.00
Spiked Amount	25.000			Recovery	= 217.752%	

Target Compounds Qvalue

Quantitation Report

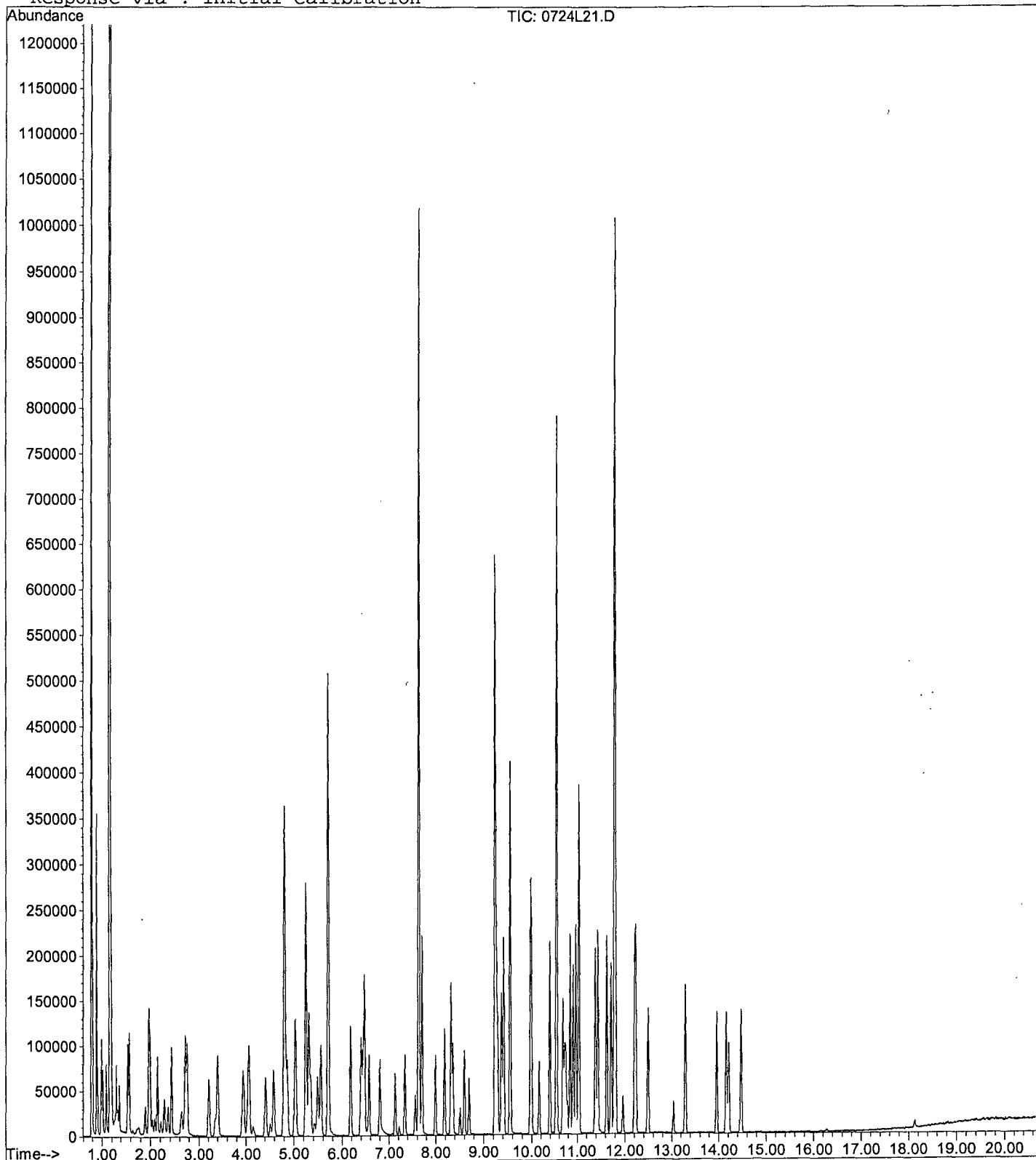
Data File : M:\LOKI\DATA\190724\0724L21.D
Acq On : 24 Jul 19 18:11
Sample : 20ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 10
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:27 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L22.D Vial: 11
 Acq On : 24 Jul 19 18:40 Operator:
 Sample : 40ug/L VOC STD 07/24/19 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Jul 29 13:27 2019 Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.71	96	248128	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	215680	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	139584	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	218290	49.66797	ppb	0.00
Spiked Amount	25.000			Recovery	= 198.672%	
3) 1,2-DCA-D4(S)	5.24	65	227070	50.31958	ppb	0.00
Spiked Amount	25.000			Recovery	= 201.280%	
5) Toluene-D8(S)	7.63	98	728244	55.57260	ppb	0.00
Spiked Amount	25.000			Recovery	= 222.292%	
6) 4-Bromofluorobenzene(S)	10.54	95	262492	57.93366	ppb	0.00
Spiked Amount	25.000			Recovery	= 231.736%	

Target Compounds Qvalue

Quantitation Report

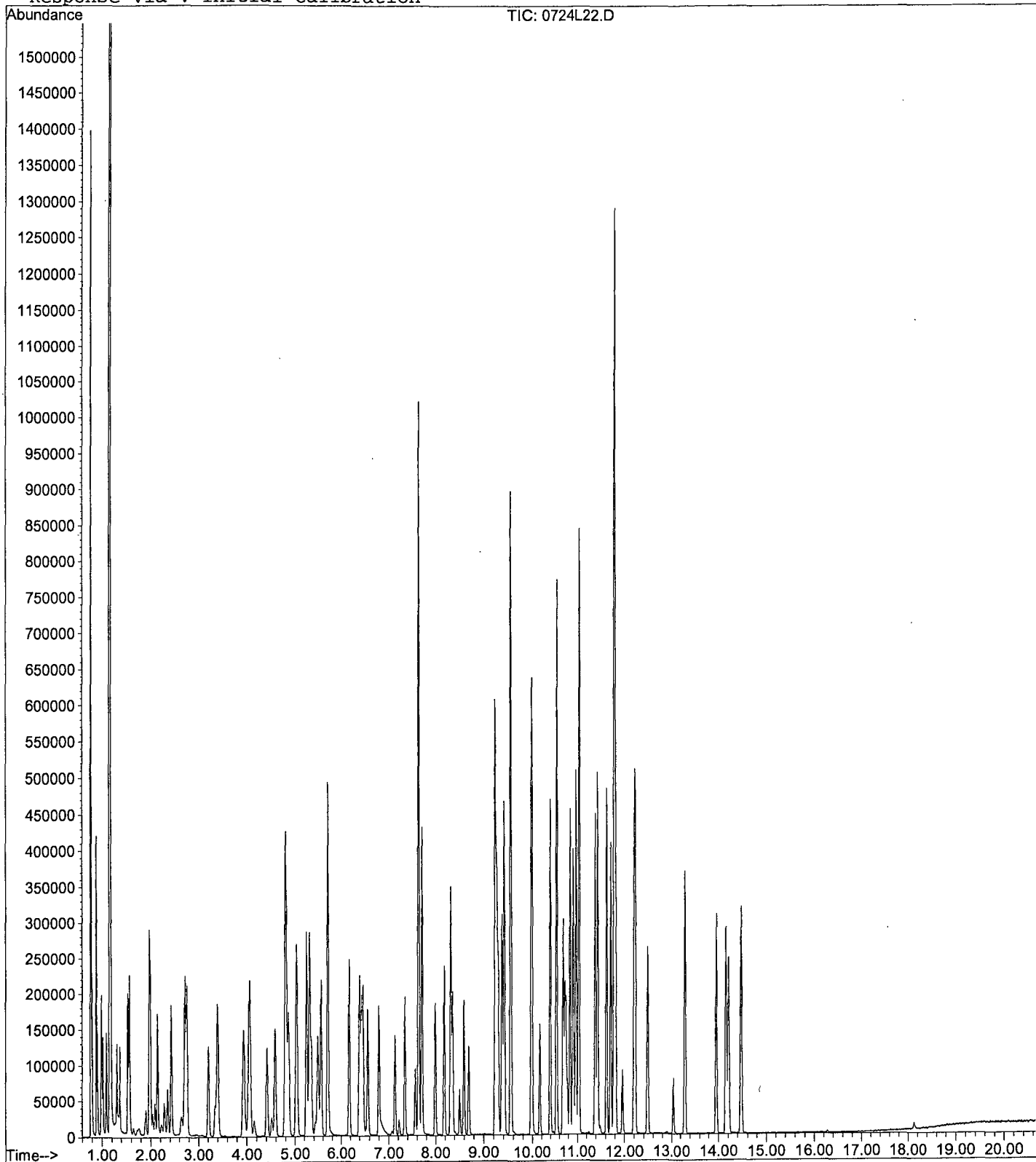
Data File : M:\LOKI\DATA\190724\0724L22.D
Acq On : 24 Jul 19 18:40
Sample : 40ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 11
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:27 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L23.D Vial: 12
 Acq On : 24 Jul 19 19:09 Operator:
 Sample : 100ug/L VOC STD 07/24/19 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Jul 29 13:27 2019 Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.71	96	269568	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	231552	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	170944	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	413989	86.70393	ppb	0.00
Spiked Amount	25.000		Recovery	=	346.816%	
3) 1,2-DCA-D4(S)	5.24	65	426960	87.09072	ppb	0.00
Spiked Amount	25.000		Recovery	=	348.364%	
5) Toluene-D8(S)	7.63	98	1425773	101.34342	ppb	0.00
Spiked Amount	25.000		Recovery	=	405.372%	
6) 4-Bromofluorobenzene(S)	10.53	95	545842	112.21300	ppb	0.00
Spiked Amount	25.000		Recovery	=	448.852%	

Target Compounds Qvalue

Quantitation Report

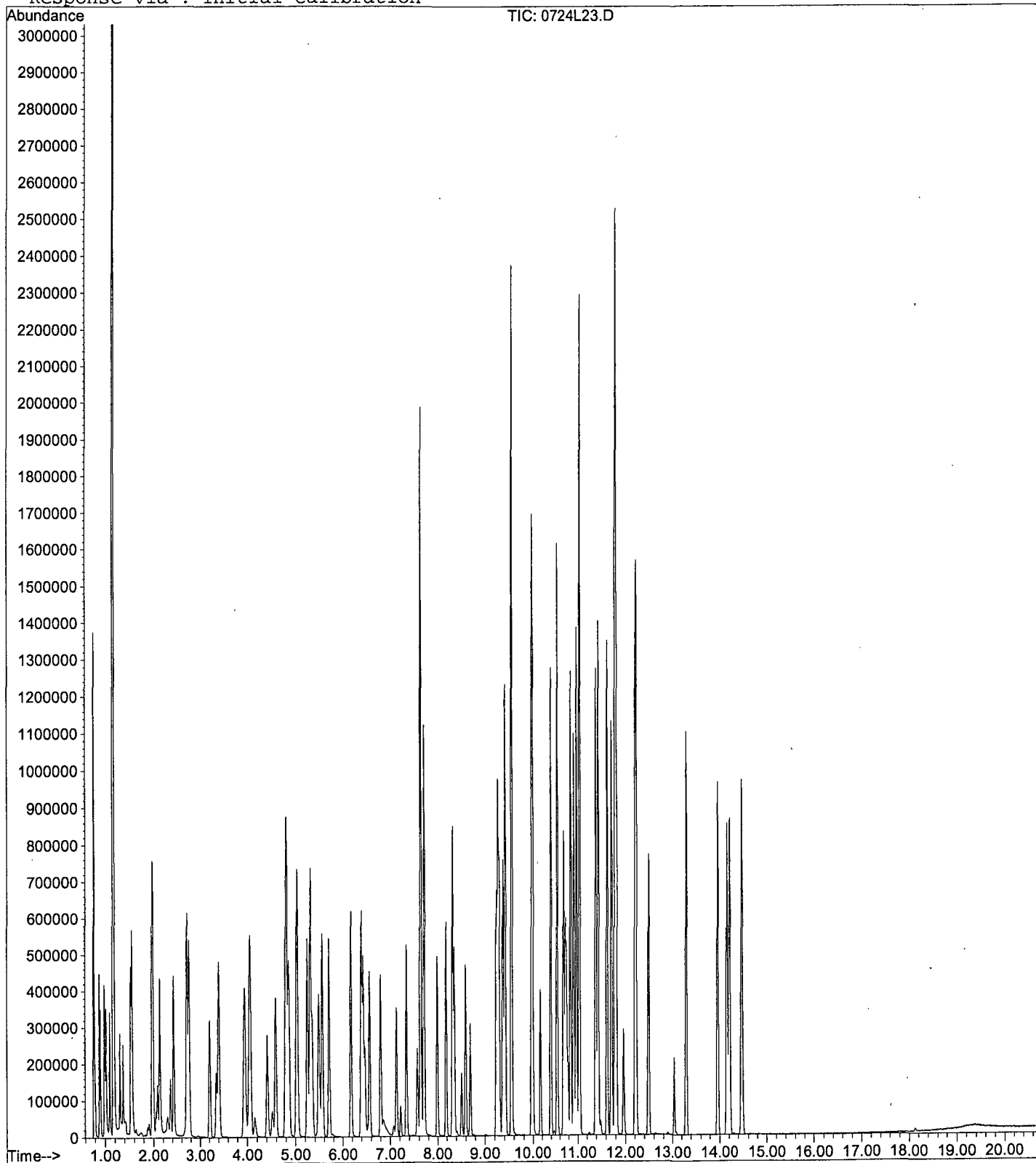
Data File : M:\LOKI\DATA\190724\0724L23.D
Acq On : 24 Jul 19 19:09
Sample : 100ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 12
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:27 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 7/27/2019
Instrument: Loki
Initial Cal. Date: 7/17/2019
Data File: 0727L23.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Fluorobenzene (IS)	ISTD			I
2	TMHB Gasoline C6-C10	3.213	1.097	66	TMHBL 5.2
3	I Chlorobenzene-D5 (IS)	ISTD			I
4	I 1,4-Dichlorobenzene-D (IS)	ISTD			I
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
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34					
35					
36					
37					
38					
39					
40	Average			66.0	

Data File : M:\LOKI\DATA\190724\0727L23.D
 Acq On : 27 Jul 19 20:22
 Sample : 190727B CCV 300ug/L
 Misc : IS&S 7/15/19,6/5/19

Vial: 23
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:33 2019

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Wed Jul 17 12:32:37 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	386981	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	486778	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	476480	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	5094886m	284.46832	ppb	100

Quantitation Report

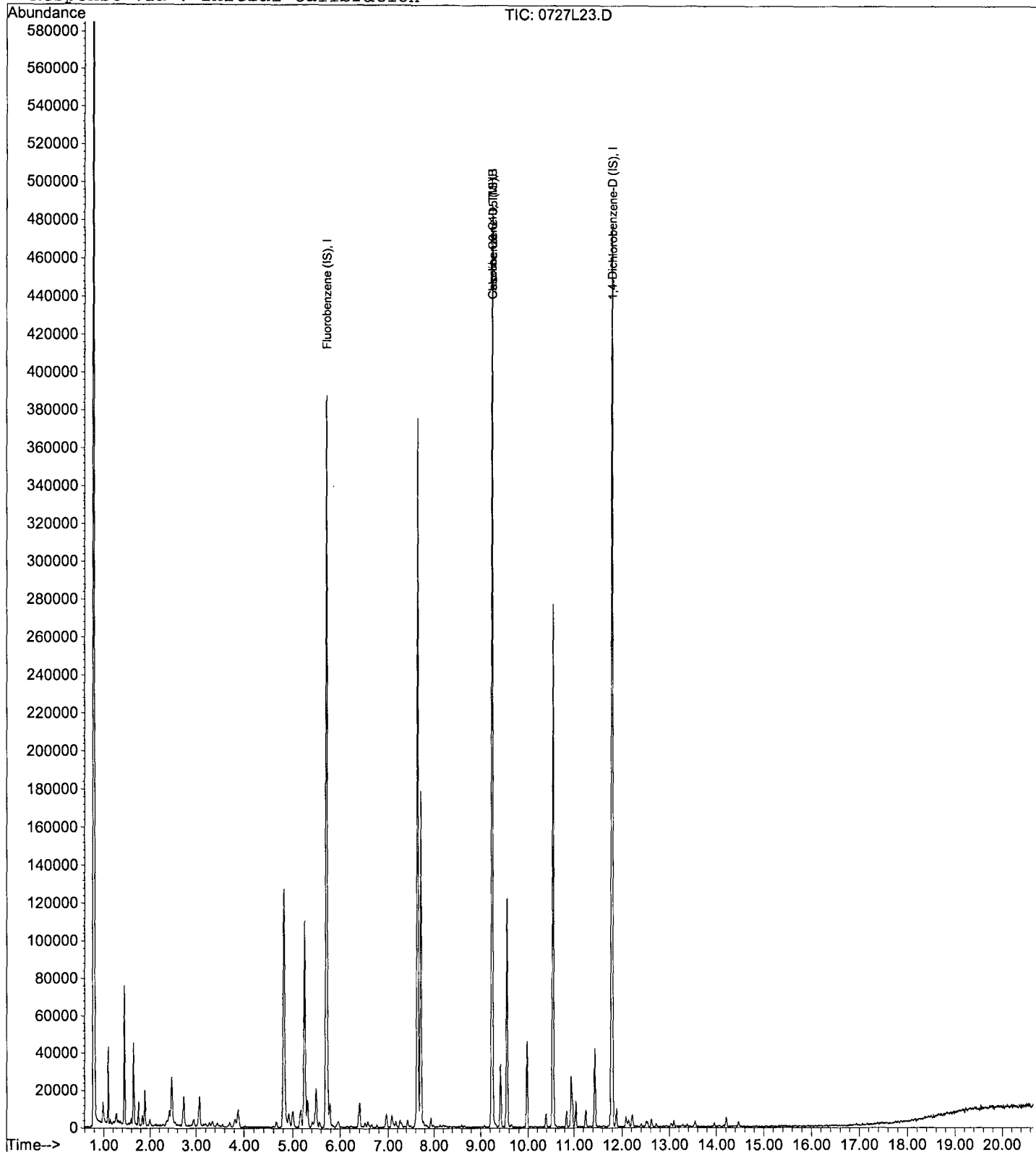
Data File : M:\LOKI\DATA\190724\0727L23.D
Acq On : 27 Jul 19 20:22
Sample : 190727B CCV 300ug/L
Misc : IS&S 7/15/19,6/5/19

Vial: 23
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:33 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 7/28/2019
Instrument: Loki
Initial Cal. Date: 7/17/2019
Data File: 0727L41.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Fluorobenzene (IS)	ISTD			I
2	TMHB Gasoline C6-C10	3.213	1.045	67	TMHBL 19
3	I Chlorobenzene-D5 (IS)	ISTD			I
4	I 1,4-Dichlorobenzene-D (IS)	ISTD			I
5					
6					
7					
8					
9					
10					
11					
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39					
40	Average			67.0	

Data File : M:\LOKI\DATA\190724\0727L41.D Vial: 41
 Acq On : 28 Jul 19 5:00 Operator:
 Sample : Ending CCV 300ug/L 07/27/19 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Jul 29 13:34 2019 Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Wed Jul 17 12:32:37 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	368465	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	455774	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	472551	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	4620898m	244.42205	ppb	100

Quantitation Report

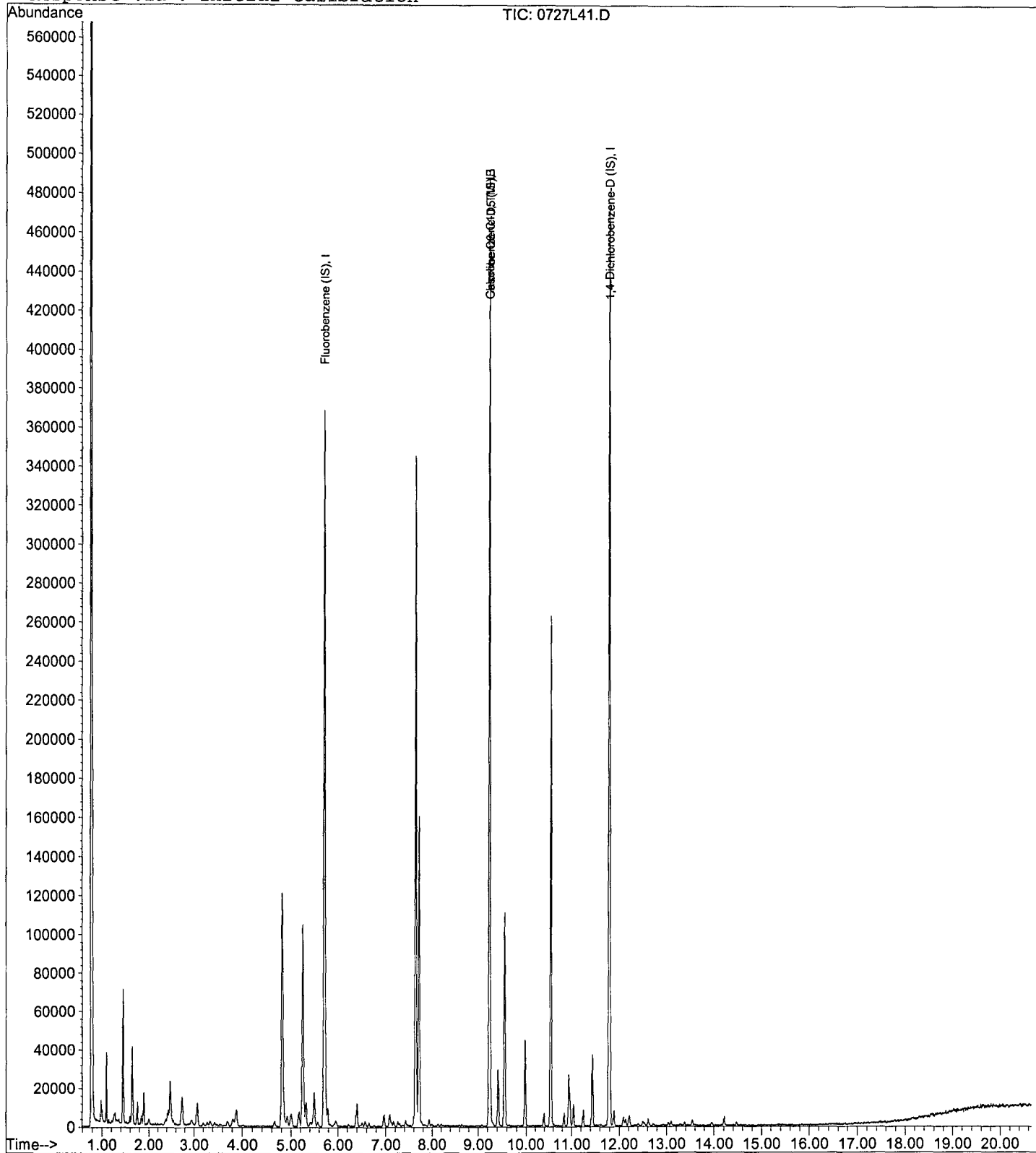
Data File : M:\LOKI\DATA\190724\0727L41.D
Acq On : 28 Jul 19 5:00
Sample : Ending CCV 300ug/L 07/27/19
Misc : IS&S 7/15/19,6/5/19

Vial: 41
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:34 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Initial Cal. Date: 07/26/19

Matrix: _____

Instrument: Thor

Initials: DP

0726T04.D 0726T05.D 0726T06.D 0726T07.D 0726T08.D 0726T09.D 0726T10.D 0726T12.D

	Compound	1	2	3	4	5	6	7	9		Avg	%RSD	Type	r ²	Q	MRF
1	I Fluorobenzene (IS)															
2	S Dibromofluoromethane(S)	0.4766	0.4836	0.6024	0.5738	0.6171	0.4740	0.5183	0.4828		0.53	11	S			
3	S 1,2-DCA-D4(S)	0.5363	0.5804	0.6641	0.6617	0.7139	0.5436	0.5803	0.5435		0.60	11	S			
4	I Chlorobenzene-D5 (IS)															
5	S Toluene-D8(S)	1.810	1.748	2.139	2.007	2.137	1.669	1.834	1.732		1.9	9.8	S			
6	S 4-Bromofluorobenzene(S)	0.6873	0.6595	0.7922	0.7541	0.8100	0.6396	0.7357	0.7425		0.73	8.4	S			
7	I 1,4-Dichlorobenzene-D (IS)															
8																
9																
10																
11																
12																
13																
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Data File : M:\THOR\DATA\T190726\0726T04.D Vial: 4
 Acq On : 26 Jul 19 13:35 Operator:
 Sample : 0.3ug/L VOC STD 07/26/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:59 2019 Quant Results File: TSUR0726.RES

Quant Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.50	96	514880	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.79	117	482560	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.11	152	249664	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
2) Dibromofluoromethane(S)	4.62	111	49078	4.5084	ppb	0.00
Spiked Amount 25.000			Recovery =	18.032%		
3) 1,2-DCA-D4(S)	5.05	65	55228	4.4473	ppb	0.00
Spiked Amount 25.000			Recovery =	17.788%		
5) Toluene-D8(S)	7.32	98	174680	4.8022	ppb	0.00
Spiked Amount 25.000			Recovery =	19.208%		
6) 4-Bromofluorobenzene(S)	9.98	95	66331	4.7228	ppb	0.00
Spiked Amount 25.000			Recovery =	18.892%		

Target Compounds Qvalue

Quantitation Report

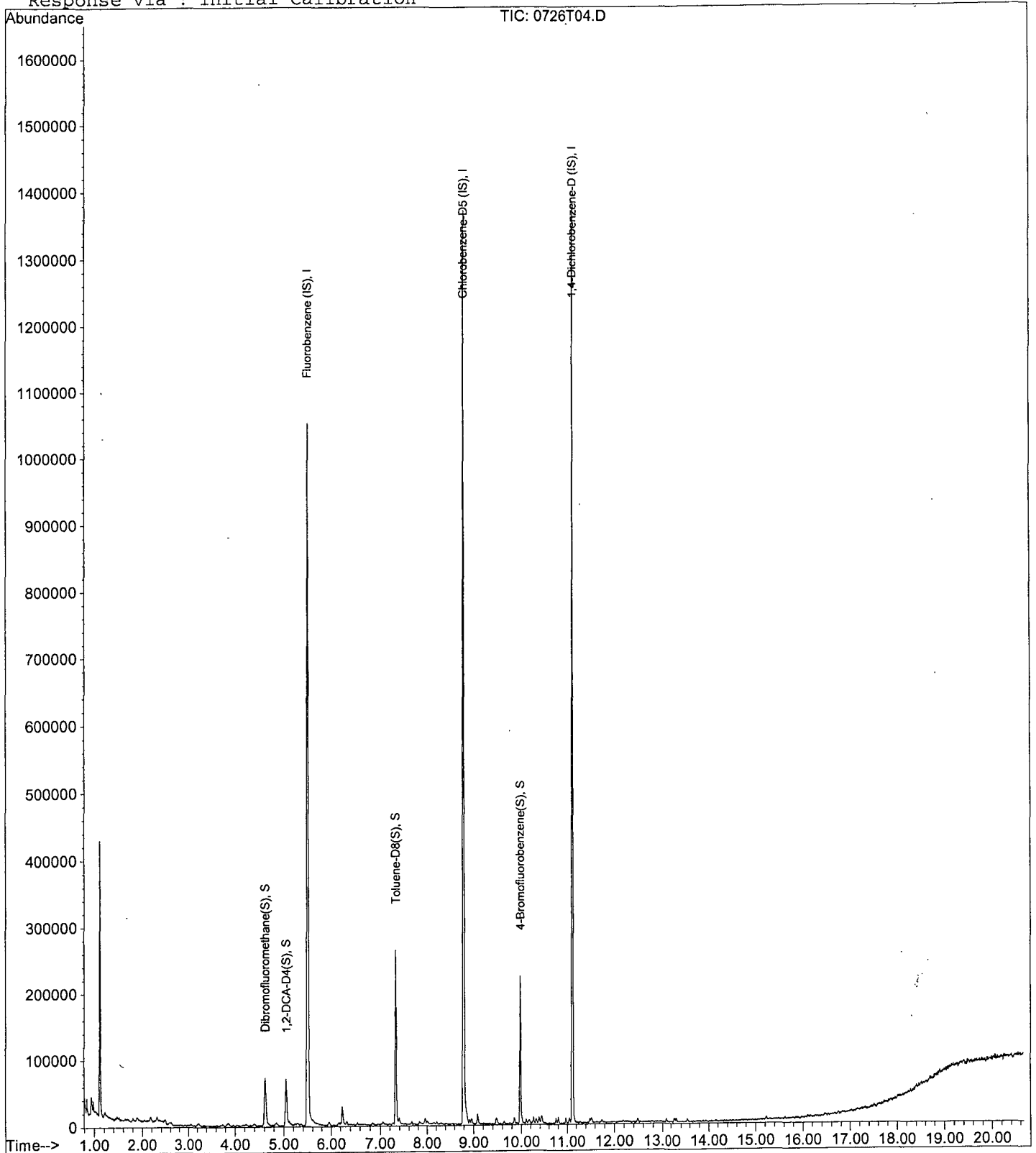
Data File : M:\THOR\DATA\T190726\0726T04.D
Acq On : 26 Jul 19 13:35
Sample : 0.3ug/L VOC STD 07/26/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 4
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:59 2019

Quant Results File: TSUR0726.RES

Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0726T05.D Vial: 5
 Acq On : 26 Jul 19 14:03 Operator:
 Sample : 0.5ug/L VOC STD 07/26/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:59 2019 Quant Results File: TSUR0726.RES

Quant Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	485632	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.79	117	475648	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.11	152	250048	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.62	111	46971	4.5747	ppb	0.00
Spiked Amount 25.000			Recovery =	18.300%		
3) 1,2-DCA-D4(S)	5.05	65	56371	4.8127	ppb	0.00
Spiked Amount 25.000			Recovery =	19.252%		
5) Toluene-D8(S)	7.32	98	166263	4.6372	ppb	0.00
Spiked Amount 25.000			Recovery =	18.548%		
6) 4-Bromofluorobenzene(S)	9.98	95	62740	4.5320	ppb	0.00
Spiked Amount 25.000			Recovery =	18.128%		

Target Compounds Qvalue

Quantitation Report

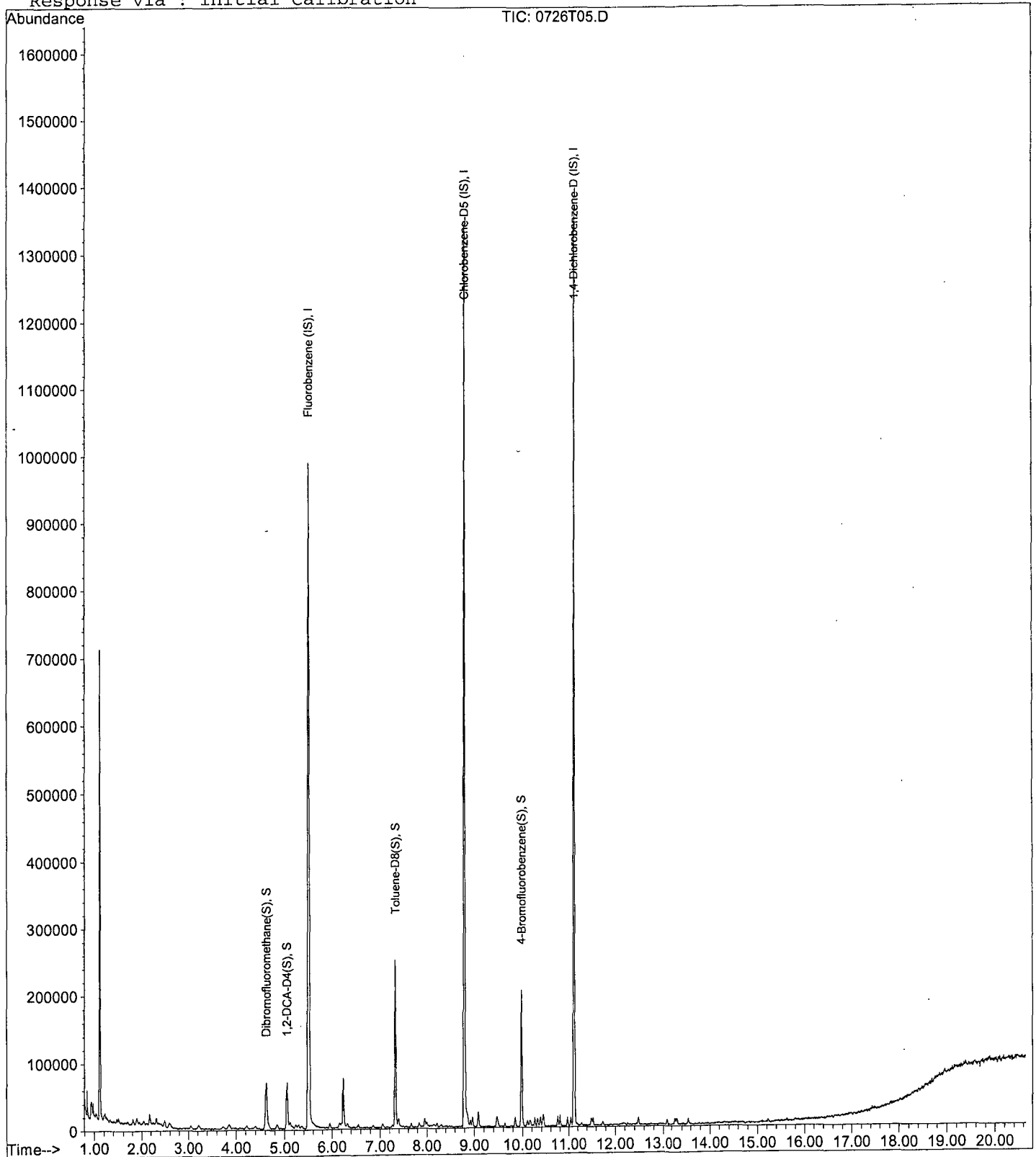
Data File : M:\THOR\DATA\T190726\0726T05.D
Acq On : 26 Jul 19 14:03
Sample : 0.5ug/L VOC STD 07/26/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 5
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:59 2019

Quant Results File: TSUR0726.RES

Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0726T06.D Vial: 6
 Acq On : 26 Jul 19 14:31 Operator:
 Sample : 1.0ug/L VOC STD 07/26/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:59 2019 Quant Results File: TSUR0726.RES

Quant Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	476864	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.79	117	470464	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.11	152	244032	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.62	111	114912	11.3975	ppb	0.00
Spiked Amount 25.000			Recovery =	45.588%		
3) 1,2-DCA-D4(S)	5.05	65	126665	11.0130	ppb	0.00
Spiked Amount 25.000			Recovery =	44.052%		
5) Toluene-D8(S)	7.32	98	402531	11.3506	ppb	0.00
Spiked Amount 25.000			Recovery =	45.404%		
6) 4-Bromofluorobenzene(S)	9.98	95	149088	10.8881	ppb	0.00
Spiked Amount 25.000			Recovery =	43.552%		

Target Compounds Qvalue

Quantitation Report

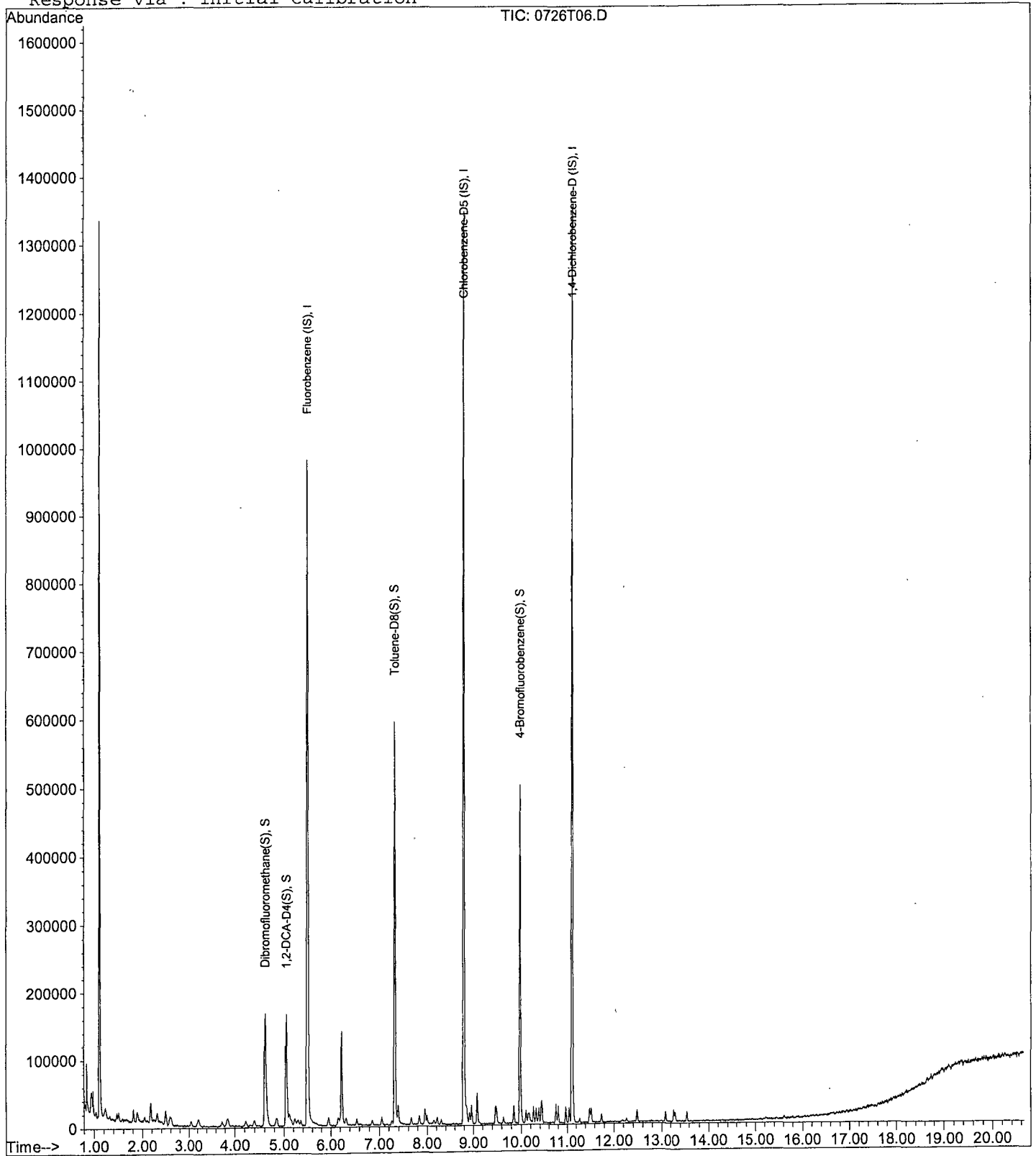
Data File : M:\THOR\DATA\T190726\0726T06.D
Acq On : 26 Jul 19 14:31
Sample : 1.0ug/L VOC STD 07/26/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 6
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:59 2019

Quant Results File: TSUR0726.RES

Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0726T07.D Vial: 7
 Acq On : 26 Jul 19 14:59 Operator:
 Sample : 2.0ug/L VOC STD 07/26/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:59 2019 Quant Results File: TSUR0726.RES

Quant Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	521088	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.79	117	525952	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.11	152	267392	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.62	111	119604	10.8560	ppb	0.00
Spiked Amount 25.000			Recovery =	43.424%		
3) 1,2-DCA-D4(S)	5.05	65	137925	10.9743	ppb	0.00
Spiked Amount 25.000			Recovery =	43.896%		
5) Toluene-D8(S)	7.32	98	422219	10.6497	ppb	0.00
Spiked Amount 25.000			Recovery =	42.600%		
6) 4-Bromofluorobenzene(S)	9.98	95	158657	10.3645	ppb	0.00
Spiked Amount 25.000			Recovery =	41.456%		

Target Compounds Qvalue

Quantitation Report

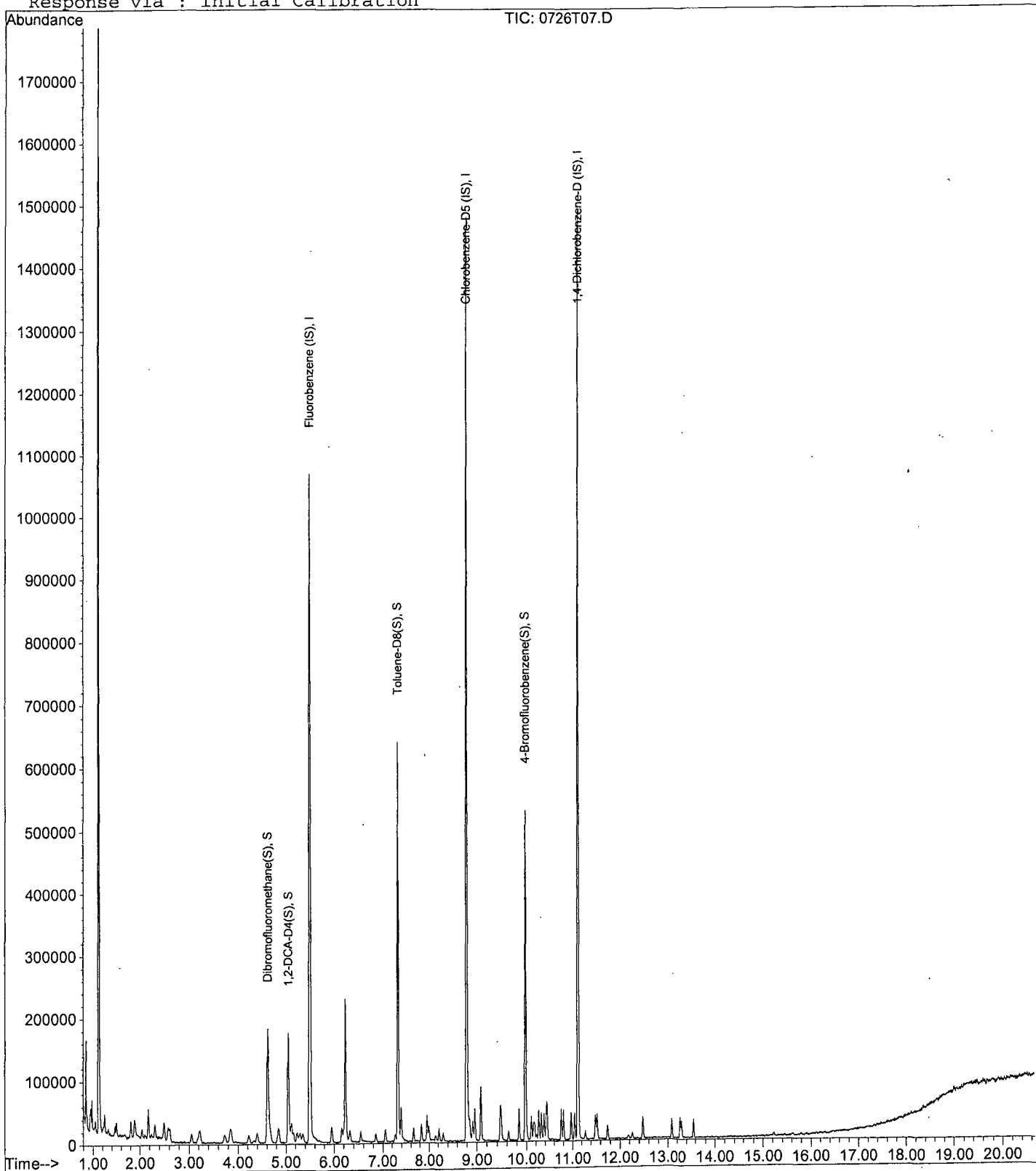
Data File : M:\THOR\DATA\T190726\0726T07.D
Acq On : 26 Jul 19 14:59
Sample : 2.0ug/L VOC STD 07/26/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 7
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:59 2019

Quant Results File: TSUR0726.RES

Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0726T08.D Vial: 8
 Acq On : 26 Jul 19 15:27 Operator:
 Sample : 5.0ug/L VOC STD 07/26/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:59 2019 Quant Results File: TSUR0726.RES

Quant Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	517952	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.79	117	528768	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.11	152	271168	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.62	111	319621	29.1866	ppb	0.00
Spiked Amount 25.000			Recovery =	116.748%		
3) 1,2-DCA-D4(S)	5.05	65	369788	29.6011	ppb	0.00
Spiked Amount 25.000			Recovery =	118.404%		
5) Toluene-D8(S)	7.32	98	1130014	28.3507	ppb	0.00
Spiked Amount 25.000			Recovery =	113.404%		
6) 4-Bromofluorobenzene(S)	9.98	95	428284	27.8292	ppb	0.00
Spiked Amount 25.000			Recovery =	111.316%		

Target Compounds Qvalue

Quantitation Report

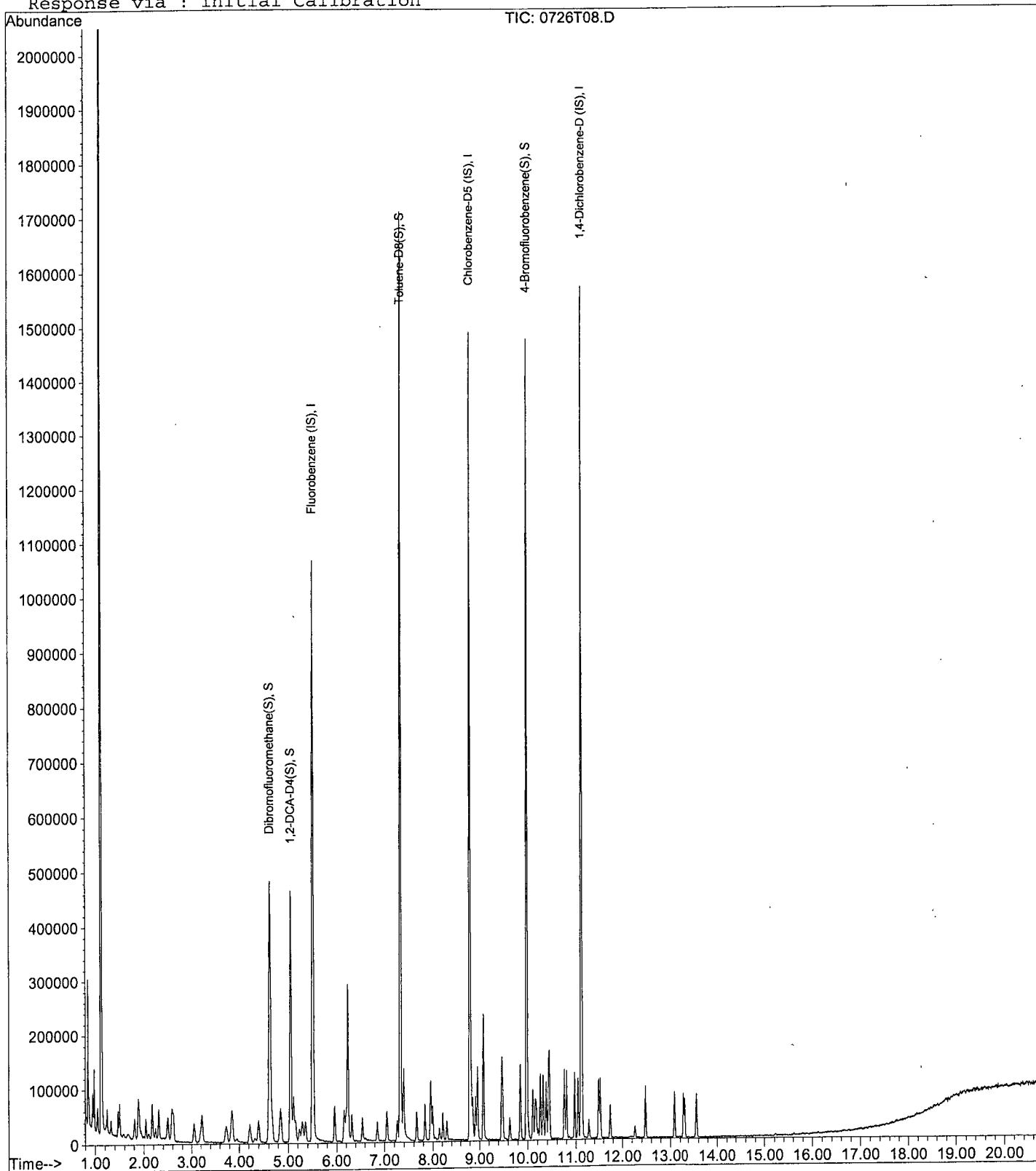
Data File : M:\THOR\DATA\T190726\0726T08.D
Acq On : 26 Jul 19 15:27
Sample : 5.0ug/L VOC STD 07/26/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 8
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:59 2019

Quant Results File: TSUR0726.RES

Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0726T09.D Vial: 9
 Acq On : 26 Jul 19 15:55 Operator:
 Sample : 10ug/L VOC STD 07/26/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:59 2019 Quant Results File: TSUR0726.RES

Quant Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	516096	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.79	117	513536	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.11	152	275520	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.62	111	244604	22.4166	ppb	0.00
Spiked Amount 25.000			Recovery =	89.668%		
3) 1,2-DCA-D4(S)	5.05	65	280529	22.5368	ppb	0.00
Spiked Amount 25.000			Recovery =	90.148%		
5) Toluene-D8(S)	7.32	98	857337	22.1476	ppb	0.00
Spiked Amount 25.000			Recovery =	88.592%		
6) 4-Bromofluorobenzene(S)	9.98	95	328447	21.9750	ppb	0.00
Spiked Amount 25.000			Recovery =	87.900%		

Target Compounds Qvalue

Quantitation Report

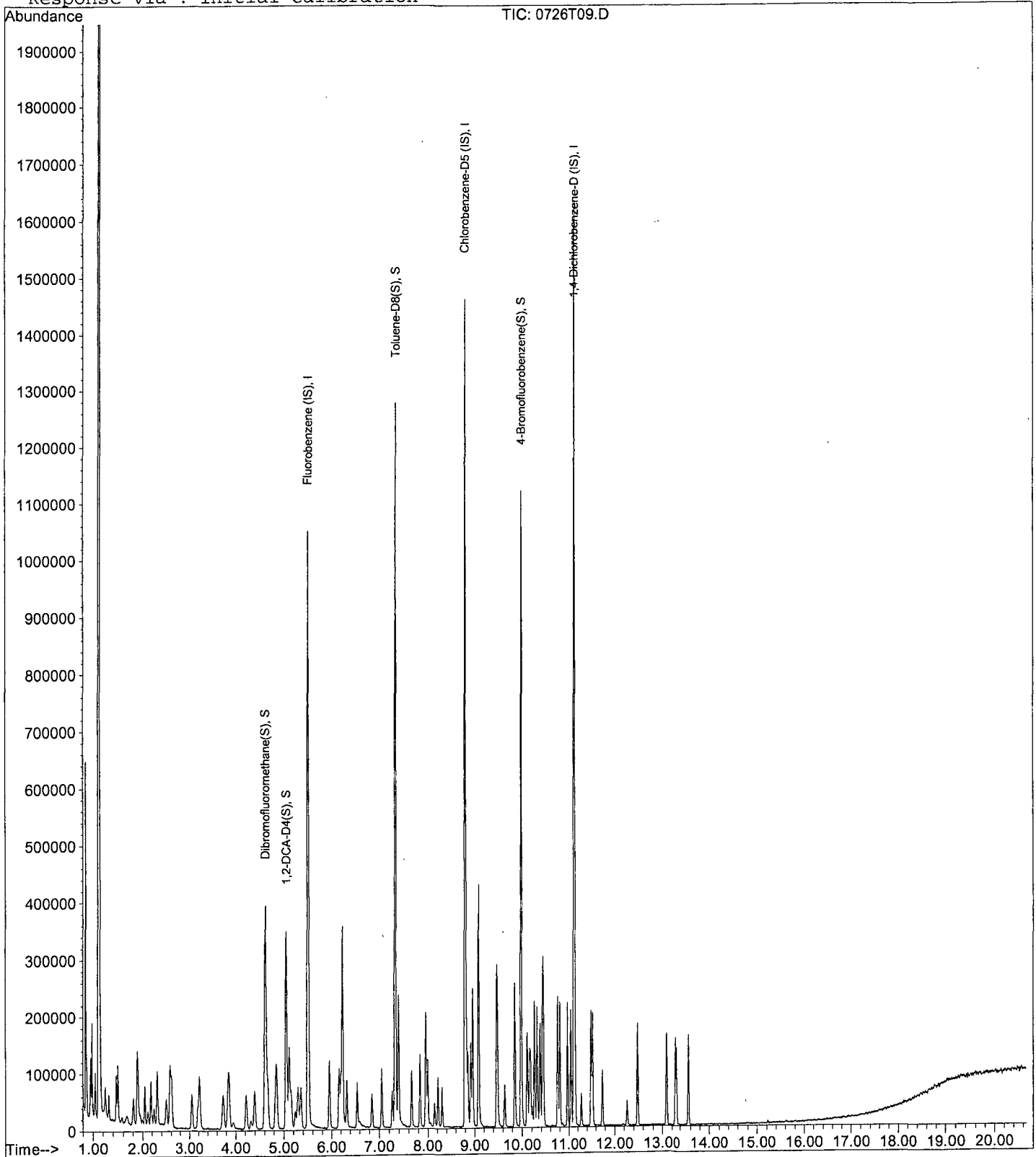
Data File : M:\THOR\DATA\T190726\0726T09.D
Acq On : 26 Jul 19 15:55
Sample : 10ug/L VOC STD 07/26/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 9
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:59 2019

Quant Results File: TSUR0726.RES

Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0726T10.D
 Acq On : 26 Jul 19 16:24
 Sample : 20ug/L VOC STD 07/26/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 10
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 30 9:59 2019

Quant Results File: TSUR0726.RES

Quant Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	469568	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.79	117	465088	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.11	152	276672	25.0000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.62	111	486727	49.0257	ppb	0.00
Spiked Amount	25.000		Recovery	=	196.104%	
3) 1,2-DCA-D4(S)	5.05	65	545002	48.1220	ppb	0.00
Spiked Amount	25.000		Recovery	=	192.488%	
5) Toluene-D8(S)	7.32	98	1706063	48.6637	ppb	0.00
Spiked Amount	25.000		Recovery	=	194.656%	
6) 4-Bromofluorobenzene(S)	9.98	95	684366	50.5578	ppb	0.00
Spiked Amount	25.000		Recovery	=	202.232%	

Target Compounds

Qvalue

Quantitation Report

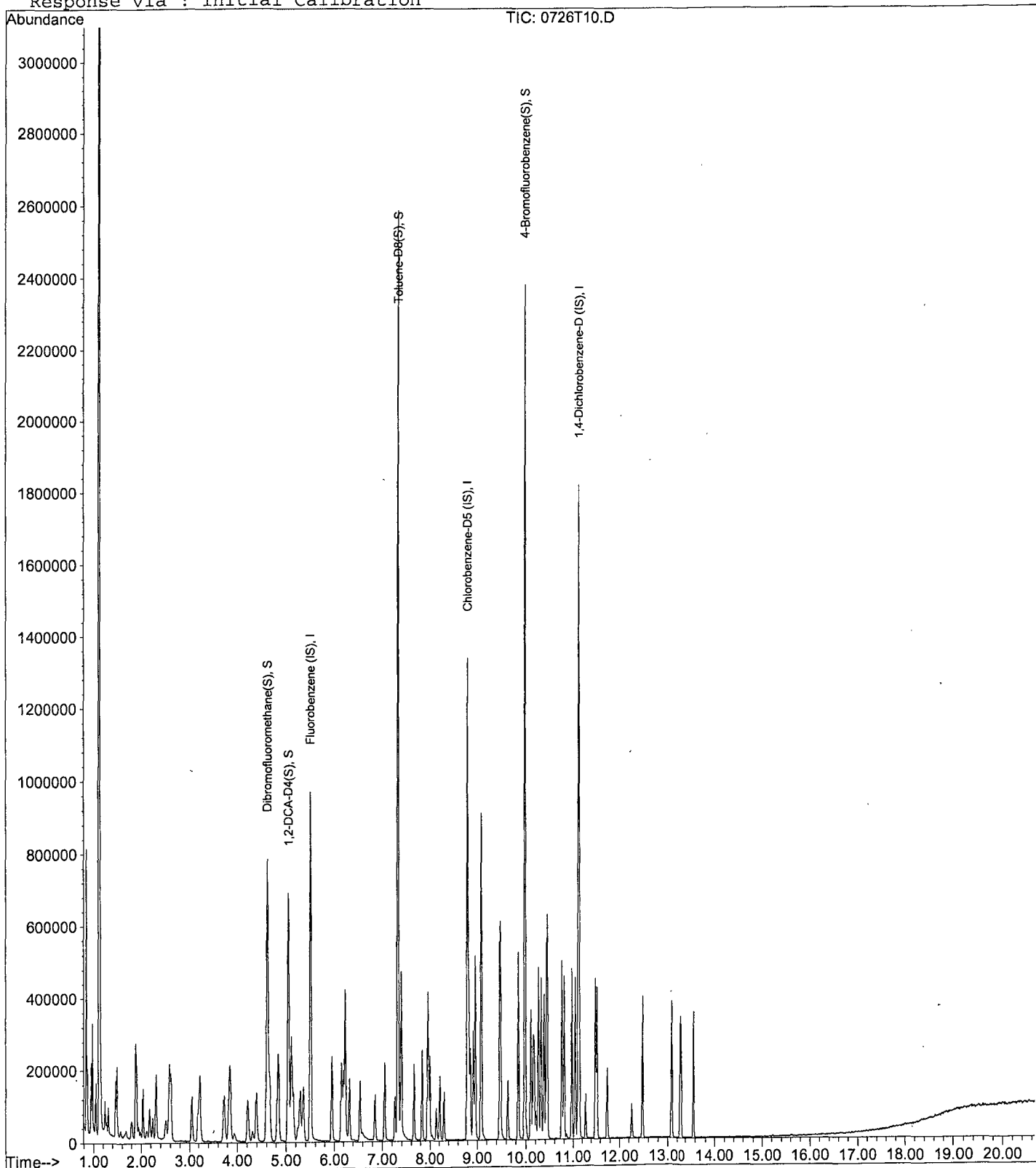
Data File : M:\THOR\DATA\T190726\0726T10.D
Acq On : 26 Jul 19 16:24
Sample : 20ug/L VOC STD 07/26/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 10
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:59 2019

Quant Results File: TSUR0726.RES

Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0726T12.D Vial: 12
 Acq On : 26 Jul 19 17:20 Operator:
 Sample : 100ug/L VOC STD 07/26/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:59 2019 Quant Results File: TSUR0726.RES

Quant Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	470528	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.79	117	451200	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.11	152	300928	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.62	111	908679	91.3402	ppb	0.00
Spiked Amount 25.000			Recovery =	365.360%		
3) 1,2-DCA-D4(S)	5.05	65	1022857	90.1309	ppb	0.00
Spiked Amount 25.000			Recovery =	360.524%		
5) Toluene-D8(S)	7.32	98	3125296	91.8898	ppb	0.00
Spiked Amount 25.000			Recovery =	367.560%		
6) 4-Bromofluorobenzene(S)	9.98	95	1340065	102.0449	ppb	0.00
Spiked Amount 25.000			Recovery =	408.180%		

Target Compounds Qvalue

Quantitation Report

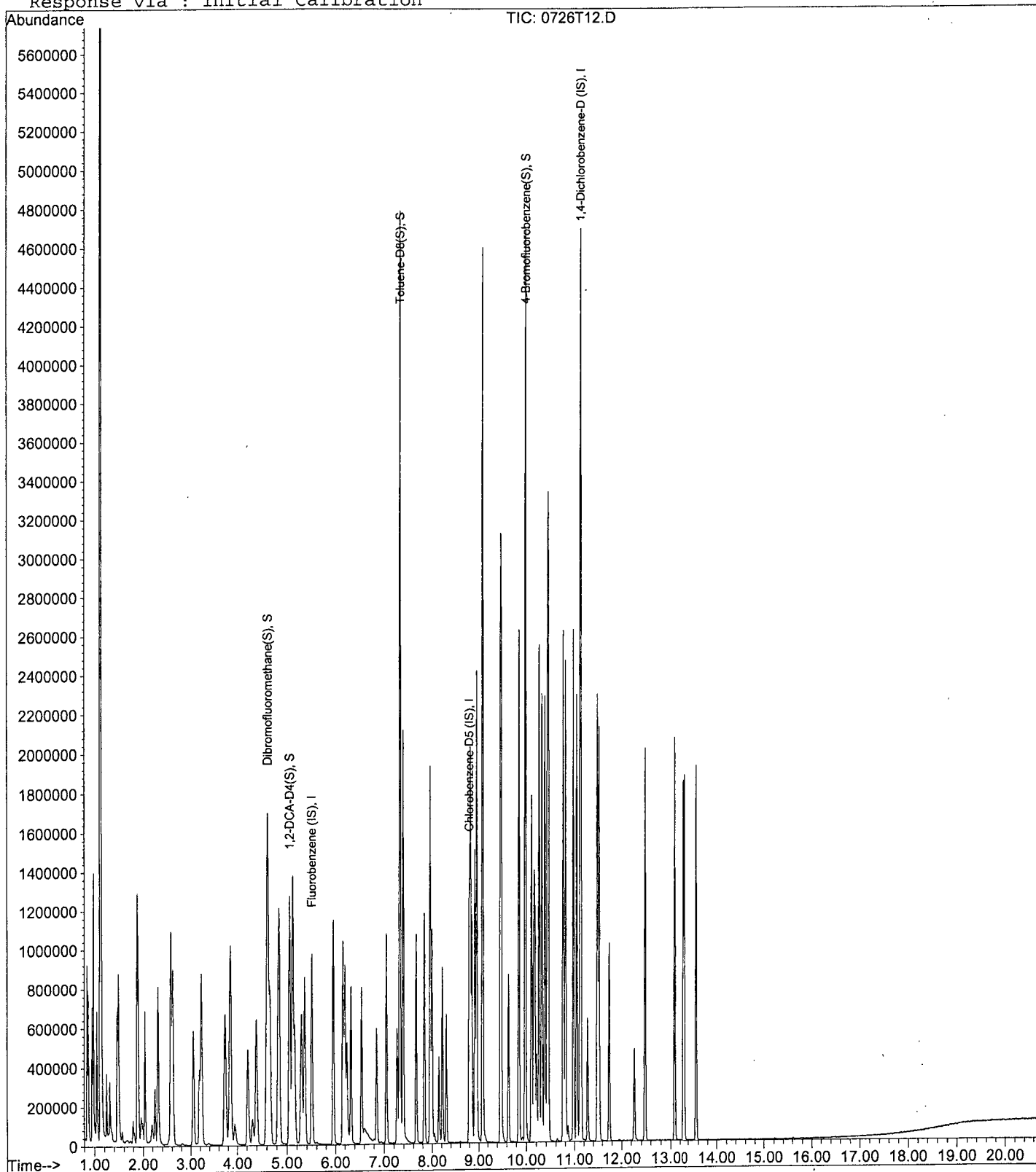
Data File : M:\THOR\DATA\T190726\0726T12.D
Acq On : 26 Jul 19 17:20
Sample : 100ug/L VOC STD 07/26/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 12
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:59 2019

Quant Results File: TSUR0726.RES

Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/29/19
Instrument: Thor

Initials: DP LR

0729T07.D 0729T08.D 0729T09.D 0729T10.D 0729T11.D 0729T12.D 0729T13.D

1	Compound	1	2	3	4	5	6	7				Avg	%RSD	Type	r^2	q	MRF
1	Fluorobenzene (IS)																
2	TMHBL Gasoline C6-C10	15.3	5.605	2.936	1.288	0.8227	0.7011	0.6296				3.9	137	TMHBL	0.991		
3	Chlorobenzene-D5 (IS)																
4	1,4-Dichlorobenzene-D (IS)																
5																	
6																	
7																	
8																	
9																	
10																	
11																	
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35																	

Data File : M:\THOR\DATA\T190726\0729T07.D Vial: 7
 Acq On : 29 Jul 19 11:30 Operator:
 Sample : 20ug/L GAS STD 07/29/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:43 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:41:37 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.94	TIC	824552	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.70	TIC	1356871	25.0000	ppb	-0.10
4) 1,4-Dichlorobenzene-D (IS)	11.09	TIC	1400587	25.0000	ppb	-0.02

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.70	TIC	10095006m	111.9185	ppb	100

Quantitation Report

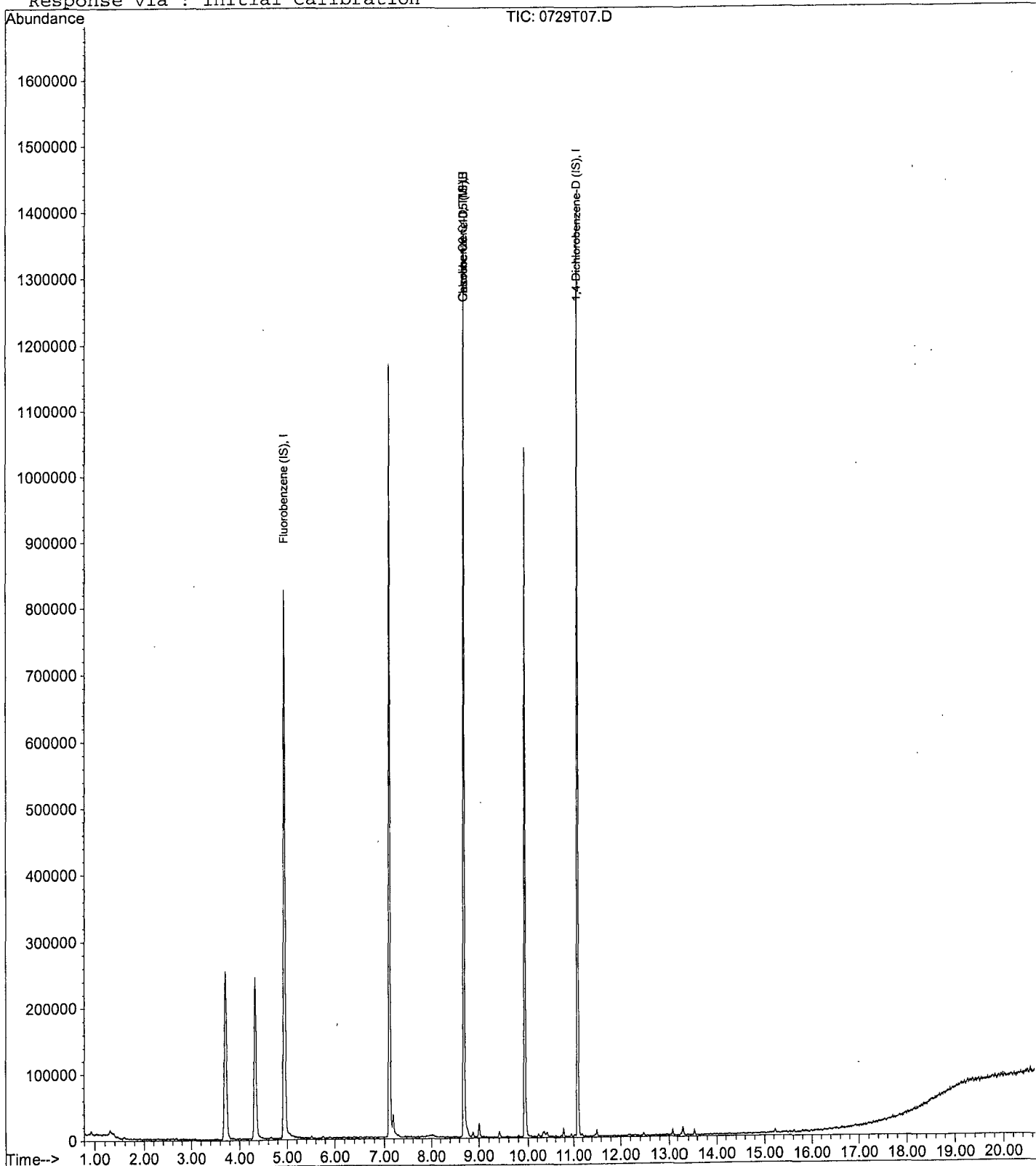
Data File : M:\THOR\DATA\T190726\0729T07.D
Acq On : 29 Jul 19 11:30
Sample : 20ug/L GAS STD 07/29/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 7
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:43 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T08.D Vial: 8
 Acq On : 29 Jul 19 11:57 Operator:
 Sample : 50ug/L GAS STD 07/29/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:40 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:36:38 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	961592	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1332586	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1332589	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.79	TIC	10779166m	159.0952	ppb	100

Quantitation Report

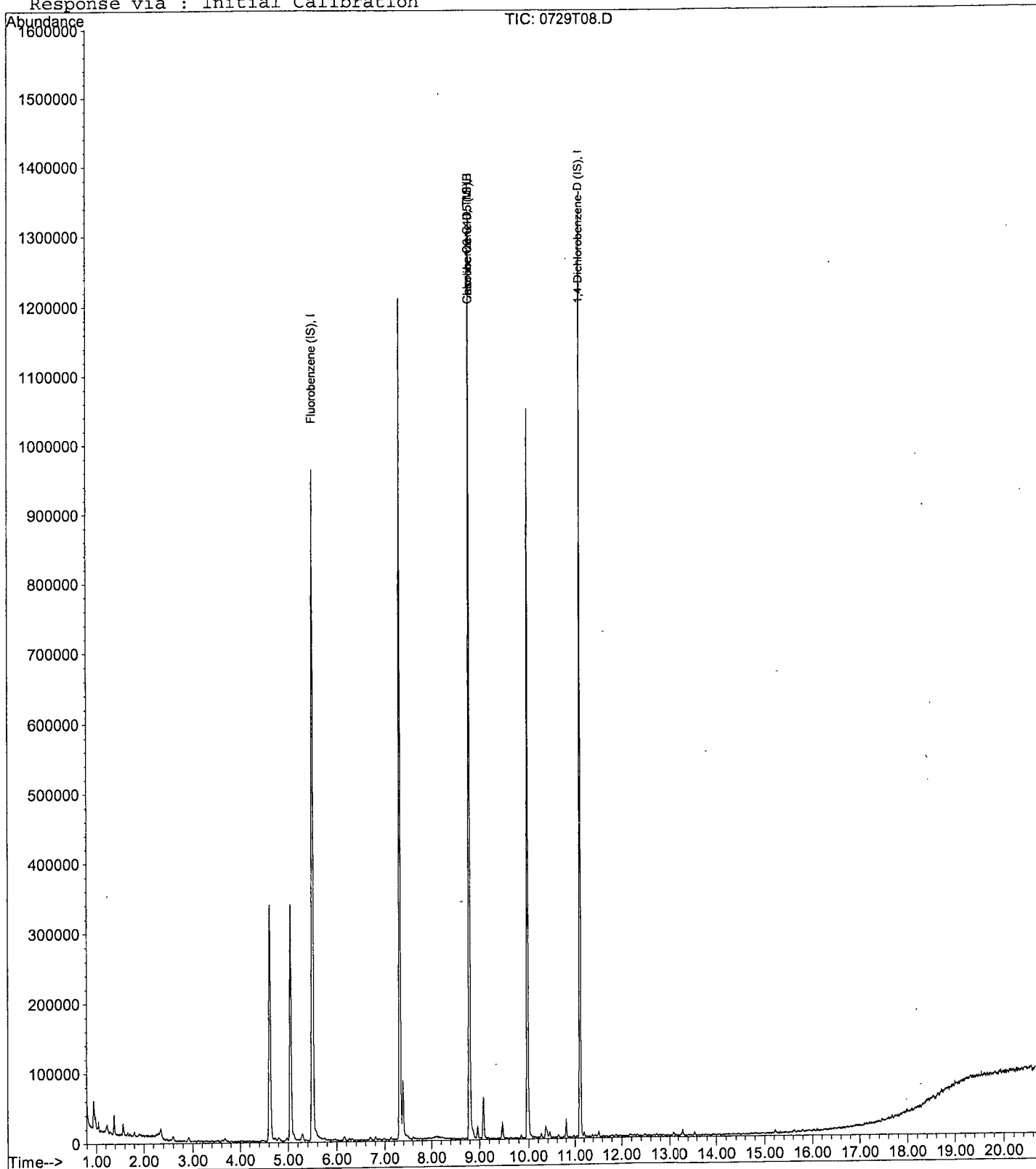
Data File : M:\THOR\DATA\T190726\0729T08.D
Acq On : 29 Jul 19 11:57
Sample : 50ug/L GAS STD 07/29/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 8
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:40 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T09.D Vial: 9
 Acq On : 29 Jul 19 12:25 Operator:
 Sample : 100ug/L GAS STD 07/29/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:40 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:36:38 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	992106	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1336771	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1363693	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.79	TIC	11652728m	193.4339	ppb	100

Quantitation Report

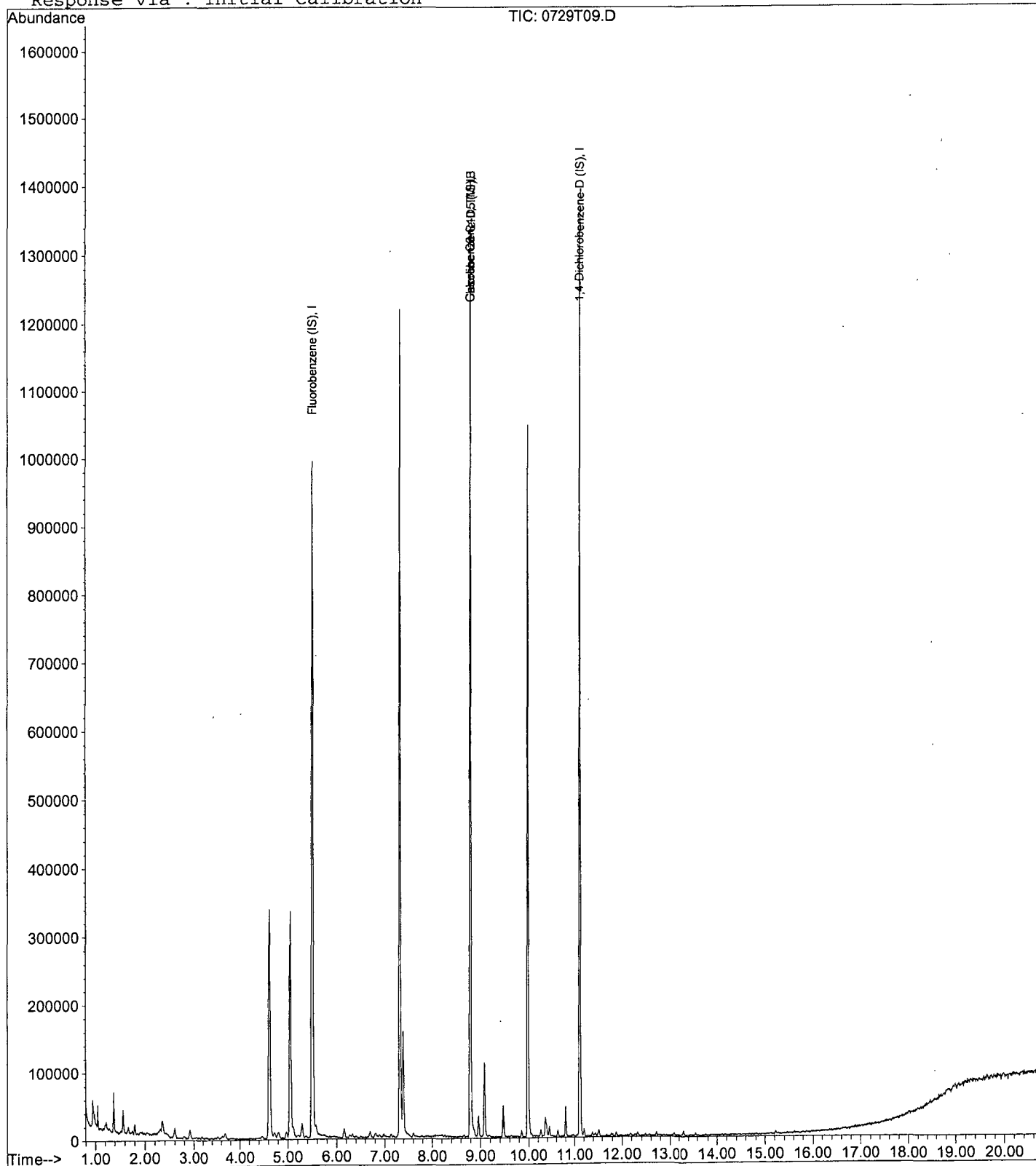
Data File : M:\THOR\DATA\T190726\0729T09.D
Acq On : 29 Jul 19 12:25
Sample : 100ug/L GAS STD 07/29/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 9
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:40 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T10.D Vial: 10
 Acq On : 29 Jul 19 12:53 Operator:
 Sample : 300ug/L GAS STD 07/29/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:39 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:36:38 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	986267	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1333798	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1392591	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	7.32	TIC	15244145m	431.2920	ppb	100

Quantitation Report

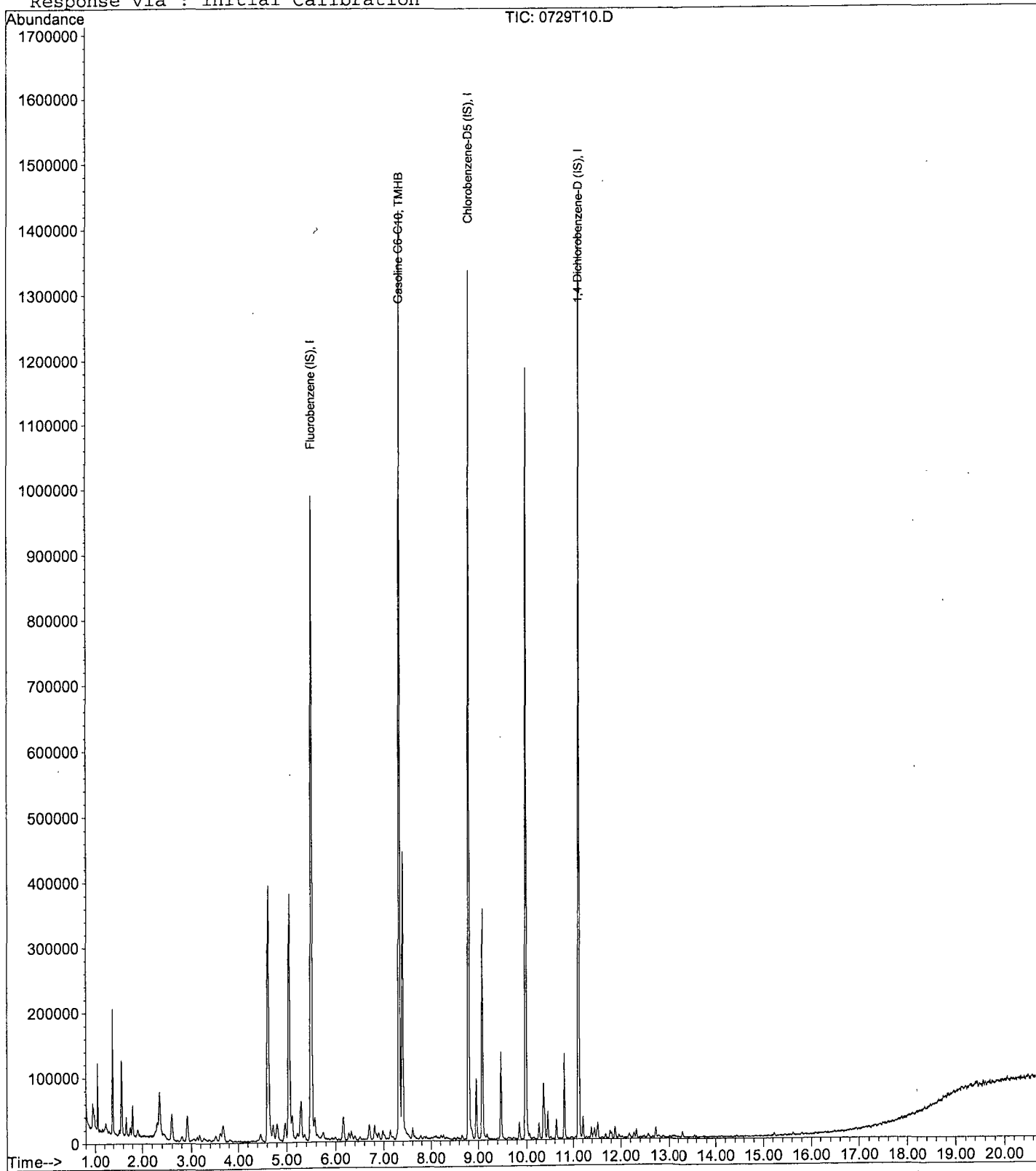
Data File : M:\THOR\DATA\T190726\0729T10.D
Acq On : 29 Jul 19 12:53
Sample : 300ug/L GAS STD 07/29/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 10
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:39 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T11.D Vial: 11
 Acq On : 29 Jul 19 13:21 Operator:
 Sample : 600ug/L GAS STD 07/29/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:39 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:36:38 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	970215	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1309357	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1343197	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	7.32	TIC	19155547m	706.0849	ppb	100

Quantitation Report

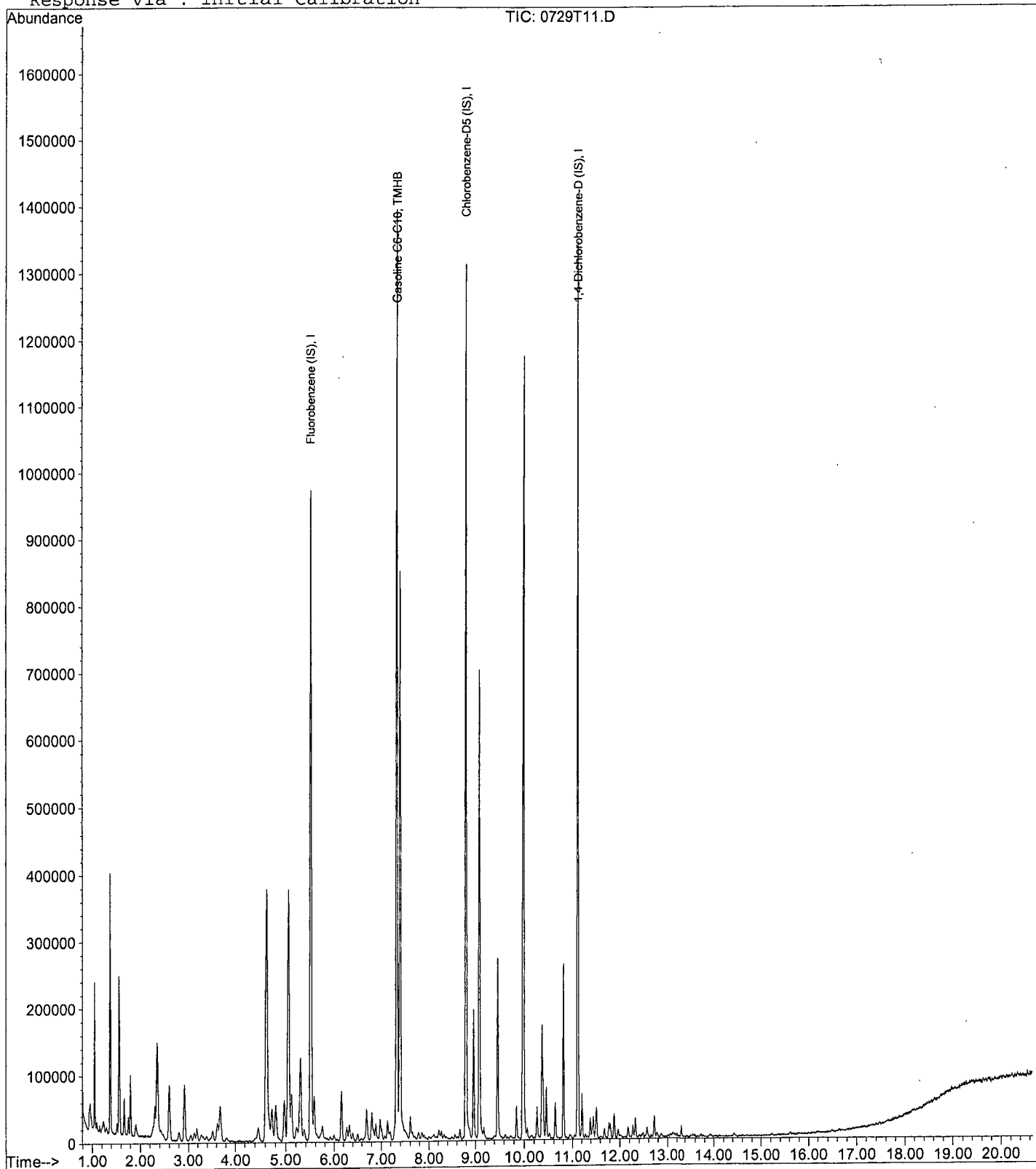
Data File : M:\THOR\DATA\T190726\0729T11.D
Acq On : 29 Jul 19 13:21
Sample : 600ug/L GAS STD 07/29/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 11
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:39 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T12.D Vial: 12
 Acq On : 29 Jul 19 13:50 Operator:
 Sample : 800ug/L GAS STD 07/29/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:38 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:36:38 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	965531	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1326588	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1372302	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.79	TIC	21661828m	878.6017	ppb	100

Quantitation Report

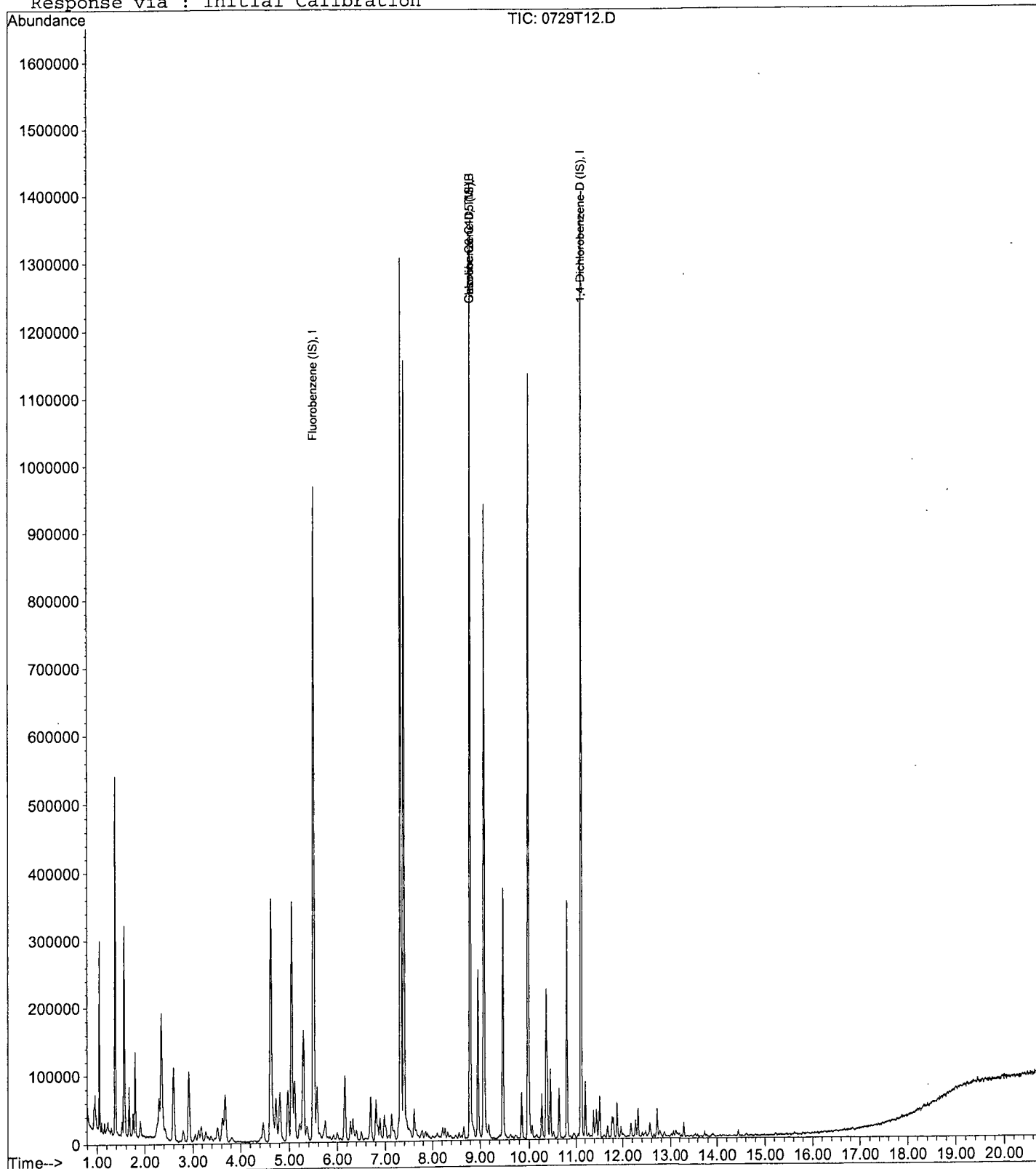
Data File : M:\THOR\DATA\T190726\0729T12.D
Acq On : 29 Jul 19 13:50
Sample : 800ug/L GAS STD 07/29/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 12
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:38 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T13.D Vial: 13
 Acq On : 29 Jul 19 14:18 Operator:
 Sample : 1000ug/L GAS STD 07/29/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:37 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:36:38 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	944837	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1305243	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1343908	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	7.39	TIC	23793184m	1054.6846	ppb	100

Quantitation Report

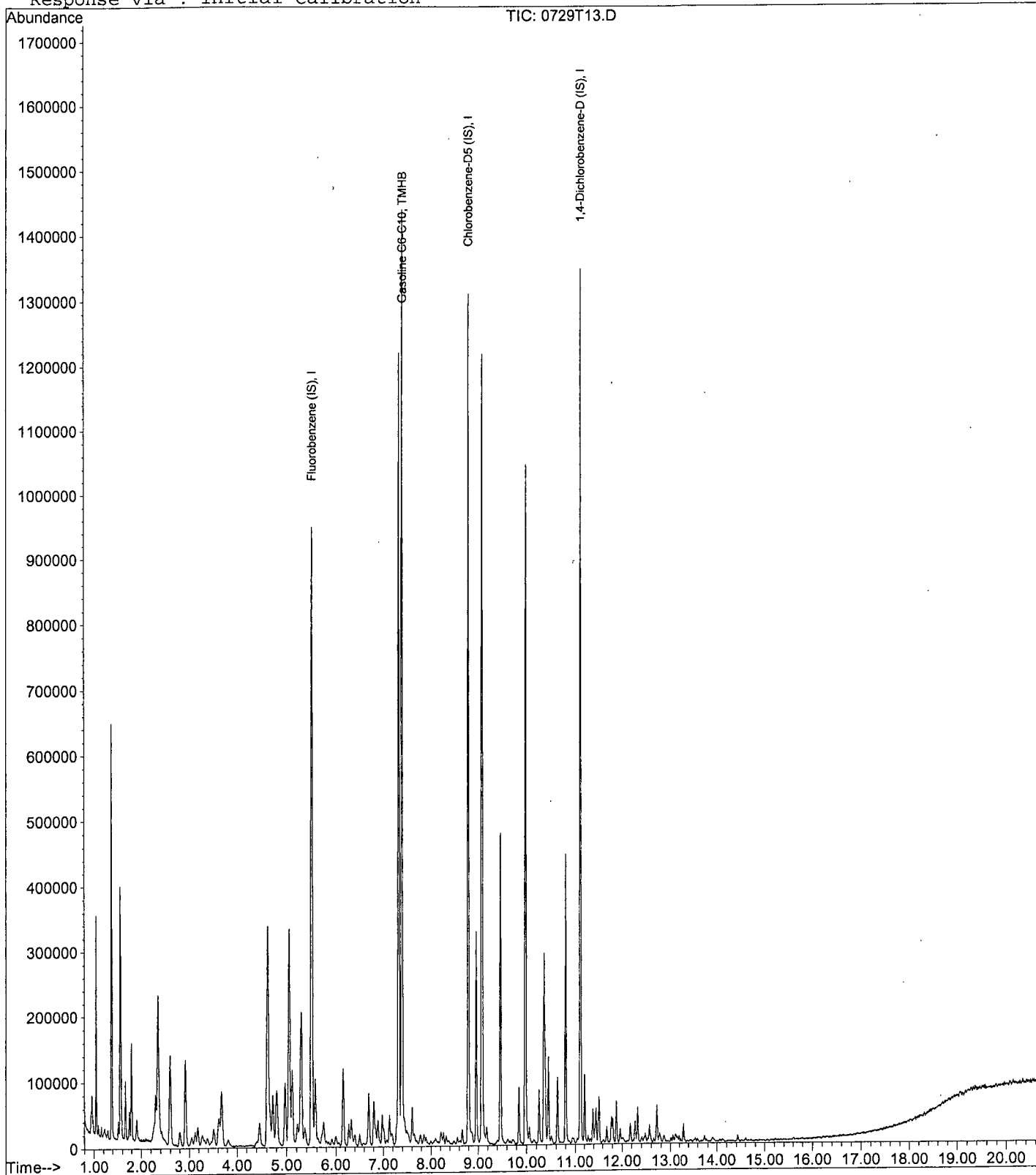
Data File : M:\THOR\DATA\T190726\0729T13.D
Acq On : 29 Jul 19 14:18
Sample : 1000ug/L GAS STD 07/29/19
Misc : IS&S 7/6/19, 6/2/19

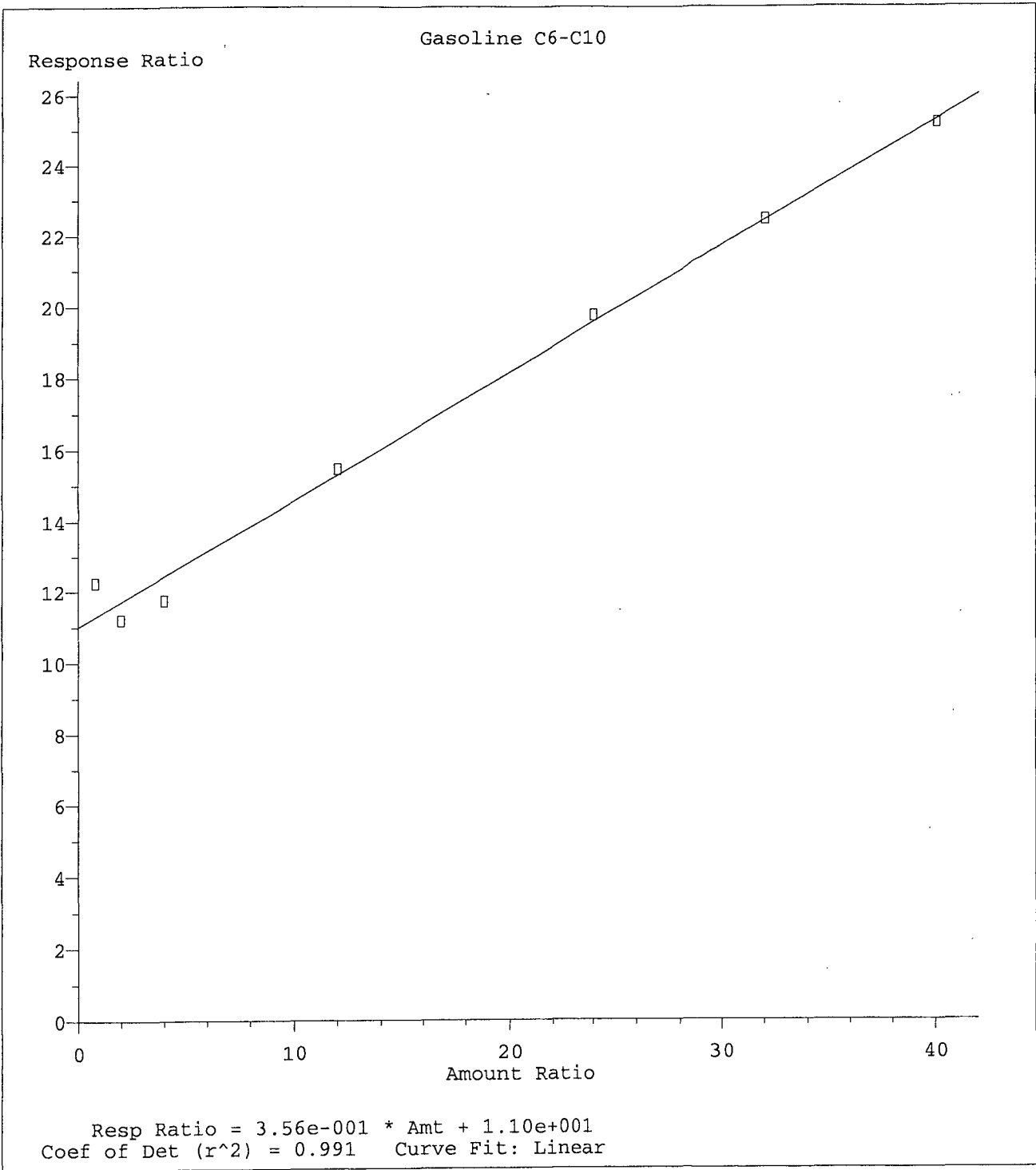
Vial: 13
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:37 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration





Method Name: M:\THOR\DATA\T190726\TGAS729.M
Calibration Table Last Updated: Tue Jul 30 09:43:35 2019

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/29/19
Instrument: Thor
Initial Cal. Date: 07/29/19
Data File: 0729T15.D

	Compound	MEAN	CCRF	%D	%Drift
1	TMHB Gasoline C6-C10	3.898	1.237	68	TMHBL 10
2					
3					
4					
5					
6					
7					
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36					
37					
38					
39					
40	Average			68.0	

Data File : M:\THOR\DATA\T190726\0729T15.D Vial: 15
Acq On : 29 Jul 19 15:14 Operator:
Sample : SS 300ug/L GAS STD 07/29/19 Inst : Thor
Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:45 2019

Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration
DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	952929	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1284649	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1335531	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.79	TIC	14146757m	268.7713	ppb	100

Quantitation Report

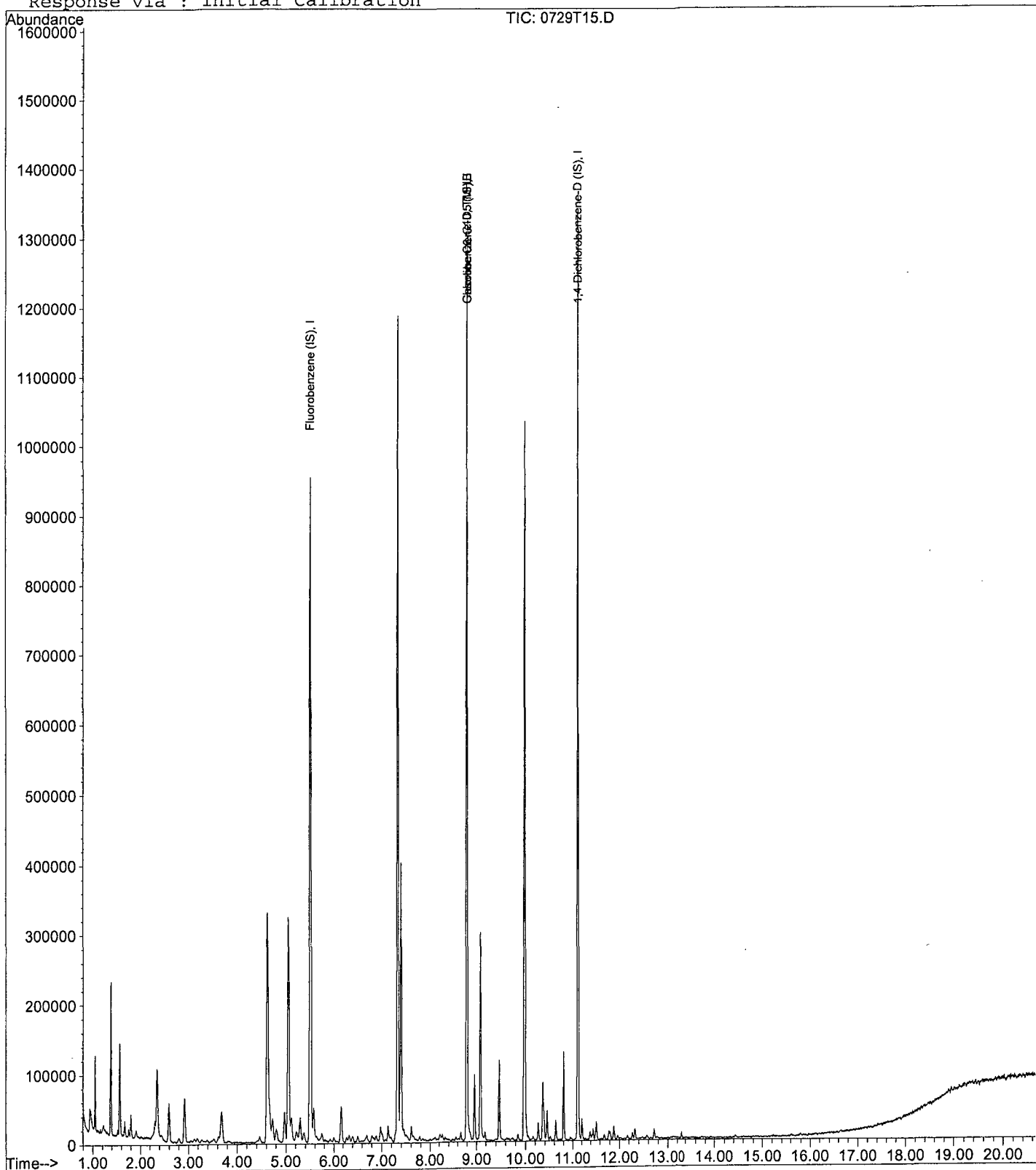
Data File : M:\THOR\DATA\T190726\0729T15.D
Acq On : 29 Jul 19 15:14
Sample : SS 300ug/L GAS STD 07/29/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 15
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:45 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 7/29/2019
Instrument: Thor
Initial Cal. Date: 7/29/2019
Data File: 0729T15.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Fluorobenzene (IS)	ISTD			I
2	TMHB Gasoline C6-C10	3.898	1.237	68	TMHBL 10
3	I Chlorobenzene-D5 (IS)	ISTD			I
4	I 1,4-Dichlorobenzene-D (IS)	ISTD			I
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40	Average			68.0	

Data File : M:\THOR\DATA\T190726\0729T15.D Vial: 15
 Acq On : 29 Jul 19 15:14 Operator:
 Sample : SS 300ug/L GAS STD 07/29/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:45 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:43:35 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	952929	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1284649	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1335531	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.79	TIC	14146757m	268.77128	ppb	100

Quantitation Report

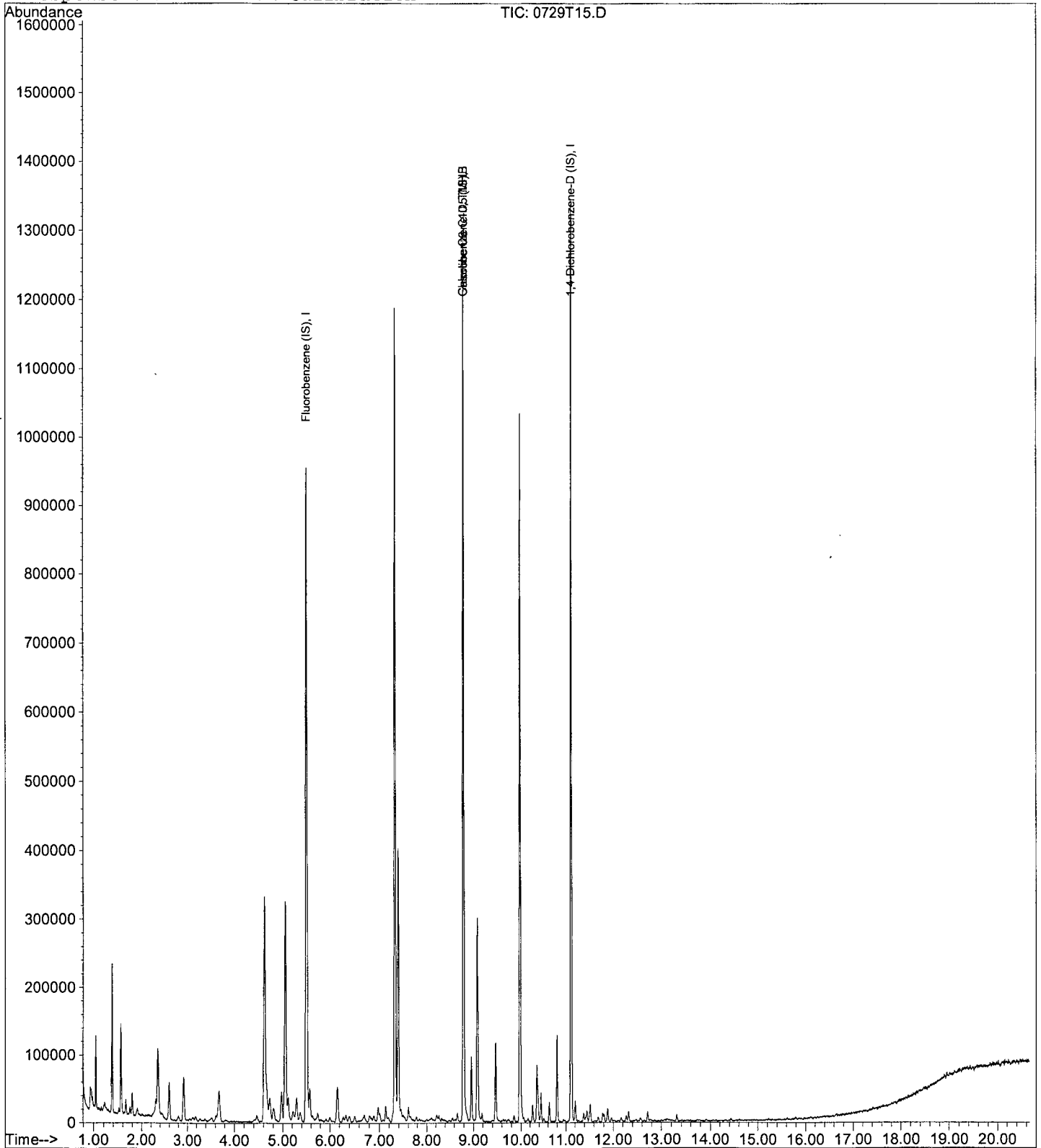
Data File : M:\THOR\DATA\T190726\0729T15.D
Acq On : 29 Jul 19 15:14
Sample : SS 300ug/L GAS STD 07/29/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 15
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:45 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190810\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 07/29/19

Matrix: _____

Instrument: Thor

Initial Cal. Date: 07/29/19

Data File: 0729T17.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	Fluorobenzene (IS)	ISTD			I
2	TMHB	Gasoline C6-C10	3.898	1.221	69	TMHBL .15
3	I	Chlorobenzene-D5 (IS)	ISTD			I
4	I	1,4-Dichlorobenzene-D (IS)	ISTD			I
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40		Average			69.0	

Data File : M:\THOR\DATA\T190726\0729T17.D Vial: 17
 Acq On : 29 Jul 19 16:11 Operator:
 Sample : 190729B CCV 300ug/L Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:55 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:43:35 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.50	TIC	945049	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1265610	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1296096	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.79	TIC	13845956m	255.13065	ppb	100

Quantitation Report

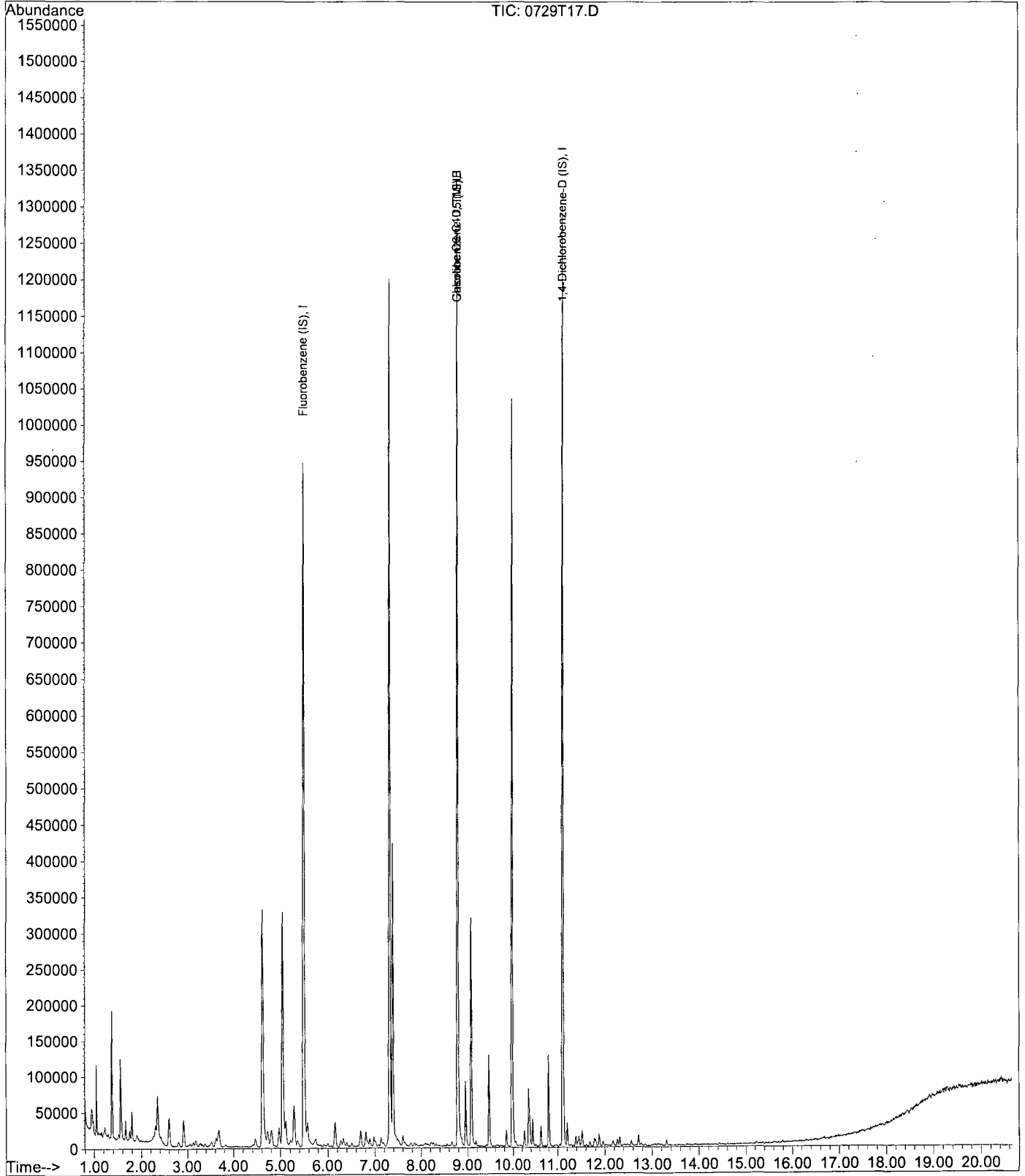
Data File : M:\THOR\DATA\T190726\0729T17.D
Acq On : 29 Jul 19 16:11
Sample : 190729B CCV 300ug/L
Misc : IS&S 7/6/19, 6/2/19

Vial: 17
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:55 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 07/30/19

Matrix: _____

Instrument: Thor

Initial Cal. Date: 07/29/19

Data File: 0729T41.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	TMHB	Gasoline C6-C10	3.898	1.198	69	TMHBL	21
3	I	Chlorobenzene-D5 (IS)	ISTD			I	
4	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
5							
6							
7							
8							
9							
10							
11							
12							
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33							
34							
35							
36							
37							
38							
39							
40							

Average

69.0

Data File : M:\THOR\DATA\T190726\0729T41.D Vial: 41
 Acq On : 30 Jul 19 3:25 Operator:
 Sample : Ending CCV 300ug/L 7/29/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:57 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:43:35 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	899948	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1238579	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1284232	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.79	TIC	12941651m	236.15343	ppb	100

Quantitation Report

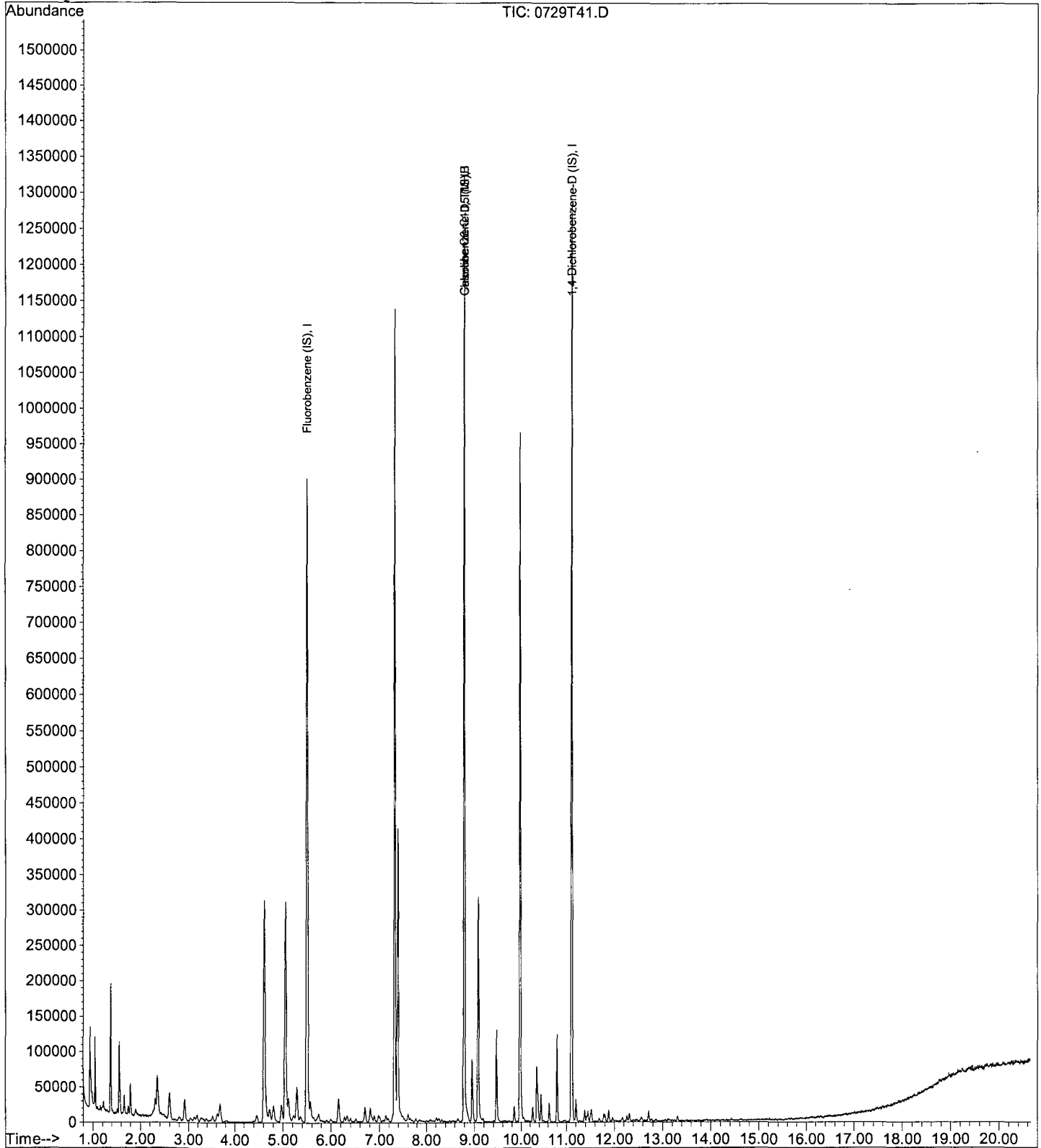
Data File : M:\THOR\DATA\T190726\0729T41.D
Acq On : 30 Jul 19 3:25
Sample : Ending CCV 300ug/L 7/29/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 41
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:57 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190810\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



ORGANICS
Raw Data

Data File : M:\LOKI\DATA\190724\0727L32.D Vial: 32
 Acq On : 28 Jul 19 00:40 Operator:
 Sample : AZ95328W01 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Jul 29 16:14 2019 Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Wed Jul 17 12:32:37 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	340908	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	438739	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	402473	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\LOKI\DATA\190724\0727L32.D
 Acq On : 28 Jul 19 00:40
 Sample : AZ95328W01
 Misc : IS&S 7/15/19,6/5/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 29 17:21 2019

Vial: 32
 Operator:
 Inst : Loki
 Multiplr: 1.00000

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	172672	25.00000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	161280	25.00000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	78696	25.00000	ppb	0.00

System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	83737	27.37876	ppb	0.00
Spiked Amount	25.000		Recovery	= 109.516%		
44) 1,2-DCA-D4(S)	5.25	65	84092	26.77847	ppb	0.00
Spiked Amount	25.000		Recovery	= 107.112%		
65) Toluene-D8(S)	7.63	98	242133	24.70968	ppb	0.00
Spiked Amount	25.000		Recovery	= 98.840%		
73) 4-Bromofluorobenzene(S)	10.54	95	74937	22.11773	ppb	0.00
Spiked Amount	25.000		Recovery	= 88.472%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0727L32.D L0724W.M Thu Aug 15 09:46:54 2019

Quantitation Report

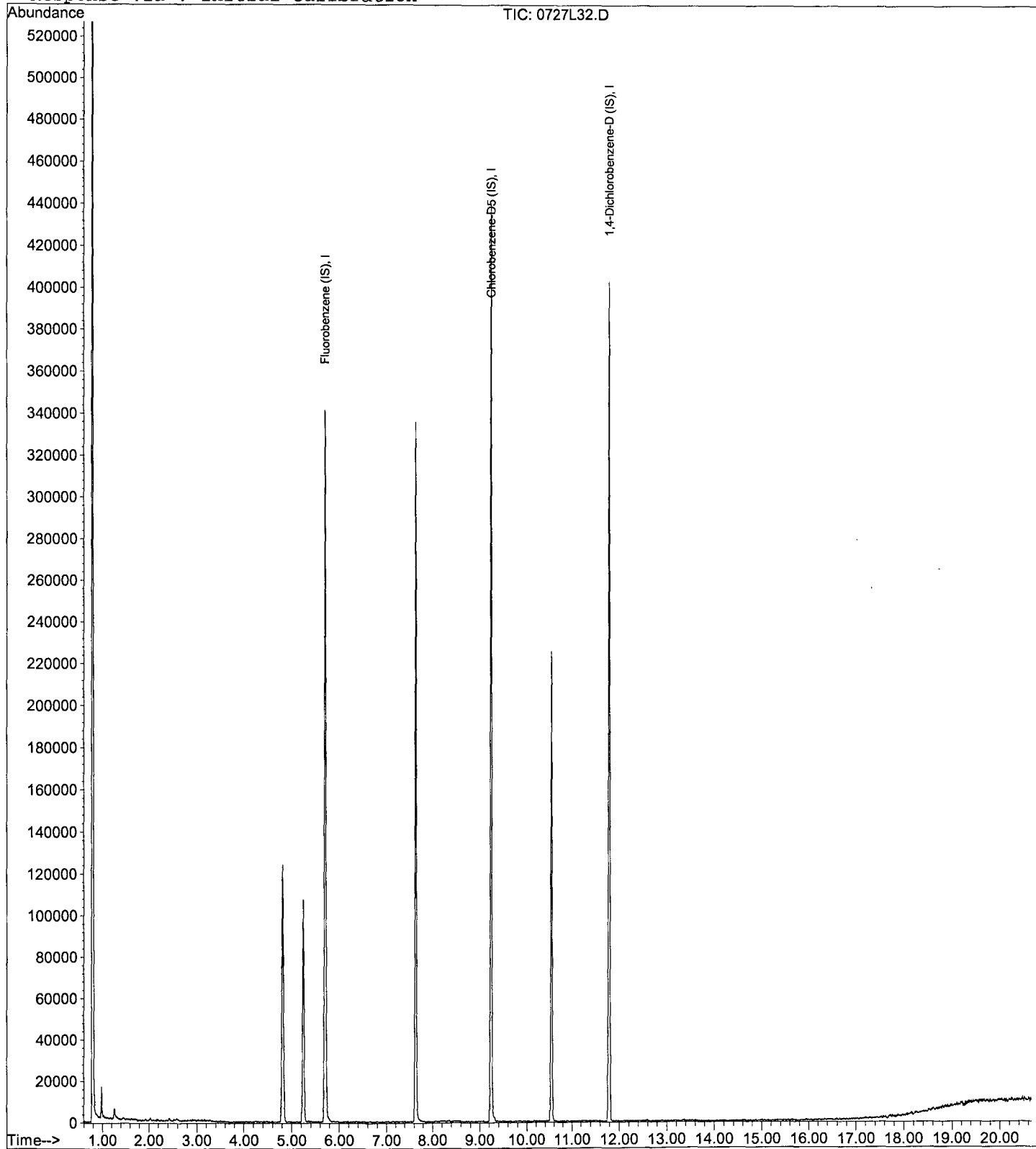
Data File : M:\LOKI\DATA\190724\0727L32.D
Acq On : 28 Jul 19 00:40
Sample : AZ95328W01
Misc : IS&S 7/15/19,6/5/19

Vial: 32
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 16:14 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0727L33.D
 Acq On : 28 Jul 19 1:09
 Sample : AZ95329W01
 Misc : IS&S 7/15/19,6/5/19

Vial: 33
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 16:14 2019

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Wed Jul 17 12:32:37 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	321496	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	442993	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	485159	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	3201311m	78.83649	ppb	100

Data File : M:\LOKI\DATA\190724\0727L33.D
 Acq On : 28 Jul 19 1:09
 Sample : AZ95329W01
 Misc : IS&S 7/15/19,6/5/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 29 17:22 2019

Vial: 33
 Operator:
 Inst : Loki
 Multiplr: 1.00000

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	164096	25.00000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	167680	25.00000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	96248	25.00000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	78204	26.90601	ppb	0.00
Spiked Amount	25.000		Recovery	=	107.624%	
44) 1,2-DCA-D4(S)	5.25	65	76278	25.55962	ppb	0.00
Spiked Amount	25.000		Recovery	=	102.240%	
65) Toluene-D8(S)	7.63	98	220482	21.64141	ppb	0.00
Spiked Amount	25.000		Recovery	=	86.564%	
73) 4-Bromofluorobenzene(S)	10.53	95	81370	23.09978	ppb	0.00
Spiked Amount	25.000		Recovery	=	92.400%	
Target Compounds						
80) Isopropylbenzene	10.39	105	9549	3.16829	ppb	98
85) n-Propylbenzene	10.84	91	33826	5.67864	ppb	100
90) Tert-Butylbenzene	11.38	119	2629	1.21495	ppb	97
92) Sec-Butylbenzene	11.62	105	20933	3.88274	ppb	96
97) n-Butylbenzene	12.23	91	16780	4.58392	ppb	92
103) Naphthalene	14.21	128	370821	78.70372	ppb	98

(#) = qualifier out of range (m) = manual integration
 0727L33.D L0724W.M Thu Aug 15 09:47:05 2019

Quantitation Report

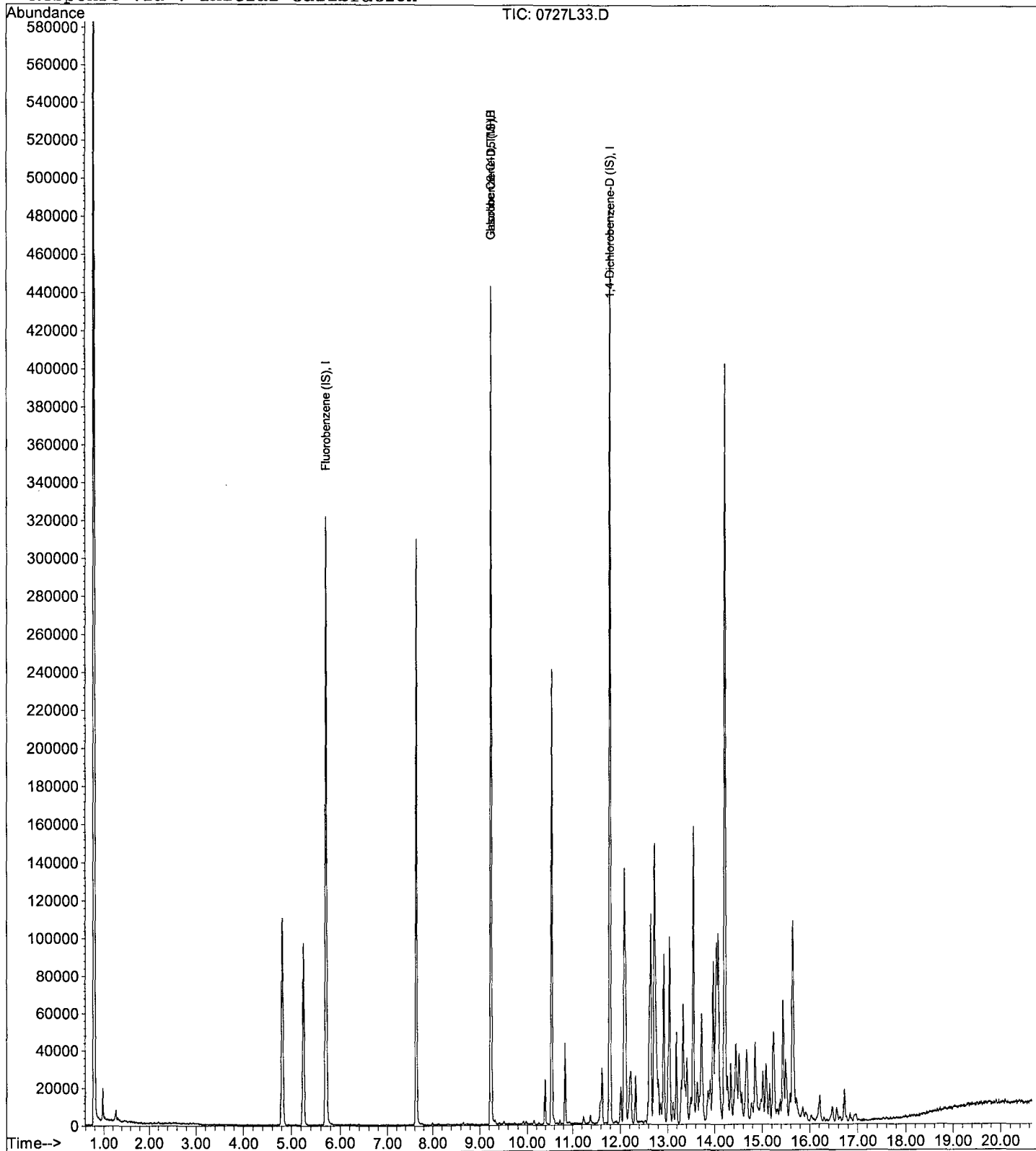
Data File : M:\LOKI\DATA\190724\0727L33.D
Acq On : 28 Jul 19 1:09
Sample : AZ95329W01
Misc : IS&S 7/15/19,6/5/19

Vial: 33
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 16:14 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T27.D Vial: 27
 Acq On : 29 Jul 19 20:52 Operator:
 Sample : AZ95330W02 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Aug 15 17:42 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:43:35 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	907579	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1237673	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1288217	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	7.35	TIC	7221294m	-214.34363	ppb	100

Data File : M:\THOR\DATA\T190726\0729T27.D
 Acq On : 29 Jul 19 20:52
 Sample : AZ95330W02
 Misc : IS&S 7/6/19, 6/2/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 30 10:03 2019

Vial: 27
 Operator:
 Inst : Thor
 Multiplr: 1.00000

Quant Results File: TSUR0726.RES

Quant Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	443136	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.79	117	430720	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.11	152	237632	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.62	111	223080	23.81008	ppb	0.00
Spiked Amount	25.000			Recovery	=	95.240%
3) 1,2-DCA-D4(S)	5.05	65	253097	23.68067	ppb	0.00
Spiked Amount	25.000			Recovery	=	94.724%
5) Toluene-D8(S)	7.32	98	767299	23.63278	ppb	0.00
Spiked Amount	25.000			Recovery	=	94.532%
6) 4-Bromofluorobenzene(S)	9.98	95	298881	23.84174	ppb	0.00
Spiked Amount	25.000			Recovery	=	95.368%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0729T27.D TSUR0726.M Tue Aug 20 15:35:04 2019

Quantitation Report

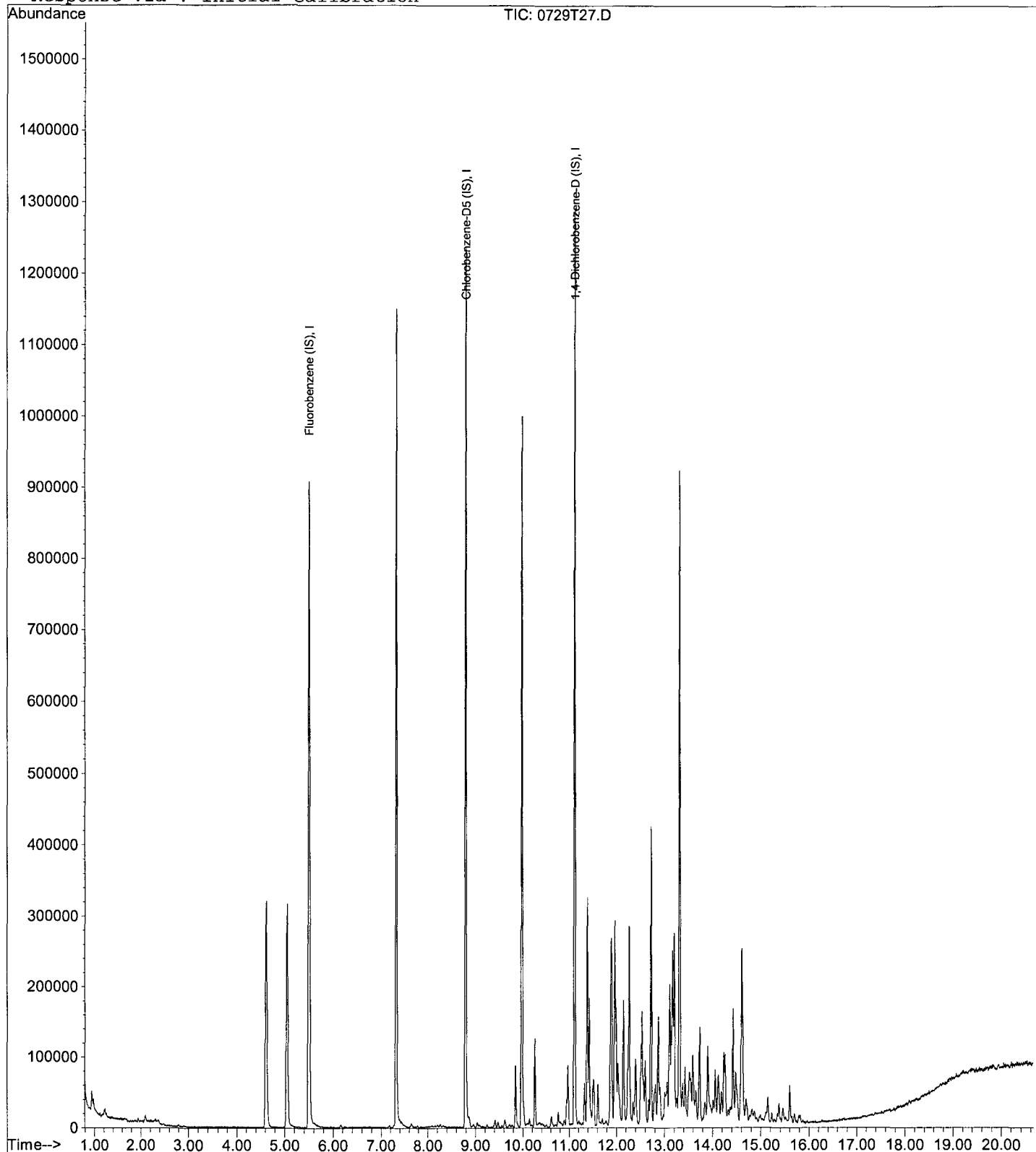
Data File : M:\THOR\DATA\T190726\0729T27.D
Acq On : 29 Jul 19 20:52
Sample : AZ95330W02
Misc : IS&S 7/6/19, 6/2/19

Vial: 27
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Aug 15 17:42 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190810\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T28.D
 Acq On : 29 Jul 19 21:20
 Sample : AZ95331W01
 Misc : IS&S 7/6/19, 6/2/19

Vial: 28
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 30 10:06 2019

Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:43:35 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	985234	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1331632	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1339953	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\THOR\DATA\T190726\0729T28.D
 Acq On : 29 Jul 19 21:20
 Sample : AZ95331W01
 Misc : IS&S 7/6/19, 6/2/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 30 10:04 2019

Vial: 28
 Operator:
 Inst : Thor
 Multiplr: 1.00000

Quant Results File: TSUR0726.RES

Quant Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	482368	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.79	117	468800	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.11	152	244352	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.62	111	269951	26.46937	ppb	0.00
Spiked Amount	25.000				Recovery = 105.876%	
3) 1,2-DCA-D4(S)	5.05	65	295617	25.40943	ppb	0.00
Spiked Amount	25.000				Recovery = 101.636%	
5) Toluene-D8(S)	7.32	98	881363	24.94091	ppb	0.00
Spiked Amount	25.000				Recovery = 99.764%	
6) 4-Bromofluorobenzene(S)	9.98	95	331400	24.28844	ppb	0.00
Spiked Amount	25.000				Recovery = 97.152%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0729T28.D TSUR0726.M Tue Aug 20 15:35:16 2019

Quantitation Report

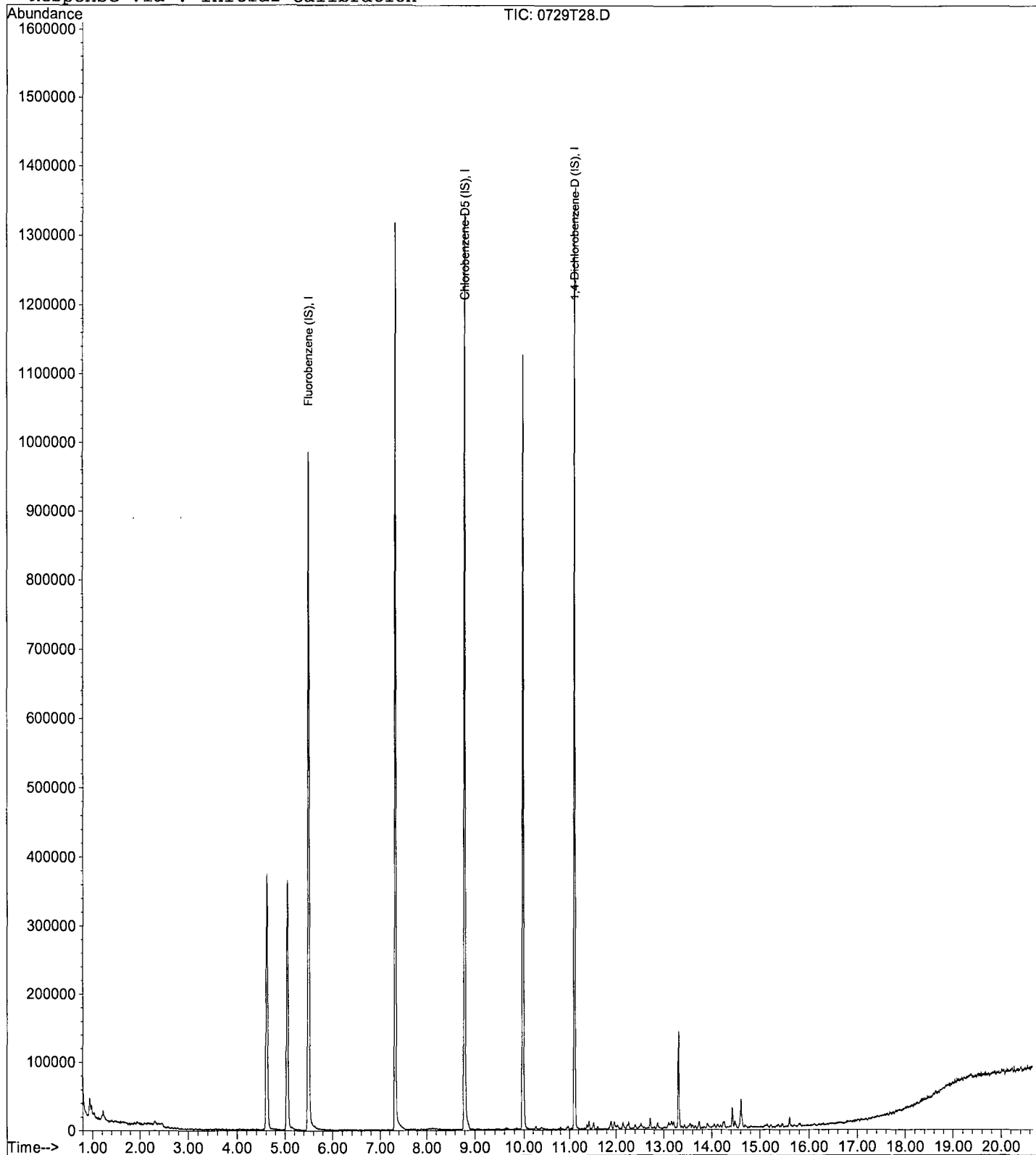
Data File : M:\THOR\DATA\T190726\0729T28.D
Acq On : 29 Jul 19 21:20
Sample : AZ95331W01
Misc : IS&S 7/6/19, 6/2/19

Vial: 28
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 10:06 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190810\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T29.D Vial: 29
 Acq On : 29 Jul 19 21:48 Operator:
 Sample : AZ95332W01 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 10:06 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:43:35 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	918432	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1226391	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1235535	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\THOR\DATA\T190726\0729T29.D
 Acq On : 29 Jul 19 21:48
 Sample : AZ95332W01
 Misc : IS&S 7/6/19, 6/2/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 30 10:04 2019

Vial: 29
 Operator:
 Inst : Thor
 Multiplr: 1.00000

Quant Results File: TSUR0726.RES

Quant Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.50	96	453568	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.79	117	433664	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.11	152	229760	25.00000	ppb	0.00

System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.62	111	259451	27.05516	ppb	0.00
Spiked Amount	25.000		Recovery	= 108.220%		
3) 1,2-DCA-D4(S)	5.05	65	287546	26.28506	ppb	0.00
Spiked Amount	25.000		Recovery	= 105.140%		
5) Toluene-D8(S)	7.32	98	885977	27.10280	ppb	0.00
Spiked Amount	25.000		Recovery	= 108.412%		
6) 4-Bromofluorobenzene(S)	9.98	95	331979	26.30219	ppb	0.00
Spiked Amount	25.000		Recovery	= 105.208%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0729T29.D TSUR0726.M Tue Aug 20 15:35:30 2019

Quantitation Report

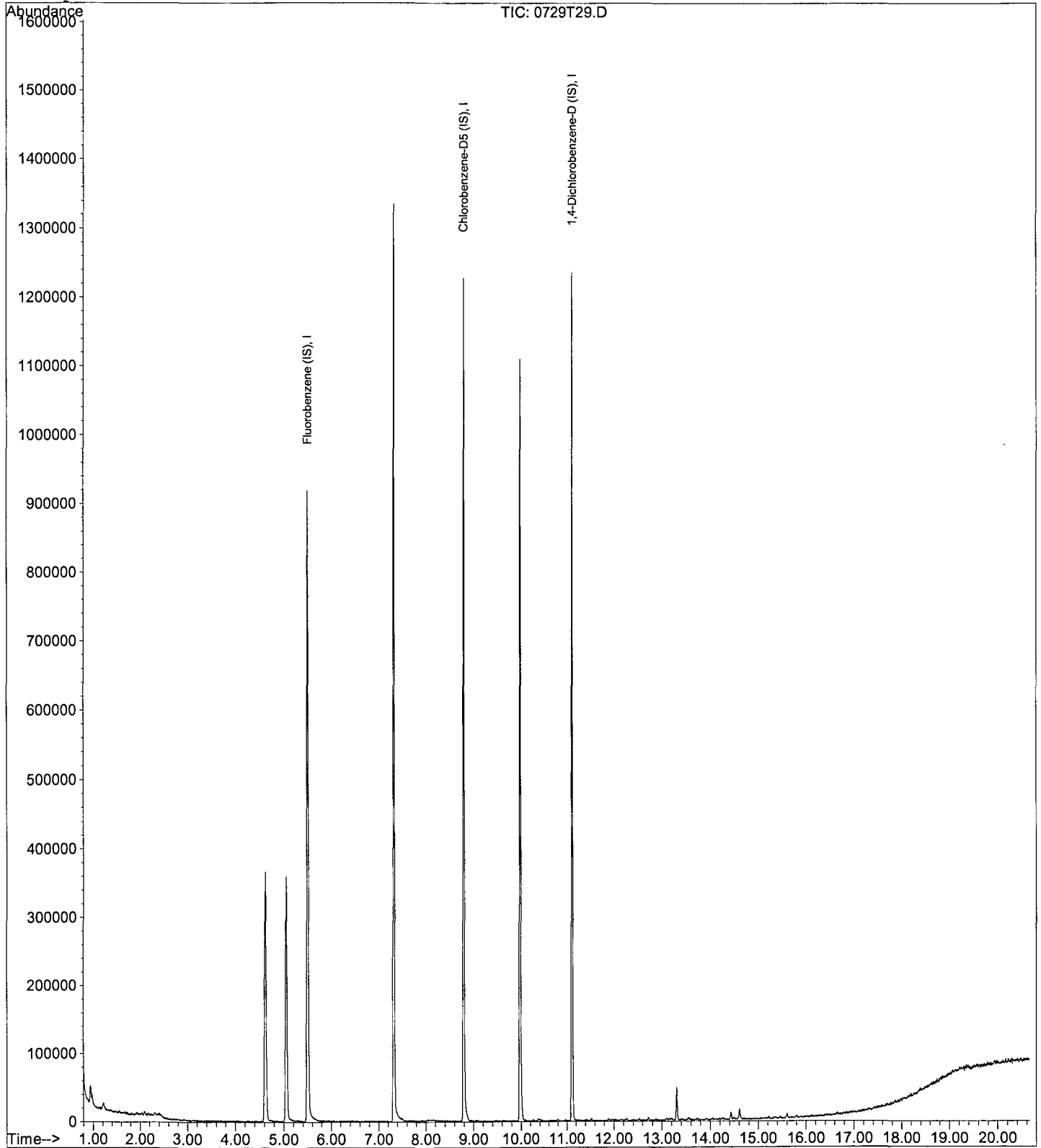
Data File : M:\THOR\DATA\T190726\0729T29.D
Acq On : 29 Jul 19 21:48
Sample : AZ95332W01
Misc : IS&S 7/6/19, 6/2/19

Vial: 29
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 10:06 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190810\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T30.D Vial: 30
 Acq On : 29 Jul 19 22:16 Operator:
 Sample : AZ95333W01 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 10:06 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:43:35 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	911907	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1245081	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1250022	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Data File : M:\THOR\DATA\T190726\0729T30.D
 Acq On : 29 Jul 19 22:16
 Sample : AZ95333W01
 Misc : IS&S 7/6/19, 6/2/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 30 10:04 2019

Vial: 30
 Operator:
 Inst : Thor
 Multiplr: 1.00000

Quant Results File: TSUR0726.RES

Quant Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.50	96	441216	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.79	117	444480	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.11	152	225856	25.00000	ppb	0.00

System Monitoring Compounds

2) Dibromofluoromethane(S)	4.62	111	322305	34.55039	ppb	0.00
Spiked Amount	25.000			Recovery	= 138.200%	
3) 1,2-DCA-D4(S)	5.05	65	360201	33.84836	ppb	0.00
Spiked Amount	25.000			Recovery	= 135.392%	
5) Toluene-D8(S)	7.32	98	1103221	32.92725	ppb	0.00
Spiked Amount	25.000			Recovery	= 131.708%	
6) 4-Bromofluorobenzene(S)	9.98	95	416007	32.15756	ppb	0.00
Spiked Amount	25.000			Recovery	= 128.632%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0729T30.D TSUR0726.M Tue Aug 20 15:35:43 2019

Quantitation Report

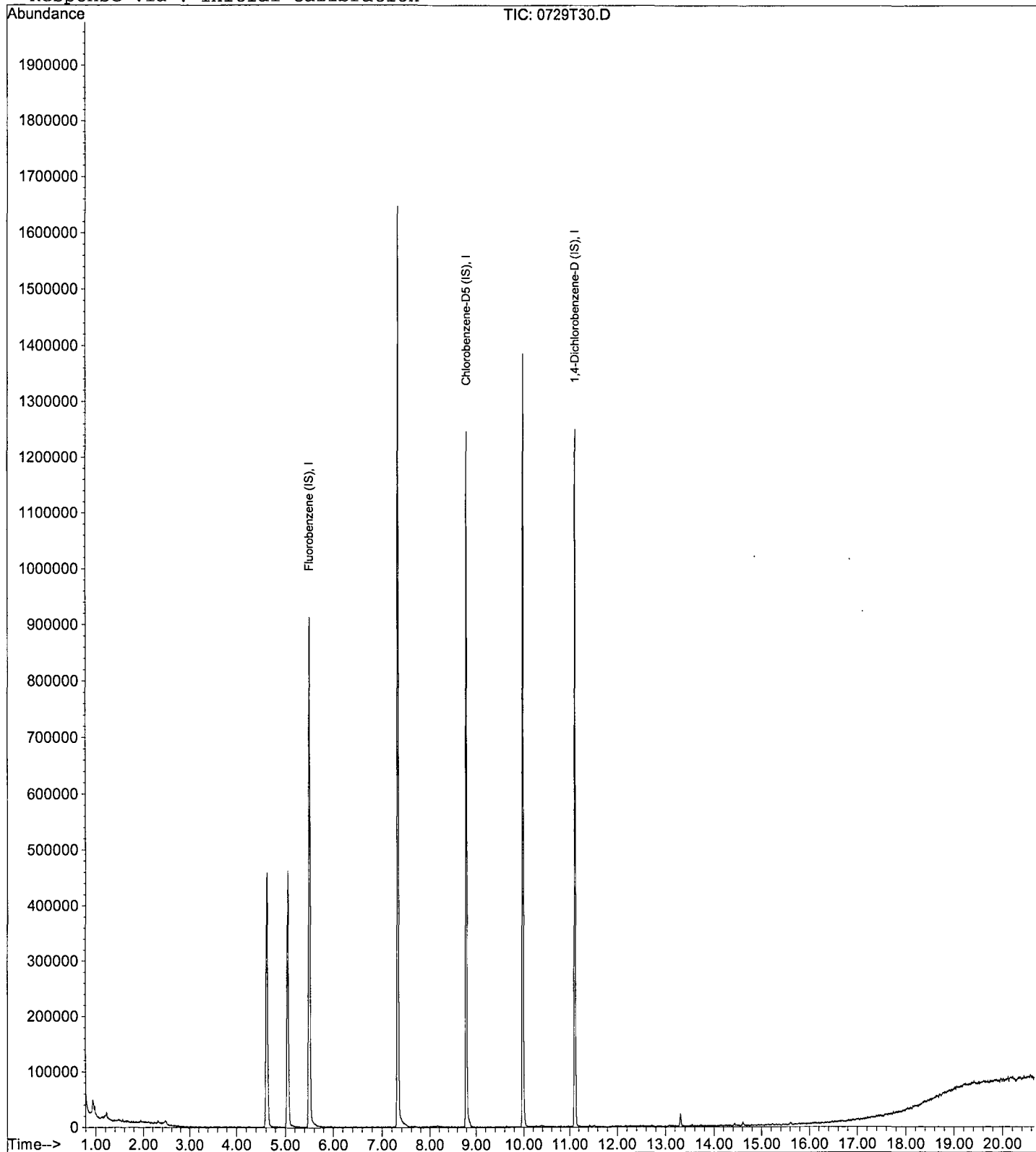
Data File : M:\THOR\DATA\T190726\0729T30.D
Acq On : 29 Jul 19 22:16
Sample : AZ95333W01
Misc : IS&S 7/6/19, 6/2/19

Vial: 30
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 10:06 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190810\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T31.D Vial: 31
 Acq On : 29 Jul 19 22:44 Operator:
 Sample : AZ95334W01 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 10:06 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:43:35 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	930116	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1285292	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1288666	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\THOR\DATA\T190726\0729T31.D
 Acq On : 29 Jul 19 22:44
 Sample : AZ95334W01
 Misc : IS&S 7/6/19, 6/2/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 30 10:04 2019

Vial: 31
 Operator:
 Inst : Thor
 Multiplr: 1.00000

Quant Results File: TSUR0726.RES

Quant Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.50	96	454400	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.79	117	458304	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.11	152	234880	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.62	111	229441	23.88195	ppb	0.00
Spiked Amount	25.000			Recovery	=	95.528%
3) 1,2-DCA-D4(S)	5.05	65	259010	23.63318	ppb	0.00
Spiked Amount	25.000			Recovery	=	94.532%
5) Toluene-D8(S)	7.32	98	774765	22.42650	ppb	0.00
Spiked Amount	25.000			Recovery	=	89.704%
6) 4-Bromofluorobenzene(S)	9.98	95	293999	22.04078	ppb	0.00
Spiked Amount	25.000			Recovery	=	88.164%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0729T31.D TSUR0726.M Tue Aug 20 15:35:54 2019

Quantitation Report

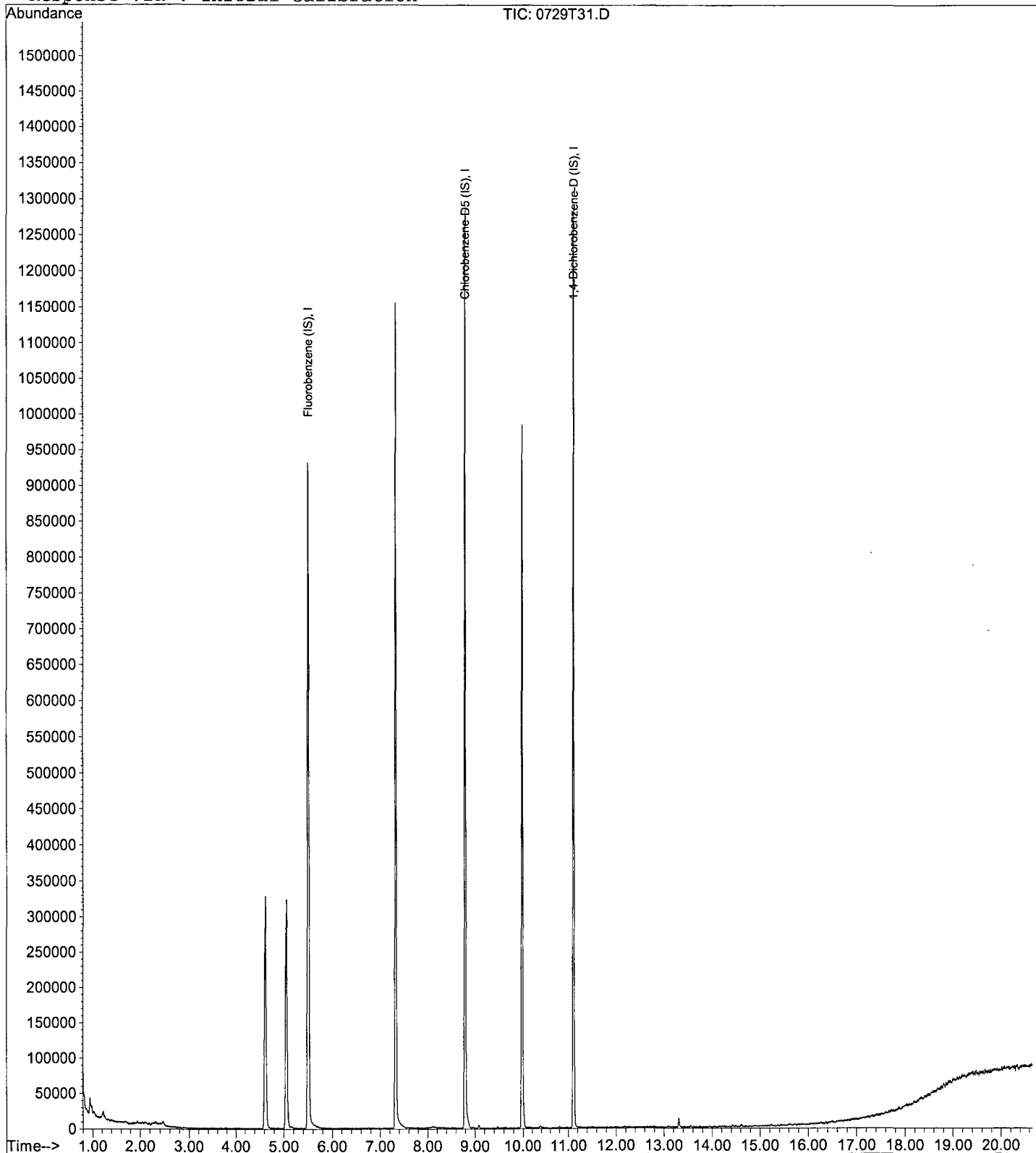
Data File : M:\THOR\DATA\T190726\0729T31.D
Acq On : 29 Jul 19 22:44
Sample : AZ95334W01
Misc : IS&S 7/6/19, 6/2/19

Vial: 31
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 10:06 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190810\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T32.D Vial: 32
 Acq On : 29 Jul 19 23:12 Operator:
 Sample : AZ95335W01 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 10:06 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:43:35 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	893348	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1245469	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1222609	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\THOR\DATA\T190726\0729T32.D
 Acq On : 29 Jul 19 23:12
 Sample : AZ95335W01
 Misc : IS&S 7/6/19, 6/2/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 30 10:04 2019

Vial: 32
 Operator:
 Inst : Thor
 Multiplr: 1.00000

Quant Results File: TSUR0726.RES

Quant Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	438400	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.79	117	442240	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.11	152	222144	25.00000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.62	111	257125	27.74029	ppb	0.00
Spiked Amount 25.000					Recovery = 110.960%	
3) 1,2-DCA-D4(S)	5.05	65	287300	27.17122	ppb	0.00
Spiked Amount 25.000					Recovery = 108.684%	
5) Toluene-D8(S)	7.32	98	860695	25.81882	ppb	0.00
Spiked Amount 25.000					Recovery = 103.276%	
6) 4-Bromofluorobenzene(S)	9.98	95	325885	25.31868	ppb	0.00
Spiked Amount 25.000					Recovery = 101.276%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0729T32.D TSUR0726.M Tue Aug 20 15:36:07 2019

Quantitation Report

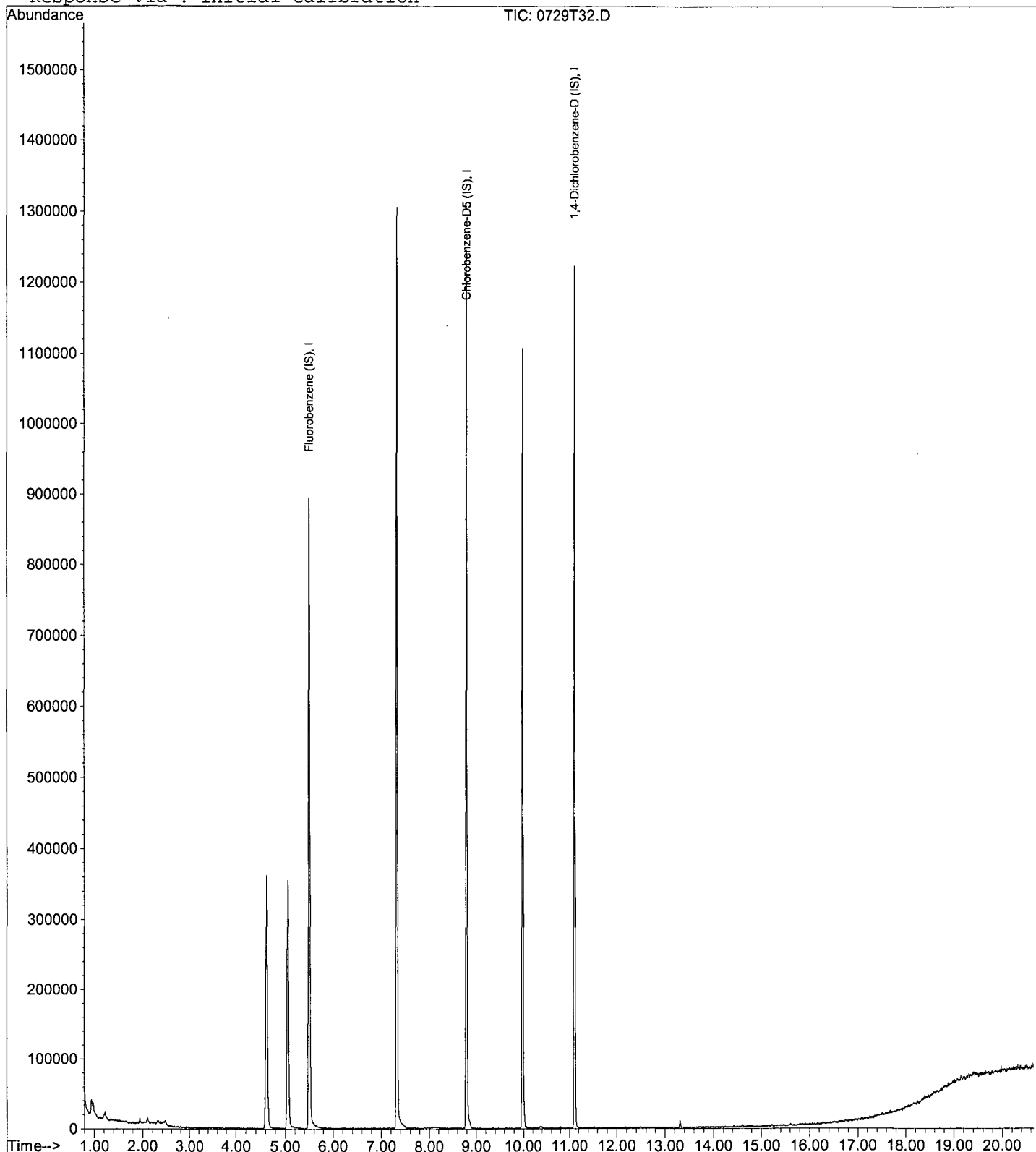
Data File : M:\THOR\DATA\T190726\0729T32.D
Acq On : 29 Jul 19 23:12
Sample : AZ95335W01
Misc : IS&S 7/6/19, 6/2/19

Vial: 32
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 10:06 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190810\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T33.D Vial: 33
 Acq On : 29 Jul 19 23:40 Operator:
 Sample : AZ95336W01 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 10:06 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:43:35 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	894241	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1243378	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1215319	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\THOR\DATA\T190726\0729T33.D
 Acq On : 29 Jul 19 23:40
 Sample : AZ95336W01
 Misc : IS&S 7/6/19, 6/2/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 30 10:04 2019

Vial: 33
 Operator:
 Inst : Thor
 Multiplr: 1.00000

Quant Results File: TSUR0726.RES

Quant Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	439680	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.79	117	443712	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.11	152	220160	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.62	111	228120	24.53939	ppb	0.00
Spiked Amount	25.000			Recovery	=	98.156%
3) 1,2-DCA-D4(S)	5.05	65	252900	23.84823	ppb	0.00
Spiked Amount	25.000			Recovery	=	95.392%
5) Toluene-D8(S)	7.32	98	762691	22.80303	ppb	0.00
Spiked Amount	25.000			Recovery	=	91.212%
6) 4-Bromofluorobenzene(S)	9.98	95	283495	21.95225	ppb	0.00
Spiked Amount	25.000			Recovery	=	87.808%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0729T33.D TSUR0726.M Tue Aug 20 15:36:18 2019

Quantitation Report

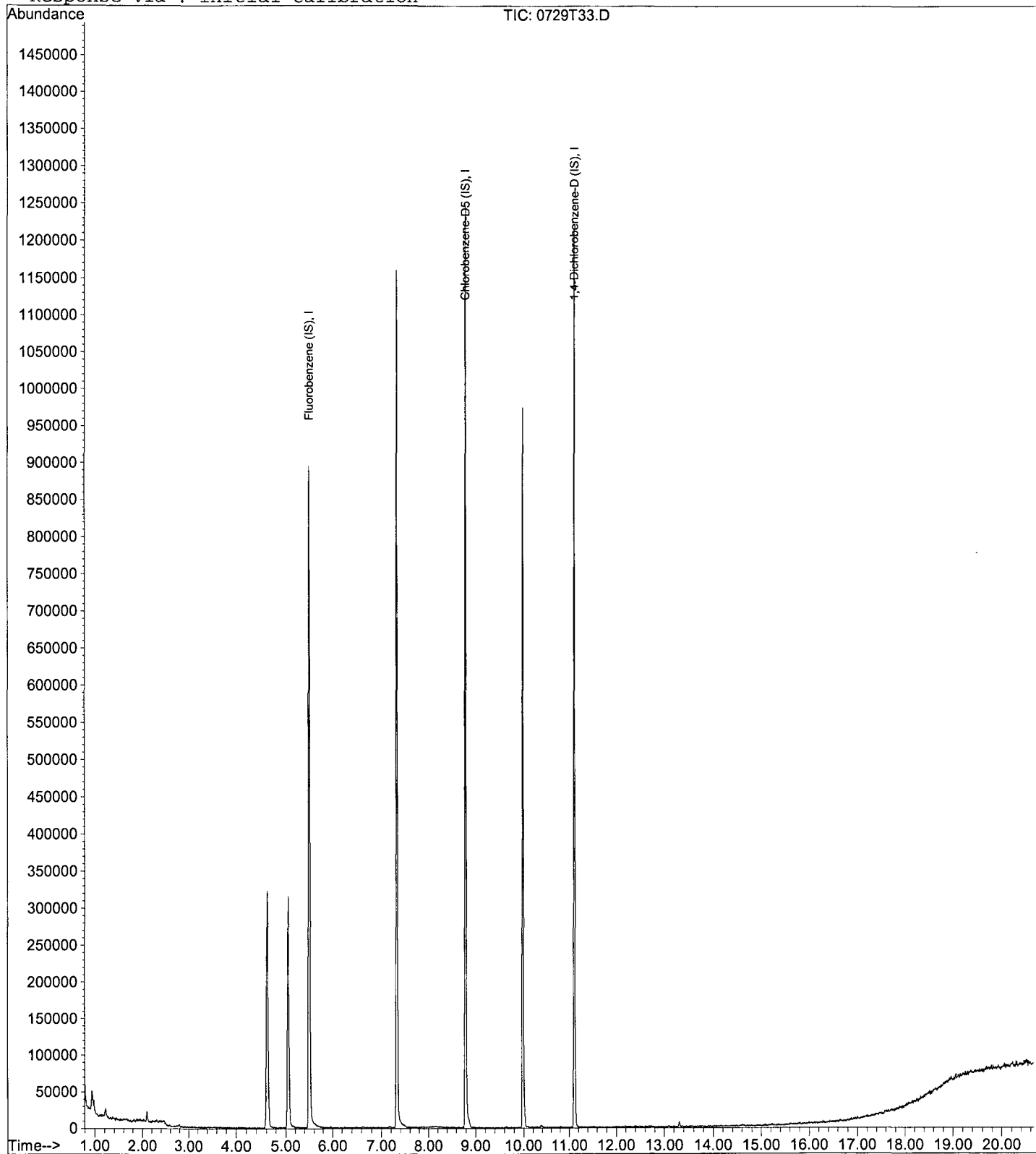
Data File : M:\THOR\DATA\T190726\0729T33.D
Acq On : 29 Jul 19 23:40
Sample : AZ95336W01
Misc : IS&S 7/6/19, 6/2/19

Vial: 33
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 10:06 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190810\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T34.D Vial: 34
 Acq On : 30 Jul 19 00:08 Operator:
 Sample : AZ95337W01 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 10:06 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:43:35 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	922721	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1297081	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1284936	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\THOR\DATA\T190726\0729T34.D
 Acq On : 30 Jul 19 00:08
 Sample : AZ95337W01
 Misc : IS&S 7/6/19, 6/2/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 30 10:04 2019

Vial: 34
 Operator:
 Inst : Thor
 Multiplr: 1.00000

Quant Results File: TSUR0726.RES

Quant Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	451904	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.79	117	454272	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.11	152	232704	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.62	111	231572	24.23690	ppb	0.00
Spiked Amount	25.000			Recovery	=	96.948%
3) 1,2-DCA-D4(S)	5.05	65	260045	23.85868	ppb	0.00
Spiked Amount	25.000			Recovery	=	95.436%
5) Toluene-D8(S)	7.32	98	779978	22.77779	ppb	0.00
Spiked Amount	25.000			Recovery	=	91.112%
6) 4-Bromofluorobenzene(S)	9.98	95	298569	22.58206	ppb	0.00
Spiked Amount	25.000			Recovery	=	90.328%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0729T34.D TSUR0726.M Tue Aug 20 15:36:31 2019

Quantitation Report

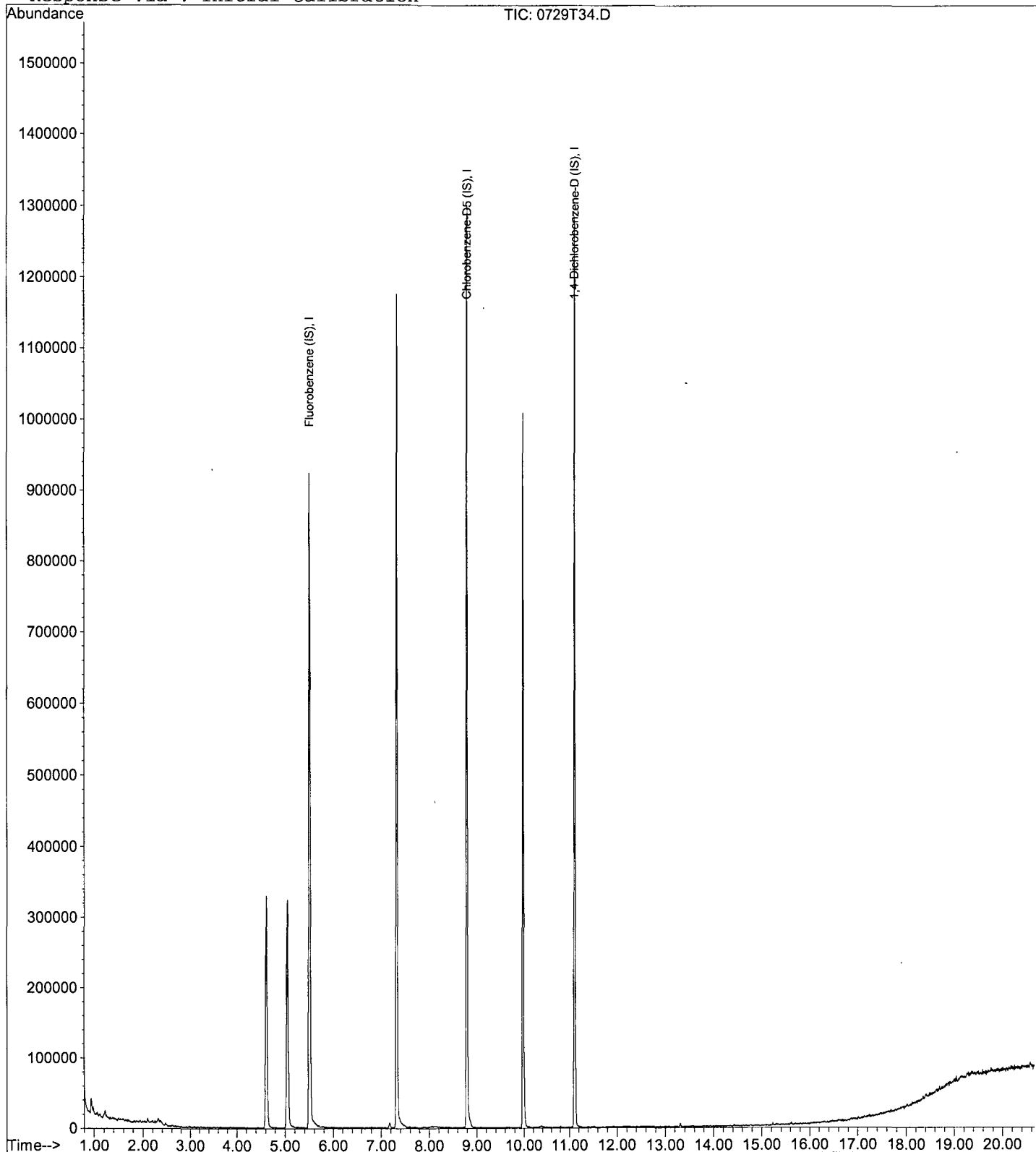
Data File : M:\THOR\DATA\T190726\0729T34.D
Acq On : 30 Jul 19 00:08
Sample : AZ95337W01
Misc : IS&S 7/6/19, 6/2/19

Vial: 34
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 10:06 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190810\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T35.D Vial: 35
 Acq On : 30 Jul 19 00:37 Operator:
 Sample : AZ95338W01 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 10:06 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:43:35 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	956070	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1288492	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1285784	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\THOR\DATA\T190726\0729T35.D
 Acq On : 30 Jul 19 00:37
 Sample : AZ95338W01
 Misc : IS&S 7/6/19, 6/2/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 30 10:04 2019

Vial: 35
 Operator:
 Inst : Thor
 Multiplr: 1.00000

Quant Results File: TSUR0726.RES

Quant Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	464000	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.79	117	454080	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.11	152	233216	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.62	111	229203	23.36358	ppb	0.00
Spiked Amount	25.000		Recovery	=	93.456%	
3) 1,2-DCA-D4(S)	5.05	65	256064	22.88098	ppb	0.00
Spiked Amount	25.000		Recovery	=	91.524%	
5) Toluene-D8(S)	7.32	98	777735	22.72189	ppb	0.00
Spiked Amount	25.000		Recovery	=	90.888%	
6) 4-Bromofluorobenzene(S)	9.98	95	290597	21.98839	ppb	0.00
Spiked Amount	25.000		Recovery	=	87.952%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0729T35.D TSUR0726.M Tue Aug 20 15:36:42 2019

Quantitation Report

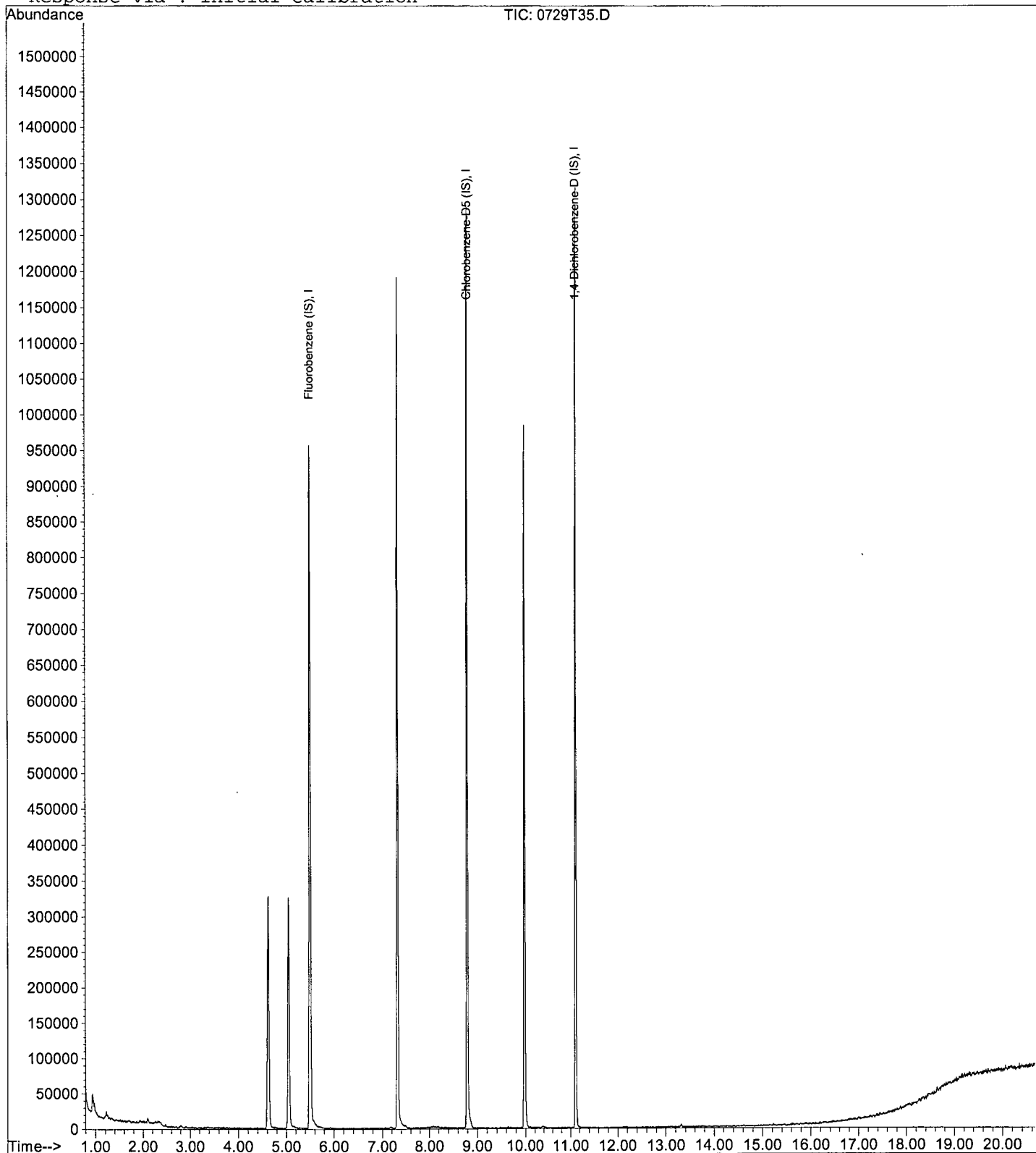
Data File : M:\THOR\DATA\T190726\0729T35.D
Acq On : 30 Jul 19 00:37
Sample : AZ95338W01
Misc : IS&S 7/6/19, 6/2/19

Vial: 35
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 10:06 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190810\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T26.D Vial: 26
 Acq On : 29 Jul 19 20:24 Operator:
 Sample : 190729B BLK Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:56 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:43:35 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	916499	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1245409	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1275631	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\THOR\DATA\T190726\0729T26.D
 Acq On : 29 Jul 19 20:24
 Sample : 190729B BLK
 Misc : IS&S 7/6/19, 6/2/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 30 10:03 2019

Vial: 26
 Operator:
 Inst : Thor
 Multiplr: 1.00000

Quant Results File: TSUR0726.RES

Quant Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	451072	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.79	117	438912	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.11	152	234496	25.00000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.62	111	223873	23.47432	ppb	0.00
Spiked Amount				25.000		
				Recovery =	93.896%	
3) 1,2-DCA-D4(S)	5.05	65	255221	23.45927	ppb	0.00
Spiked Amount				25.000		
				Recovery =	93.836%	
5) Toluene-D8(S)	7.32	98	772255	23.34148	ppb	0.00
Spiked Amount				25.000		
				Recovery =	93.364%	
6) 4-Bromofluorobenzene(S)	9.98	95	289526	22.66443	ppb	0.00
Spiked Amount				25.000		
				Recovery =	90.656%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0729T26.D TSUR0726.M Tue Aug 20 15:34:49 2019

Quantitation Report

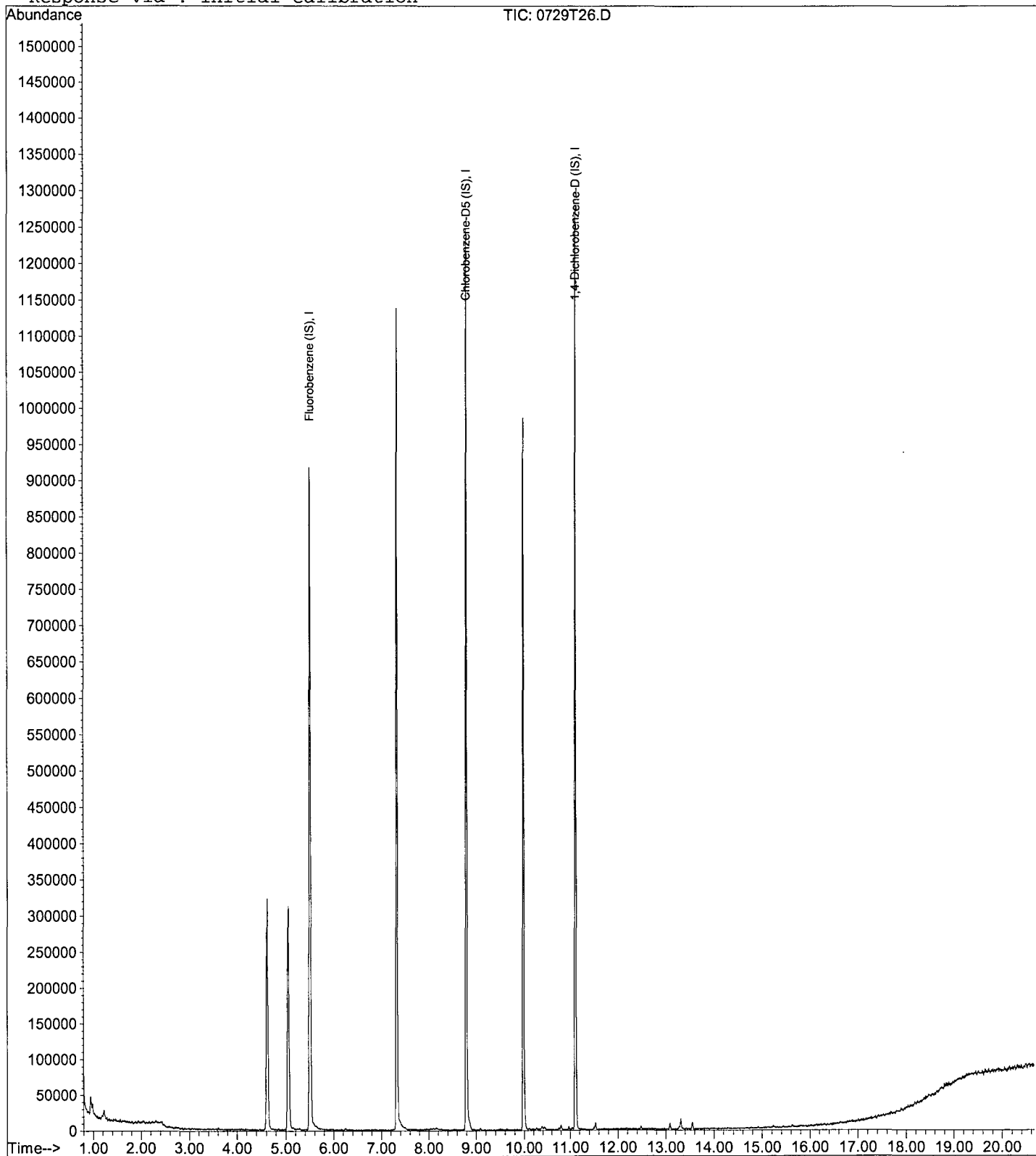
Data File : M:\THOR\DATA\T190726\0729T26.D
Acq On : 29 Jul 19 20:24
Sample : 190729B BLK
Misc : IS&S 7/6/19, 6/2/19

Vial: 26
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:56 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190810\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T18.D Vial: 18
 Acq On : 29 Jul 19 16:39 Operator:
 Sample : 190729B LCS 300ug/L Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:55 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:43:35 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	936563	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1269607	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1322071	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.79	TIC	13812847m	261.96115	ppb	100

Data File : M:\THOR\DATA\T190726\0729T18.D
 Acq On : 29 Jul 19 16:39
 Sample : 190729B LCS 300ug/L
 Misc : IS&S 7/6/19, 6/2/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 30 10:03 2019

Vial: 18
 Operator:
 Inst : Thor
 Multiplr: 1.00000

Quant Results File: TSUR0726.RES

Quant Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	450560	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.79	117	445760	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.11	152	238784	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.62	111	229879	24.13147	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	96.524%
3) 1,2-DCA-D4(S)	5.05	65	257091	23.65801	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	94.632%
5) Toluene-D8(S)	7.32	98	781869	23.26902	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	93.076%
6) 4-Bromofluorobenzene(S)	9.98	95	295357	22.76569	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	91.064%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0729T18.D TSUR0726.M Tue Aug 20 15:34:10 2019

Quantitation Report

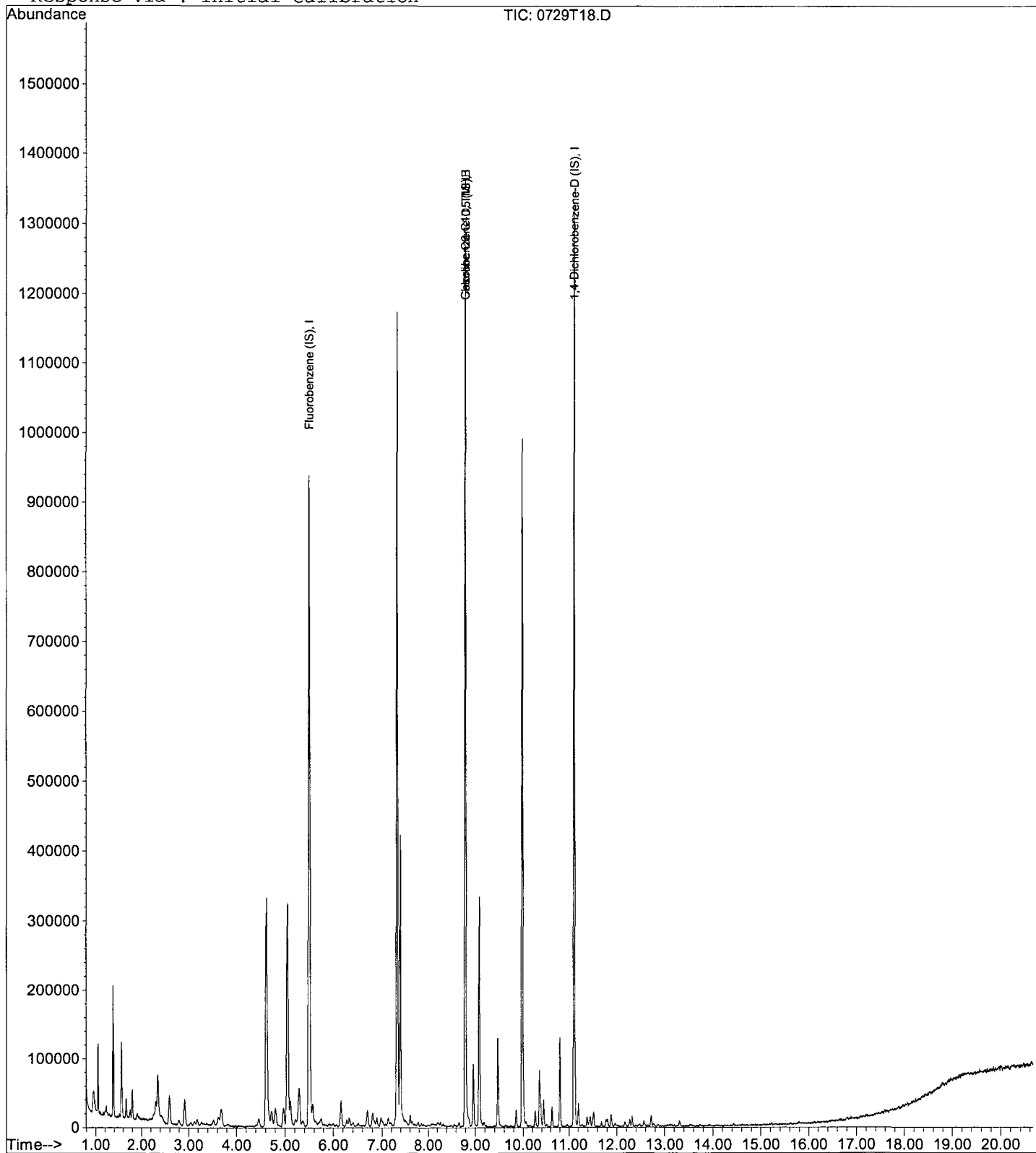
Data File : M:\THOR\DATA\T190726\0729T18.D
Acq On : 29 Jul 19 16:39
Sample : 190729B LCS 300ug/L
Misc : IS&S 7/6/19, 6/2/19

Vial: 18
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:55 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190810\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T19.D Vial: 19
 Acq On : 29 Jul 19 17:07 Operator:
 Sample : 190729B LCSD 300ug/L Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:56 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:43:35 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	966855	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1306844	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1355325	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.79	TIC	14102950m	250.59826	ppb	100

Data File : M:\THOR\DATA\T190726\0729T19.D
 Acq On : 29 Jul 19 17:07
 Sample : 190729B LCSD 300ug/L
 Misc : IS&S 7/6/19, 6/2/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 30 10:03 2019

Vial: 19
 Operator:
 Inst : Thor
 Multiplr: 1.00000

Quant Results File: TSUR0726.RES

Quant Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.50	96	478848	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.79	117	461760	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.11	152	244864	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.62	111	235434	23.25459	ppb	0.00
Spiked Amount	25.000		Recovery	=	93.020%	
3) 1,2-DCA-D4(S)	5.05	65	262293	22.71083	ppb	0.00
Spiked Amount	25.000		Recovery	=	90.844%	
5) Toluene-D8(S)	7.32	98	805805	23.15042	ppb	0.00
Spiked Amount	25.000		Recovery	=	92.600%	
6) 4-Bromofluorobenzene(S)	9.98	95	304187	22.63388	ppb	0.00
Spiked Amount	25.000		Recovery	=	90.536%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0729T19.D TSUR0726.M Tue Aug 20 15:34:26 2019

Quantitation Report

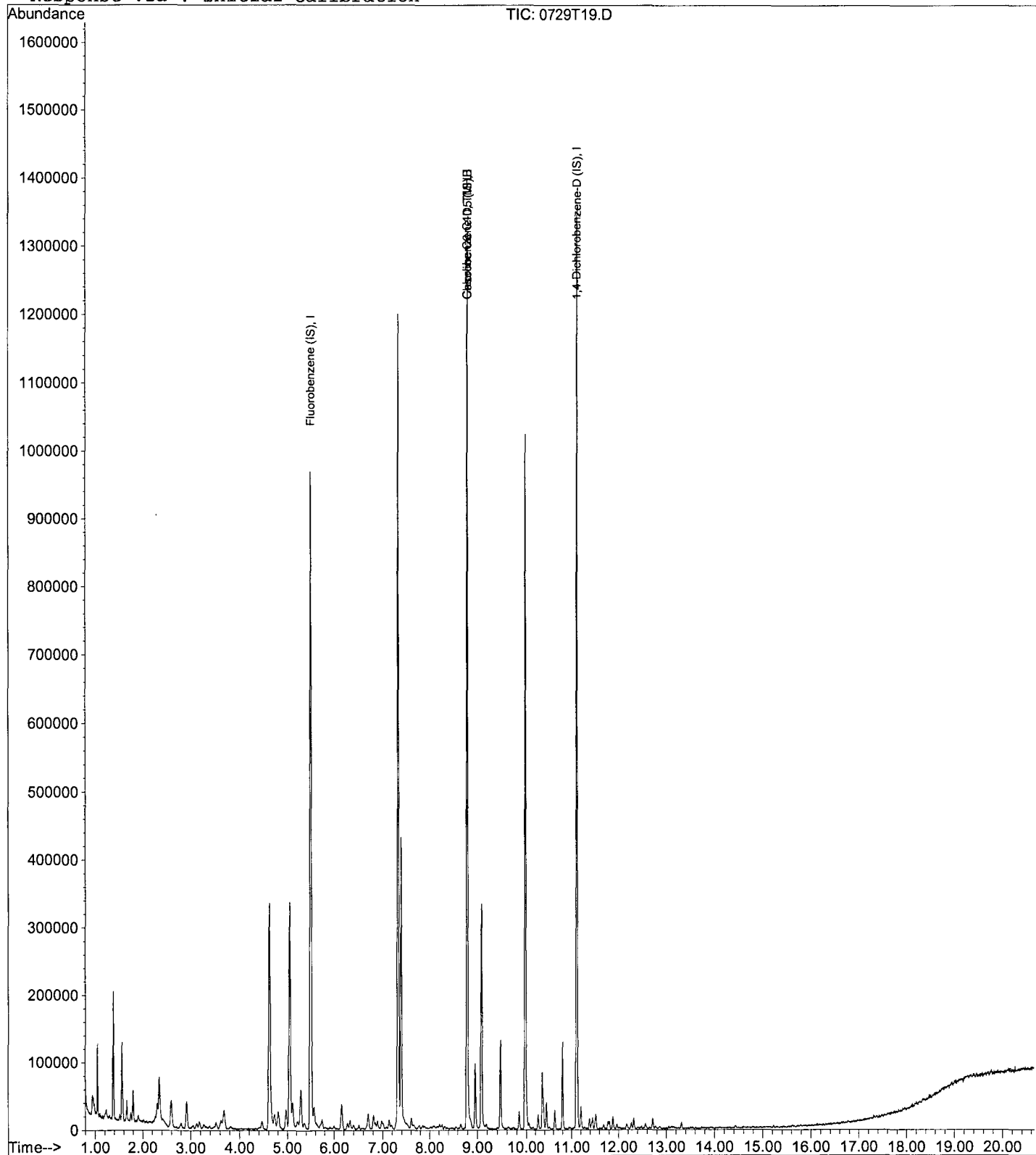
Data File : M:\THOR\DATA\T190726\0729T19.D
Acq On : 29 Jul 19 17:07
Sample : 190729B LCSD 300ug/L
Misc : IS&S 7/6/19, 6/2/19

Vial: 19
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:56 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190810\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0727L26.D Vial: 26
 Acq On : 27 Jul 19 21:48 Operator:
 Sample : 190727B BLK Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Jul 29 13:34 2019 Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Wed Jul 17 12:32:37 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	349326	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	435254	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	428902	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\LOKI\DATA\190724\0727L26.D
 Acq On : 27 Jul 19 21:48
 Sample : 190727B BLK
 Misc : IS&S 7/15/19,6/5/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 29 13:35 2019

Vial: 26
 Operator:
 Inst : Loki
 Multiplr: 1.00000

Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	177664	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	161600	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	83280	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	83824	26.63712	ppb	0.00
Spiked Amount	25.000					
					Recovery = 106.548%	
3) 1,2-DCA-D4(S)	5.25	65	81517	25.22910	ppb	0.00
Spiked Amount	25.000					
					Recovery = 100.916%	
5) Toluene-D8(S)	7.63	98	245461	24.99970	ppb	0.00
Spiked Amount	25.000					
					Recovery = 100.000%	
6) 4-Bromofluorobenzene(S)	10.54	95	82902	24.42015	ppb	0.00
Spiked Amount	25.000					
					Recovery = 97.680%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0727L26.D TSUR0726.M Thu Aug 15 09:46:29 2019

Quantitation Report

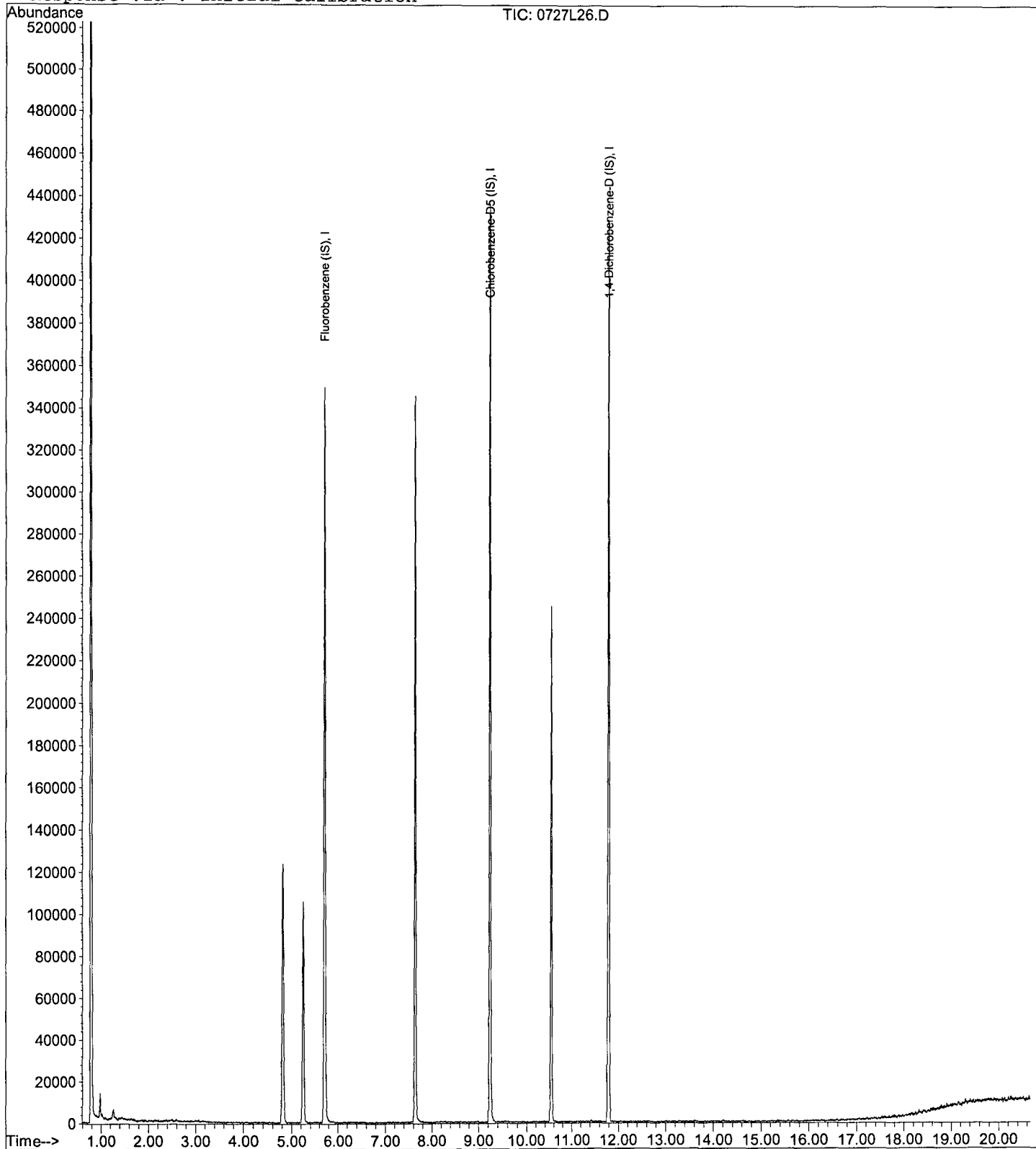
Data File : M:\LOKI\DATA\190724\0727L26.D
Acq On : 27 Jul 19 21:48
Sample : 190727B BLK
Misc : IS&S 7/15/19,6/5/19

Vial: 26
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:34 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0727L24.D Vial: 24
 Acq On : 27 Jul 19 20:50 Operator:
 Sample : 190727B LCS 300ug/L Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Jul 29 13:34 2019 Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Wed Jul 17 12:32:37 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	392383	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	482399	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	509039	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	5093056m	272.55167	ppb	100

Data File : M:\LOKI\DATA\190724\0727L24.D
 Acq On : 27 Jul 19 20:50
 Sample : 190727B LCS 300ug/L
 Misc : IS&S 7/15/19,6/5/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 29 13:35 2019

Vial: 24
 Operator:
 Inst : Loki
 Multiplr: 1.00000

Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	199552	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	178944	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	97152	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	88748	25.10850	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.436%	
3) 1,2-DCA-D4(S)	5.25	65	87634	24.14735	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.588%	
5) Toluene-D8(S)	7.63	98	264041	24.28555	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.144%	
6) 4-Bromofluorobenzene(S)	10.53	95	94350	25.09860	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.396%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0727L24.D TSUR0726.M Thu Aug 15 09:45:39 2019

Quantitation Report

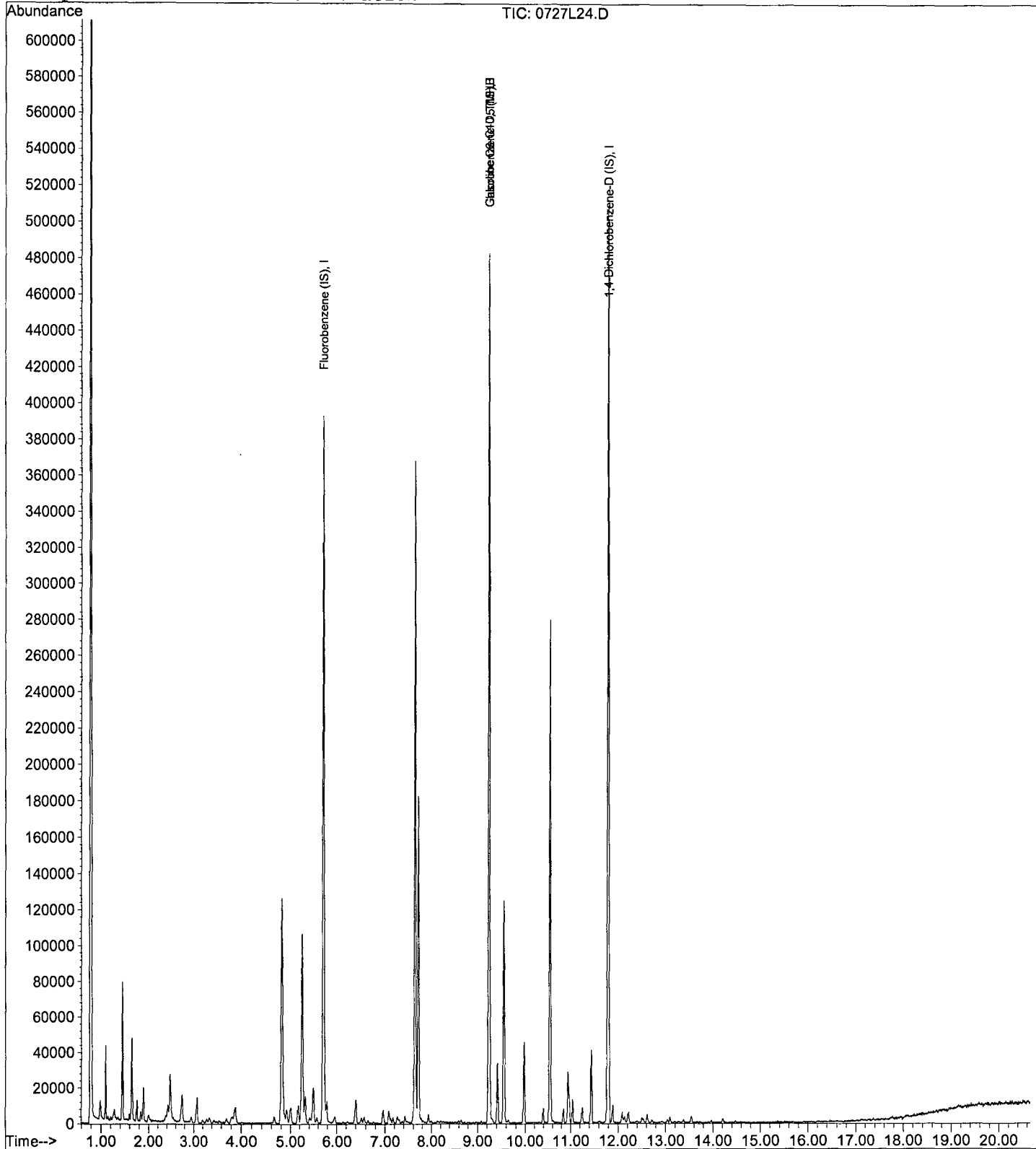
Data File : M:\LOKI\DATA\190724\0727L24.D
Acq On : 27 Jul 19 20:50
Sample : 190727B LCS 300ug/L
Misc : IS&S 7/15/19,6/5/19

Vial: 24
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:34 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0727L25.D
 Acq On : 27 Jul 19 21:19
 Sample : 190727B LCSD 300ug/L
 Misc : IS&S 7/15/19,6/5/19

Vial: 25
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:34 2019

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Wed Jul 17 12:32:37 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	370898	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	455697	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	477289	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	4933213m	293.12131	ppb	100

Data File : M:\LOKI\DATA\190724\0727L25.D
 Acq On : 27 Jul 19 21:19
 Sample : 190727B LCSD 300ug/L
 Misc : IS&S 7/15/19,6/5/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 29 13:35 2019

Vial: 25
 Operator:
 Inst : Loki
 Multiplr: 1.00000

Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	187072	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	171456	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	92824	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	82816	24.99331	ppb	0.00
Spiked Amount	25.000		Recovery	=	99.972%	
3) 1,2-DCA-D4(S)	5.25	65	81150	23.85244	ppb	0.00
Spiked Amount	25.000		Recovery	=	95.408%	
5) Toluene-D8(S)	7.63	98	263847	25.32755	ppb	0.00
Spiked Amount	25.000		Recovery	=	101.312%	
6) 4-Bromofluorobenzene(S)	10.53	95	90961	25.25383	ppb	0.00
Spiked Amount	25.000		Recovery	=	101.016%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0727L25.D TSUR0726.M Thu Aug 15 09:46:11 2019

Quantitation Report

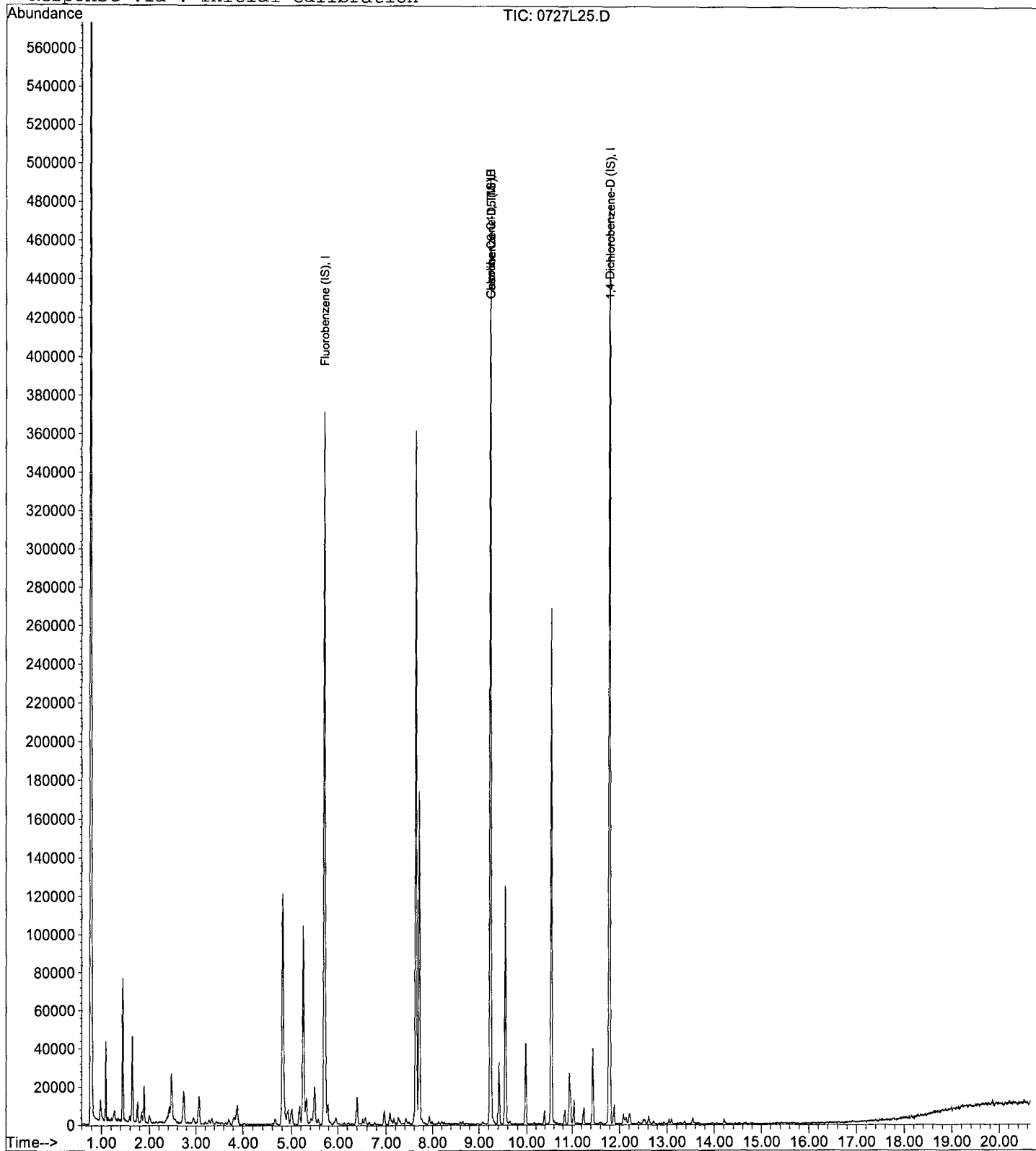
Data File : M:\LOKI\DATA\190724\0727L25.D
Acq On : 27 Jul 19 21:19
Sample : 190727B LCSD 300ug/L
Misc : IS&S 7/15/19,6/5/19

Vial: 25
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:34 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



Thor 8260 Standard Prep

Thor 8260 Water Calibration Curve										
0.3ug/L						Prepared By (Initials): CMM				
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	0.3ug/L	5	Prepared 07/26/19	09/24/19	N/A	3uL	50mL	P&T Water	0.3
VOA STD. 10	O2SI		5	Prepared 07/26/19	09/24/19	N/A	3uL			0.3
VOA STD. 12	O2SI		5	Prepared 07/26/19	09/24/19	N/A	3uL			0.3
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	2uL			10
0.5ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	0.5ug/L	5	Prepared 07/26/19	09/24/19	N/A	5uL	50mL	P&T Water	0.5
VOA STD. 10	O2SI		5	Prepared 07/26/19	09/24/19	N/A	5uL			0.5
VOA STD. 12	O2SI		5	Prepared 07/26/19	09/24/19	N/A	5uL			0.5
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	5uL			25
1.0ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	1.0ug/L	5	Prepared 07/26/19	09/24/19	N/A	10uL	50mL	P&T Water	1
VOA STD. 10	O2SI		5	Prepared 07/26/19	09/24/19	N/A	10uL			1
VOA STD. 12	O2SI		5	Prepared 07/26/19	09/24/19	N/A	10uL			1
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	10uL			50
2.0ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	2.0ug/L	5	Prepared 07/26/19	09/24/19	N/A	20uL	50mL	P&T Water	2
VOA STD. 10	O2SI		5	Prepared 07/26/19	09/24/19	N/A	20uL			2
VOA STD. 12	O2SI		5	Prepared 07/26/19	09/24/19	N/A	20uL			2
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	15uL			75
5ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	5ug/L	50	Prepared 07/26/19	09/24/19	N/A	5uL	50mL	P&T Water	5
VOA STD. 8	Phenova		50	Prepared 07/26/19	07/31/19	N/A	5uL			5
VOA STD. 1	O2SI		50	Prepared 07/26/19	09/24/19	N/A	5uL			5
VOA STD. 2	O2SI		50	Prepared 07/26/19	09/24/19	N/A	5uL			5
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	20uL			100
10ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	10ug/L	50	Prepared 07/26/19	09/24/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova		50	Prepared 07/26/19	07/31/19	N/A	10uL			10
VOA STD. 1	O2SI		50	Prepared 07/26/19	09/24/19	N/A	10uL			10
VOA STD. 2	O2SI		50	Prepared 07/26/19	09/24/19	N/A	10uL			10
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	25uL			125

20ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	20ug/L	50	Prepared 07/26/19	09/24/19	N/A	20uL	50mL	P&T Water	20
VOA STD. 8	Phenova		50	Prepared 07/26/19	07/31/19	N/A	20uL			20
VOA STD. 1	O2Si		50	Prepared 07/26/19	09/24/19	N/A	20uL			20
VOA STD. 2	O2Si		50	Prepared 07/26/19	09/24/19	N/A	20uL			20
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	30uL			150
40ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	40ug/L	50	Prepared 07/26/19	09/24/19	N/A	40uL	50mL	P&T Water	40
VOA STD. 8	Phenova		50	Prepared 07/26/19	07/31/19	N/A	40uL			40
VOA STD. 1	O2Si		50	Prepared 07/26/19	09/24/19	N/A	40uL			40
VOA STD. 2	O2Si		50	Prepared 07/26/19	09/24/19	N/A	40uL			40
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	35uL			175
100ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	100ug/L	50	Prepared 07/26/19	09/24/19	N/A	100uL	50mL	P&T Water	100
VOA STD. 8	Phenova		50	Prepared 07/26/19	07/31/19	N/A	100uL			100
VOA STD. 1	O2Si		50	Prepared 07/26/19	09/24/19	N/A	100uL			100
VOA STD. 2	O2Si		50	Prepared 07/26/19	09/24/19	N/A	100uL			100
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	40uL			200
Thor 8260 Water Second Source (SS)										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 4	Phenova	8260 Water SS	50	Prepared 07/26/19	09/24/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 5	O2Si		50	Prepared 07/26/19	09/24/19	N/A	10uL			10
VOA STD. 6	Various		50	Prepared 07/26/19	07/17/19	N/A	10uL			10
VOA STD. TBA	Various		250	Prepared 07/26/19	07/17/19	N/A	25uL			250
VOA STD. 8	Phenova		50	Prepared 07/26/19	07/31/19	N/A	10uL			10
8260 Water Continuing Calibrations (CCV)/ Lab Control Spikes (LCS)										
Prepared: 07/26/19										
Expires: 07/27/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	CCV/ LCS	50	Prepared 07/26/19	09/24/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova		50	Prepared 07/26/19	07/31/19	N/A	10uL			10
VOA STD. 1	O2Si		50	Prepared 07/26/19	09/24/19	N/A	10uL			10
VOA STD. 2	O2Si		50	Prepared 07/26/19	09/24/19	N/A	10uL			10
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	25uL			125
LCS (X4 Ketones)										
Prepared: 07/26/19										
Expires: 07/27/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	LCS X4 Ketones	50	Prepared 07/26/19	09/24/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova		50	Prepared 07/26/19	07/31/19	N/A	10uL			10
VOA STD. 1	O2Si		50	Prepared 07/26/19	09/24/19	N/A	10uL			10
VOA STD. 2	O2Si		50	Prepared 07/26/19	09/24/19	N/A	40uL			40
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	25uL			125

Primary and Secondary Working Standards

Primary Standards										
VOA STD 7										
Prepared: 07/26/19 G										
Expires: 09/24/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Gasses STD	Phenova	ALO-101206	2,000	CL12965-40902	07/26/20	11/30/23	100uL	4mL	Methanol	50
Hexachloroethane	Absolute	70199	1,000	091818-41092	07/26/20	09/18/23	200uL			50
Benzyl Chloride	Absolute	70037	1,000	061919-41087	07/26/20	06/19/20	200uL			50
VOA STD 8										
Prepared: 07/26/19 H										
Expires: 07/31/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Additions STD	Phenova	ALO-130175	2,000	CL12744-40591	07/09/20	08/31/20	100uL	4mL	Methanol	50
502.2 Cal. Std.	Phenova	ALO-101200	2,000	CL12489-40595	07/09/20	05/31/23	100uL			50
Vinyl Acetate	Phenova	ALO-101228	2,000	CL13816-41081	07/09/20	07/31/19	100uL			50
VOA STD TBA										
Prepared: 07/26/19 I										
Expires: 07/31/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Custom VOC Mix	Phenova	ALO-130176	2,000	CL12929-41066	07/17/20	11/30/20	500uL	4mL	Methanol	250
Acrolein	Phenova	ALO-130549	10,000	CL13820-41082	07/09/20	07/31/19	100uL			250
VOA STD 1										
Prepared: 07/26/19 J										
Expires: 09/24/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
2-CEVE	Absolute	071018-40341	2,000	071018-40713	07/05/20	07/10/21	50	2mL	Methanol	50
VOA STD 2										
Prepared: 07/26/19 K										
Expires: 09/24/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Ketones Std.	Phenova	ALO-109211	2,000	CL12729-40181	07/09/20	08/31/28	100	4mL	Methanol	50
VOA STD 9										
Prepared: 07/26/19 L										
Expires: 09/24/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA STD. 7		VOA STD. 9	50	Prepared 07/26/19	05/21/20	N/A	200uL	2mL	Methanol	5
VOA STD. 8			50	Prepared 07/26/19	05/21/20	N/A	200uL			5
VOA STD. 10										
Prepared: 07/26/19 M										
Expires: 09/24/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA STD. 1		VOA STD. 10	50	Prepared 07/26/19	05/21/20	N/A	200uL	2mL	Methanol	5
VOA STD. 12										
Prepared: 07/26/19 N										
Expires: 09/24/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA STD. 2		VOA STD. 12	50	Prepared 07/26/19	05/21/20	N/A	200uL	2mL	Methanol	5

Second Source (SS) Standards										
VOA STD. 3										
Prepared: 07/26/19 O										
Expires: 09/24/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): CMM										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Ketones Standard	Phenova	ALO-101211	2,000	CL12730-40609	07/09/20	08/31/28	50uL	2mL	Methanol	50
VOA STD. 5										
Prepared: 07/26/19 P										
Expires: 09/24/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): CMM										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
8260 Gases (SS)	Phenova	ALO-101206	2,000	CL12966-40912	06/26/20	11/30/23	50uL	2mL	Methanol	50
2-CEVE (SS)	Absolute	82408	2,000	071018-40965	0709/2020	07/10/21	50uL			50
VOA STD. 6										
Prepared: 07/26/19 Q										
Expires: 07/17/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): CMM										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
502.2 Calibration STD. (54-compounds)	Phenova	ALO-101200	2,000	CL12490-40917	07/09/20	05/31/23	50uL	2mL	Methanol	50
Vinyl Acetate	Phenova	ALO-101228	2,000	CL13739-40986	06/25/20	07/17/19	50uL			50
Hexachloroethane	Accustan	AS-E0011	1,000	219061767-41116	07/26/20	06/28/29	100uL			50
Benzyl Chloride	Accustan	M-8010-01	200	219041664	07/26/20	05/22/21	500uL			50
VOA STD. TBA										
Prepared: 07/26/19 R										
Expires: 07/17/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): CMM										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Custom VOA Mix (4-3)	Phenova	ALO-130176	2,000	CL12542-39863	07/17/20	05/31/20	250uL	2mL	Methanol	250
Acrolein	Phenova	ALO-101224	10,000	CL13741-40987	06/25/20	07/17/19	50uL			250
VOA STD. 0										
Prepared: 07/26/19 S										
Expires: 07/09/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): CMM										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Addition STD.	Phenova	ALO-130175	2,000	CL12744-40994	07/09/19	08/31/20	50uL	2mL	Methanol	50
BFB Tune										
Prepared: 07/24/19										
Expires: 01/19/21										
Methanol Lot No. 58019-00958										
Prepared By (Initials): CMM										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
4-Bromofluorobenzene	O2SI	020135-03	2,500	342387-39071	07/24/20	01/19/21	20uL	2mL	Methanol	25

Thor Gas Standard Prep

Gas Primary Working Standard										
Prepared: 07/16/19						Prepared By (Initials): <u>DG</u>				
Expires: 07/15/20										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
50,000ug/mL Gas STD	Restek	30205	50,000	A0132443-39859	07/16/20	12/31/24	80uL	2mL	Methanol	2,000
Gas Second Source (SS) Working Standard										
Prepared: 07/16/19						Prepared By (Initials): <u>DG</u>				
Expires: 07/15/20										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Gasoline (5,000ppm)	O2SI	020246-06	5,000	CL11750-40999	07/16/20	02/28/27	800uL	2mL	Methanol	2,000
Thor Gas Calibration Curve										
Prepared: 07/29/18						Prepared By (Initials): <u>CMM</u>				
Expires: 09/27/18										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA Gasses Standards	Phenova	20ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	1uL	100mL	P&T Water	20
VOA Gasses Standards	Phenova	50ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	2.5uL	100mL	P&T Water	50
VOA Gasses Standards	Phenova	100ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	5uL	100mL	P&T Water	100
VOA Gasses Standards	Phenova	300ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	15uL	100mL	P&T Water	300
VOA Gasses Standards	Phenova	600ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	30uL	100mL	P&T Water	600
VOA Gasses Standards	Phenova	800ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	40uL	100mL	P&T Water	800
VOA Gasses Standards	Phenova	1,000ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	50uL	100mL	P&T Water	1,000
Thor Gas Second Source										
Prepared: 07/29/18						Prepared By (Initials): <u>CMM</u>				
Expires: 09/27/18										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
50,000ug/mL Gas STD	Phenova	SS 300ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	15uL	100mL	P&T Water	300
Thor Gas Continuing Calibrations/Lab Control Spikes										
Prepared: 07/29/18						Prepared By (Initials): <u>CMM</u>				
Expires: 07/30/18										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Gasses Standards	Phenova	300ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	15uL	100mL	P&T Water	300
Thor Gas Surrogate										
Prepared: 08/13/18						Prepared By (Initials): <u>PC</u>				
Expires: 04/02/19										
Methanol Lot No. 57159										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
8260B Surrogate Solution	O2SI	120002-01	2,000	275545-36329	06/09/19	04/02/19	375uL	15mL	Methanol	50
Thor Gas Internal Standard										
Prepared: 05/09/18						Prepared By (Initials): <u>PC</u>				
Expires: 04/13/19										
Methanol Lot No. 58149										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
IS Solution	O2SI	120004-02	2,000	326533-38443	04/13/19	04/27/21	375uL	15mL	Methanol	50

Gas Primary Working Standard										
Prepared: 07/16/19						Prepared By (Initials): <u>DG</u>				
Expires: 12/31/24										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
50,000ug/mL Gas STD	Restek	30205	50,000	A0132443-39859	07/16/20	12/31/24	80uL	2mL	Methanol	2,000
Gas Second Source (SS) Working Standard										
Prepared: 07/16/19						Prepared By (Initials): <u>DG</u>				
Expires: 10/31/20										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Gasoline (50,000ppm)	Phenova	ALO-101543	50,000	CL11750-40999	07/16/20	02/28/27	80uL	2mL	Methanol	2,000

Loki Gas Standard Prep

Gas Primary Working Standard											
Prepared: 07/16/19						Prepared By (Initials): DG					
Expires: 07/15/20											
Methanol Lot No. 58019-00962											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
50,000ug/mL Gas STD	Restek	30205	50,000	A0132443-39859	07/16/20	12/31/24	80uL	2mL	Methanol	2,000	
Gas Second Source (SS) Working Standard											
Prepared: 07/16/19						Prepared By (Initials): DG					
Expires: 07/15/20											
Methanol Lot No. 58019-00962											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
Gasoline (5,000ppm)	O2SI	020246-06	5,000	CL11750-40999	07/16/20	02/28/27	800uL	2mL	Methanol	2,000	
Loki Gas Calibration Curve											
Prepared: 07/04/19						Prepared By (Initials): DG					
Expires: 09/02/19											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)	
VOA Gasses Standards	Phenova	20ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	1uL	100mL	P&T Water	20	
VOA Gasses Standards	Phenova	50ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	2.5uL	100mL	P&T Water	50	
VOA Gasses Standards	Phenova	100ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	5uL	100mL	P&T Water	100	
VOA Gasses Standards	Phenova	300ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	15uL	100mL	P&T Water	300	
VOA Gasses Standards	Phenova	600ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	30uL	100mL	P&T Water	600	
VOA Gasses Standards	Phenova	800ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	40uL	100mL	P&T Water	800	
VOA Gasses Standards	Phenova	1,000ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	50uL	100mL	P&T Water	1,000	
Loki Gas Second Source											
Prepared: 07/04/19						Prepared By (Initials): DG					
Expires: 09/02/19											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)	
50,000ug/mL Gas STD	Phenova	SS 300ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	15uL	100mL	P&T Water	300	
Loki Gas Continuing Calibrations/Lab Control Spikes											
Prepared: 07/04/19						Prepared By (Initials): DG					
Expires: 07/05/19											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
VOA Gasses Standards	Phenova	300ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	15uL	100mL	P&T Water	300	
Loki Gas Surrogate											
Prepared: 08/30/18						Prepared By (Initials): PC					
Expires: 04/02/19											
Methanol Lot No. 57159											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
8260B Surrogate Solution	O2SI	120002-01	2,000	275545-36329	06/09/19	04/02/19	375uL	15mL	Methanol	50	
Loki Gas Internal Standard											
Prepared: 08/24/18						Prepared By (Initials): PC					
Expires: 04/13/19											
Methanol Lot No. 57159											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)	
IS Solution	O2SI	120004-02	2,000	326533-38443	04/13/19	04/27/21	375uL	15mL	Methanol	50	

Gas Primary Working Standard										
Prepared: 07/16/19						Prepared By (Initials): <u>DG</u>				
Expires: 12/31/24										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
50,000ug/mL Gas STD	Restek	30205	50,000	A0132443-39859	07/16/20	12/31/24	80uL	2mL	Methanol	2,000
Gas Second Source (SS) Working Standard										
Prepared: 07/16/19						Prepared By (Initials): <u>DG</u>				
Expires: 10/31/20										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Gasoline (50,000ppm)	Phenova	ALO-101543	50,000	CL11750-40999	07/16/20	02/28/27	80uL	2mL	Methanol	2,000

Loki 8260 Standard Prep

Loki 8260 Water Calibration Curve										
0.3ug/L						Prepared By (Initials): <u>CMM</u>				
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	0.3ug/L	5	Prepared 07/24/19	09/22/19	N/A	3uL	50mL	P&T Water	0.3
VOA STD. 10	O2SI		5	Prepared 07/24/19	09/22/19	N/A	3uL			0.3
VOA STD. 12	O2SI		5	Prepared 07/24/19	09/22/19	N/A	3uL			0.3
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	2uL			10
0.5ug/L										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	0.5ug/L	5	Prepared 07/24/19	09/22/19	N/A	5uL	50mL	P&T Water	0.5
VOA STD. 10	O2SI		5	Prepared 07/24/19	09/22/19	N/A	5uL			0.5
VOA STD. 12	O2SI		5	Prepared 07/24/19	09/22/19	N/A	5uL			0.5
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	5uL			25
1.0ug/L										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	1.0ug/L	5	Prepared 07/24/19	09/22/19	N/A	10uL	50mL	P&T Water	1
VOA STD. 10	O2SI		5	Prepared 07/24/19	09/22/19	N/A	10uL			1
VOA STD. 12	O2SI		5	Prepared 07/24/19	09/22/19	N/A	10uL			1
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	10uL			50
2.0ug/L										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	2.0ug/L	5	Prepared 07/24/19	09/22/19	N/A	20uL	50mL	P&T Water	2
VOA STD. 10	O2SI		5	Prepared 07/24/19	09/22/19	N/A	20uL			2
VOA STD. 12	O2SI		5	Prepared 07/24/19	09/22/19	N/A	20uL			2
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	15uL			75
5ug/L										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	5ug/L	50	Prepared 07/24/19	09/22/19	N/A	5uL	50mL	P&T Water	5
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	5uL			5
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	5uL			5
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	5uL			5
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	20uL			100
10ug/L										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	10ug/L	50	Prepared 07/24/19	09/22/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	10uL			10
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	25uL			125

* Entry Error
wrong date
7/8/24

* 7/27/19

20ug/L										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	20ug/L	50	Prepared 07/24/19	09/22/19	N/A	20uL	50mL	P&T Water	20
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	20uL			20
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	20uL			20
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	20uL			20
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	30uL			150
40ug/L										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	40ug/L	50	Prepared 07/24/19	09/22/19	N/A	40uL	50mL	P&T Water	40
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	40uL			40
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	40uL			40
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	40uL			40
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	35uL			175
100ug/L										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	100ug/L	50	Prepared 07/24/19	09/22/19	N/A	100uL	50mL	P&T Water	100
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	100uL			100
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	100uL			100
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	100uL			100
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	40uL			200
Loki 8260 Water Second Source (SS)										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 4	Phenova	8260 Water SS	50	Prepared 07/24/19	09/22/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 5	O2SI	8260 Water SS	50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. 6	Various	8260 Water SS	50	Prepared 07/24/19	07/17/19	N/A	10uL			10
VOA STD. TBA	Various	8260 Water SS	250	Prepared 07/24/19	07/17/19	N/A	25uL			250
8260 Water Continuing Calibrations (CCV)/ Lab Control Spikes (LCS)										
Prepared: 07/24/19										
Expires: 07/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	CCV/ LCS	50	Prepared 07/24/19	09/22/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova	CCV/ LCS	50	Prepared 07/24/19	07/31/19	N/A	10uL			10
VOA STD. 1	O2SI	CCV/ LCS	50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. 2	O2SI	CCV/ LCS	50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. TBA	Various	CCV/ LCS	250	Prepared 07/24/19	07/31/19	N/A	25uL			125
LCS (X4 Ketones)										
Prepared: 07/24/19										
Expires: 07/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	LCS X4 Ketones	50	Prepared 07/24/19	09/22/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova	LCS X4 Ketones	50	Prepared 07/24/19	07/31/19	N/A	10uL			10
VOA STD. 1	O2SI	LCS X4 Ketones	50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. 2	O2SI	LCS X4 Ketones	50	Prepared 07/24/19	09/22/19	N/A	40uL			40
VOA STD. TBA	Various	LCS X4 Ketones	250	Prepared 07/24/19	07/31/19	N/A	25uL			125

* 7/17/19

* Entry error wrong date 2/1/22/19

Loki 8260 Water Surrogate							Prepared By (Initials): <u>DG</u>				
Prepared: 08/08/19											
Expires: 04/04/20											
Methanol Lot No: 58243											

Initial Standard Information							Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
8260 Surrogate Solution	O2SI	120002-01	2,000	348756-39341	04/04/20	02/10/22	375uL	15mL	Methanol	50	

Loki 8260 Water Internal Standard							Prepared By (Initials): <u>DG</u>				
Prepared: 08/09/19											
Expires: 08/06/20											
Methanol Lot No: 58243											

Initial Standard Information							Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
Internal Standard Solution	Phenova	ALO-101215	2,500	CL12444-40615	08/06/20	04/30/23	300uL	15mL	Methanol	50	

Primary and Secondary Working Standards

Primary Standards										
VOA STD 7										
Prepared: 07/17/19 C										
Expires: 09/15/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Gasses STD	Phenova	ALO-101206	2,000	CL12965-408901	07/09/20	11/30/23	100uL	4mL	Methanol	50
Hexachloroethane	Absolute	70199	1,000	091818-40719	07/09/20	09/18/23	200uL			50
Benzyl Chloride	Absolute	70037	1,000	021119-40680	07/09/20	02/11/20	200uL			50
VOA STD 8										
Prepared: 07/17/19 D										
Expires: 07/31/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Additions STD	Phenova	ALO-130175	2,000	CL12744-40591	07/09/20	08/31/20	100uL	4mL	Methanol	50
502.2 Cal. Std.	Phenova	ALO-101200	2,000	CL12489-40595	07/09/20	05/31/23	100uL			50
Vinyl Acetate	Phenova	ALO-101228	2,000	CL13816-41081	07/09/20	07/31/19	100uL			50
VOA STD TBA										
Prepared: 07/17/19 E										
Expires: 07/31/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Custom VOC Mix	Phenova	ALO-130176	2,000	CL12929-41066	07/17/20	11/30/20	500uL	4mL	Methanol	250
Acrolein	Phenova	ALO-130549	10,000	CL13820-41082	07/09/20	07/31/19	100uL			250
VOA STD 1										
Prepared: 07/17/19 F										
Expires: 09/15/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
2-CEVE	Absolute	071018-40341	2,000	071018-40713	07/05/20	07/10/21	50	2mL	Methanol	50
VOA STD 2										
Prepared: 07/17/19 G										
Expires: 09/15/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Ketones Std	Phenova	ALO-109211	2,000	CL12729-40181	07/09/20	08/31/28	100	4mL	Methanol	50
VOA STD 9										
Prepared: 07/17/19 H										
Expires: 09/15/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA STD. 7		VOA STD. 9	50	Prepared 07/17/19	05/21/20	N/A	200uL	2mL	Methanol	5
VOA STD. 8			50	Prepared 07/17/19	05/21/20	N/A	200uL			5
VOA STD. 10										
Prepared: 07/17/19 I										
Expires: 09/15/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA STD. 1		VOA STD. 10	50	Prepared 07/17/19	05/21/20	N/A	200uL	2mL	Methanol	5
VOA STD. 12										
Prepared: 07/17/19 J										
Expires: 09/15/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA STD. 2		VOA STD. 12	50	Prepared 07/17/19	05/21/20	N/A	200uL	2mL	Methanol	5

Second Source (SS) Standards										
VOA STD. 3										
Prepared: 07/17/19 K										
Expires: 09/15/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): CMM										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Ketones Standard	Phenova	ALO-101211	2,000	CL12730-40609	07/09/20	08/31/28	50uL	2mL	Methanol	50
VOA STD. 5										
Prepared: 07/17/19 L										
Expires: 09/15/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): CMM										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
8260 Gases (SS)	Phenova	ALO-101206	2,000	CL12966-40911	07/09/20	11/30/23	50uL	2mL	Methanol	50
2-CEVE (SS)	Absolute	82408	2,000	071018-40965	0709/2020	07/10/21	50uL			50
VOA STD. 6										
Prepared: 07/17/19 M										
Expires: 07/17/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): CMM										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
502.2 Calibration STD. (54-compounds)	Phenova	ALO-101200	2,000	CL12490-40917	07/09/20	05/31/23	50uL	2mL	Methanol	50
Vinyl Acetate	Phenova	ALO-101228	2,000	CL13739-40986	06/25/20	07/17/19	50uL			50
Hexachloroethane	Accustan	AS-E0011	1,000	218051281-40737	07/09/20	05/14/28	100uL			50
Benzyl Chloride	Accustan	M-8010-01	200	219041664-40952	07/09/20	05/22/21	500uL			50
VOA STD. TBA										
Prepared: 07/17/19 N										
Expires: 07/17/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): CMM										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Custom VOA Mix (4-3)	Phenova	ALO-130176	2,000	CL12542-39863	07/17/20	05/31/20	250uL	2mL	Methanol	250
Acrolein	Phenova	ALO-101224	10,000	CL13741-40987	06/25/20	07/17/19	50uL			250
VOA STD. 0										
Prepared: 07/17/19 O										
Expires: 07/09/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): CMM										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Addition STD.	Phenova	ALO-130175	2,000	CL12744-40994	07/09/19	08/31/20	50uL	2mL	Methanol	50
BFB Tune										
Prepared: 07/05/19										
Expires: 01/19/21										
Methanol Lot No. 58019-00958										
Prepared By (Initials): DG										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
4-Bromofluorobenzene	O2SI	020135-03	2,500	342387-39073	04/19/20	01/19/21	20uL	2mL	Methanol	25

Injection Log

Directory: M:\LOKINDATA\190715\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
26	0716L27.D	1	20ug/L GAS STD 7/16/19	IS&S 7/15/19,6/5/19	16 Jul 19 23:53
27	0716L28.D	1	50ug/L GAS STD 7/16/19	IS&S 7/15/19,6/5/19	17 Jul 19 00:22
28	0716L29.D	1	100ug/L GAS STD 7/16/19	IS&S 7/15/19,6/5/19	17 Jul 19 00:51
29	0716L30.D	1	300ug/L GAS STD 7/16/19	IS&S 7/15/19,6/5/19	17 Jul 19 1:20
30	0716L31.D	1	600ug/L GAS STD 7/16/19	IS&S 7/15/19,6/5/19	17 Jul 19 1:48
31	0716L32.D	1	800ug/L GAS STD 7/16/19	IS&S 7/15/19,6/5/19	17 Jul 19 2:17
32	0716L33.D	1	1000ug/L GAS STD 7/16/19	IS&S 7/15/19,6/5/19	17 Jul 19 2:46
33	0716L34.D	1	(SS)300ug/L GAS STD 7/16/19	IS&S 7/15/19,6/5/19	17 Jul 19 3:14
4	0724L15.D	1	0.3ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 15:18
5	0724L16.D	1	0.5ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 15:47
6	0724L17.D	1	1.0ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 16:16
7	0724L18.D	1	2.0ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 16:45
8	0724L19.D	1	5.0ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 17:14
9	0724L20.D	1	10ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 17:42
10	0724L21.D	1	20ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 18:11
11	0724L22.D	1	40ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 18:40
12	0724L23.D	1	100ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 19:09
23	0727L23.D	1	190727B CCV 300ug/L	IS&S 7/15/19,6/5/19	27 Jul 19 20:22
24	0727L24.D	1	190727B LCS 300ug/L	IS&S 7/15/19,6/5/19	27 Jul 19 20:50
25	0727L25.D	1	190727B LCSD 300ug/L	IS&S 7/15/19,6/5/19	27 Jul 19 21:19
26	0727L26.D	1	190727B BLK	IS&S 7/15/19,6/5/19	27 Jul 19 21:48
32	0727L32.D	1	AZ95328W01	IS&S 7/15/19,6/5/19	28 Jul 19 00:40
33	0727L33.D	1	AZ95329W01	IS&S 7/15/19,6/5/19	28 Jul 19 1:09
41	0727L41.D	1	Ending CCV 300ug/L 07/27/19	IS&S 7/15/19,6/5/19	28 Jul 19 5:00

Injection Log

Directory: M:\THOR\DATA\T190726\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
4	0726T04.D	1	0.3ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 13:35
5	0726T05.D	1	0.5ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 14:03
6	0726T06.D	1	1.0ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 14:31
7	0726T07.D	1	2.0ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 14:59
8	0726T08.D	1	5.0ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 15:27
9	0726T09.D	1	10ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 15:55
10	0726T10.D	1	20ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 16:24
12	0726T12.D	1	100ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 17:20
7	0729T07.D	1	20ug/L GAS STD 07/29/19	IS&S 7/6/19, 6/2/19	29 Jul 19 11:30
8	0729T08.D	1	50ug/L GAS STD 07/29/19	IS&S 7/6/19, 6/2/19	29 Jul 19 11:57
9	0729T09.D	1	100ug/L GAS STD 07/29/19	IS&S 7/6/19, 6/2/19	29 Jul 19 12:25
10	0729T10.D	1	300ug/L GAS STD 07/29/19	IS&S 7/6/19, 6/2/19	29 Jul 19 12:53
11	0729T11.D	1	600ug/L GAS STD 07/29/19	IS&S 7/6/19, 6/2/19	29 Jul 19 13:21
12	0729T12.D	1	800ug/L GAS STD 07/29/19	IS&S 7/6/19, 6/2/19	29 Jul 19 13:50
13	0729T13.D	1	1000ug/L GAS STD 07/29/19	IS&S 7/6/19, 6/2/19	29 Jul 19 14:18
15	0729T15.D	1	SS 300ug/L GAS STD 07/29/19	IS&S 7/6/19, 6/2/19	29 Jul 19 15:14
17	0729T17.D	1	190729B CCV 300ug/L	IS&S 7/6/19, 6/2/19	29 Jul 19 16:11
18	0729T18.D	1	190729B LCS 300ug/L	IS&S 7/6/19, 6/2/19	29 Jul 19 16:39
19	0729T19.D	1	190729B LCSD 300ug/L	IS&S 7/6/19, 6/2/19	29 Jul 19 17:07
26	0729T26.D	1	190729B BLK	IS&S 7/6/19, 6/2/19	29 Jul 19 20:24
27	0729T27.D	1	AZ95330W02	IS&S 7/6/19, 6/2/19	29 Jul 19 20:52
28	0729T28.D	1	AZ95331W01	IS&S 7/6/19, 6/2/19	29 Jul 19 21:20
29	0729T29.D	1	AZ95332W01	IS&S 7/6/19, 6/2/19	29 Jul 19 21:48
30	0729T30.D	1	AZ95333W01	IS&S 7/6/19, 6/2/19	29 Jul 19 22:16
31	0729T31.D	1	AZ95334W01	IS&S 7/6/19, 6/2/19	29 Jul 19 22:44
32	0729T32.D	1	AZ95335W01	IS&S 7/6/19, 6/2/19	29 Jul 19 23:12
33	0729T33.D	1	AZ95336W01	IS&S 7/6/19, 6/2/19	29 Jul 19 23:40
34	0729T34.D	1	AZ95337W01	IS&S 7/6/19, 6/2/19	30 Jul 19 00:08
35	0729T35.D	1	AZ95338W01	IS&S 7/6/19, 6/2/19	30 Jul 19 00:37
41	0729T41.D	1	Ending CCV 300ug/L 7/29/19	IS&S 7/6/19, 6/2/19	30 Jul 19 3:25

ORGANICS
Calibration Data

Form 6
Initial Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Initial Cal. Date: 06/18/19

Matrix: _____

Instrument: 7890

Initials:

19061802.D 19061803.D 19061804.D 19061805.D 19061806.D 19061807.D 19061808.D

	Compound	1	2	3	4	5	6	7				Avg	%RSD	Type	r^2	Q
1	ATML Methane	14748	10458	7136	9743	10449	11201	10592				10618	21	ATM	1.000	
2	ATML Ethane	13248	9958	6804	8700	8955	9680	8769				9445	21	ATM	0.999	
3	ATML Ethene	11298	8564	5896	7589	7406	8291	7253				8042	21	ATM	0.999	
4																
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35																

1.791451

Data File : G:\ROCKY\DATA\190618RS\19061802.D Vial: 3
 Acq On : 18 Jun 19 12:33 Operator: cmm
 Sample : RSK Std 1 06/18/19 Inst : 7890
 Misc : 125 uL from Std 3 Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jun 18 12:56 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jun 18 12:54:55 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

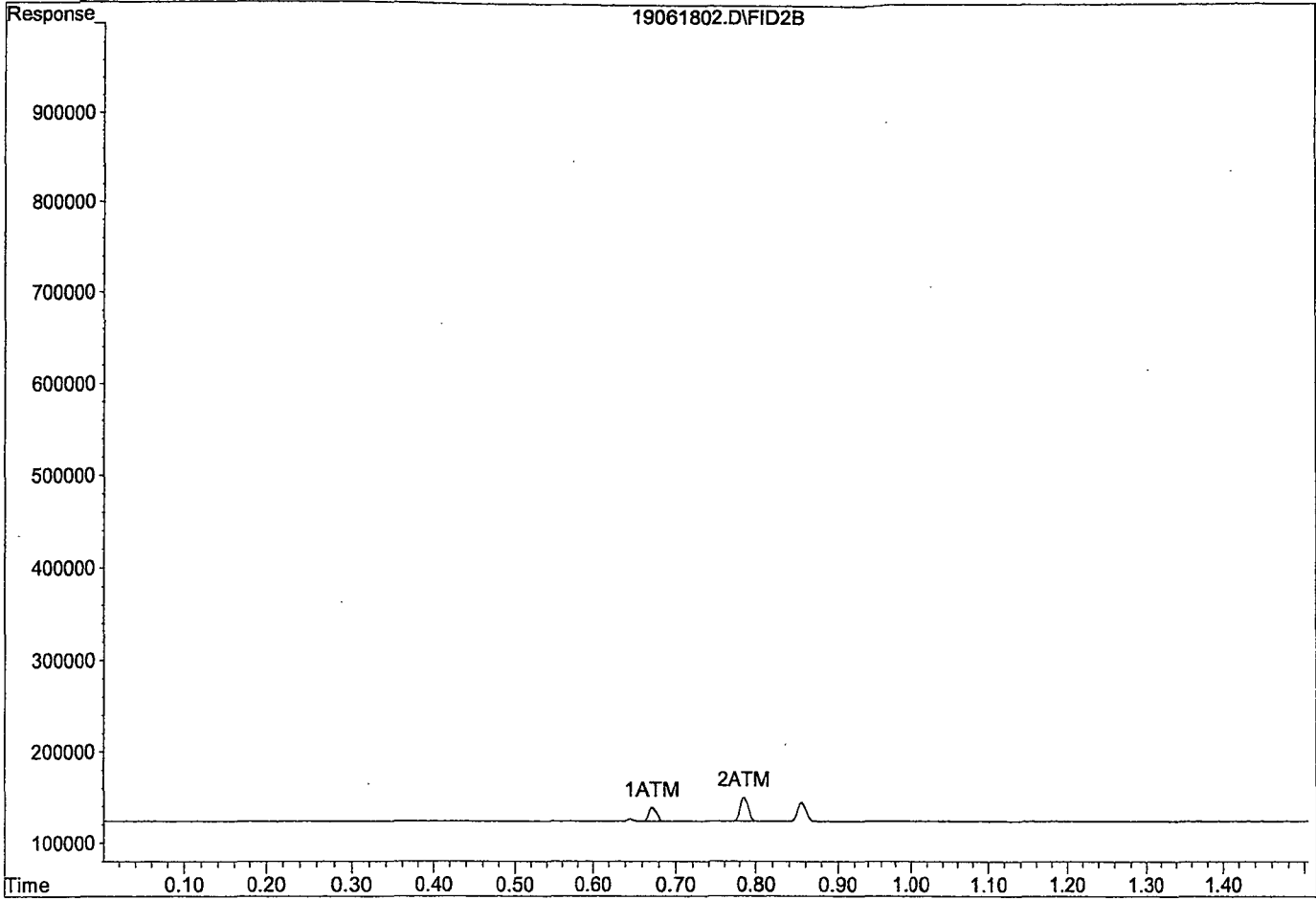
Compound	R.T.	Response	Conc Units

Target Compounds			
1) ATM Methane	0.67	15338	2.205 ppb
2) ATM Ethane	0.78	25899	0.205 ppb
Target Compounds			
3) ATM Ethene	0.85	20619	N.D. ppb

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19061802.D

Sample : RSK Std 1 06/18/19



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\190618RS\19061803.D Vial: 4
 Acq On : 18 Jun 19 12:36 Operator: cmm
 Sample : RSK Std 2 06/18/19 Inst : 7890
 Misc : 250 uL from Std 3 Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jun 18 12:56 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jun 18 12:54:55 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

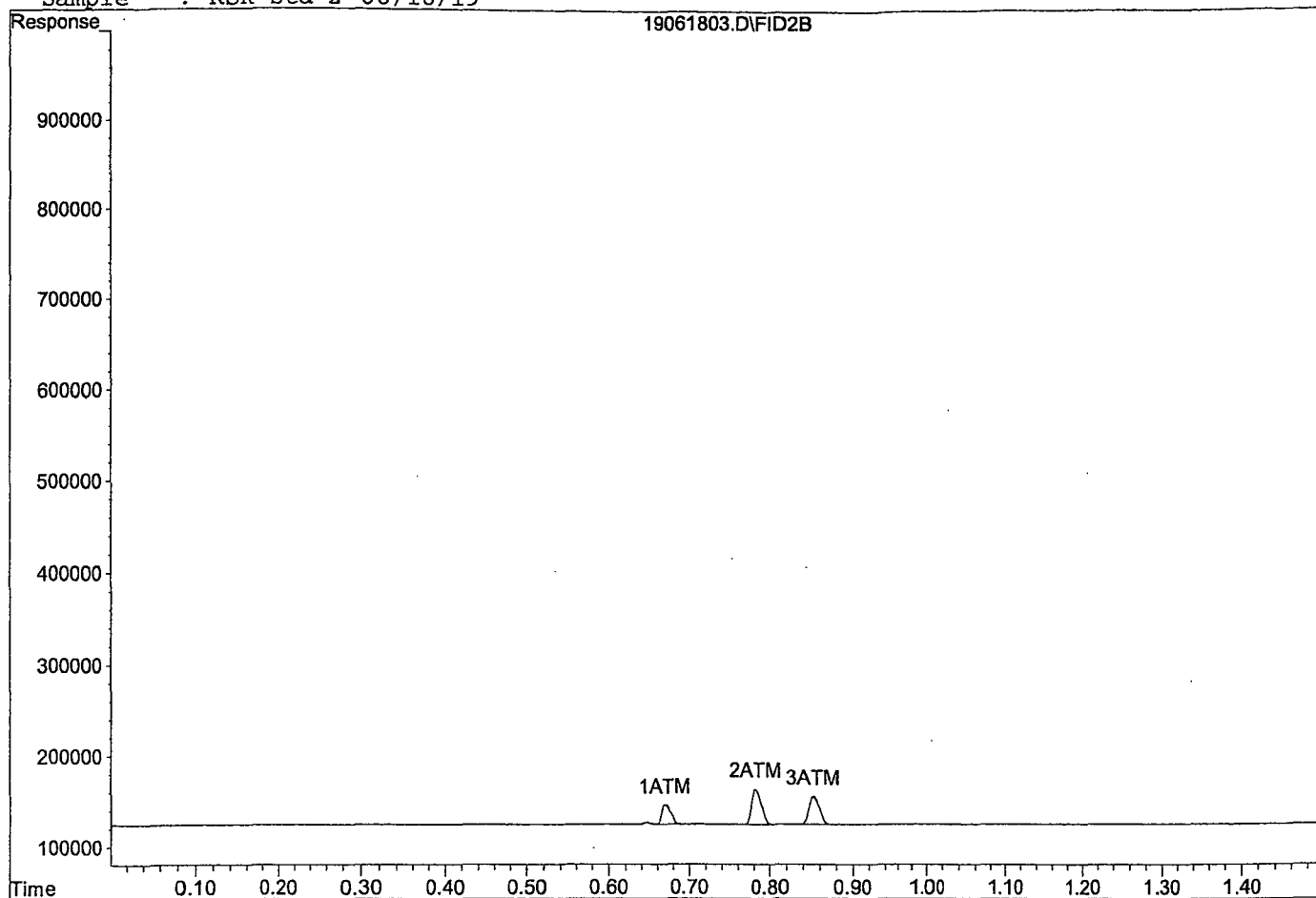
Target Compounds			
1) ATM Methane	0.67	21752	3.413 ppb
2) ATM Ethane	0.78	38887	3.163 ppb
3) ATM Ethene	0.85	31260	0.873 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19061803.D

Sample : RSK Std 2 06/18/19



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\190618RS\19061804.D Vial: 5
 Acq On : 18 Jun 19 12:39 Operator: cmm
 Sample : RSK Std 3 06/18/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jun 18 12:56 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jun 18 12:54:55 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

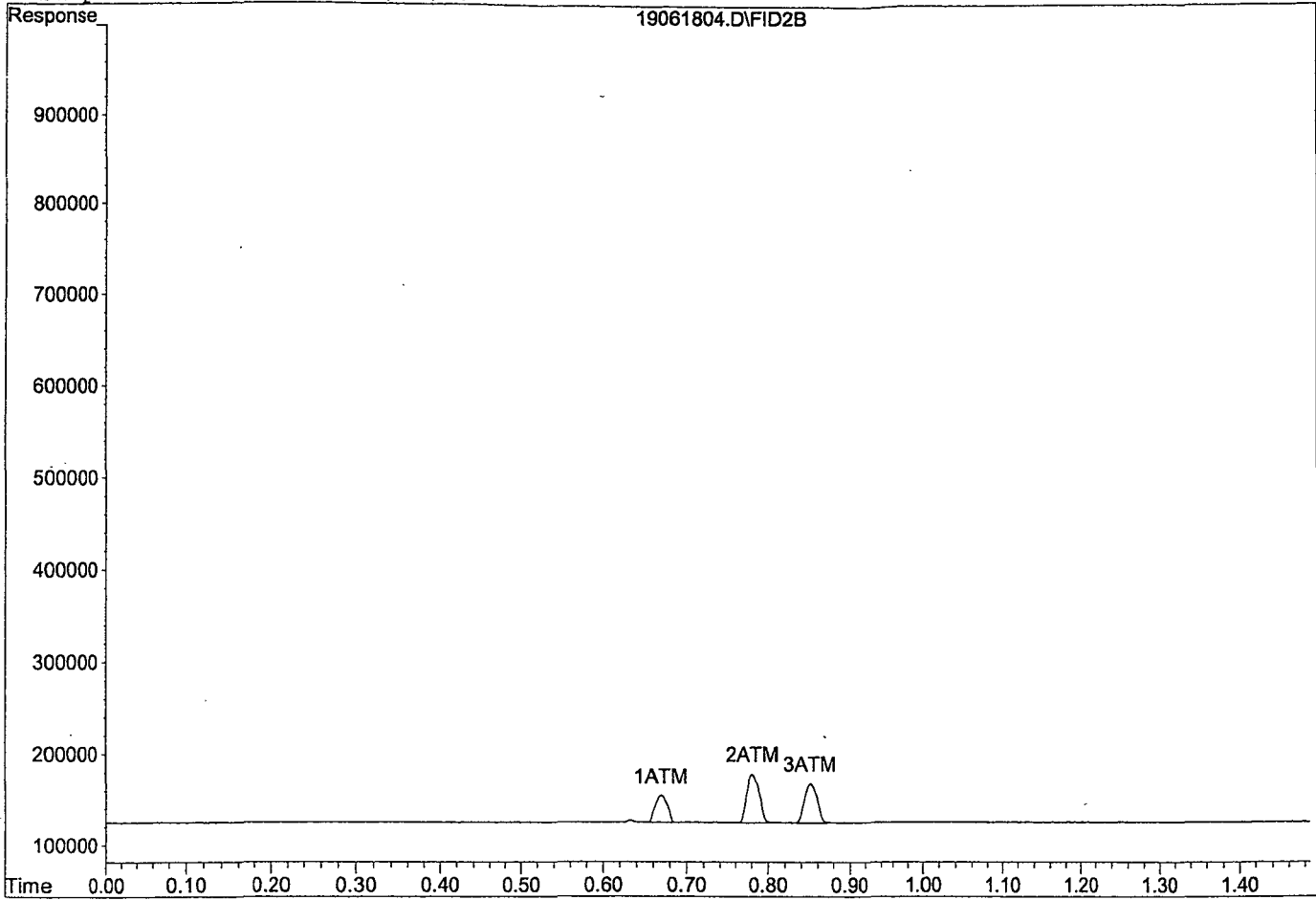
Target Compounds			
1) ATM Methane	0.67	29757	4.921 ppb
2) ATM Ethane	0.78	53072	6.393 ppb
3) ATM Ethene	0.85	43038	4.115 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19061804.D

Sample : RSK Std 3 06/18/19



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\190618RS\19061805.D Vial: 6
 Acq On : 18 Jun 19 12:42 Operator: cmm
 Sample : RSK Std 4 06/18/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jun 18 12:56 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jun 18 12:54:55 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

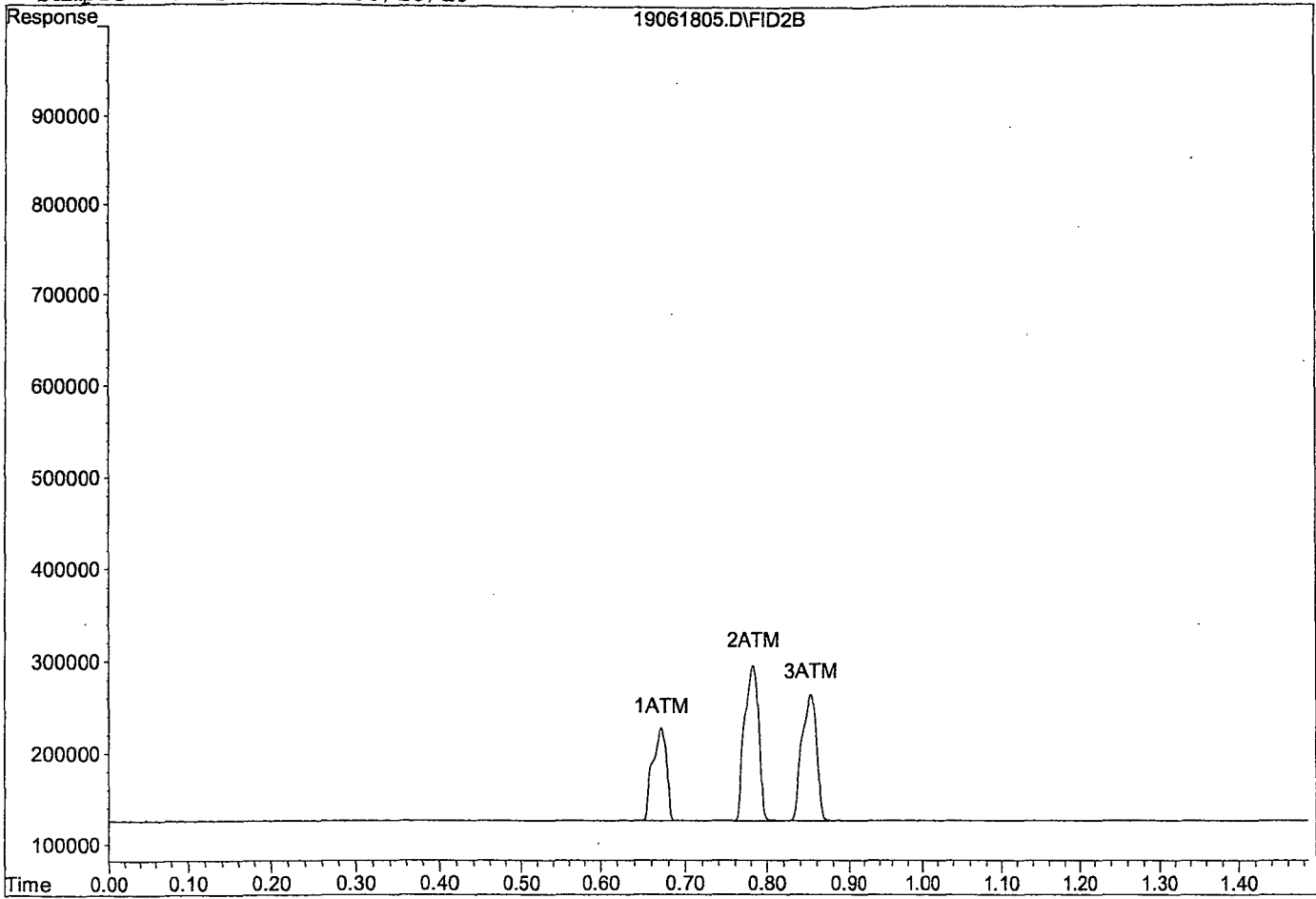
Target Compounds			
1) ATM Methane	0.67	101573	18.453 ppb
2) ATM Ethane	0.78	170046	33.032 ppb
3) ATM Ethene	0.85	138343	30.353 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19061805.D

Sample : RSK Std 4 06/18/19



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\190618RS\19061806.D Vial: 7
 Acq On : 18 Jun 19 12:44 Operator: cmm
 Sample : RSK Std 5 06/18/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jun 18 12:56 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jun 18 12:54:55 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

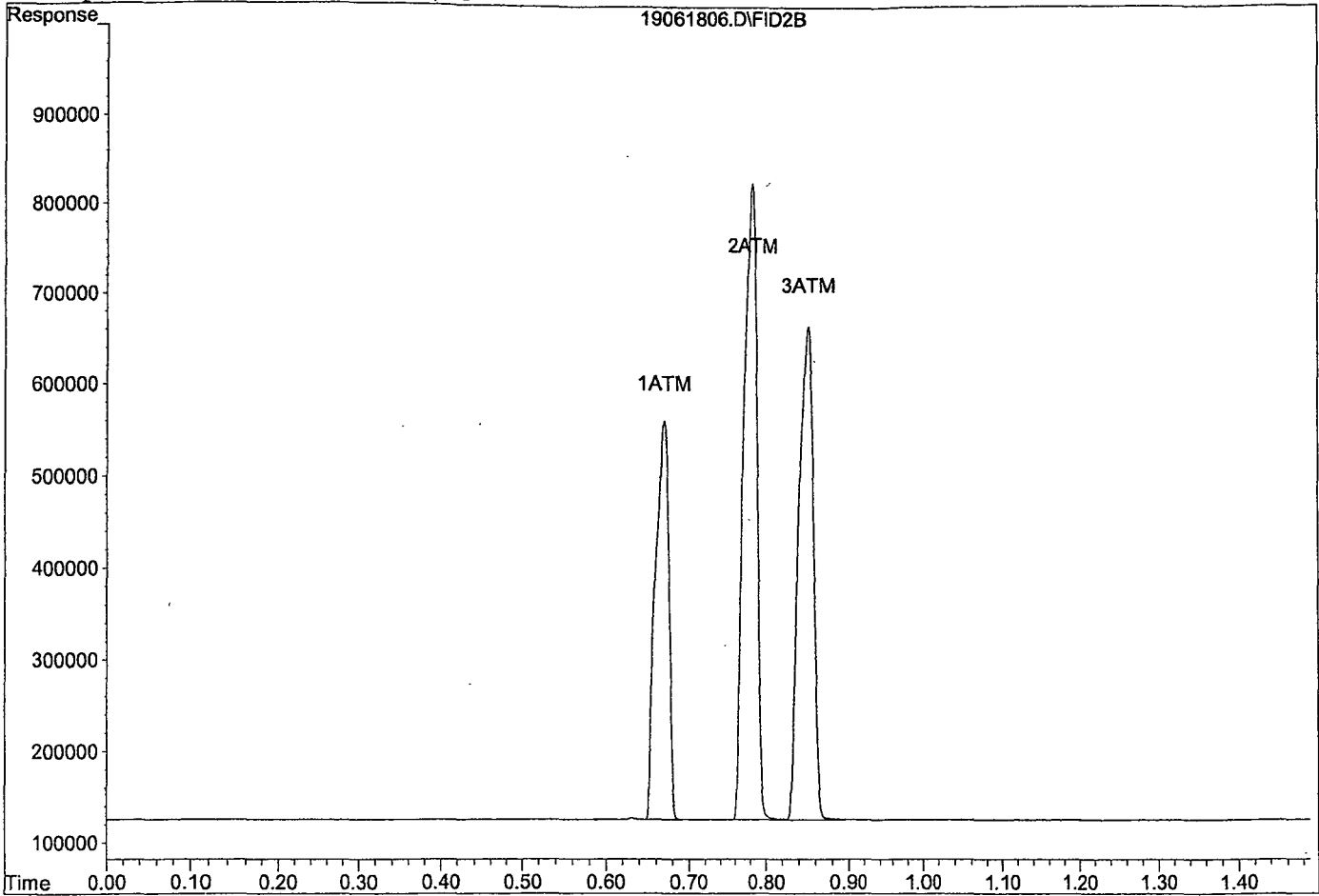
Compound	R.T.	Response	Conc Units

Target Compounds			
1) ATM Methane	0.67	435711	81.413 ppb
2) ATM Ethane	0.78	700049	153.731 ppb
3) ATM Ethene	0.85	540080	140.951 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19061806.D
Sample : RSK Std 5 06/18/19



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\190618RS\19061807.D Vial: 8
 Acq On : 18 Jun 19 12:47 Operator: cmm
 Sample : RSK Std 6 06/18/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jun 18 12:56 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jun 18 12:54:55 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

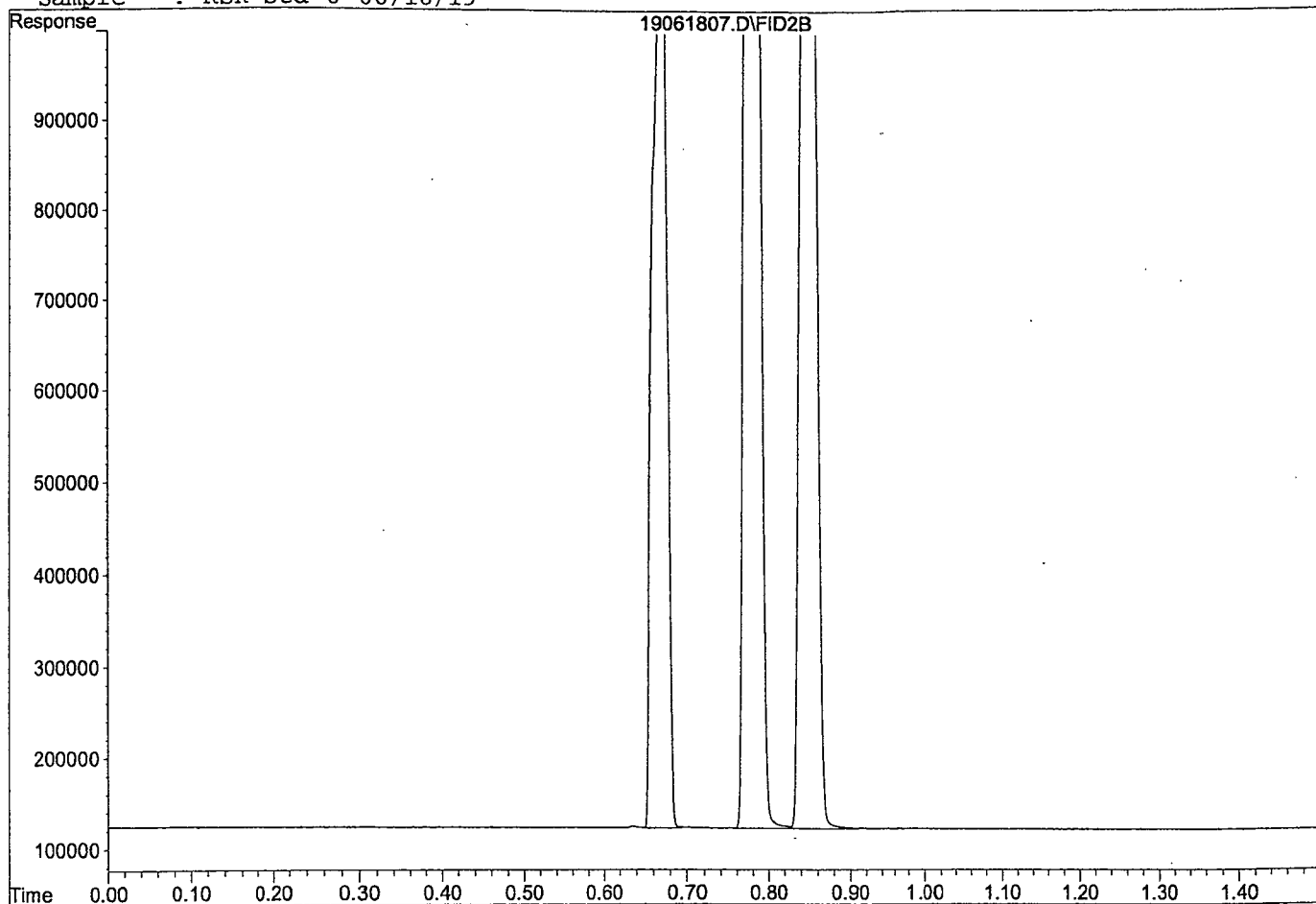
Target Compounds			
1) ATM Methane	0.67	1167694	219.338 ppb
2) ATM Ethane	0.78	1891954	425.166 ppb
3) ATM Ethene	0.85	1511420	408.362 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19061807.D

Sample : RSK Std 6 06/18/19



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\190618RS\19061808.D Vial: 9
 Acq On : 18 Jun 19 12:49 Operator: cmm
 Sample : RSK Std 7 06/18/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jun 18 12:56 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jun 18 12:54:55 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

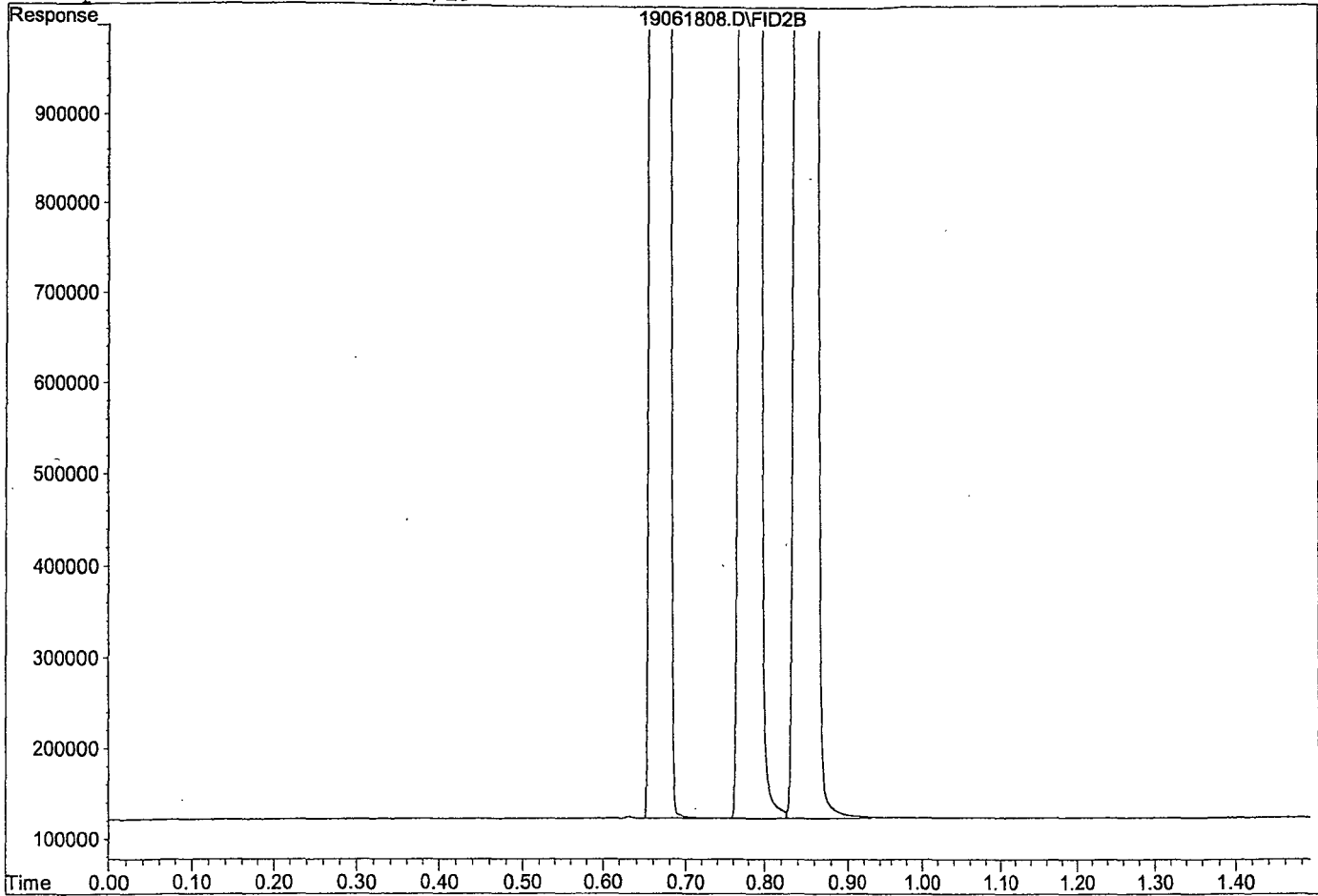
Target Compounds			
1) ATM Methane	0.67	4416985	831.587 ppb
2) ATM Ethane	0.79	6855267	1555.471 ppb
3) ATM Ethene	0.85	5288711	1448.253 ppb

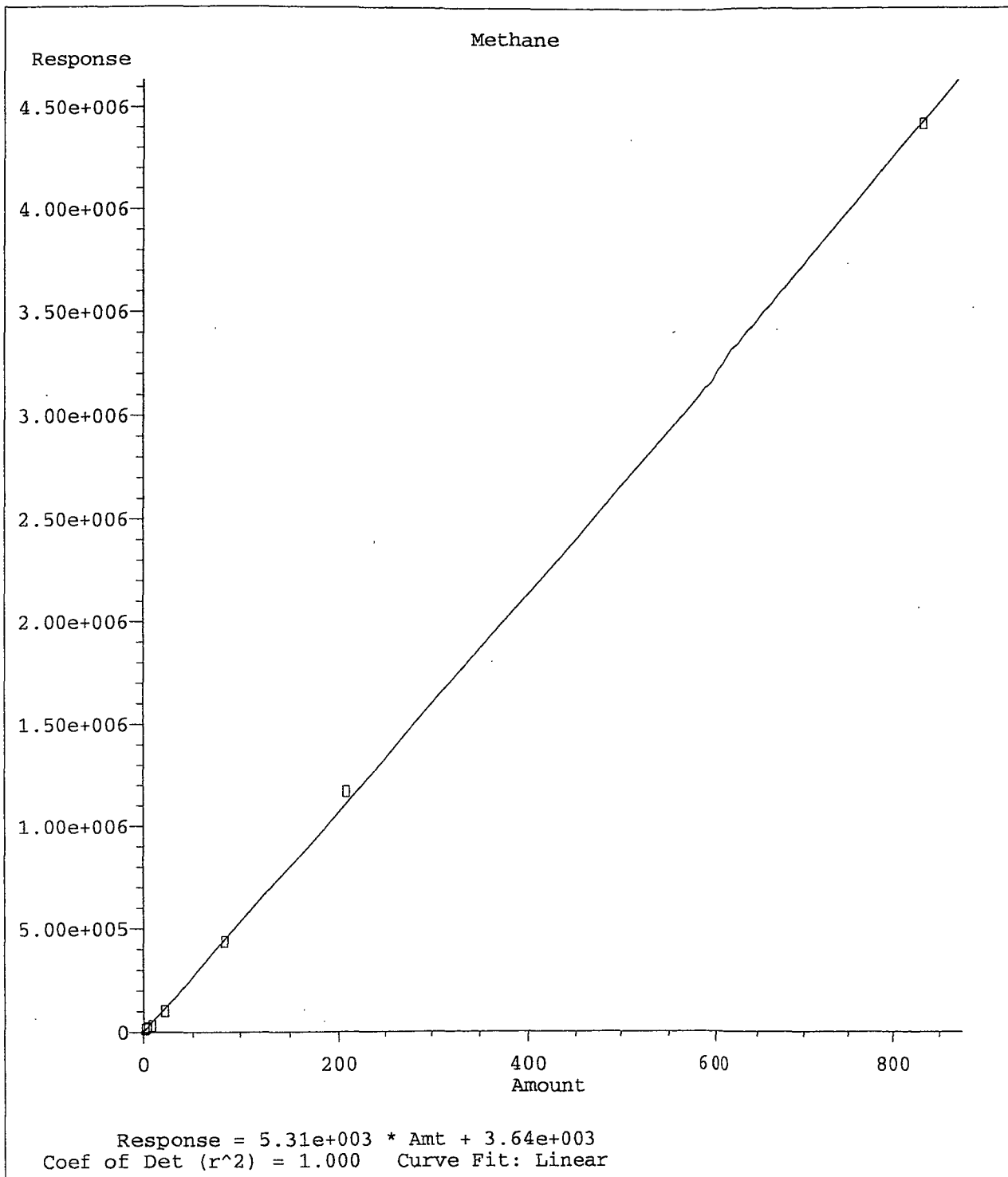
Target Compounds

Quantitation Report

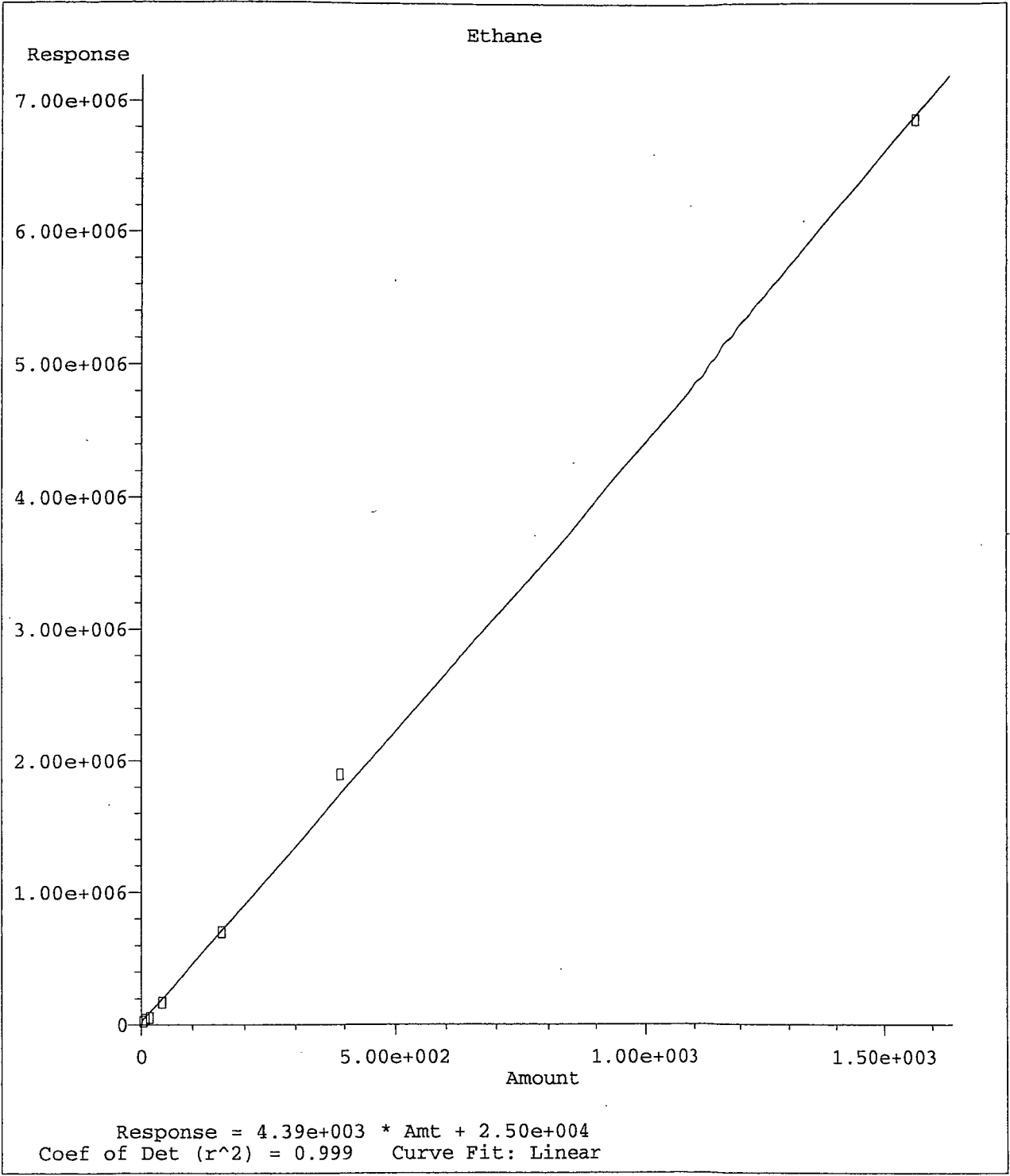
Data File: G:\ROCKY\DATA\190618RS\19061808.D

Sample : RSK Std 7 06/18/19

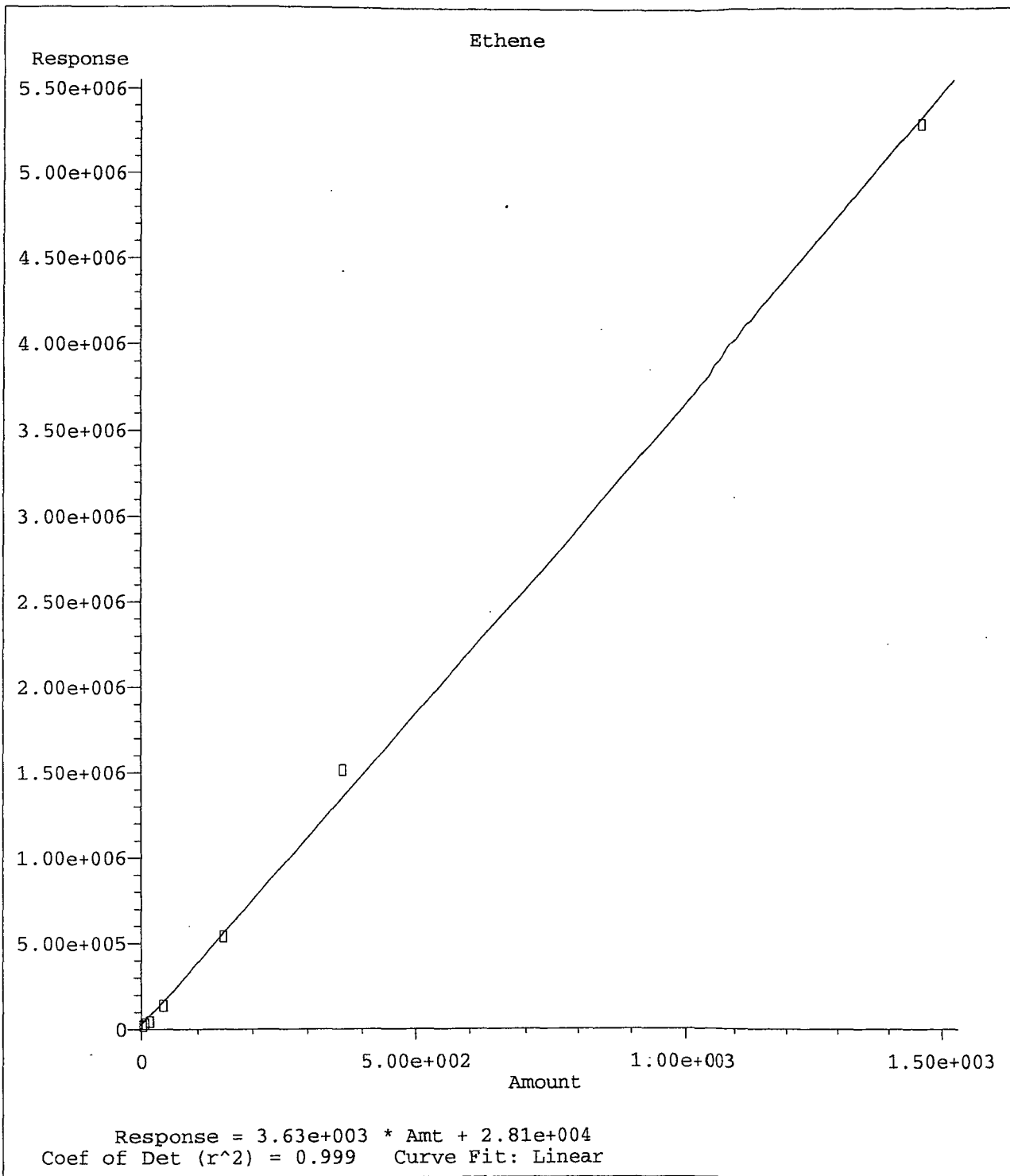




Method Name: G:\ROCKY\DATA\190618RS\RSK0618.M
Calibration Table Last Updated: Tue Jun 18 12:54:55 2019



Method Name: G:\ROCKY\DATA\190618RS\RSK0618.M
Calibration Table Last Updated: Tue Jun 18 12:54:55 2019



Method Name: G:\ROCKY\DATA\190618RS\RSK0618.M
Calibration Table Last Updated: Tue Jun 18 12:54:55 2019

RSK 175
RSK 175

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 06/18/19
Instrument: 7890
Initial Cal. Date: 06/18/19
Data File: 19061809.D

		Compound	MEAN	CCRF	%D	%Drift	
1	ATML	Methane	10618	11291	6.3	ATML	5.6
2	ATML	Ethane	9445	9533	0.93	ATML	4.9
3	ATML	Ethene	8042	7618	5.3	ATML	0.44
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
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28							
29							
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31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

Average

4.2

Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\190618RS\19061809.D Vial: 10
Acq On : 18 Jun 19 12:52 Operator: cmm
Sample : SS RSK Std 5 06/18/19 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Jun 18 12:55 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
Title : RSK 175
Last Update : Tue Jun 18 12:54:55 2019
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

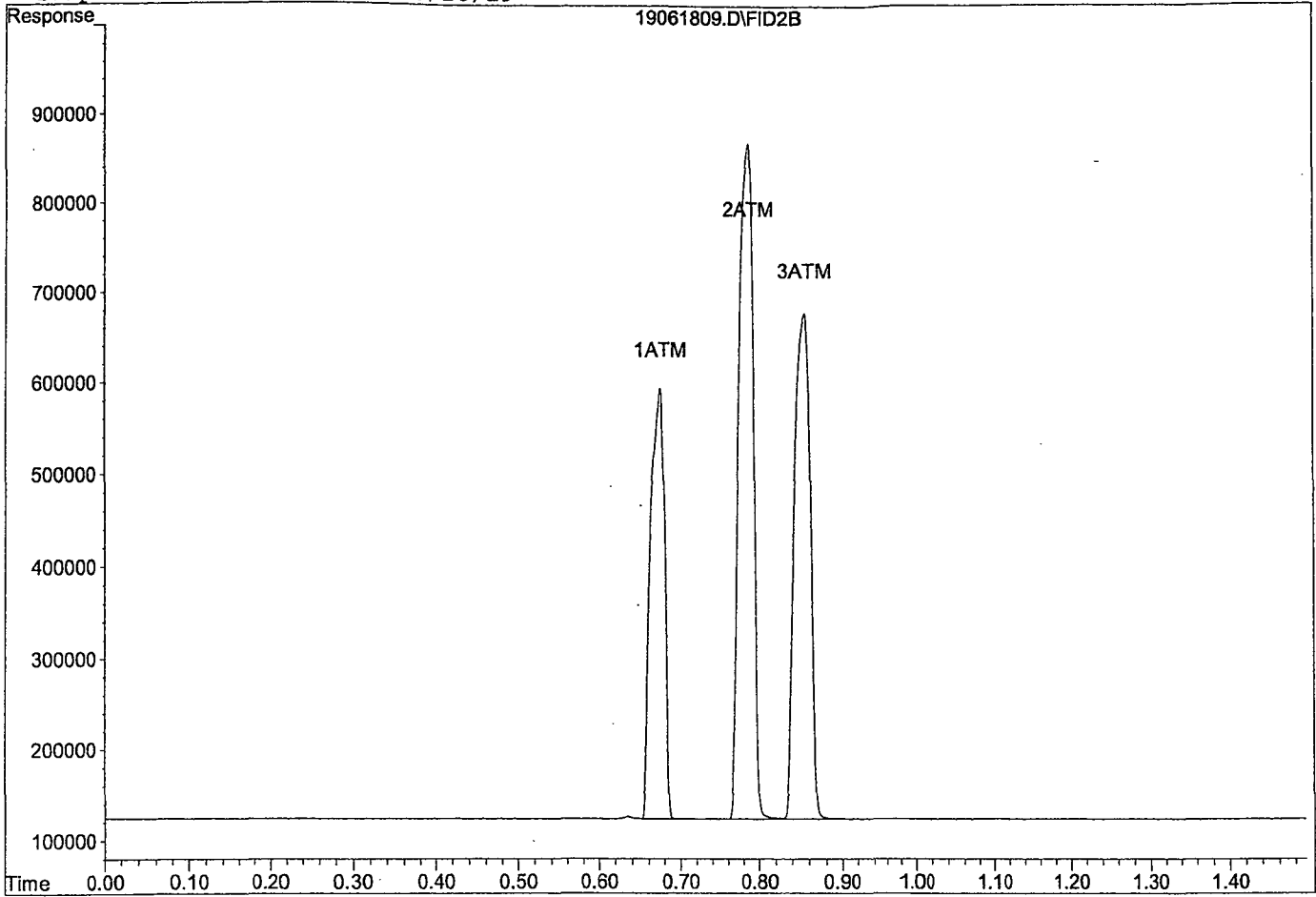
Compound	R.T.	Response	Conc Units

Target Compounds			
1) ATM Methane	0.67	470830	88.031 ppb
2) ATM Ethane	0.78	745250	164.024 ppb
3) ATM Ethene	0.85	555502	145.197 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19061809.D
Sample : SS RSK Std 5 06/18/19



RSK 175
RSK 175

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/29/19
Instrument: 7890
Initial Cal. Date: 06/18/19
Data File: 19072900.D

		Compound	MEAN	CCRF	%D	%Drift	
1	ATML	Methane	10618	10048	5.4	ATML	6.2
2	ATML	Ethane	9445	8494	10	ATML	6.9
3	ATML	Ethene	8042	6601	18	ATML	14
4							
5							
6							
7							
8							
9							
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12							
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33							
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36							
37							
38							
39							
40							

Average

11.1

Data File : G:\ROCKY\DATA\190618RS\19072900.D Vial: 1
 Acq On : 29 Jul 19 13:38 Operator: cmm
 Sample : 190729A LCS/CCV RSK STD 5 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 29 13:45 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Jul 29 13:45:23 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

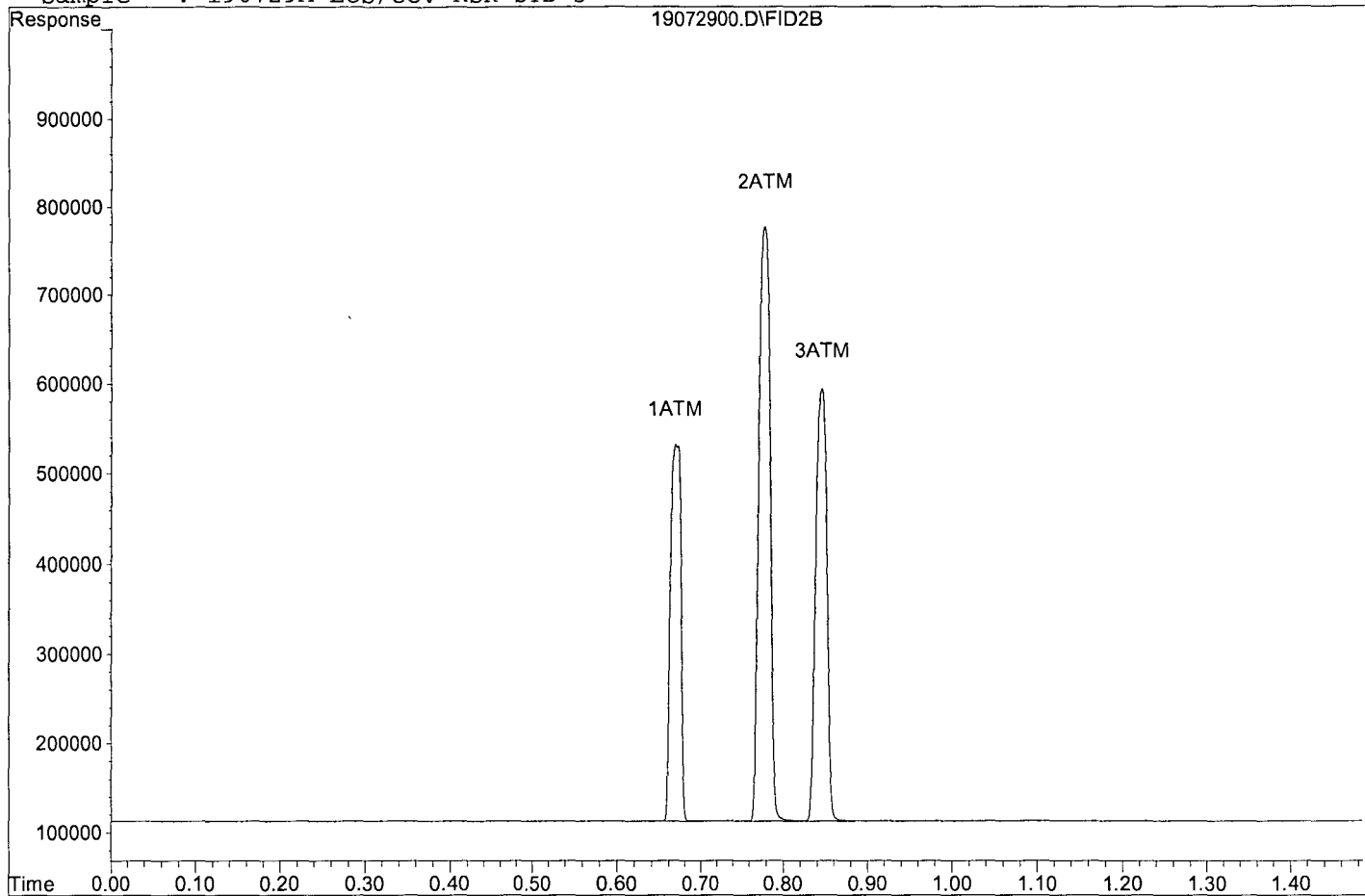
Target Compounds			
1) ATM Methane	0.67	419014	78.267 ppb
2) ATM Ethane	0.78	663983	145.517 ppb
3) ATM Ethene	0.85	481344	124.781 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19072900.D

Sample : 190729A LCS/CCV RSK STD 5



RSK 175
RSK 175

Form 7
Ending Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/29/19
Instrument: 7890
Initial Cal. Date: 06/18/19
Data File: 19072916.D

		Compound	MEAN	CCRF	%D	%Drift	
1	ATML	Methane	10618	11367	7.1	ATML	6.3
2	ATML	Ethane	9445	8962	5.1	ATML	1.6
3	ATML	Ethene	8042	6759	16	ATML	12
4							
5							
6							
7							
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9							
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36							
37							
38							
39							
40							

Average

9.4

Data File : G:\ROCKY\DATA\190618RS\19072916.D Vial: 17
 Acq On : 29 Jul 19 14:24 Operator: cmm
 Sample : Ending CCV RSK Std 5 07/29/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 29 14:26 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Jul 29 13:45:23 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

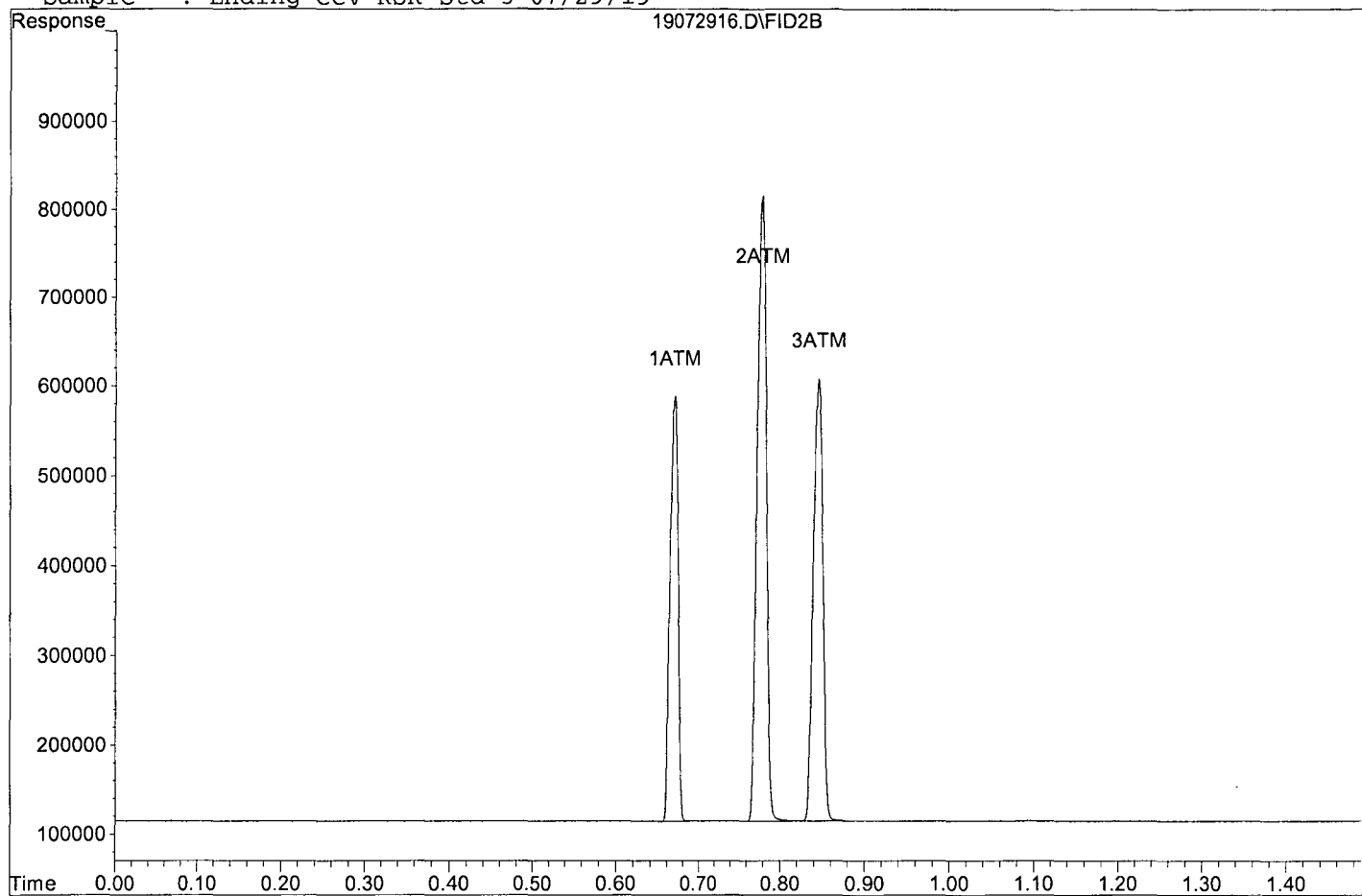
Compound	R.T.	Response	Conc Units

Target Compounds			
1) ATM Methane	0.67	474022	88.632 ppb
2) ATM Ethane	0.78	700638	153.865 ppb
3) ATM Ethene	0.85	492853	127.950 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19072916.D
Sample : Ending CCV RSK Std 5 07/29/19



ORGANICS
Raw Data

Data File : G:\ROCKY\DATA\190618RS\19072903.D Vial: 4
 Acq On : 29 Jul 19 13:54 Operator: cmm
 Sample : AZ95328W04 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 29 13:57 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Jul 29 13:45:23 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
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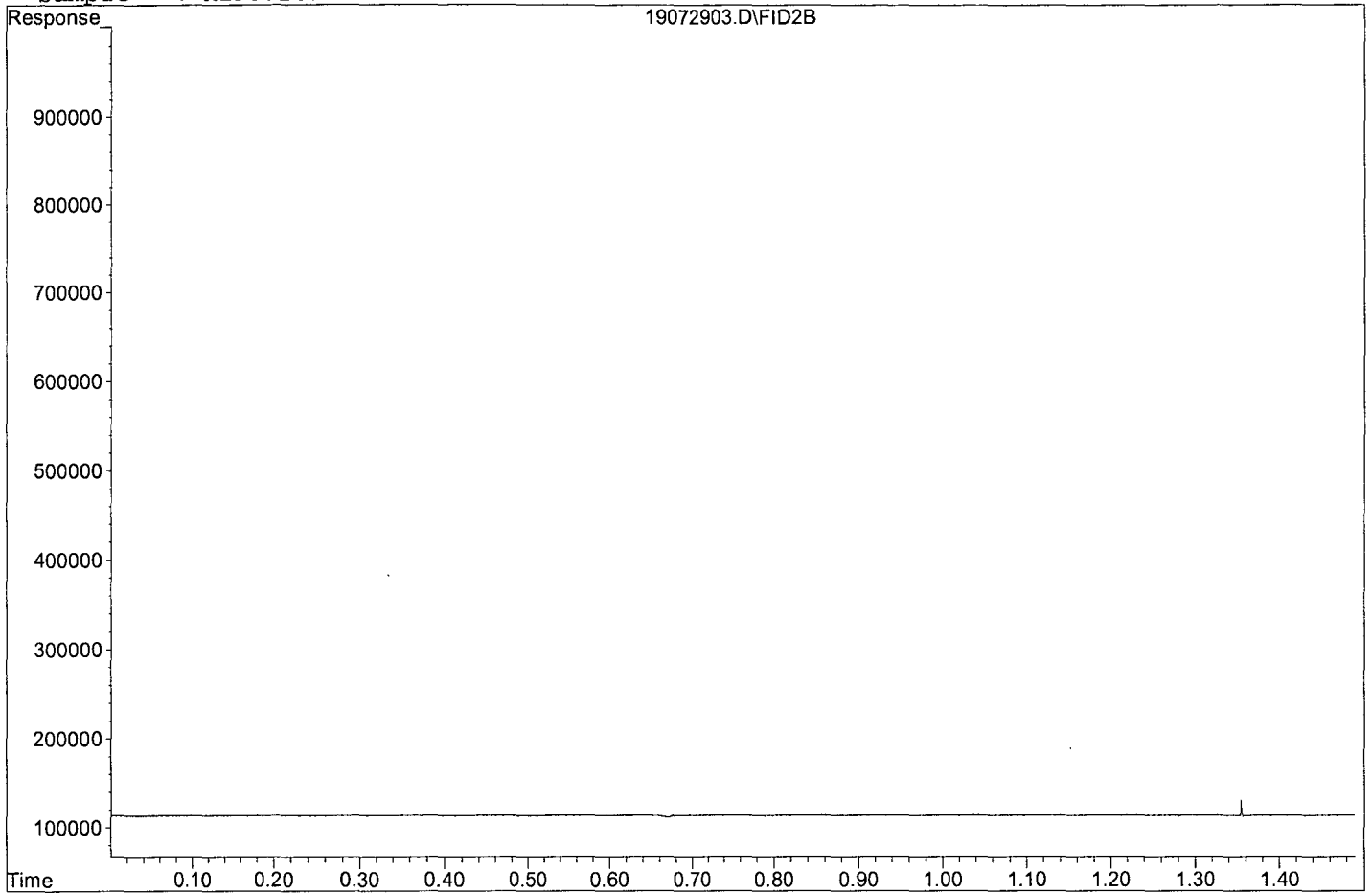
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19072903.D

Sample : AZ95328W04



Data File : G:\ROCKY\DATA\190618RS\19072904.D Vial: 5
 Acq On : 29 Jul 19 13:56 Operator: cmm
 Sample : AZ95329W04 E Methane Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 29 13:59 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Jul 29 13:45:23 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

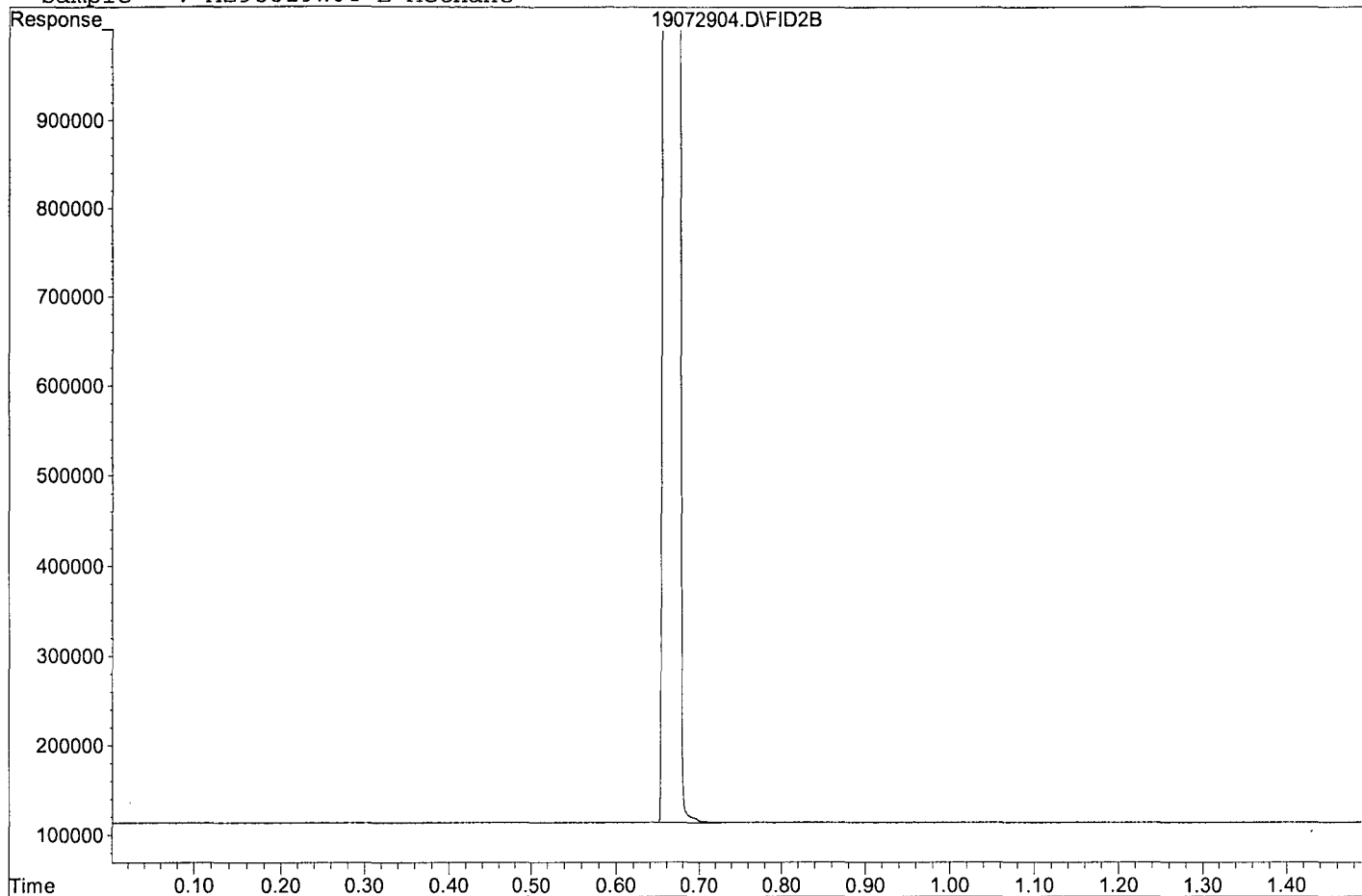
Compound	R.T.	Response	Conc	Units

Target Compounds				
1) ATM Methane	0.67	12911342	2432.140	ppb
Target Compounds				
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19072904.D

Sample : AZ95329W04 E Methane



Data File : G:\ROCKY\DATA\190618RS\19072905.D Vial: 6
 Acq On : 29 Jul 19 13:59 Operator: cmm
 Sample : AZ95329W04 DF10 Inst : 7890
 Misc : Multiplr: 10.00
 IntFile : autoint1.e
 Quant Time: Jul 29 14:02 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Jul 29 13:45:23 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

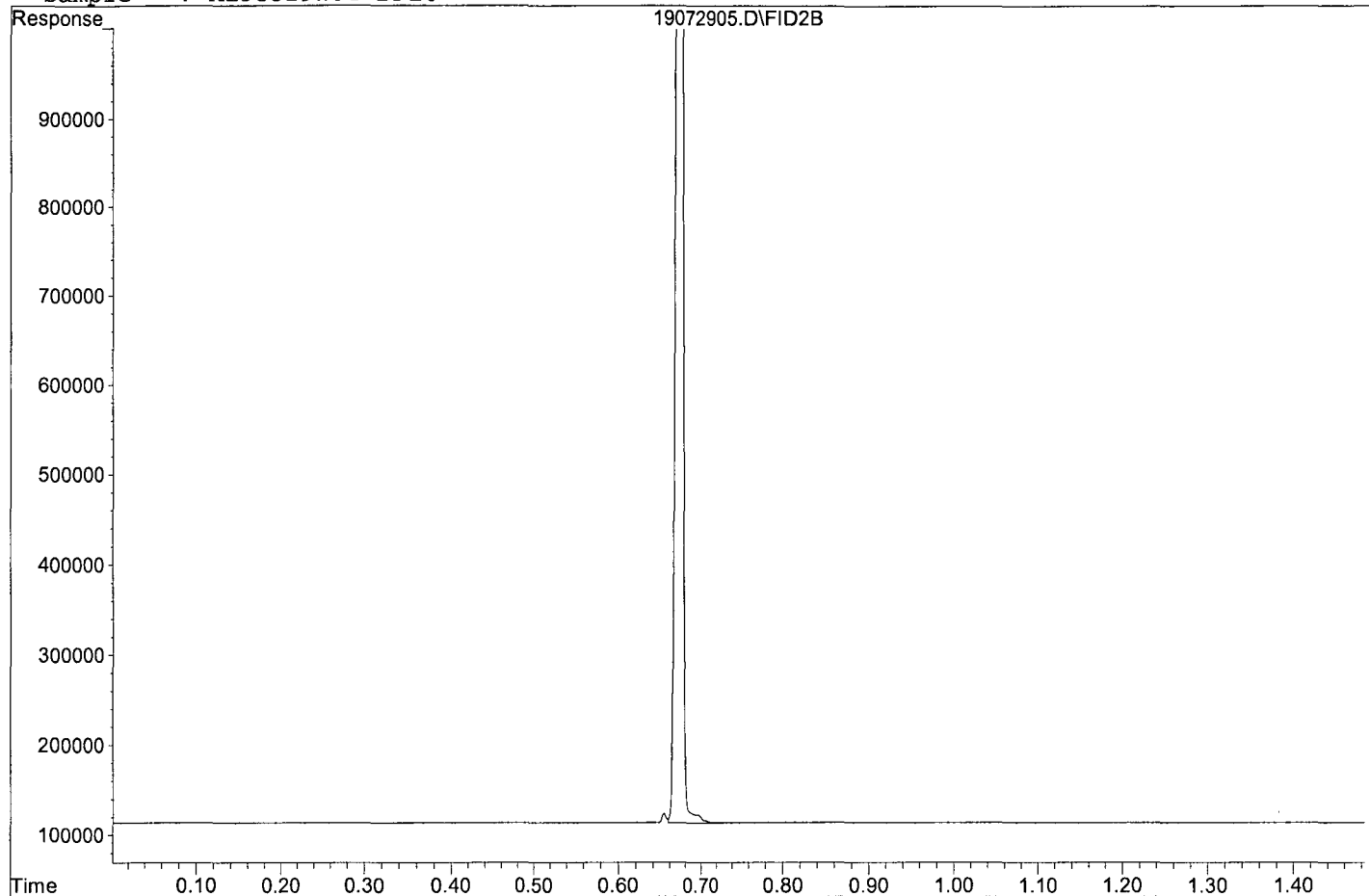
Compound	R.T.	Response	Conc	Units

Target Compounds				
1) ATM Methane	0.67	2468822	4645.032	ppb
Target Compounds				
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19072905.D

Sample : AZ95329W04 DF10



Data File : G:\ROCKY\DATA\190618RS\19072906.D Vial: 7
 Acq On : 29 Jul 19 14:01 Operator: cmm
 Sample : AZ95330W04 E Methane Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 29 14:04 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Jul 29 13:45:23 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

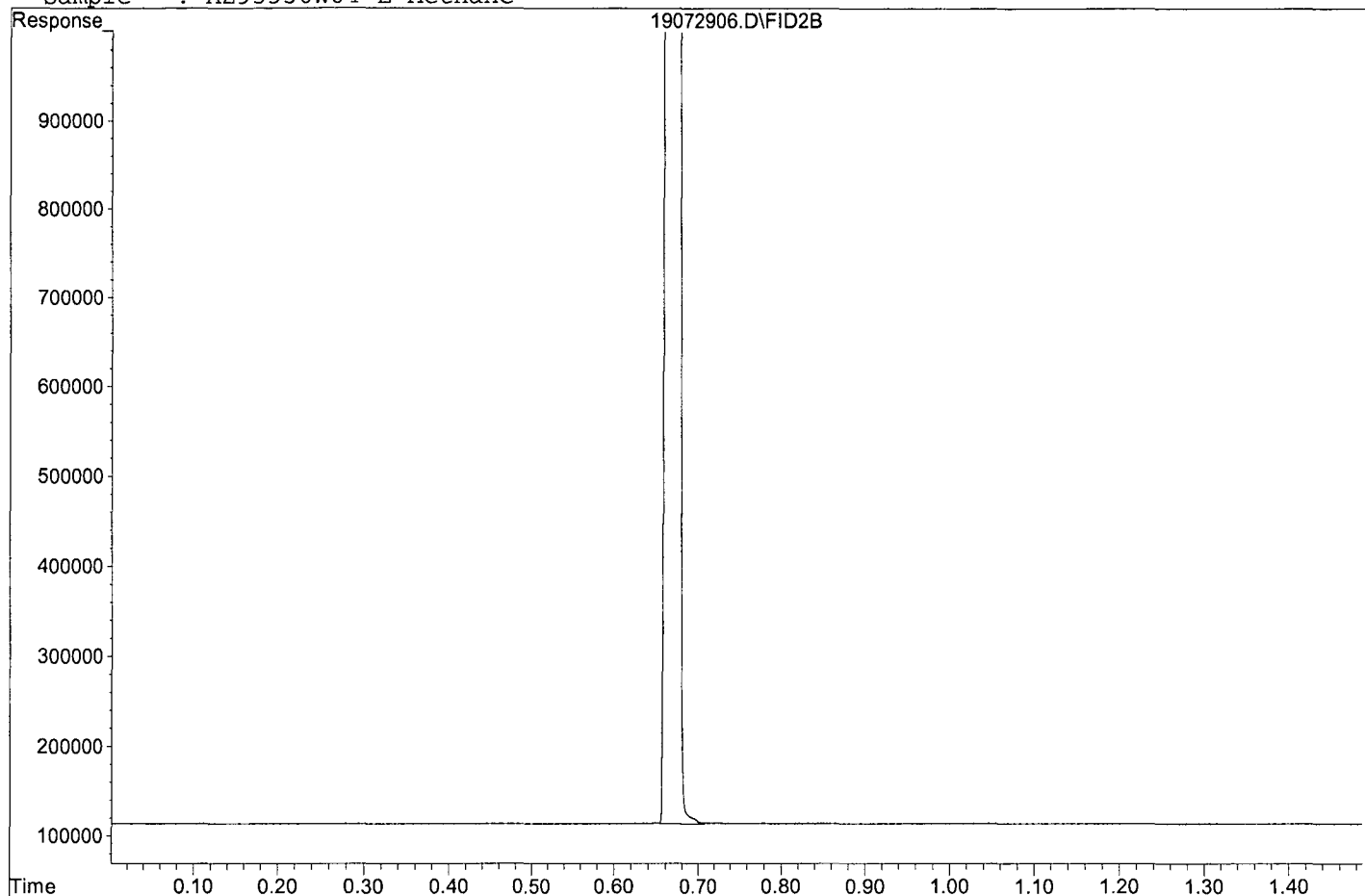
Compound	R.T.	Response	Conc	Units

Target Compounds				
1) ATM Methane	0.67	15837240	2983.453	ppb
Target Compounds				
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19072906.D

Sample : AZ95330W04 E Methane



Data File : G:\ROCKY\DATA\190618RS\19072907.D Vial: 8
 Acq On : 29 Jul 19 14:04 Operator: cmm
 Sample : AZ95330W04 DF10 Inst : 7890
 Misc : Multiplr: 10.00
 IntFile : autoint1.e
 Quant Time: Jul 29 14:07 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Jul 29 13:45:23 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

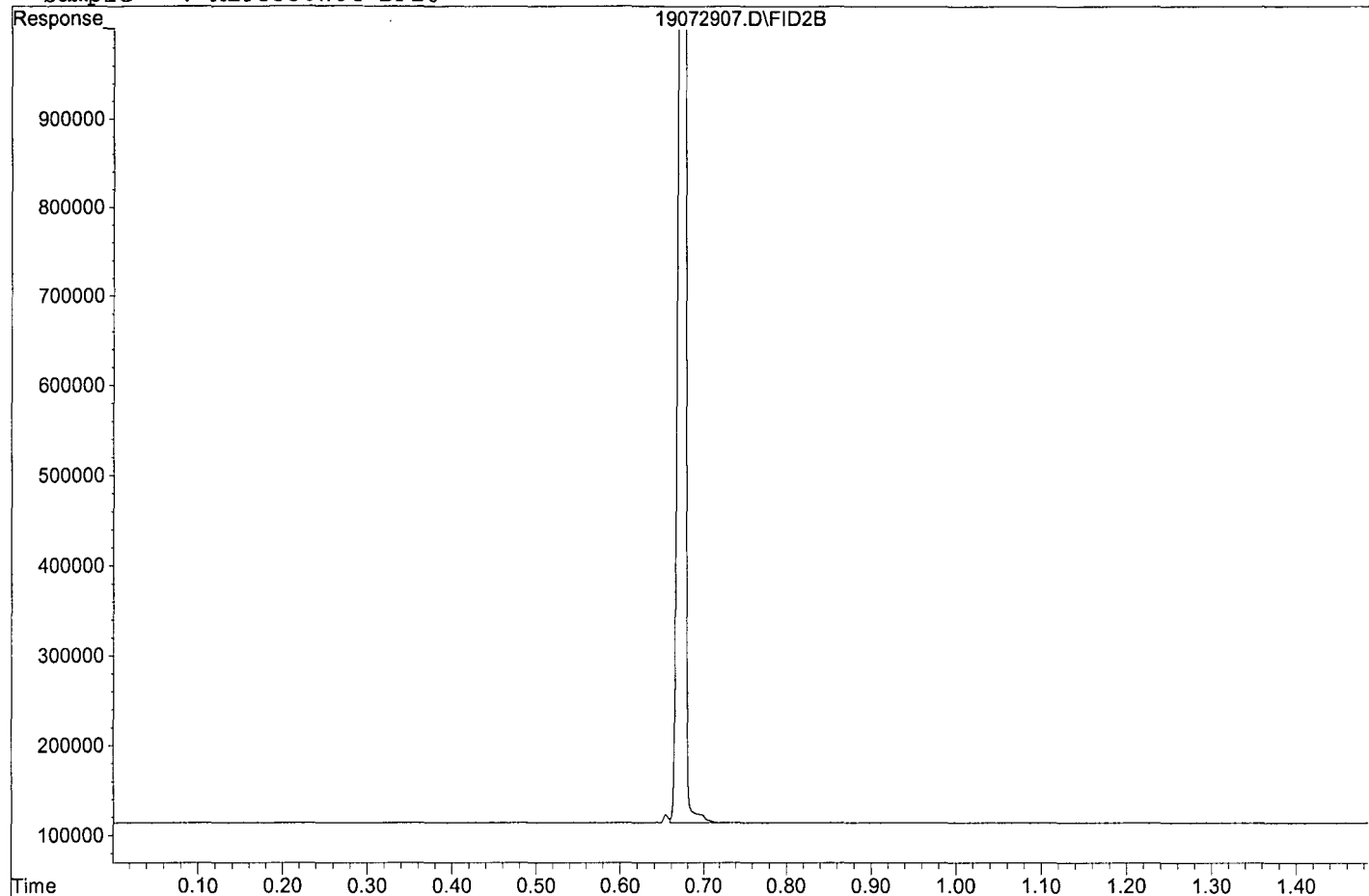
Compound	R.T.	Response	Conc	Units

Target Compounds				
1) ATM Methane	0.67	2591529	4876.244	ppb
Target Compounds				
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19072907.D

Sample : AZ95330W04 DF10



Data File : G:\ROCKY\DATA\190618RS\19072908.D Vial: 9
 Acq On : 29 Jul 19 14:06 Operator: cmm
 Sample : AZ95331W04 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 29 14:09 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Jul 29 13:45:23 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

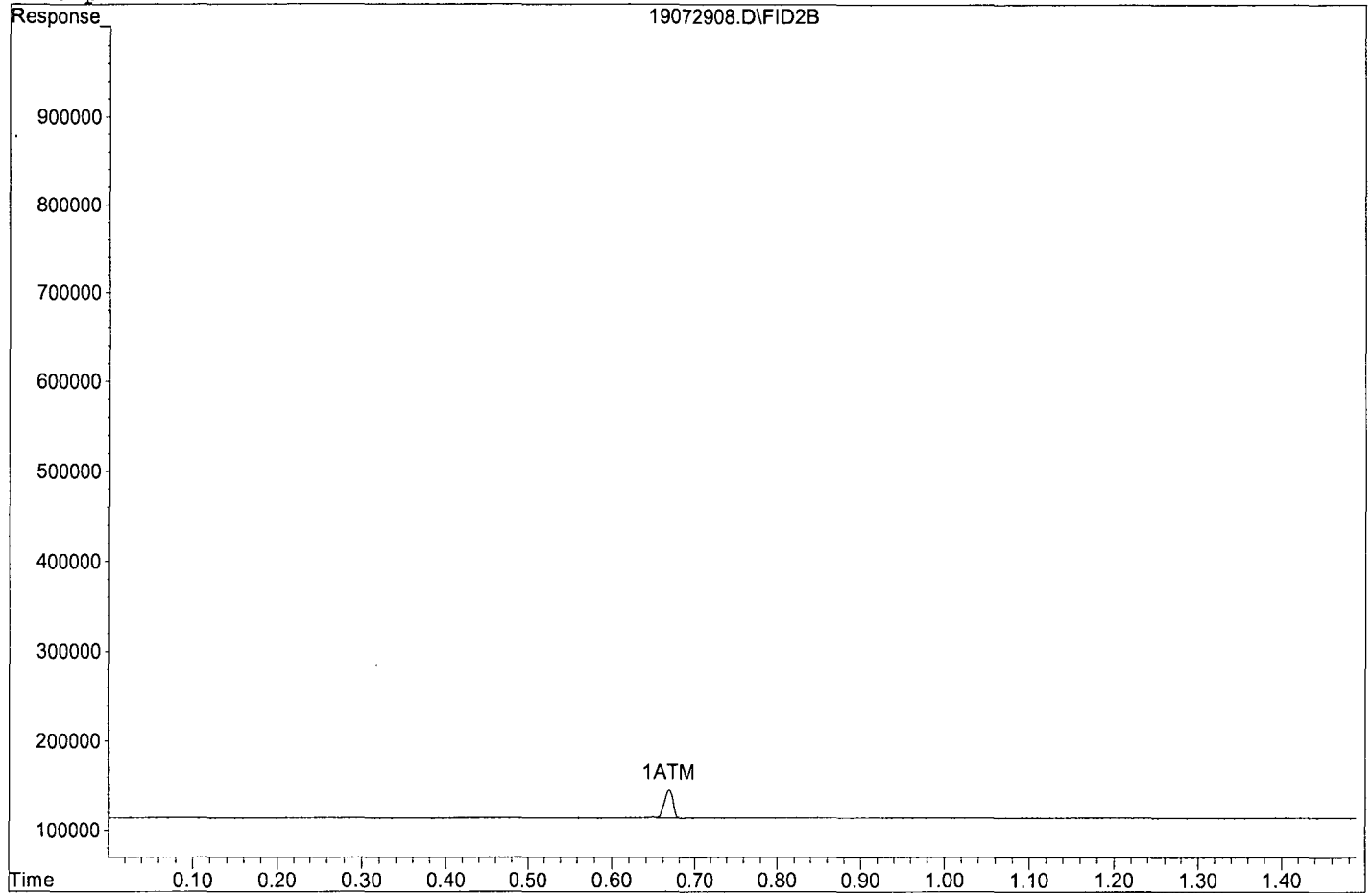
Compound	R.T.	Response	Conc	Units

Target Compounds				
1) ATM Methane	0.67	31259	5.204	ppb
Target Compounds				
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19072908.D

Sample : AZ95331W04



Data File : G:\ROCKY\DATA\190618RS\19072909.D Vial: 10
 Acq On : 29 Jul 19 14:09 Operator: cmm
 Sample : AZ95332W04 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 29 14:12 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Jul 29 13:45:23 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
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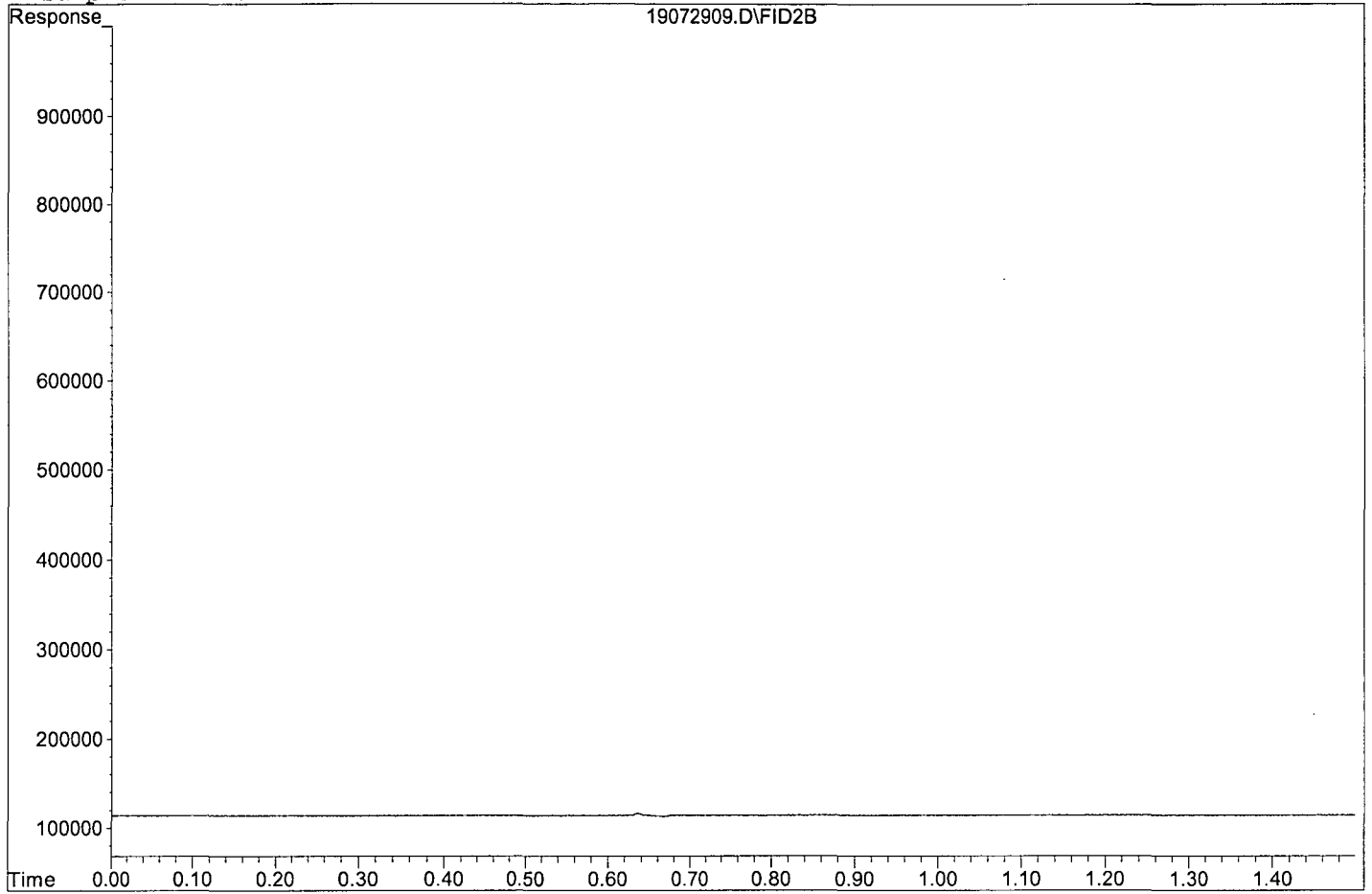
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19072909.D

Sample : AZ95332W04



Data File : G:\ROCKY\DATA\190618RS\19072910.D Vial: 11
 Acq On : 29 Jul 19 14:11 Operator: cmm
 Sample : AZ95333W04 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 29 14:14 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Jul 29 13:45:23 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
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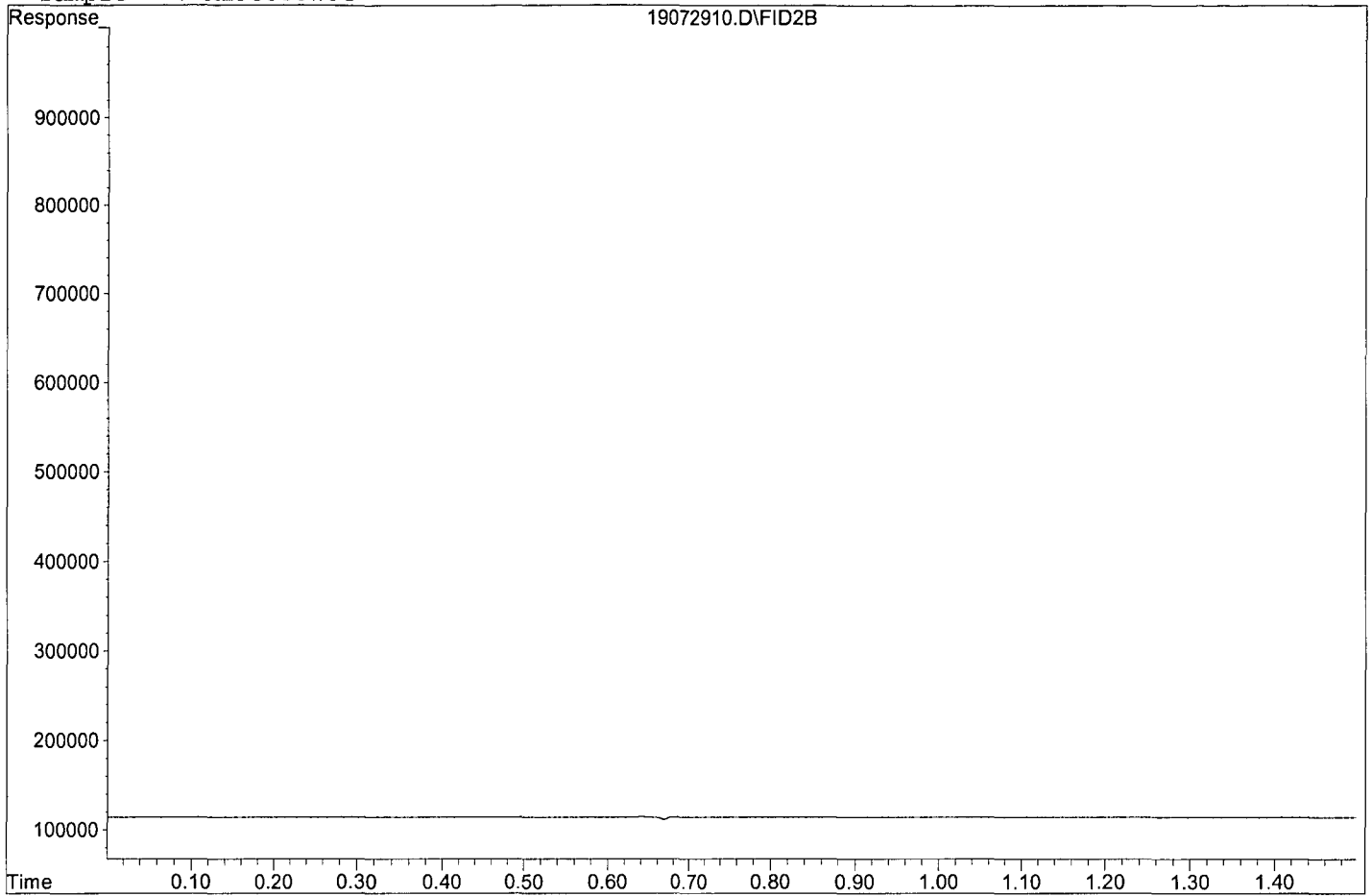
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19072910.D

Sample : AZ95333W04



Data File : G:\ROCKY\DATA\190618RS\19072911.D Vial: 12
 Acq On : 29 Jul 19 14:13 Operator: cmm
 Sample : AZ95334W04 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 29 14:16 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Jul 29 13:45:23 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
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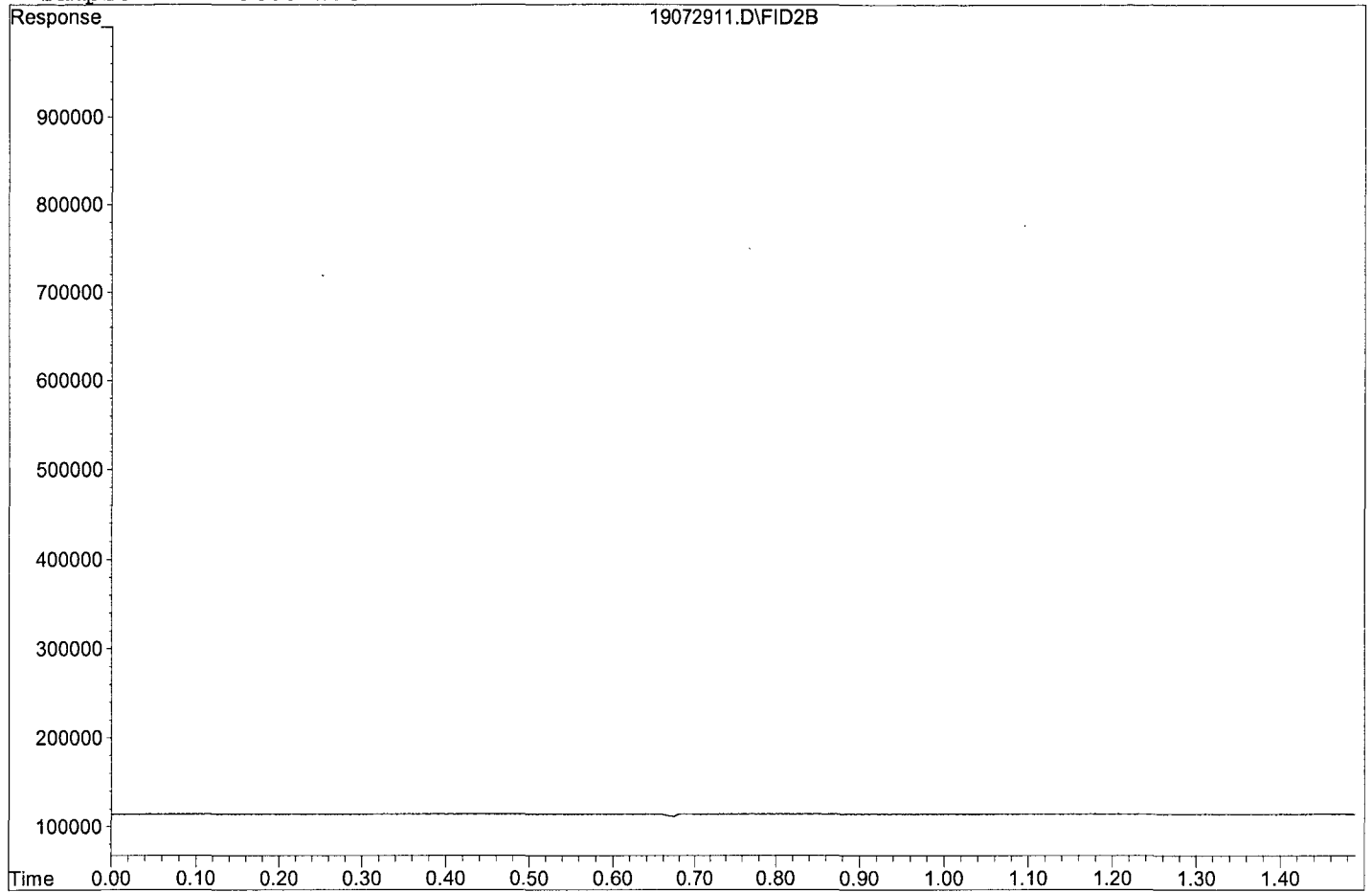
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19072911.D

Sample : AZ95334W04



Data File : G:\ROCKY\DATA\190618RS\19072912.D Vial: 13
 Acq On : 29 Jul 19 14:15 Operator: cmm
 Sample : AZ95335W04 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 29 14:18 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Jul 29 13:45:23 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

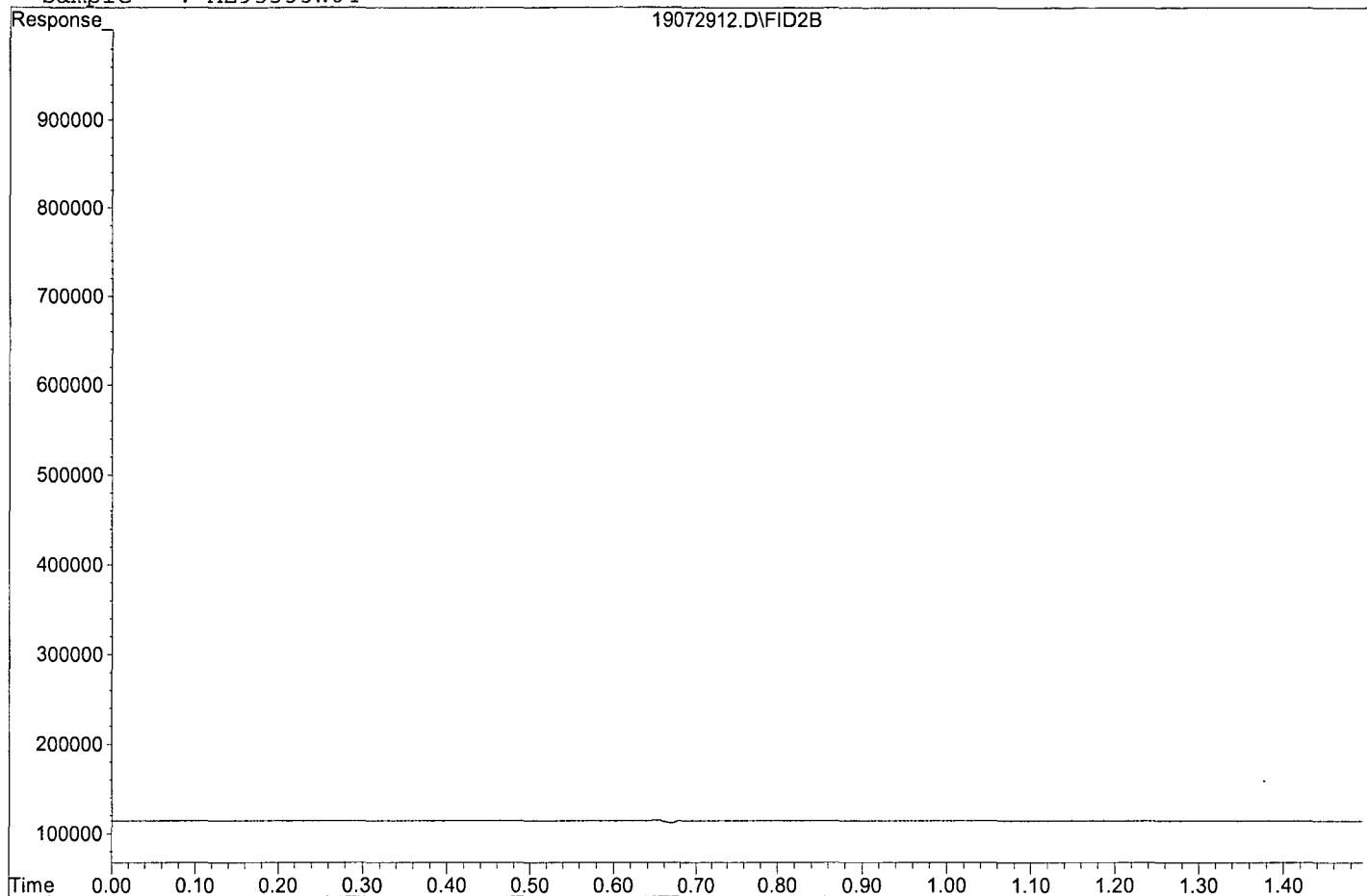
Compound	R.T.	Response	Conc	Units
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Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19072912.D
Sample : AZ95335W04



Data File : G:\ROCKY\DATA\190618RS\19072913.D Vial: 14
 Acq On : 29 Jul 19 14:17 Operator: cmm
 Sample : AZ95336W04 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 29 14:20 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Jul 29 13:45:23 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
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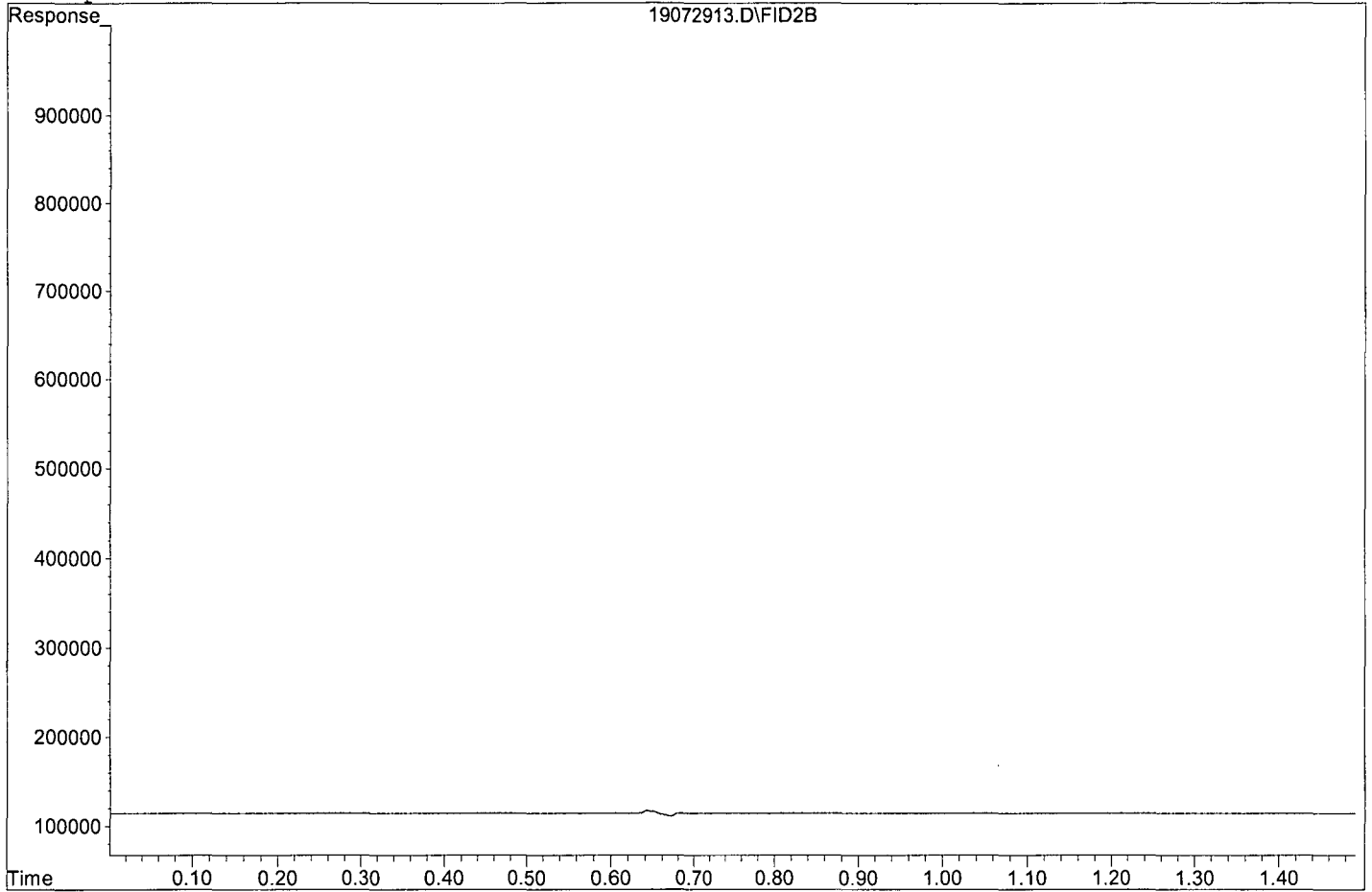
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19072913.D

Sample : AZ95336W04



Data File : G:\ROCKY\DATA\190618RS\19072914.D Vial: 15
 Acq On : 29 Jul 19 14:19 Operator: cmm
 Sample : AZ95337W04 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 29 14:22 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Jul 29 13:45:23 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
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Target Compounds

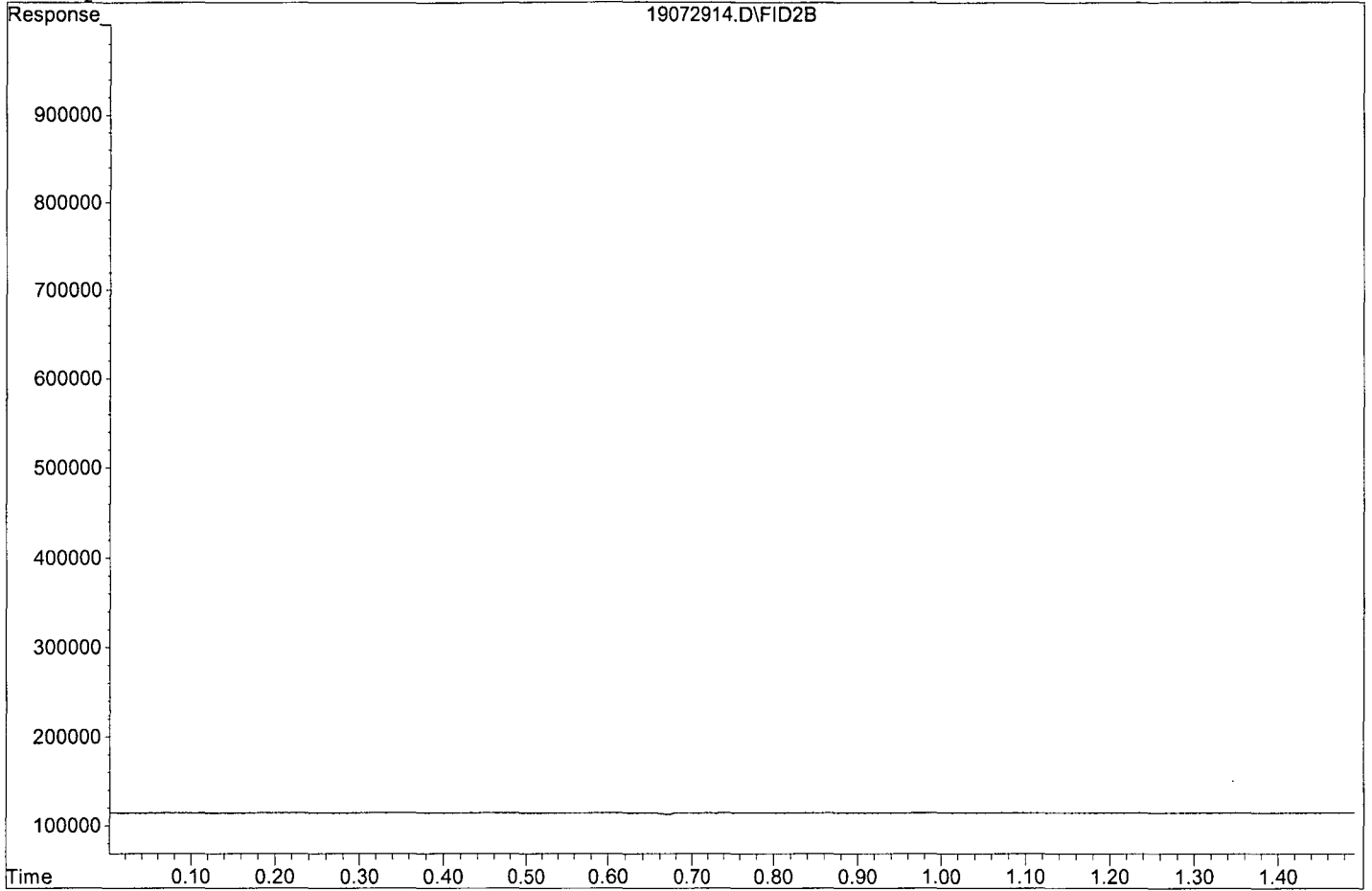
Target Compounds

1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19072914.D

Sample : AZ95337W04



Data File : G:\ROCKY\DATA\190618RS\19072915.D Vial: 16
 Acq On : 29 Jul 19 14:21 Operator: cmm
 Sample : AZ95338W04 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 29 14:25 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Jul 29 13:45:23 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
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Target Compounds

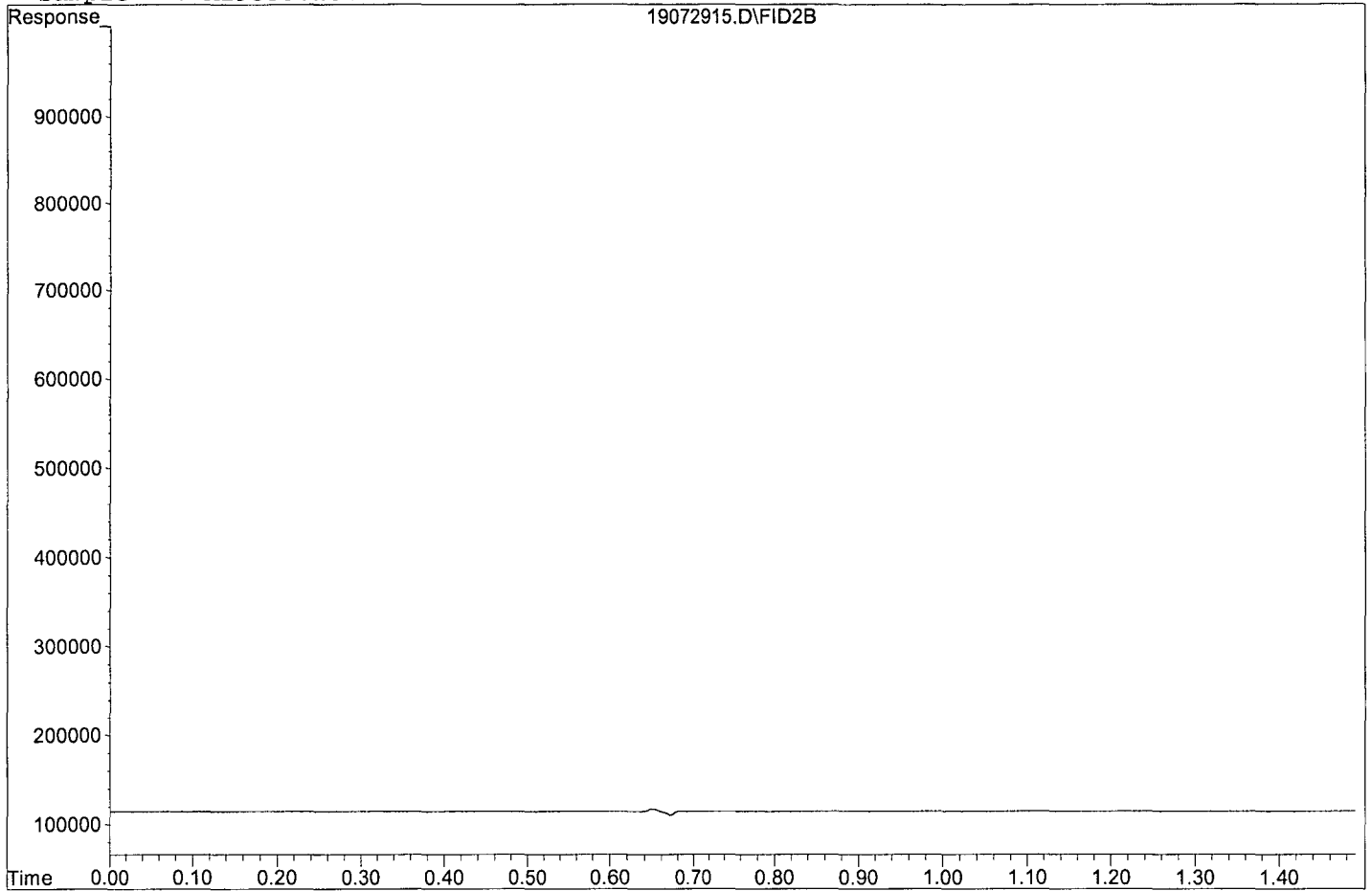
Target Compounds

1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19072915.D

Sample : AZ95338W04



Data File : G:\ROCKY\DATA\190618RS\19072902.D Vial: 3
 Acq On : 29 Jul 19 13:52 Operator: cmm
 Sample : 190729A Blk Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 29 13:54 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Jul 29 13:45:23 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
----------	------	----------	------	-------

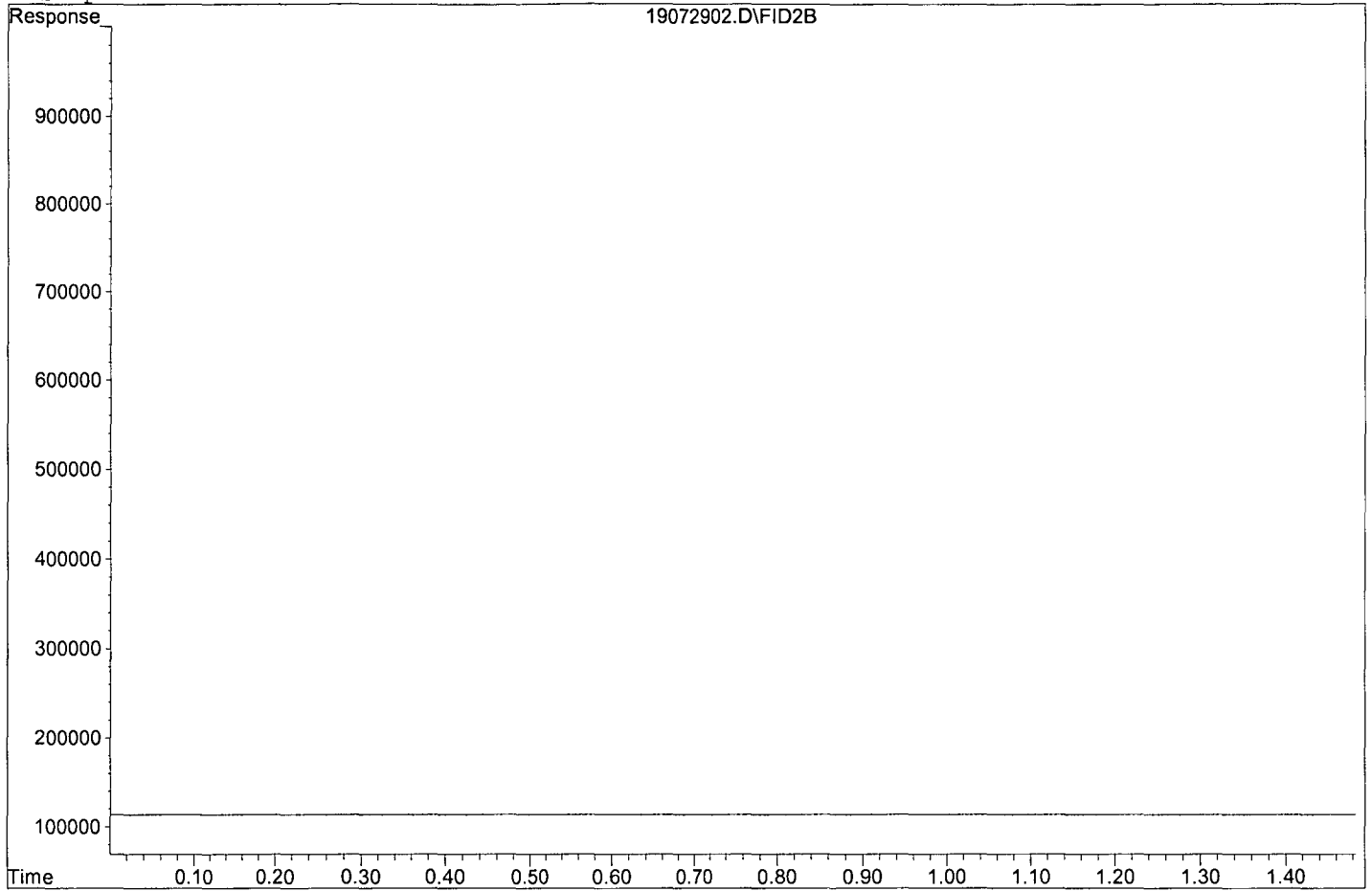
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19072902.D

Sample : 190729A Blk



Data File : G:\ROCKY\DATA\190618RS\19072900.D Vial: 1
 Acq On : 29 Jul 19 13:38 Operator: cmm
 Sample : 190729A LCS/CCV_RSK STD 5 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 29 13:45 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Jul 29 13:45:23 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

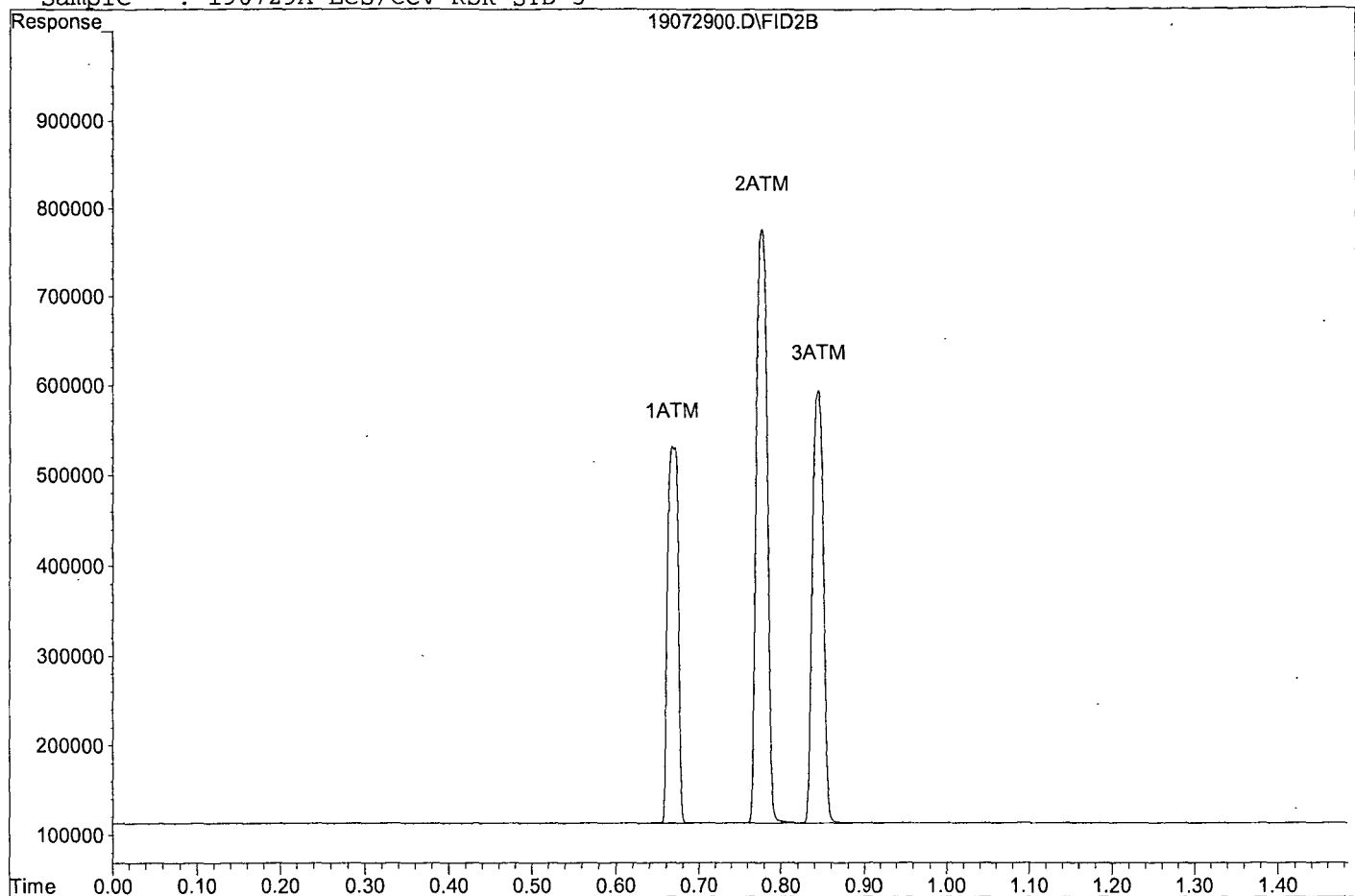
Target Compounds			
1) ATM Methane	0.67	419014	78.267 ppb
2) ATM Ethane	0.78	663983	145.517 ppb
3) ATM Ethene	0.85	481344	124.781 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19072900.D

Sample : 190729A LCS/CCV RSK STD 5



Data File : G:\ROCKY\DATA\190618RS\19072901.D Vial: 2
 Acq On : 29 Jul 19 13:43 Operator: cmm
 Sample : 190729A LCSD RSK STD 5 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 29 13:46 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Jul 29 13:45:23 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

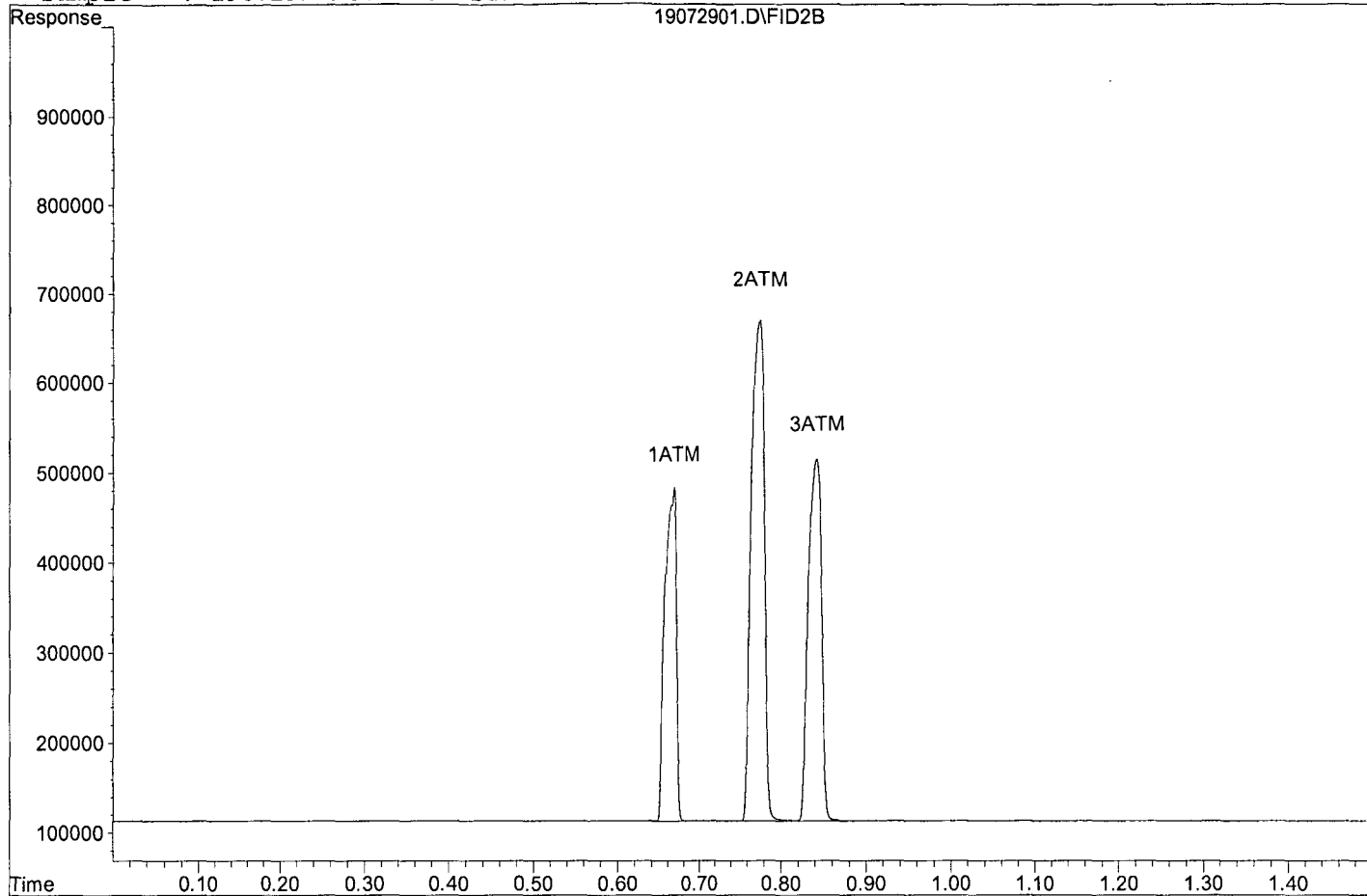
Target Compounds			
1) ATM Methane	0.67	369151	68.872 ppb
2) ATM Ethane	0.78	556569	121.056 ppb
3) ATM Ethene	0.84	402060	102.954 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19072901.D

Sample : 190729A LCSD RSK STD 5



Primary Source Stock Standard 10,000ppmV

Manufacturer Exp Date 9-21-21

RSK Gas Mix (Scott Specialty Gas) Cat.# 0104E40028*4, Lot # 160-401303031-39773

1% Gas Concentration Moles = 10,000ppmV Methane, Ethane, Ethene

RSK Calibration Curve (prepared in 1.0 L Tedlar Bags at room temp)**Expires 07/18/19****CMM 06/18/19**

Analyte	Conc Std 1 (1/2 = LOD) (ug/L)	Conc Std 2 (LOQ Chk) (ug/L)	Conc Std 3 (ug/L)	Conc Std 4 (ug/L)	Conc Std 5 (ug/L)	Conc Std 6 (ug/L)	Conc Std 7 (ug/L)
Methane (MW 16.04)	2.08	4.16	8.34	20.85	83.40	208.5	834.0
Ethane (MW 30.07)	3.91	7.81	15.6	39.09	156.35	390.9	1563.5
Ethene (MW 28.05)	3.65	7.30	14.6	36.46	145.84	364.6	1458.4
Stock Source	RSK Tank Lot #170PLU5SPC0 6L-35410	RSK Tank Lot #170PLU5SPC0 6L-35410	RSK Tank Lot #170PLU5SPC0 6L-35410	RSK Tank Lot #170PLU5SPC0 6L-35410	RSK Tank Lot #170PLU5SPC06L- 35410	RSK Tank Lot #170PLU5SPC0 6L-35410	RSK Tank Lot #170PLU5SPC0 6L-35410
Stock Conc (ppmv)	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV
Stock Aliquot (mL)	0.010	0.020	0.040	0.100	0.400	1.00	4.00
Final Volume P&T Water	32 mL	32 mL	32 mL	32 mL	32 mL	32 mL	32 mL

Second Source Stock Standard 10,000ppmV

Manufacturer Exp date 9-21-2021

RSK Gas Mix (Scott Specialty Gas) Cat.# 23452, Lot # 160-401303032-1-39774

1% Gas Concentration Moles = 10,000ppmV Methane, Ethane, Ethene

Second Source**Expires 06/19/19****CMM 06/18/19**

2.0mL of SS from tank into 980 mL Nitrogen

final conc: 13.3ug/L Methane, 25.0 ug/L Ethane, and 23.3 ug/L Ethene

CCV/LCS/LCSD**CMM 07/29/19**

Spike 0.400mL of 10,000ppmV into 32mL DI water, with 8mL Nitrogen headspace

final conc: 83.40ug/L Methane, 156.35ug/L Ethane, and 145.84ug/L Ethene

Injection Log

Directory: G:\ROCKYDATA\190618RS\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	3	19061802.D	1	RSK Std 1 06/18/19	125 uL from Std 3	18 Jun 19 12:33
2	4	19061803.D	1	RSK Std 2 06/18/19	250 uL from Std 3	18 Jun 19 12:36
3	5	19061804.D	1	RSK Std 3 06/18/19		18 Jun 19 12:39
4	6	19061805.D	1	RSK Std 4 06/18/19		18 Jun 19 12:42
5	7	19061806.D	1	RSK Std 5 06/18/19		18 Jun 19 12:44
6	8	19061807.D	1	RSK Std 6 06/18/19		18 Jun 19 12:47
7	9	19061808.D	1	RSK Std 7 06/18/19		18 Jun 19 12:49
8	10	19061809.D	1	SS RSK Std 5 06/18/19		18 Jun 19 12:52
9	1	19072900.D	1	190729A LCS/CCV RSK STD 5		29 Jul 19 13:38
10	2	19072901.D	1	190729A LCSD RSK STD 5		29 Jul 19 13:43
11	3	19072902.D	1	190729A Blk		29 Jul 19 13:52
12	4	19072903.D	1	AZ95328W04		29 Jul 19 13:54
13	5	19072904.D	1	AZ95329W04 E Methane		29 Jul 19 13:56
14	6	19072905.D	10	AZ95329W04 DF10		29 Jul 19 13:59
15	7	19072906.D	1	AZ95330W04 E Methane		29 Jul 19 14:01
16	8	19072907.D	10	AZ95330W04 DF10		29 Jul 19 14:04
17	9	19072908.D	1	AZ95331W04		29 Jul 19 14:06
18	10	19072909.D	1	AZ95332W04		29 Jul 19 14:09
19	11	19072910.D	1	AZ95333W04		29 Jul 19 14:11
20	12	19072911.D	1	AZ95334W04		29 Jul 19 14:13
21	13	19072912.D	1	AZ95335W04		29 Jul 19 14:15
22	14	19072913.D	1	AZ95336W04		29 Jul 19 14:17
23	15	19072914.D	1	AZ95337W04		29 Jul 19 14:19
24	16	19072915.D	1	AZ95338W04		29 Jul 19 14:21
25	17	19072916.D	1	Ending CCV RSK Std 5 07/29/19		29 Jul 19 14:24

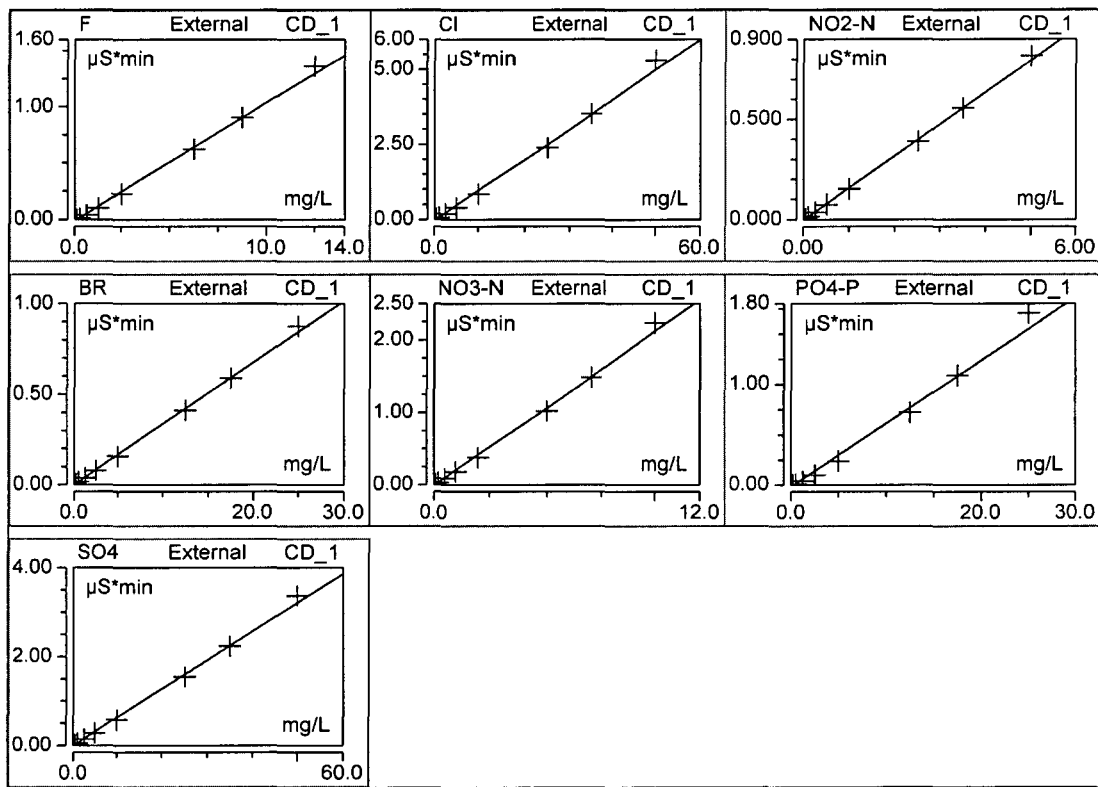
INORGANIC ANALYSIS
Calibration Data

Calibration Batch Report

Sequence:	190621	Injection Volume:	25.00
Instrument Method:	Anions IM	Operator:	chemist_wetlab
Inj. Date / Time:	21-Jun-2019 / 13:17	Run Time:	5

Calibration Summary							
Peak Name	Eval.Type	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff.Det. %
F	Area	Lin, WithOffset, 1/A	8.000	-0.014	0.105	0.000	99.6120
Cl	Area	Lin, WithOffset, 1/A	8.000	-0.025	0.100	0.000	99.4211
NO2-N	Area	Lin, WithOffset, 1/A	8.000	-0.001	0.159	0.000	99.9168
BR	Area	Lin, WithOffset, 1/A	8.000	-0.002	0.034	0.000	99.8742
NO3-N	Area	Lin, WithOffset, 1/A	8.000	-0.007	0.213	0.000	99.7040
PO4-P	Area	Lin, WithOffset, 1/A	8.000	-0.017	0.063	0.000	98.5267
SO4	Area	Lin, WithOffset, 1/A	8.000	-0.011	0.065	0.000	99.7471

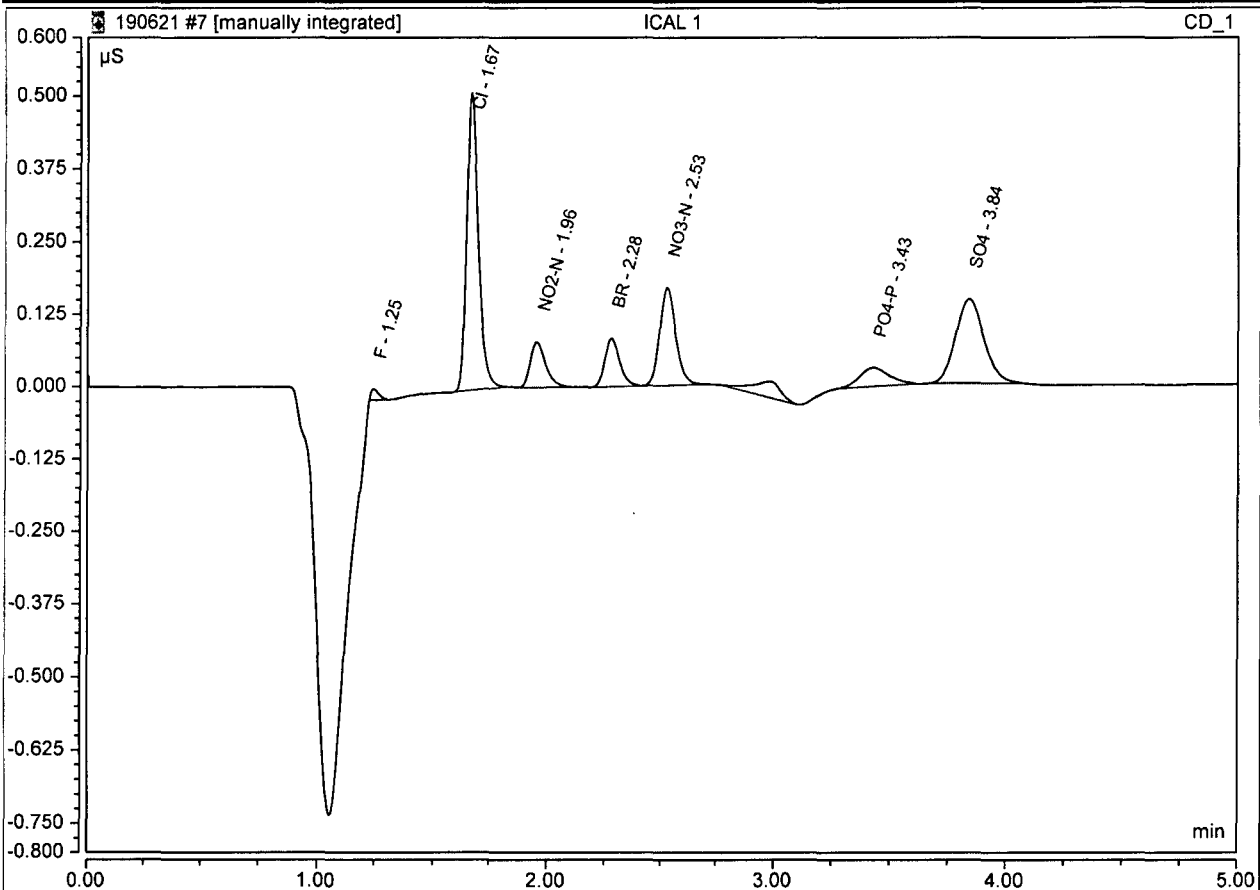
Injection Name	Amount mg/L	Amount mg/L	Amount mg/L	Amount mg/L	Amount mg/L	Amount mg/L	Amount mg/L
	CD_1 F	CD_1 Cl	CD_1 NO2-N	CD_1 BR	CD_1 NO3-N	CD_1 PO4-P	CD_1 SO4
ICAL 1	0.145	0.5595	0.0460	0.2312	0.0993	0.3533	0.4842
ICAL 2	0.226	1.0082	0.0995	0.5073	0.2047	0.4616	1.0116
ICAL 3	0.519	2.1596	0.2366	1.1771	0.4584	0.8893	2.3703
ICAL 4	1.100	4.1824	0.4734	2.3446	0.8995	1.8491	4.5389
ICAL 5	2.297	8.6329	0.9558	4.7267	1.8185	4.0667	9.1402
ICAL 6	6.074	24.0174	2.4543	12.1924	4.8129	11.7607	24.1124
ICAL 7	8.736	35.2352	3.4898	17.4066	6.9788	17.6226	34.8377
ICAL 8	13.128	53.1049	5.1346	25.8642	10.5081	27.4465	52.4046



Peak Integration Report

Sample Name:		ICAL 1			Inj. Vol.:		25uL	
Injection Type:		Calibration Standard			Dilution Factor:		1.00	
Program:		Anion APM 190621A			Operator:		chemist_wetlab	
Inj. Date / Time:		21-Jun-2019 / 12:25			Run Time:		5.00	

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	1.25	F	BMB*	0.001	0.019	0.14	0.1	144.6%
2	1.67	Cl	BMB	0.031	0.511	0.56	0.4	139.9%
3	1.96	NO2-N	BMB	0.006	0.079	0.05	0.04	115.1%
4	2.28	BR	BMB	0.006	0.084	0.23	0.2	115.6%
5	2.53	NO3-N	BMB	0.014	0.169	0.10	0.08	124.1%
7	3.43	PO4-P	BMB*	0.005	0.032	0.35	0.2	176.7%
8	3.84	SO4	BMB	0.021	0.146	0.48	0.4	121.0%

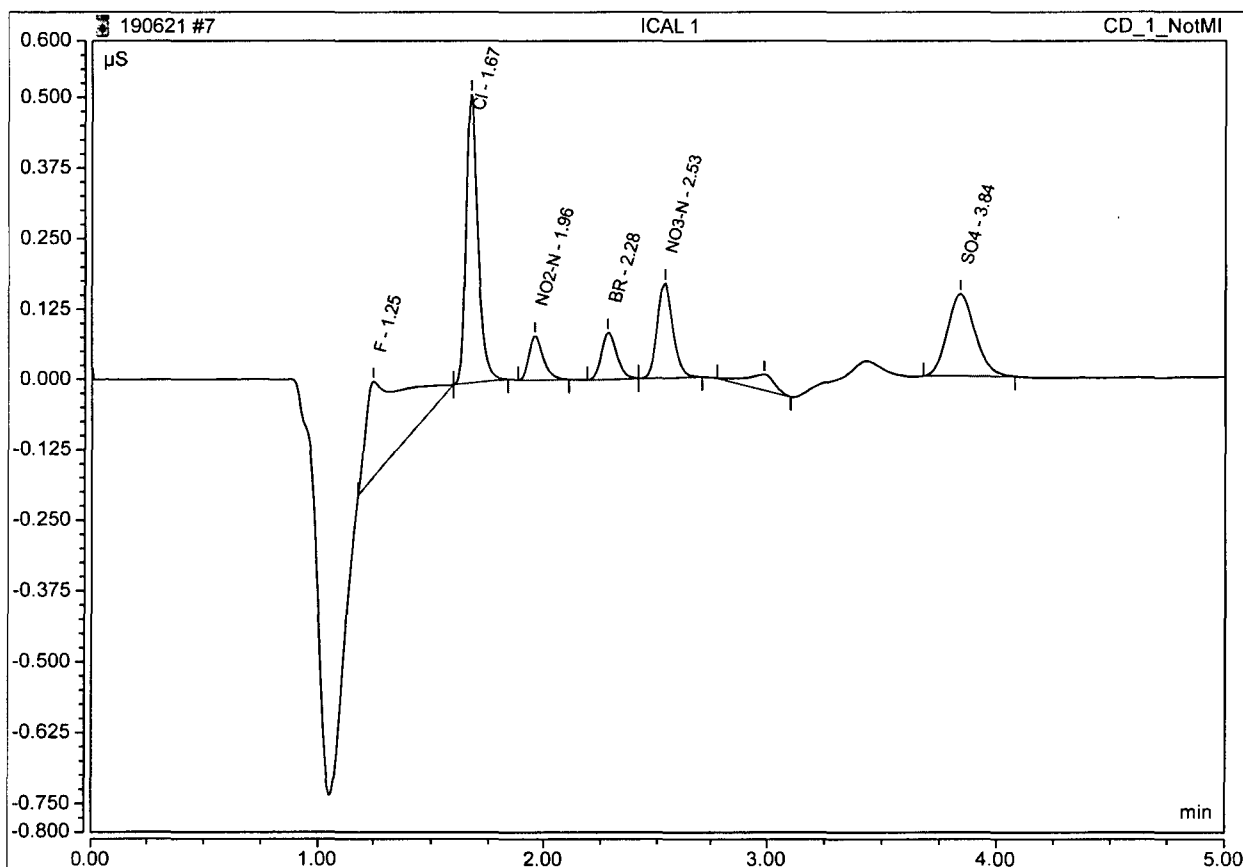


PO4 MI5 F MI1 190621 TH HH

Not Manipulated Peak Integration Report

Sample Name:	ICAL 1	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Program:	Anion APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	21-Jun-2019 / 12:25	Run Time:	5.00

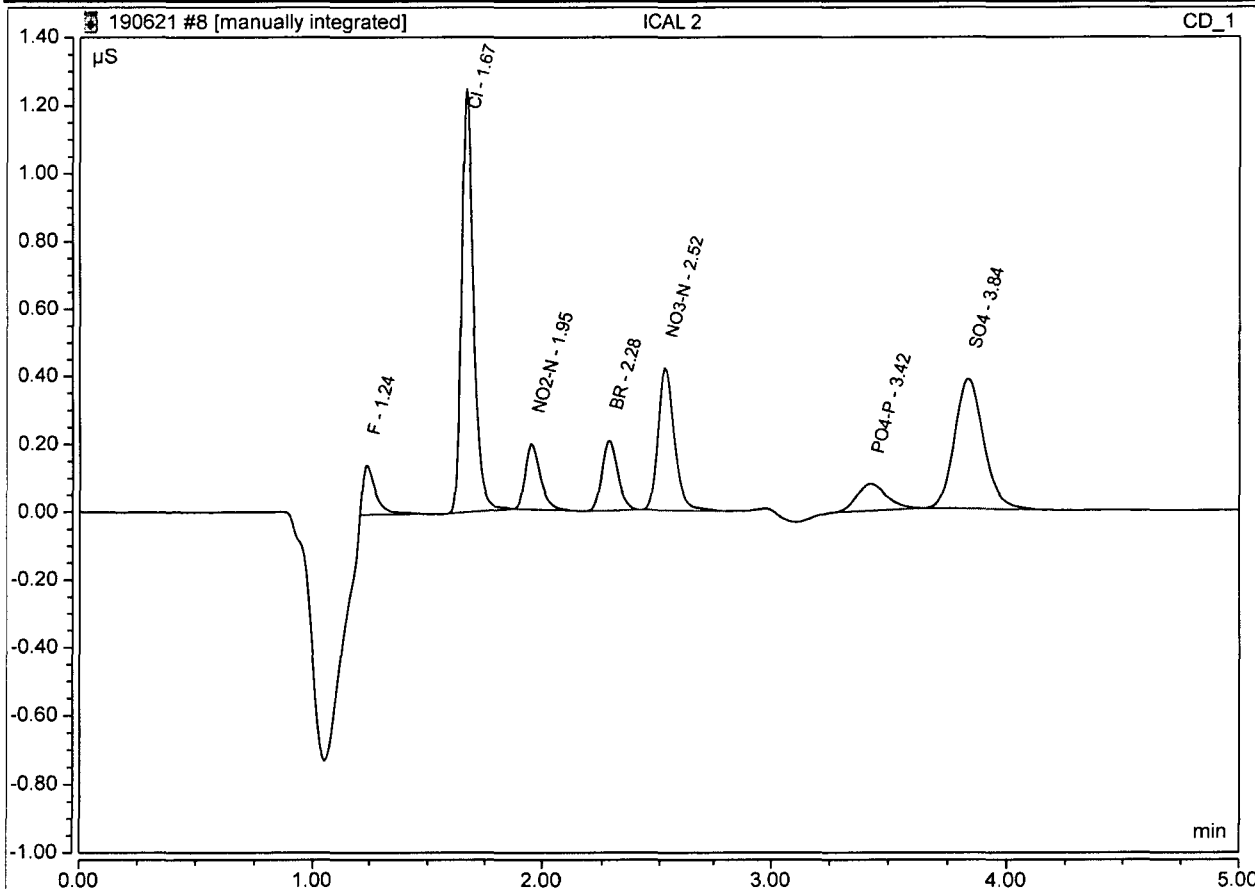
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount mg/L
1	1.25	F	BMB*	0.034	0.172	0.1067
2	1.67	Cl	BMB	0.031	0.511	0.5595
3	1.96	NO2-N	BMB	0.006	0.079	0.0460
4	2.28	BR	BMB	0.006	0.084	0.2312
5	2.53	NO3-N	BMB	0.014	0.169	0.0993
7	n.a.	PO4-P	BMB*	n.a.	n.a.	n.a.
8	3.84	SO4	BMB	0.021	0.146	0.4842



Peak Integration Report

Sample Name:		ICAL 2			Inj. Vol.:		25uL	
Injection Type:		Calibration Standard			Dilution Factor:		1.00	
Program:		Anion APM 190621A			Operator:		chemist_wetlab	
Inj. Date / Time:		21-Jun-2019 / 12:32			Run Time:		5.00	

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.24	F	BMB*	0.009	0.148	0.23	0.25	90.4%
2	1.67	Cl	BMB	0.076	1.250	1.01	1	100.8%
3	1.95	NO2-N	BMB	0.014	0.194	0.10	0.1	99.5%
4	2.28	BR	BMB	0.016	0.207	0.51	0.5	101.5%
5	2.52	NO3-N	BMB	0.037	0.422	0.20	0.2	102.3%
6	3.42	PO4-P	BMB	0.012	0.079	0.46	0.5	92.3%
7	3.84	SO4	BMB	0.055	0.382	1.01	1	101.2%

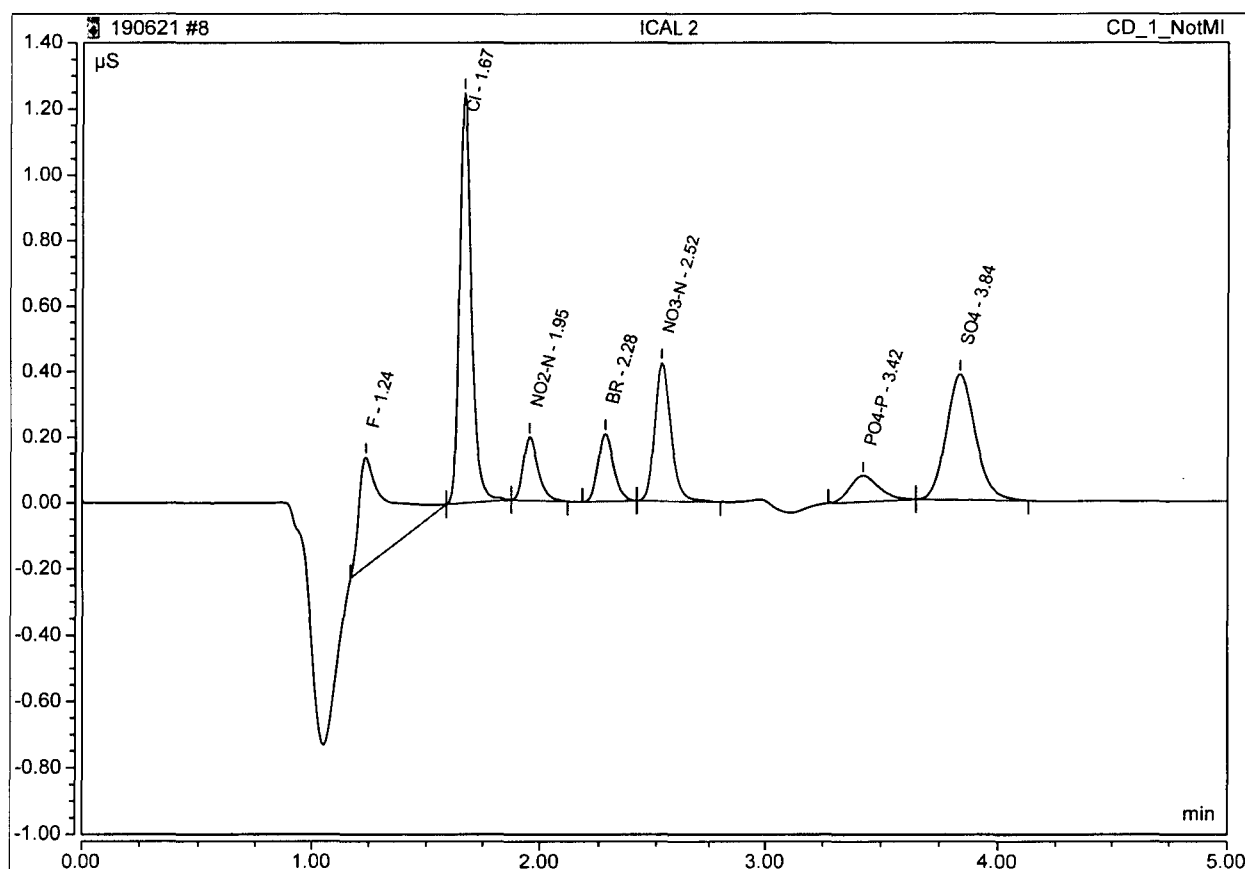


F MI1 190621 TH HH

Not Manipulated Peak Integration Report

Sample Name:	ICAL 2	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Program:	Anion APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	21-Jun-2019 / 12:32	Run Time:	5.00

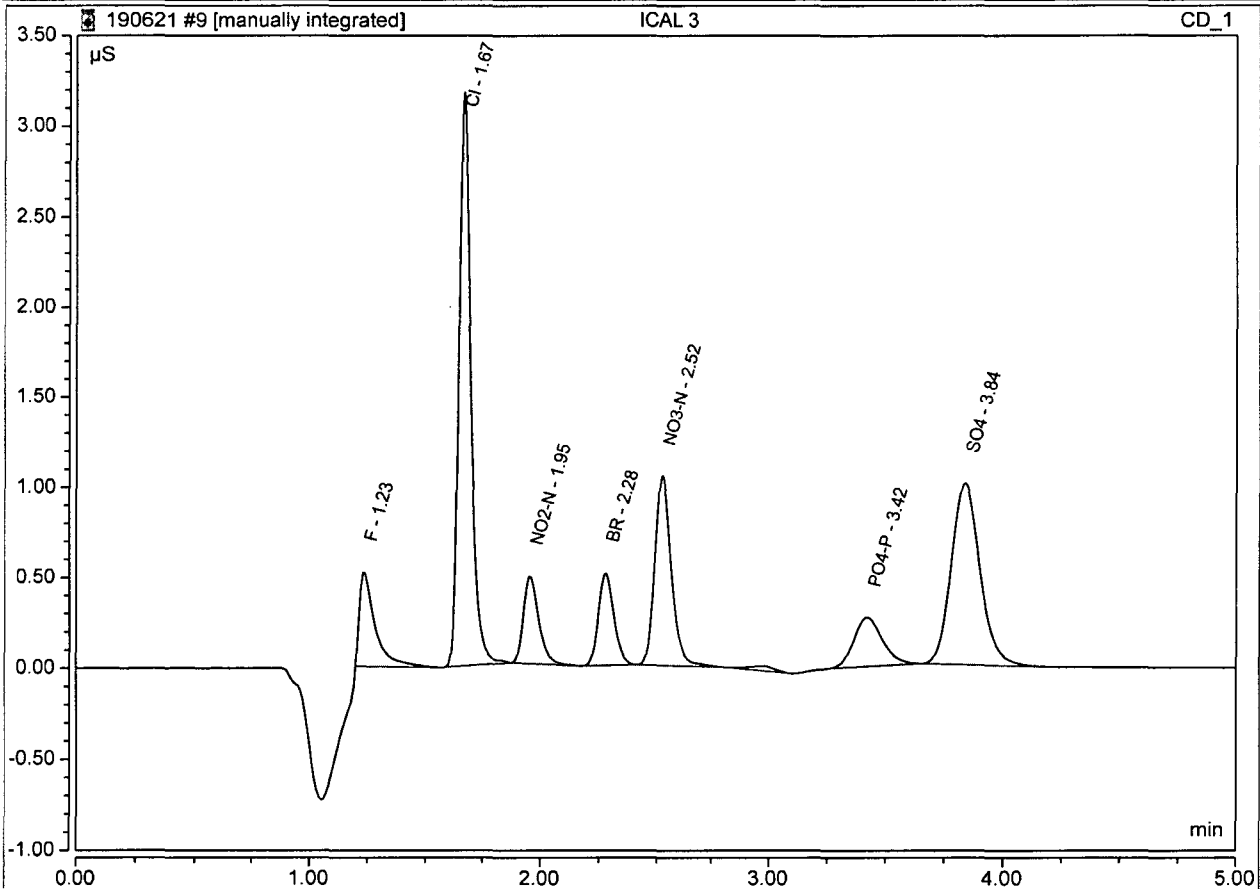
No.	Time min	Peak Name	Peak Type	Area μS*min	Height μS	Ammount mg/L
1	1.24	F	BMB*	0.050	0.332	0.2532
2	1.67	Cl	BMB	0.076	1.250	1.0082
3	1.95	NO2-N	BMB	0.014	0.194	0.0995
4	2.28	BR	BMB	0.016	0.207	0.5073
5	2.52	NO3-N	BMB	0.037	0.422	0.2047
6	3.42	PO4-P	BMB	0.012	0.079	0.6963
7	3.84	SO4	BMB	0.055	0.382	1.0116



Peak Integration Report

Sample Name:		ICAL 3			Inj. Vol.:		25uL	
Injection Type:		Calibration Standard			Dilution Factor:		1.00	
Program:		Anion APM 190621A			Operator:		chemist_wetlab	
Inj. Date / Time:		21-Jun-2019 / 12:40			Run Time:		5.00	

No.	Time (min)	Peak Name	Peak Type	Area (µS*min)	Height (µS)	Amount	Spike Level	Recovery
	min			µS*min	µS	mg/L	mg/L	
1	1.23	F	BMB*	0.040	0.526	0.52	0.625	83.1%
2	1.67	Cl	BMB	0.192	3.176	2.16	2.5	86.4%
3	1.95	NO2-N	BMB	0.036	0.486	0.24	0.25	94.6%
4	2.28	BR	BMB	0.038	0.511	1.18	1.25	94.2%
5	2.52	NO3-N	BMB	0.091	1.050	0.46	0.5	91.7%
7	3.42	PO4-P	BMB*	0.039	0.270	0.89	1.25	71.1%
8	3.84	SO4	BMB	0.143	1.002	2.37	2.5	94.8%

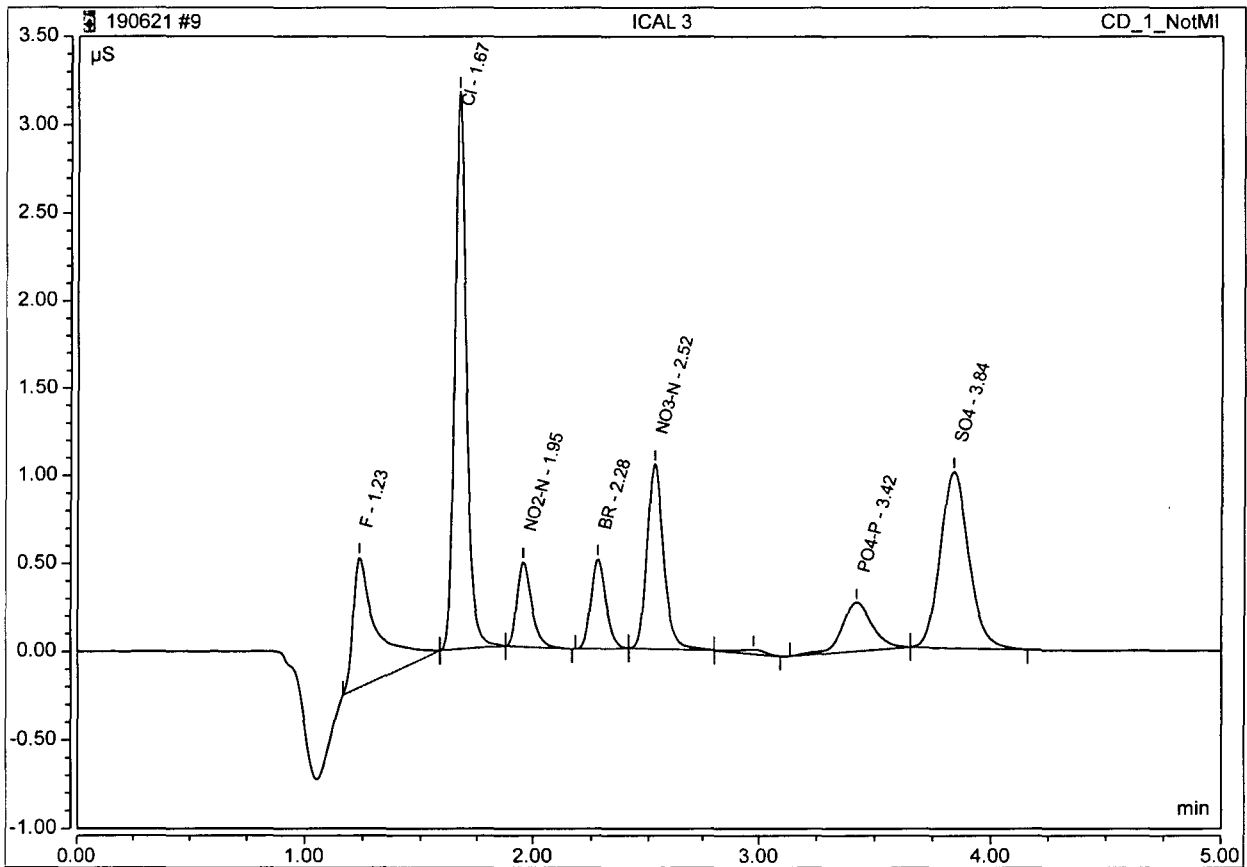


F PO4 MI1 190621 TH HH

Not Manipulated Peak Integration Report

Sample Name:	ICAL 3	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Program:	Anion APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	21-Jun-2019 / 12:40	Run Time:	5.00

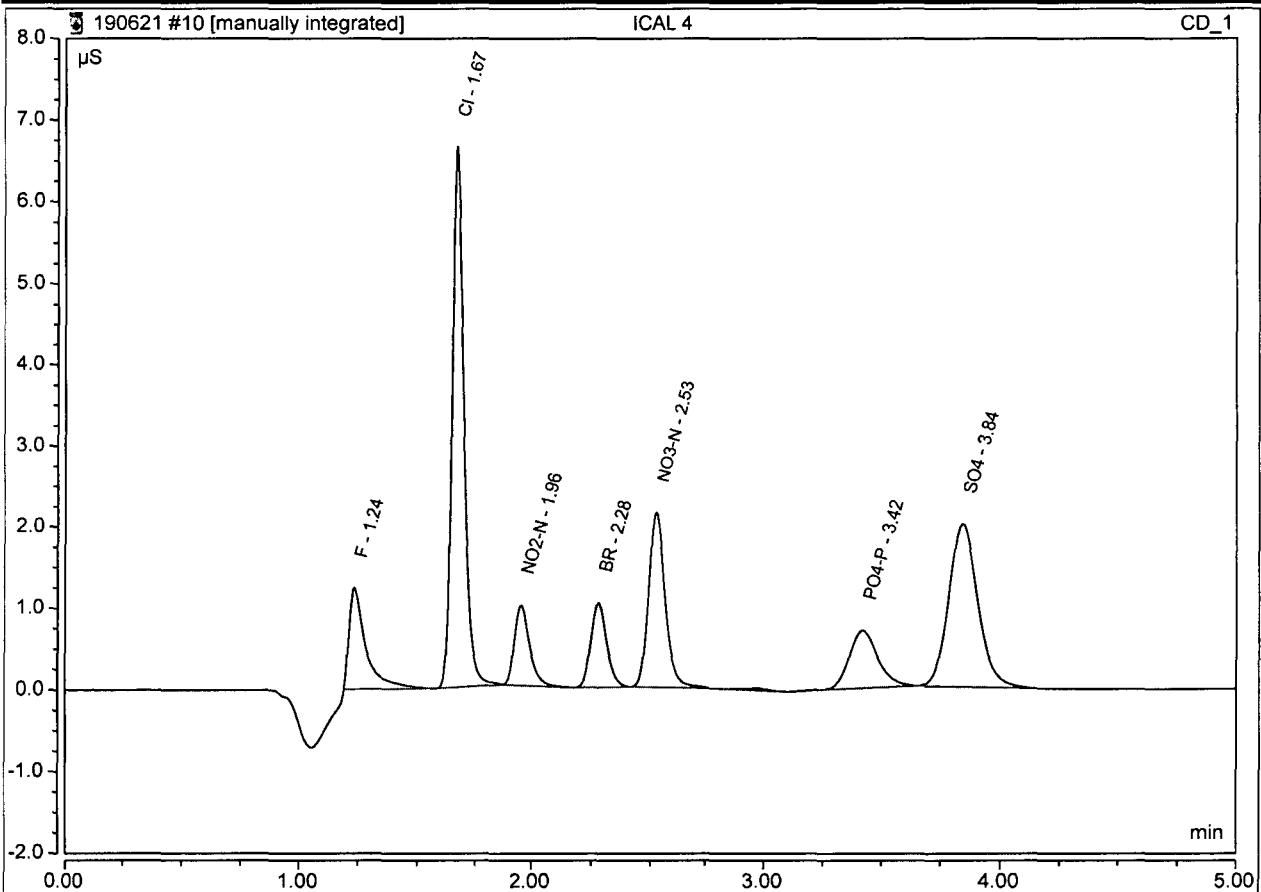
No.	Time min	Peak Name	Peak Type	Area uS*min	Height uS	Ammount mg/L
1	1.23	F	BMB*	0.088	0.741	0.5926
2	1.67	Cl	BMB	0.192	3.176	2.1596
3	1.95	NO2-N	BMB	0.036	0.486	0.2366
4	2.28	BR	BMB	0.038	0.511	1.1771
5	2.52	NO3-N	BMB	0.091	1.050	0.4584
7	3.42	PO4-P	BMB*	0.042	0.278	1.1673
8	3.84	SO4	BMB	0.143	1.002	2.3703



Peak Integration Report

Sample Name:		ICAL 4			Inj. Vol.:		25uL	
Injection Type:		Calibration Standard			Dilution Factor:		1.00	
Program:		Anion APM 190621A			Operator:		chemist_wetlab	
Inj. Date / Time:		21-Jun-2019 / 12:47			Run Time:		5.00	

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	1.24	F	BMB*	0.101	1.241	1.10	1.25	88.0%
2	1.67	Cl	BMB	0.395	6.635	4.18	5	83.6%
3	1.96	NO2-N	BMB	0.074	0.987	0.47	0.5	94.7%
4	2.28	BR	BMB	0.078	1.038	2.34	2.5	93.8%
5	2.53	NO3-N	BMB	0.185	2.143	0.90	1	89.9%
7	3.42	PO4-P	BMB	0.099	0.705	1.85	2.5	74.0%
8	3.84	SO4	BMB	0.283	1.998	4.54	5	90.8%

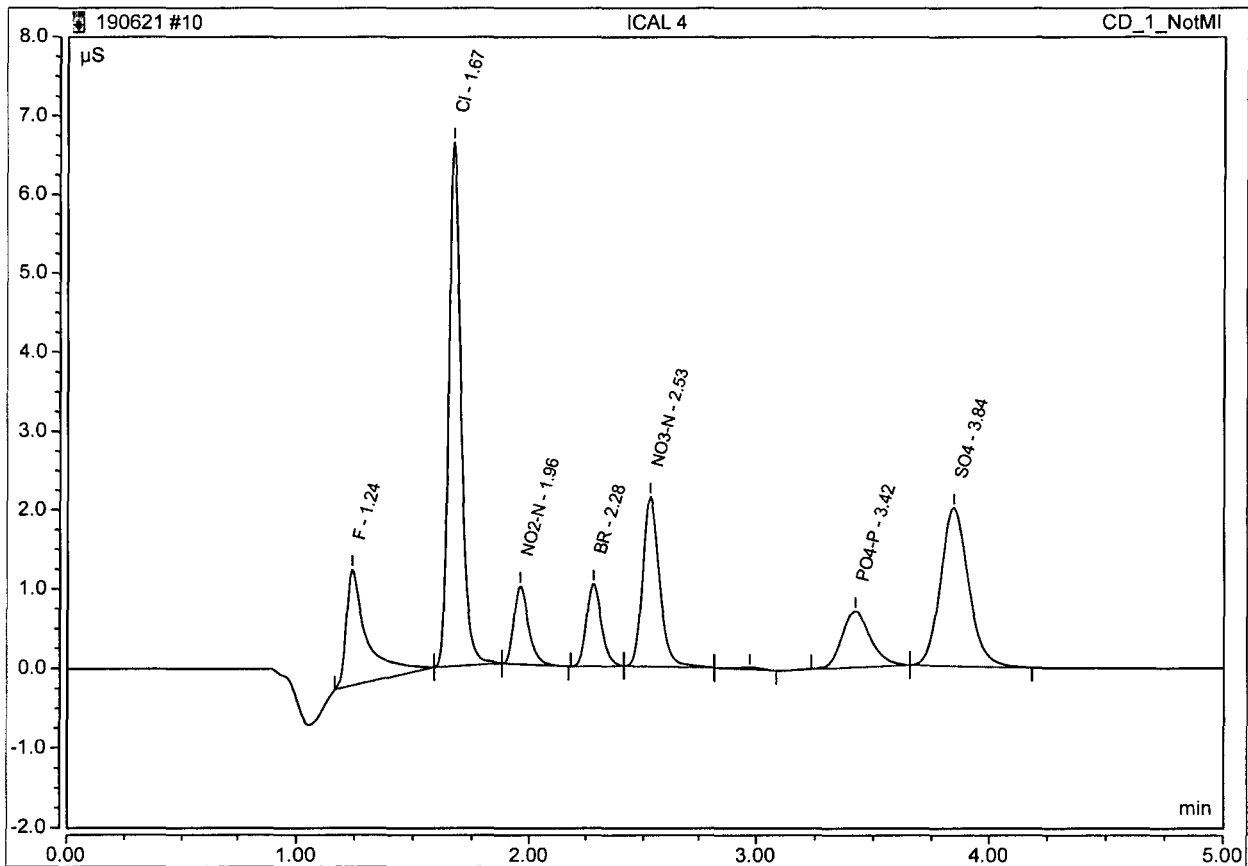


F MI1 190621 TH HH

Not Manipulated Peak Integration Report

Sample Name:	ICAL 4	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Program:	Anion APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	21-Jun-2019 / 12:47	Run Time:	5.00

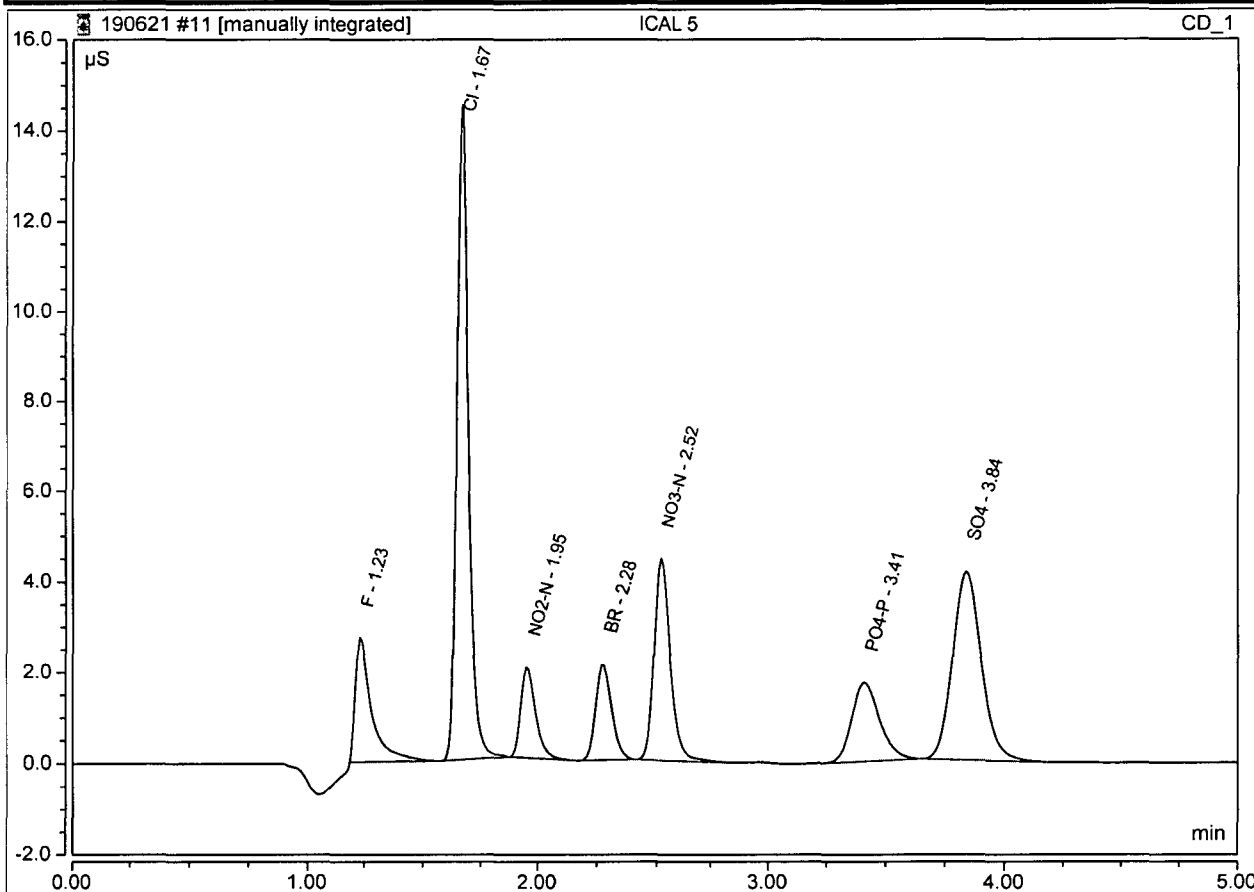
No.	Time min	Peak Name	Peak Type	Area uS*min	Height uS	Amount mg/L
1	1.24	F	BMB*	0.152	1.462	1.1655
2	1.67	Cl	BMB	0.395	6.635	4.1824
3	1.96	NO2-N	BMB	0.074	0.987	0.4734
4	2.28	BR	BMB	0.078	1.038	2.3446
5	2.53	NO3-N	BMB	0.185	2.143	0.8995
7	3.42	PO4-P	BMB	0.099	0.705	2.0486
8	3.84	SO4	BMB	0.283	1.998	4.5389



Peak Integration Report

Sample Name:		ICAL 5			Inj. Vol.:		25uL	
Injection Type:		Calibration Standard			Dilution Factor:		1.00	
Program:		Anion APM 190621A			Operator:		chemist_wetlab	
Inj. Date / Time:		21-Jun-2019 / 12:54			Run Time:		5.00	

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.23	F	BMB*	0.227	2.752	2.30	2.5	91.9%
2	1.67	Cl	BMB	0.841	14.486	8.63	10	86.3%
3	1.95	NO ₂ -N	BMB	0.151	2.011	0.96	1	95.6%
4	2.28	BR	BMB	0.159	2.125	4.73	5	94.5%
5	2.52	NO ₃ -N	BMB	0.381	4.455	1.82	2	90.9%
6	3.41	PO ₄ -P	BMB	0.238	1.739	4.07	5	81.3%
7	3.84	SO ₄	BMB	0.580	4.155	9.14	10	91.4%

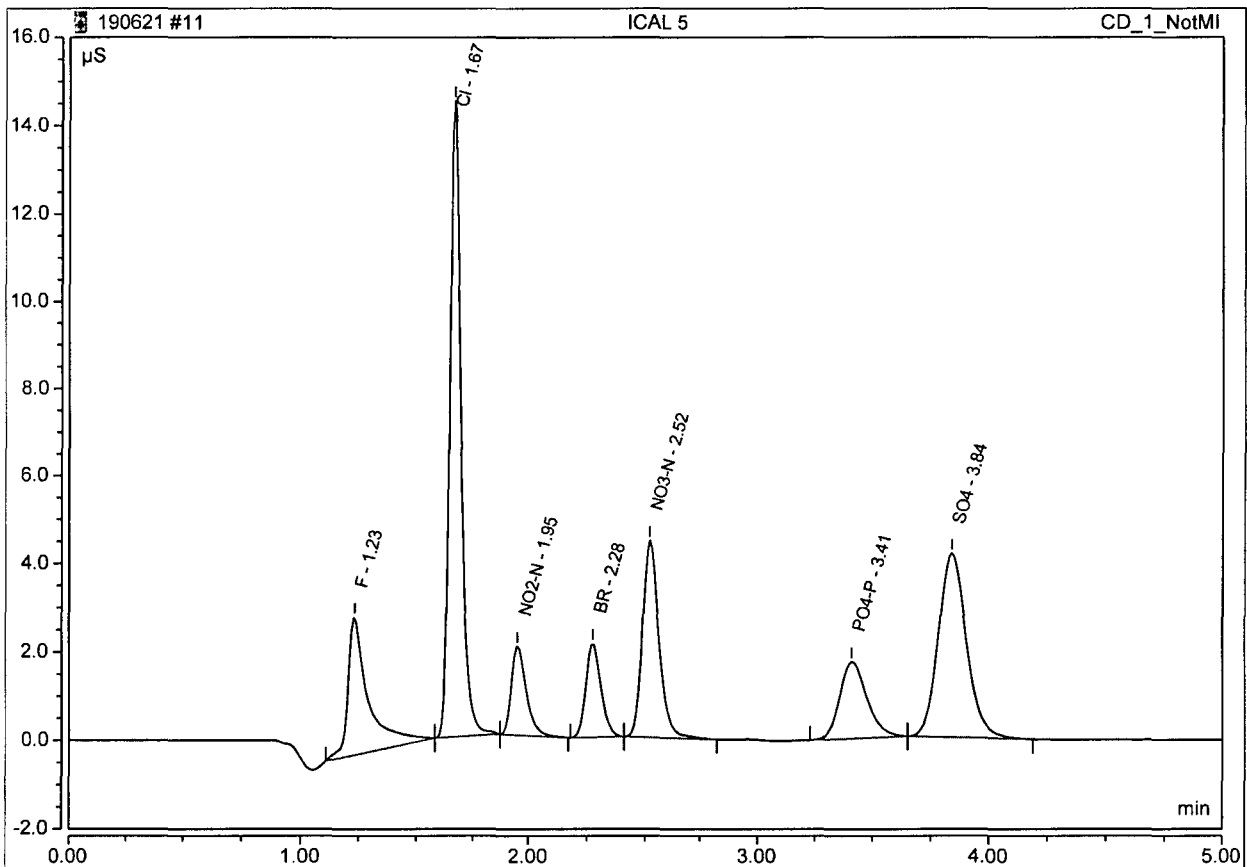


F MI1 190621 TH HH

Not Manipulated Peak Integration Report

Sample Name:	ICAL 5	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Program:	Anion APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	21-Jun-2019 / 12:54	Run Time:	5.00

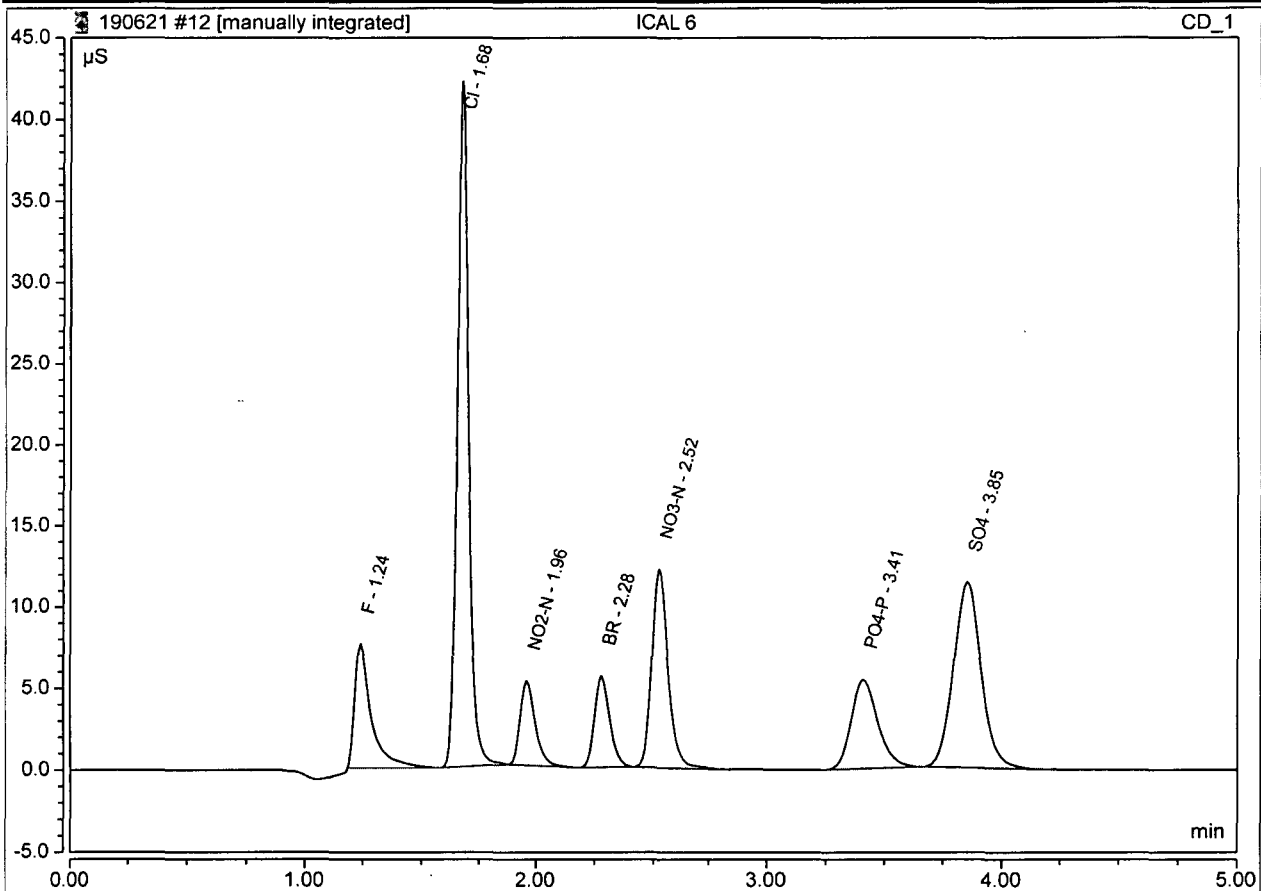
No.	Time min	Peak Name	Peak Type	Area uS*min	Height uS	Amount mg/L
1	1.23	F	BMB*	0.320	3.118	2.6656
2	1.67	Cl	BMB	0.841	14.486	8.6329
3	1.95	NO2-N	BMB	0.151	2.011	0.9558
4	2.28	BR	BMB	0.159	2.125	4.7267
5	2.52	NO3-N	BMB	0.381	4.455	1.8185
6	3.41	PO4-P	BMB	0.238	1.739	4.2100
7	3.84	SO4	BMB	0.580	4.155	9.1402



Peak Integration Report

Sample Name:		ICAL 6			Inj. Vol.:		25uL	
Injection Type:		Calibration Standard			Dilution Factor:		1.00	
Program:		Anion APM 190621A			Operator:		chemist_wetlab	
Inj. Date / Time:		21-Jun-2019 / 13:02			Run Time:		5.00	

No.	Time (min)	Peak Name	Peak Type	Area (µS*min)	Height (µS)	Amount	Spike Level	Recovery
	min			µS*min	µS	mg/L	mg/L	
1	1.24	F	BMB*	0.624	7.596	6.07	6.25	97.2%
2	1.68	Cl	BMB	2.385	42.138	24.02	25	96.1%
3	1.96	NO2-N	BMB	0.390	5.157	2.45	2.5	98.2%
4	2.28	BR	BMB	0.412	5.584	12.19	12.5	97.5%
5	2.52	NO3-N	BMB	1.020	12.155	4.81	5	96.3%
6	3.41	PO4-P	BMB	0.721	5.443	11.76	12.5	94.1%
7	3.85	SO4	BMB	1.547	11.354	24.11	25	96.4%

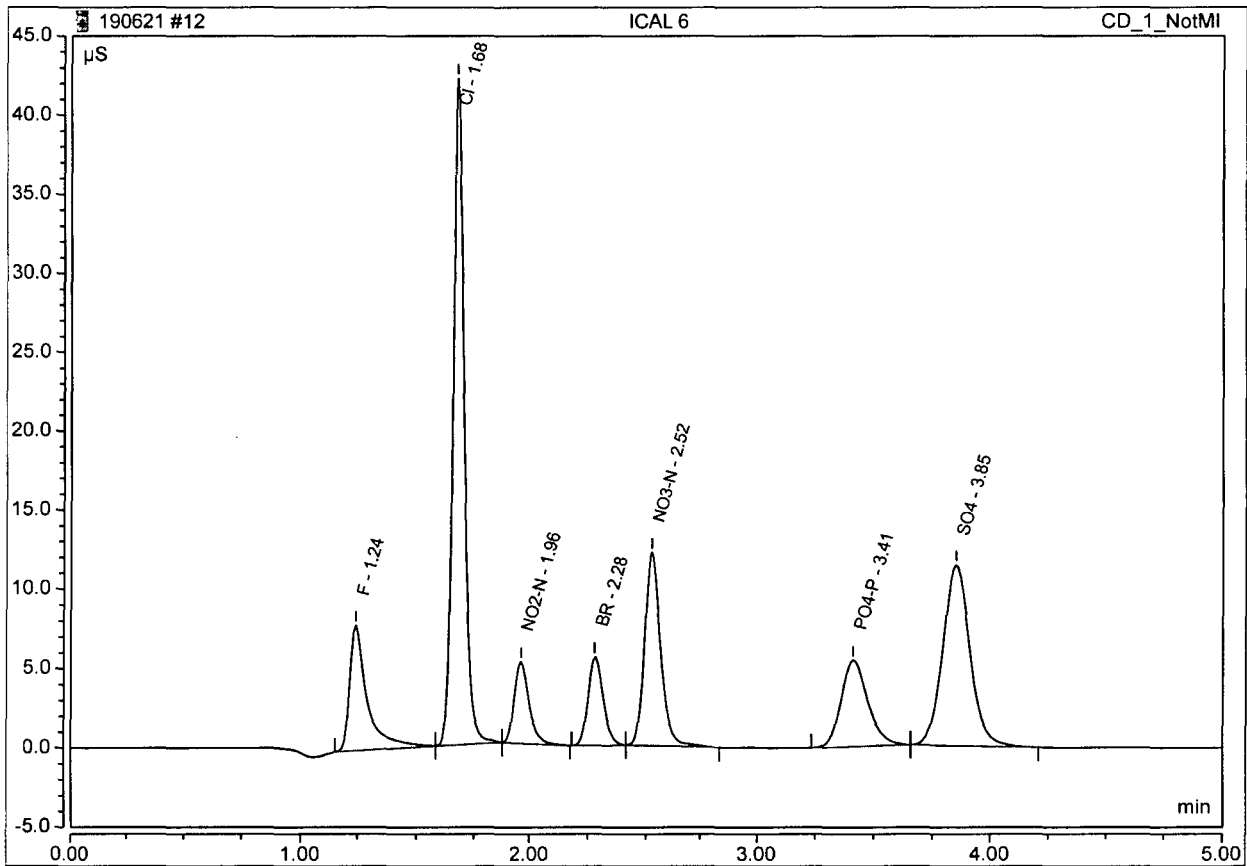


F MI1 190621 TH HH

Not Manipulated Peak Integration Report

Sample Name:	ICAL 6	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Program:	Anion APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	21-Jun-2019 / 13:02	Run Time:	5.00

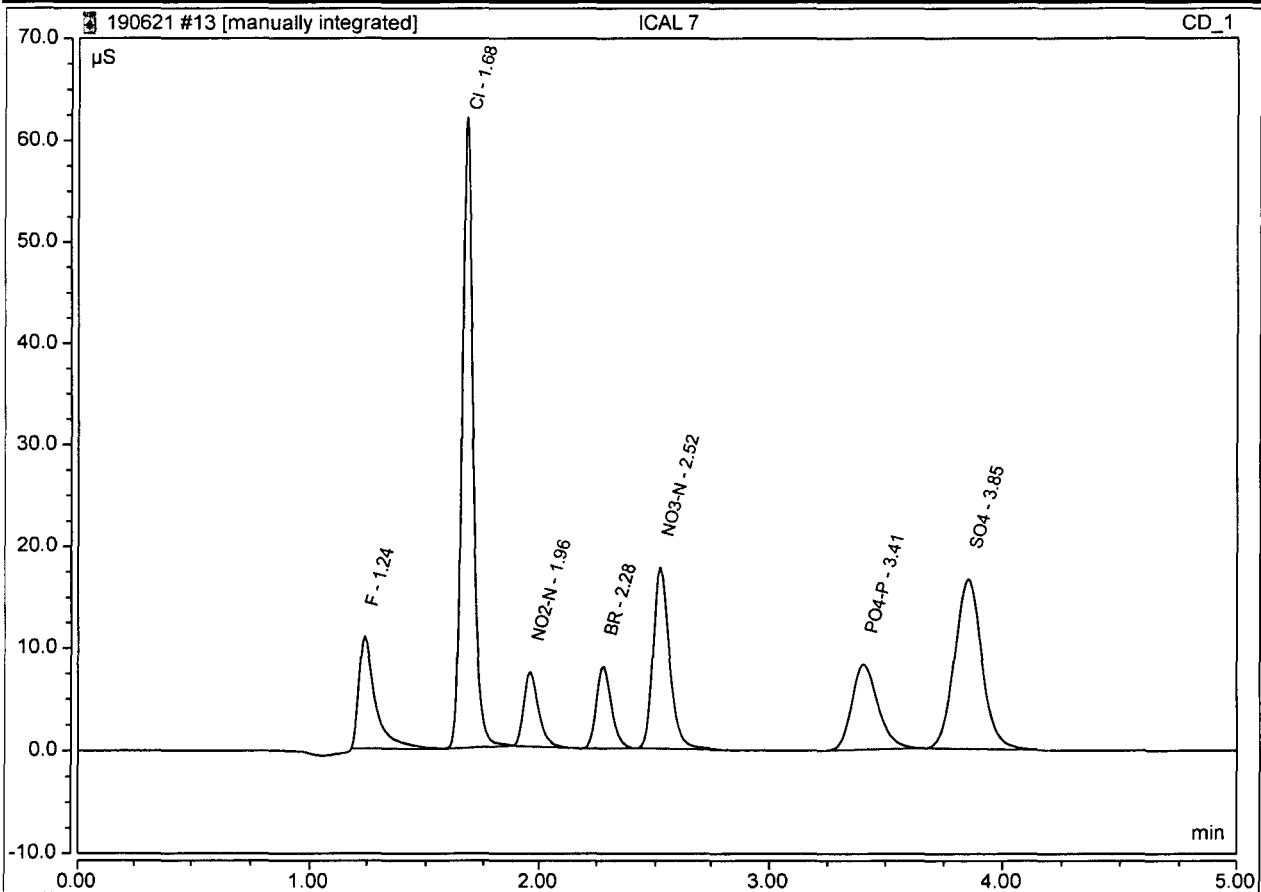
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount mg/L
1	1.24	F	BMB*	0.697	7.899	6.0273
2	1.68	Cl	BMB	2.385	42.138	24.0174
3	1.96	NO ₂ -N	BMB	0.390	5.157	2.4543
4	2.28	BR	BMB	0.412	5.584	12.1924
5	2.52	NO ₃ -N	BMB	1.020	12.155	4.8129
6	3.41	PO ₄ -P	BMB	0.721	5.443	11.7089
7	3.85	SO ₄	BMB	1.547	11.354	24.1124



Peak Integration Report

Sample Name:		ICAL 7			Inj. Vol.:		25uL	
Injection Type:		Calibration Standard			Dilution Factor:		1.00	
Program:		Anion APM 190621A			Operator:		chemist_wetlab	
Inj. Date / Time:		21-Jun-2019 / 13:09			Run Time:		5.00	

No.	Time (min)	Peak Name	Peak Type	Area (µS*min)	Height (µS)	Amount	Spike Level	Recovery
	min			µS*min	µS	mg/L	mg/L	
1	1.24	F	BMB*	0.904	10.992	8.74	8.75	99.8%
2	1.68	Cl	BMB	3.510	62.022	35.24	35	100.7%
3	1.96	NO2-N	BMB	0.555	7.290	3.49	3.5	99.7%
4	2.28	BR	BMB	0.589	8.045	17.41	17.5	99.5%
5	2.52	NO3-N	BMB	1.483	17.781	6.98	7	99.7%
6	3.41	PO4-P	BMB	1.090	8.337	17.62	17.5	100.7%
7	3.85	SO4	BMB	2.239	16.637	34.84	35	99.5%

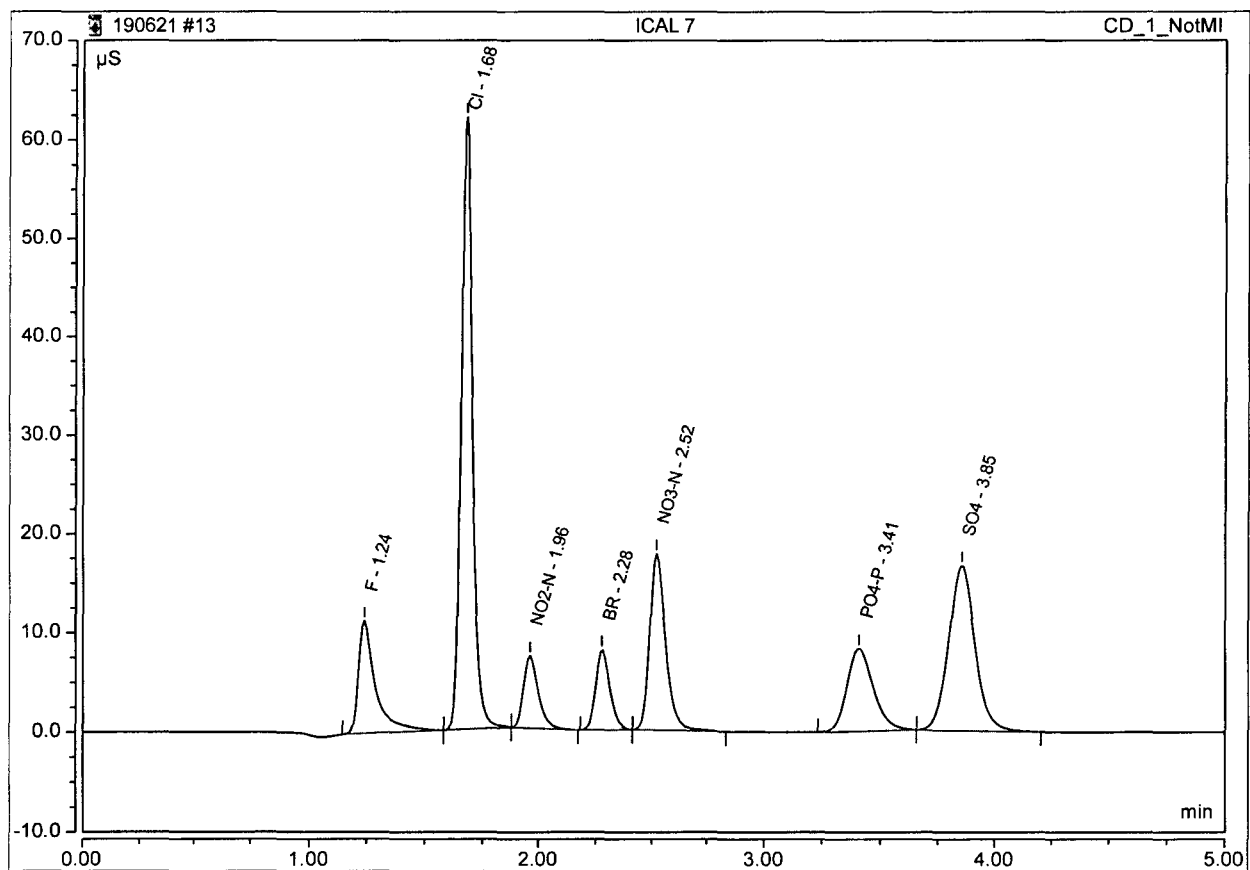


F MI1 190621 TH HH

Not Manipulated Peak Integration Report

Sample Name:	ICAL 7	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Program:	Anion APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	21-Jun-2019 / 13:09	Run Time:	5.00

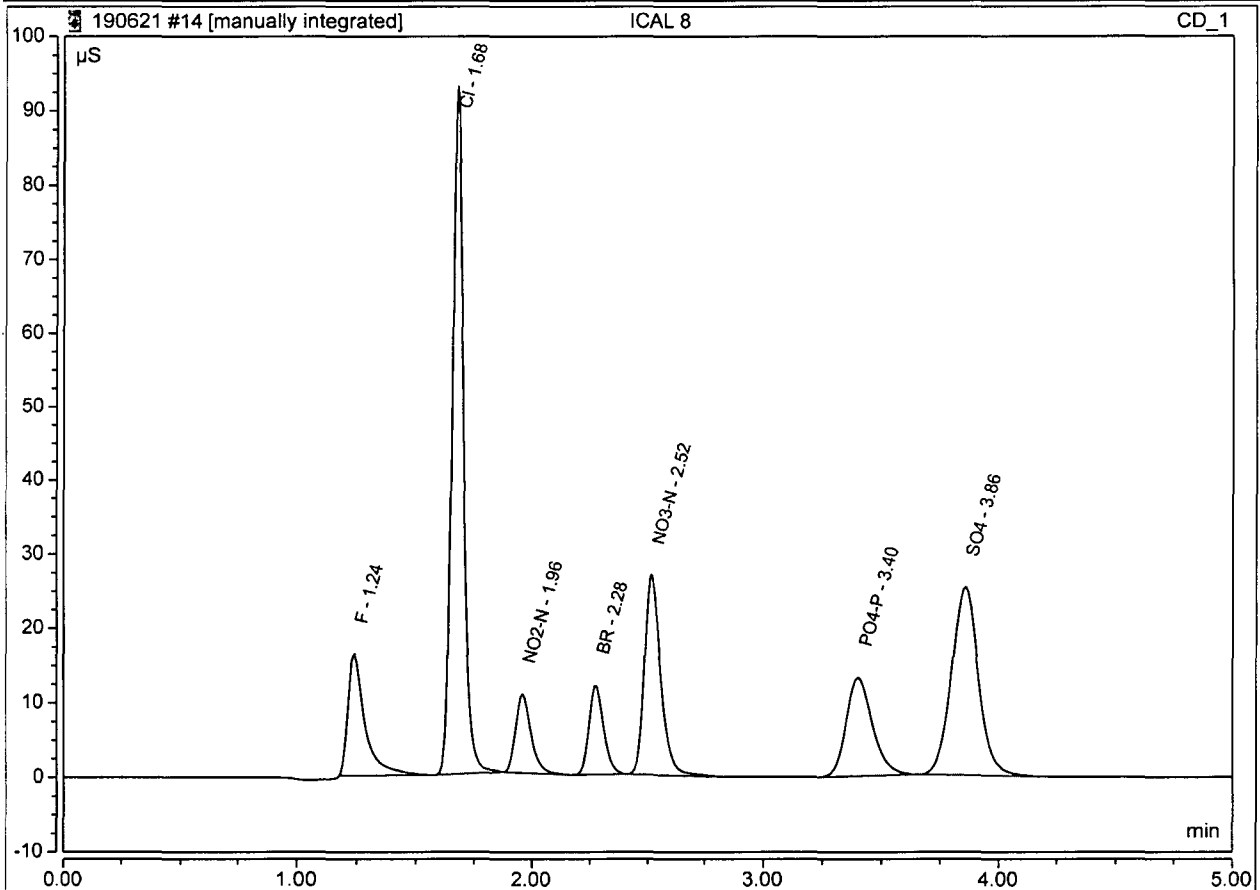
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount mg/L
1	1.24	F	BMB*	0.988	11.342	8.6292
2	1.68	Cl	BMB	3.510	62.022	35.2352
3	1.96	NO2-N	BMB	0.555	7.290	3.4898
4	2.28	BR	BMB	0.589	8.045	17.4066
5	2.52	NO3-N	BMB	1.483	17.781	6.9788
6	3.41	PO4-P	BMB	1.090	8.337	17.4221
7	3.85	SO4	BMB	2.239	16.637	34.8377



Peak Integration Report

Sample Name:		ICAL 8			Inj. Vol.:		25uL	
Injection Type:		Calibration Standard			Dilution Factor:		1.00	
Program:		Anion APM 190621A			Operator:		chemist_wetlab	
Inj. Date / Time:		21-Jun-2019 / 13:17			Run Time:		5.00	

No.	Time (min)	Peak Name	Peak Type	Area (µS*min)	Height (µS)	Amount	Spike Level	Recovery
	min			µS*min	µS	mg/L	mg/L	
1	1.24	F	BMB*	1.365	16.366	13.13	12.5	105.0%
2	1.68	Cl	BMB	5.304	92.893	53.10	50	106.2%
3	1.96	NO2-N	BMB	0.818	10.611	5.13	5	102.7%
4	2.28	BR	BMB	0.876	12.074	25.86	25	103.5%
5	2.52	NO3-N	BMB	2.236	26.898	10.51	10	105.1%
6	3.40	PO4-P	BMB	1.707	13.236	27.45	25	109.8%
7	3.86	SO4	BMB	3.374	25.310	52.40	50	104.8%

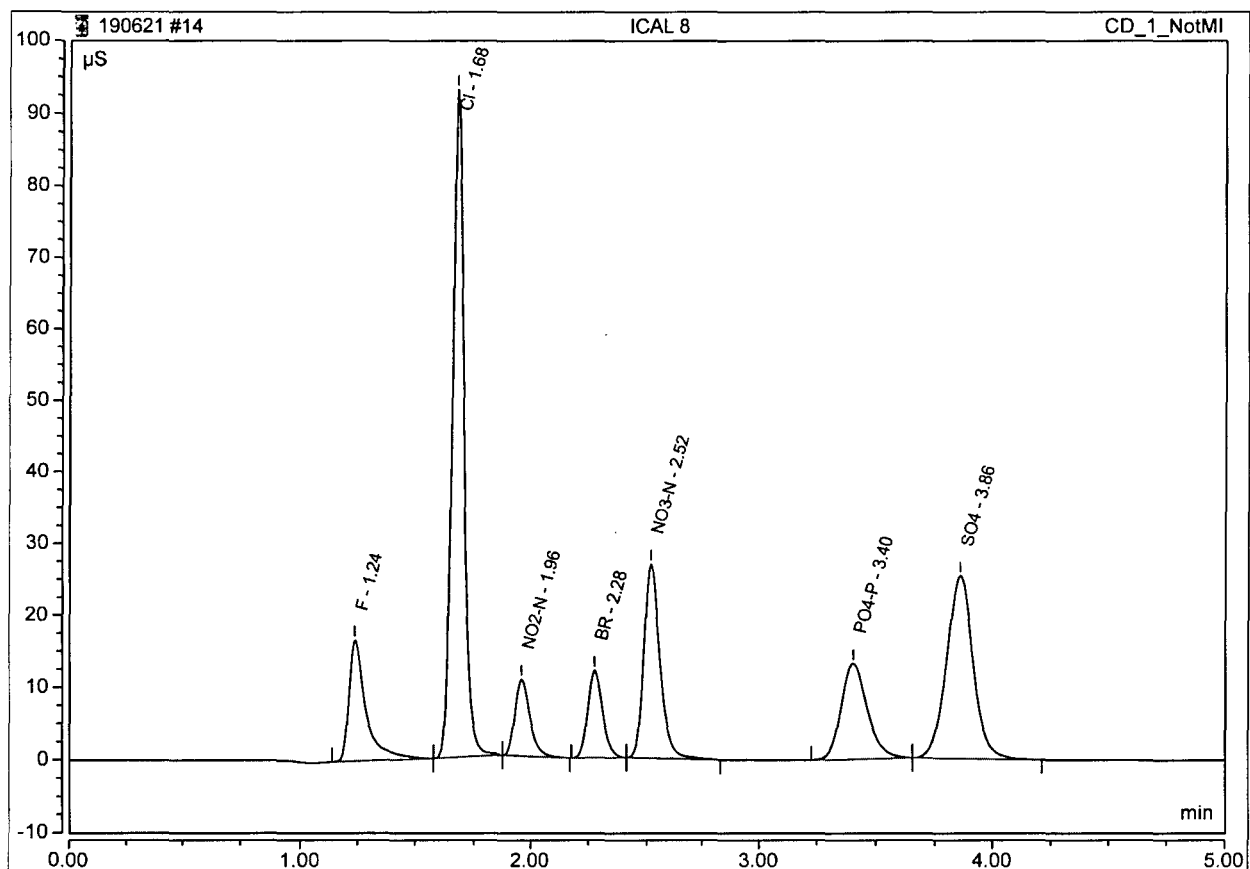


F MI1 190621 TH HH

Not Manipulated Peak Integration Report

Sample Name:	ICAL 8	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Program:	Anion APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	21-Jun-2019 / 13:17	Run Time:	5.00

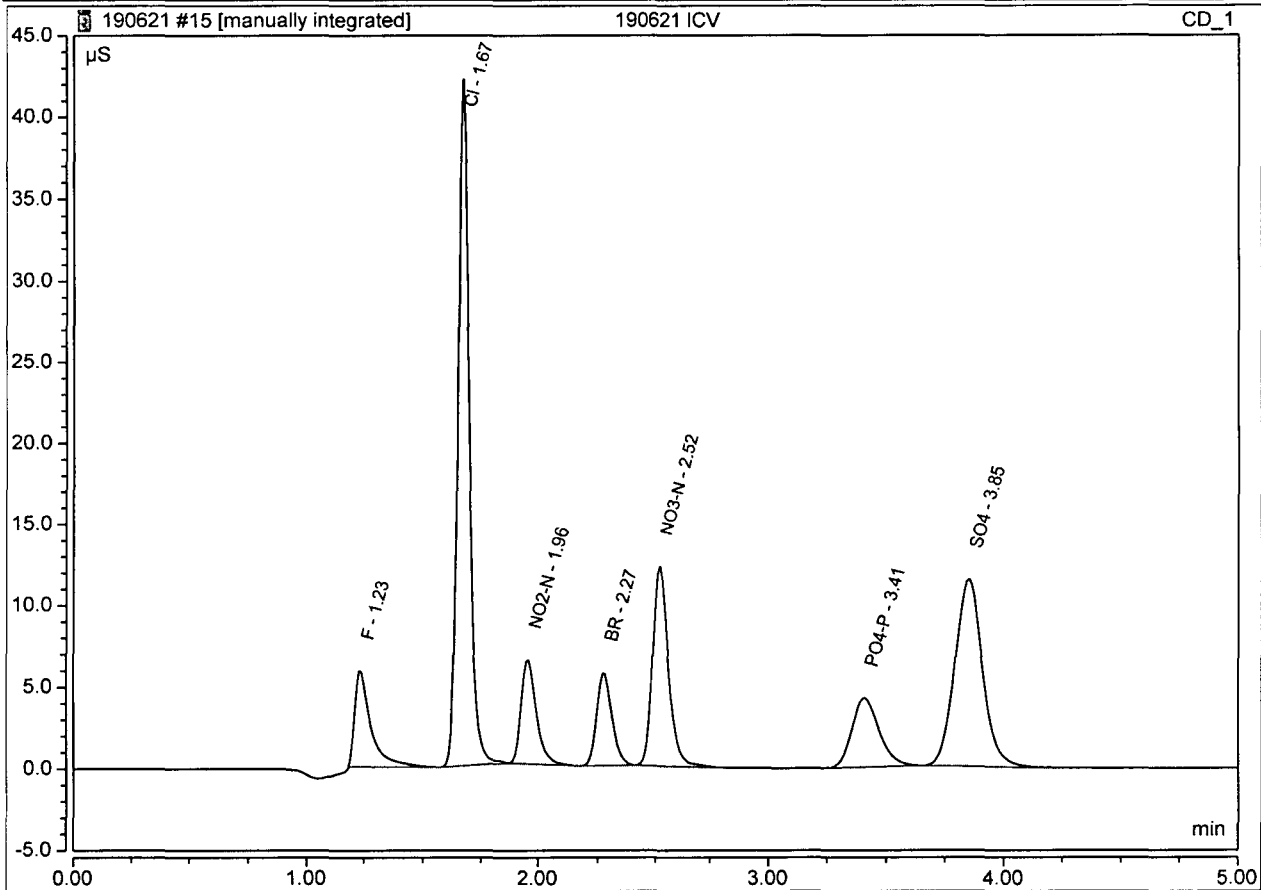
No.	Time min	Peak Name	Peak Type	Area uS*min	Height uS	Amount mg/L
1	1.24	F	BMB*	1.454	16.727	12.7849
2	1.68	Cl	BMB	5.304	92.893	53.1049
3	1.96	NO2-N	BMB	0.818	10.611	5.1346
4	2.28	BR	BMB	0.876	12.074	25.8642
5	2.52	NO3-N	BMB	2.236	26.898	10.5081
6	3.40	PO4-P	BMB	1.707	13.236	26.9968
7	3.86	SO4	BMB	3.374	25.310	52.4046



Peak Integration Report

Sample Name:		190621 ICV			Inj. Vol.:		25uL	
Injection Type:		Check Standard			Dilution Factor:		1.00	
Program:		Anion APM 190621A			Operator:		chemist_wetlab	
Inj. Date / Time:		21-Jun-2019 / 13:24			Run Time:		5.00	

No.	Time (min)	Peak Name	Peak Type	Area (µS*min)	Height (µS)	Amount	Spike Level	Recovery
	min			µS*min	µS	mg/L	mg/L	
1	1.23	F	BMB*	0.480	5.935	4.70	5	94.1%
2	1.67	Cl	BMB	2.387	42.157	24.04	25	96.2%
3	1.96	NO2-N	BMB	0.489	6.392	3.08	3.04	101.2%
4	2.27	BR	BMB	0.422	5.720	12.47	12.5	99.8%
5	2.52	NO3-N	BMB	1.032	12.274	4.87	5	97.4%
6	3.41	PO4-P	BMB	0.566	4.251	9.28	10	92.8%
7	3.85	SO4	BMB	1.563	11.483	24.37	25	97.5%



F MI1 190621 TH HH

Algorithm Check

y = Peak Area

x = mg/L S04

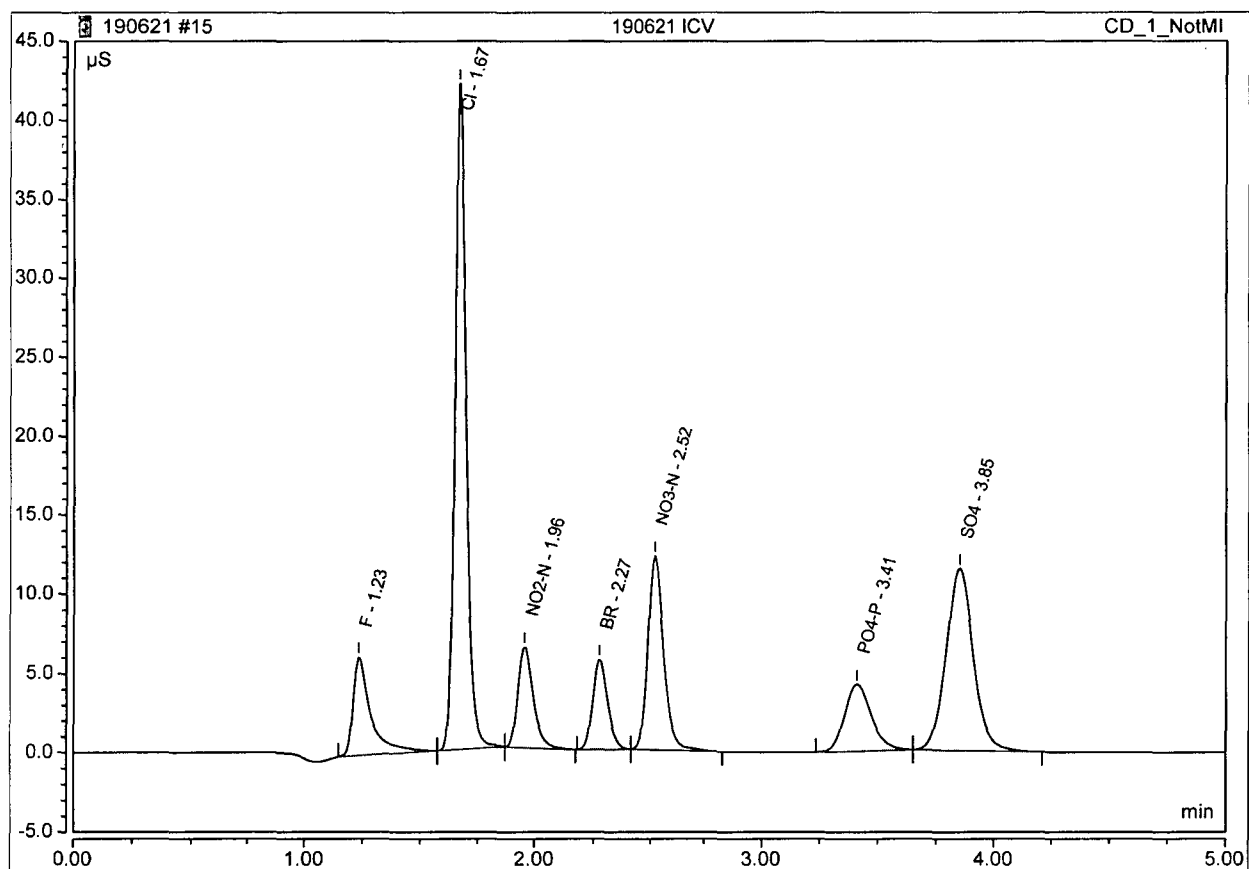
$$y = 0.0646 \quad x + \quad -0.0105$$

$$y = 1.5635 \quad \text{therefor } x = 24.36 \text{ 190621 TH HH}$$

Not Manipulated Peak Integration Report

Sample Name:	190621 ICV	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.0000
Program:	Anion APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	21-Jun-2019 / 13:24	Run Time:	5.00

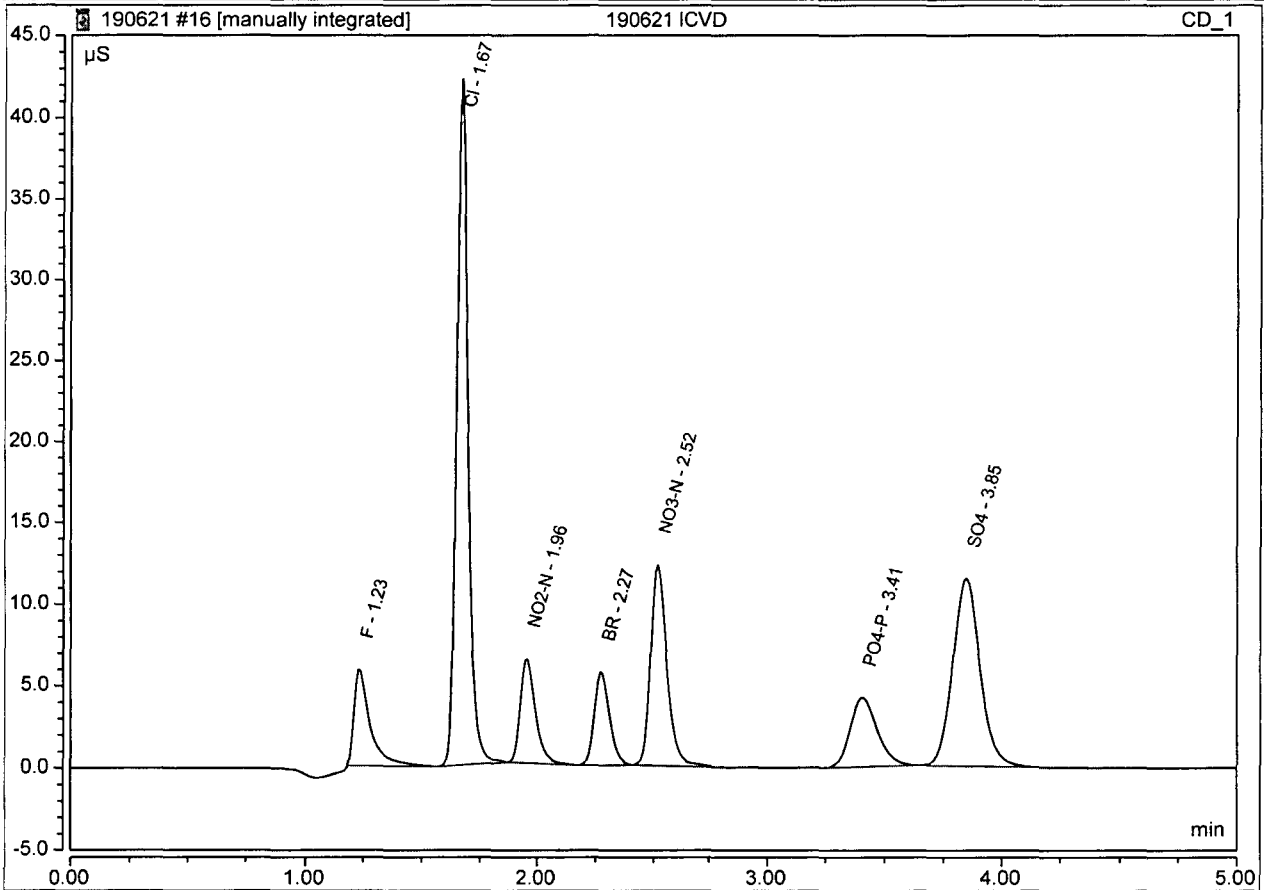
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount mg/L
1	1.23	F	BMB*	0.554	6.246	4.7499
2	1.67	Cl	BMB	2.387	42.157	24.0440
3	1.96	NO2-N	BMB	0.489	6.392	3.0761
4	2.27	BR	BMB	0.422	5.720	12.4748
5	2.52	NO3-N	BMB	1.032	12.274	4.8686
6	3.41	PO4-P	BMB	0.566	4.251	9.2897
7	3.85	SO4	BMB	1.563	11.483	24.3724



Peak Integration Report

Sample Name:		190621 ICVD			Inj. Vol.:		25uL	
Injection Type:		Check Standard			Dilution Factor:		1.00	
Program:		Anion APM 190621A			Operator:		chemist_wetlab	
Inj. Date / Time:		21-Jun-2019 / 13:31			Run Time:		5.00	

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	1.23	F	BMB*	0.478	5.928	4.69	5	93.8%
2	1.67	Cl	BMB	2.387	42.171	24.04	25	96.1%
3	1.96	NO2-N	BMB	0.490	6.394	3.08	3.04	101.3%
4	2.27	BR	BMB	0.422	5.722	12.48	12.5	99.8%
5	2.52	NO3-N	BMB	1.033	12.278	4.87	5	97.4%
6	3.41	PO4-P	BMB	0.563	4.231	9.23	10	92.3%
7	3.85	SO4	BMB	1.564	11.484	24.38	25	97.5%

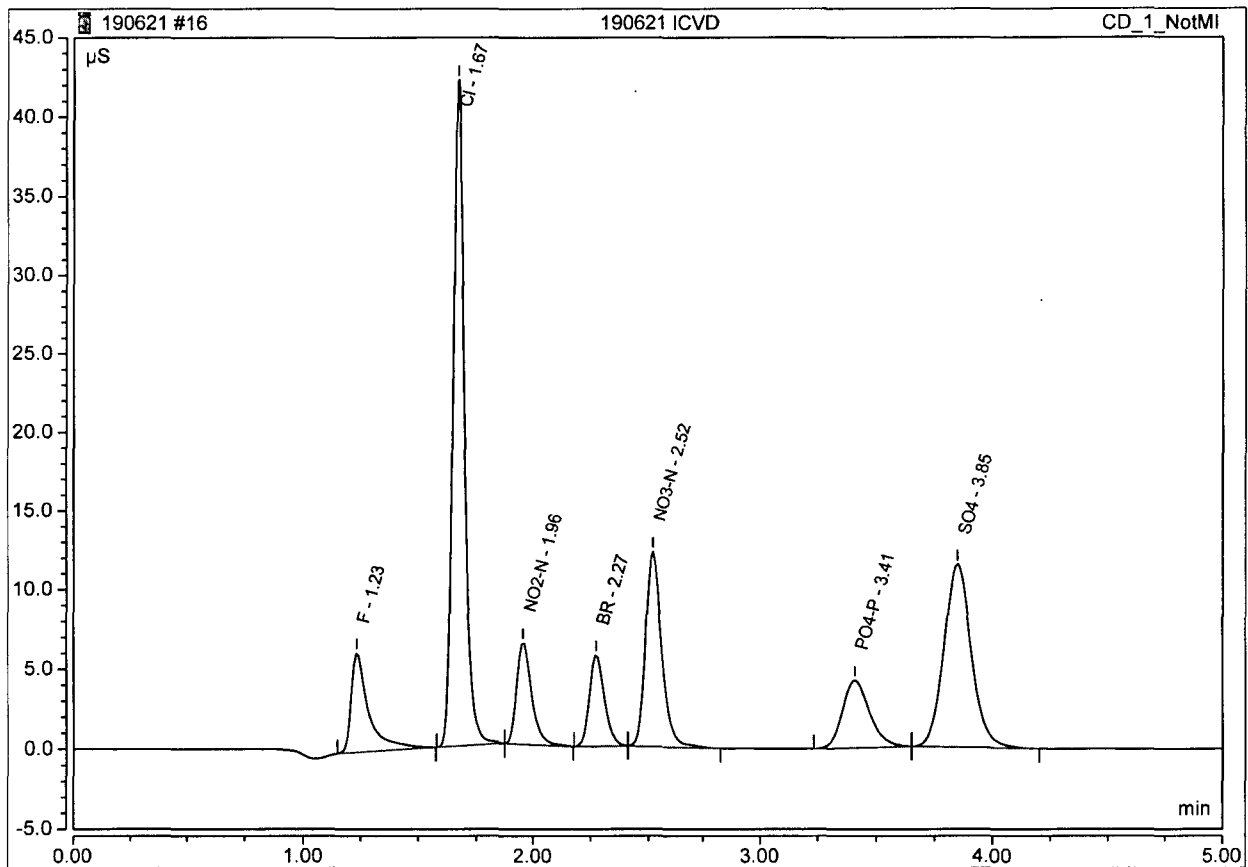


F MI1 190621 TH HH

Not Manipulated Peak Integration Report

Sample Name:	190621 ICVD	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.0000
Program:	Anion APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	21-Jun-2019 / 13:31	Run Time:	5.00

No.	Time min	Peak Name	Peak Type	Area uS*min	Height uS	Amount mg/L
1	1.23	F	BMB*	0.553	6.243	4.7441
2	1.67	Cl	BMB	2.387	42.171	24.0366
3	1.96	NO2-N	BMB	0.490	6.394	3.0800
4	2.27	BR	BMB	0.422	5.722	12.4794
5	2.52	NO3-N	BMB	1.033	12.278	4.8700
6	3.41	PO4-P	BMB	0.563	4.231	9.2469
7	3.85	SO4	BMB	1.564	11.484	24.3803

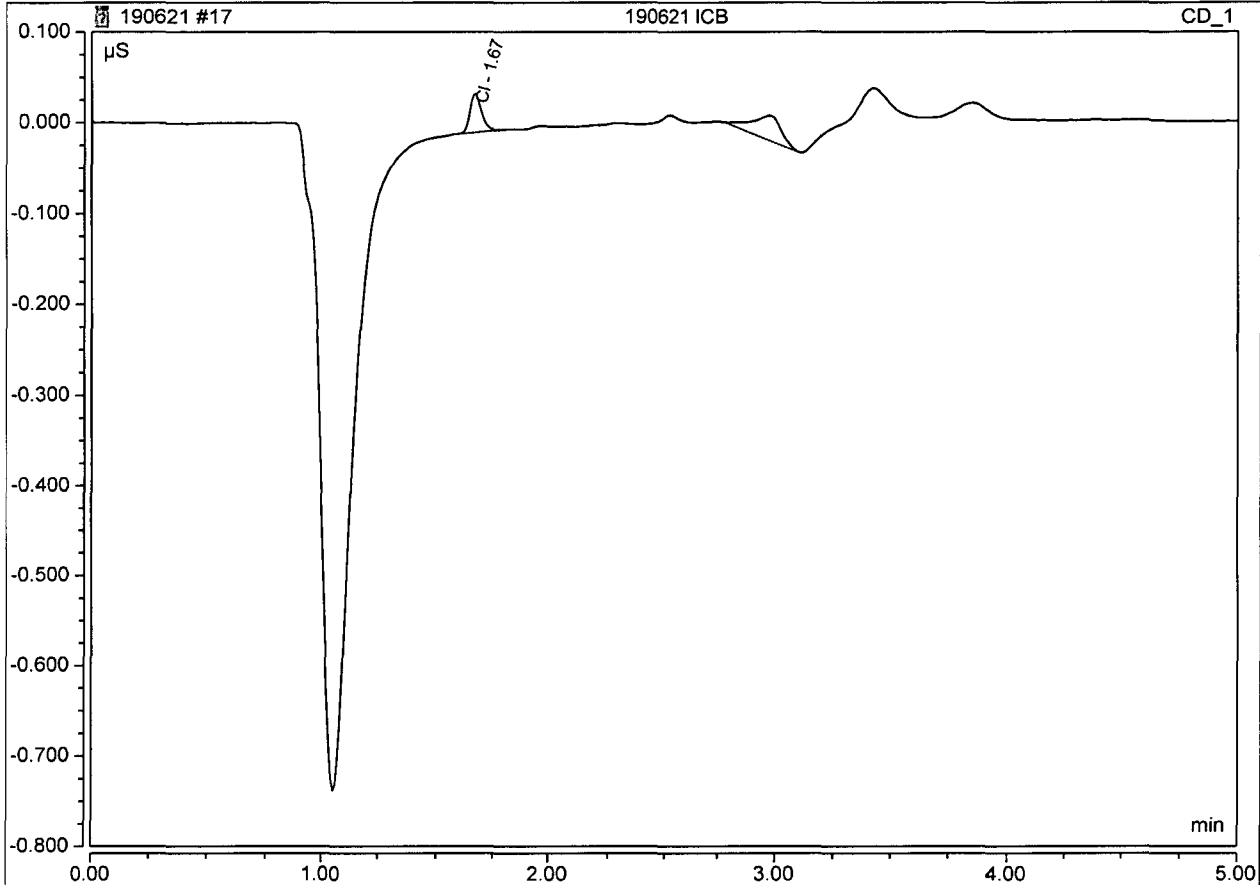


Peak Integration Report

Sample Name: 190621 ICB		Inj. Vol.: 25uL	
Injection Type: Unknown		Dilution Factor: 1.00	
Program: Anion APM 190621A		Operator: chemist_wetlab	
Inj. Date / Time: 21-Jun-2019 / 13:46		Run Time: 5.00	

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	

1	1.67	Cl	BMB	0.003	0.043	0.28		
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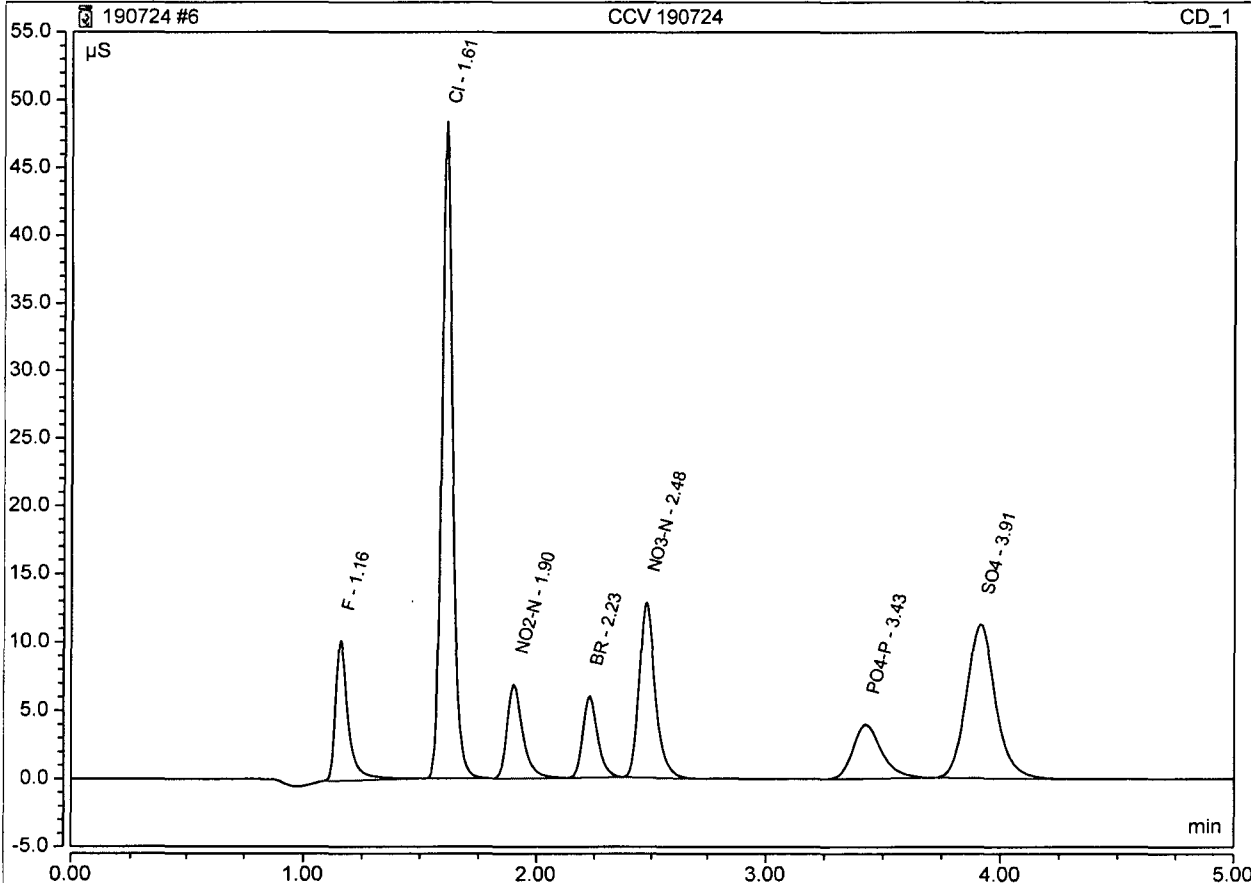


Logged on User: HH
 Instrument: Charlie System_1
 Sequence: 190724

Peak Integration Report

Sample Name:		CCV 190724			Inj. Vol.:		25uL	
Injection Type:		Check Standard			Dilution Factor:		1.00	
Program:		Anlon APM 190621A			Operator:		chemist_wetlab	
Inj. Date / Time:		24-Jul-2019 / 13:43			Run Time:		5.00	

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.16	F	BMB	0.645	10.270	6.28	5	125.6%
2	1.61	Cl	BMB	2.567	48.387	25.83	25	103.3%
3	1.90	NO2-N	BMB	0.536	6.862	3.37	3.04	110.8%
4	2.23	BR	BMB	0.443	5.977	13.10	12.5	104.8%
5	2.48	NO3-N	BMB	1.068	12.804	5.04	5	100.7%
6	3.43	PO4-P	BMB	0.562	3.957	9.22	10	92.2%
7	3.91	SO4	BMB	1.614	11.237	25.15	25	100.6%

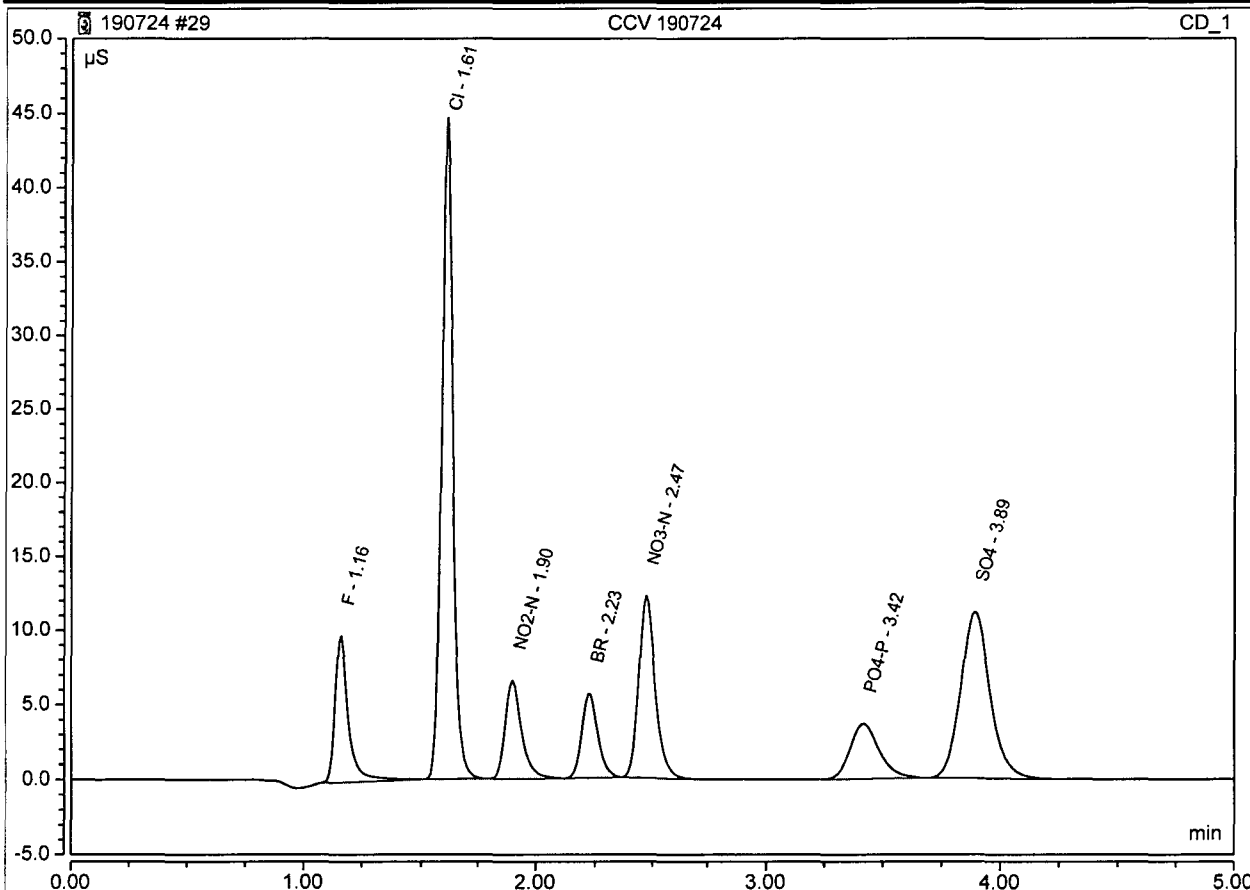


Logged on User: HH
 Instrument: Charlie System_1
 Sequence: 190724

Peak Integration Report

Sample Name:		CCV 190724			Inj. Vol.:		25uL	
Injection Type:		Check Standard			Dilution Factor:		1.00	
Program:		Anlon APM 190621A			Operator:		chemist_wetlab	
Inj. Date / Time:		24-Jul-2019 / 18:31			Run Time:		5.00	

No.	Time (min) min	Peak Name	Peak Type	Area (μS*min) μS*min	Height (μS) μS	Amount mg/L	Spike Level mg/L	Recovery
1	1.16	F	BMB	0.651	9.880	6.33	5	126.6%
2	1.61	Cl	BMB	2.555	44.691	25.72	25	102.9%
3	1.90	NO2-N	BMB	0.534	6.586	3.36	3.04	110.5%
4	2.23	BR	BMB	0.439	5.680	13.00	12.5	104.0%
5	2.47	NO3-N	BMB	1.059	12.257	5.00	5	99.9%
6	3.42	PO4-P	BMB	0.529	3.690	8.70	10	87.0%
7	3.89	SO4	BMB	1.617	11.173	25.20	25	100.8%

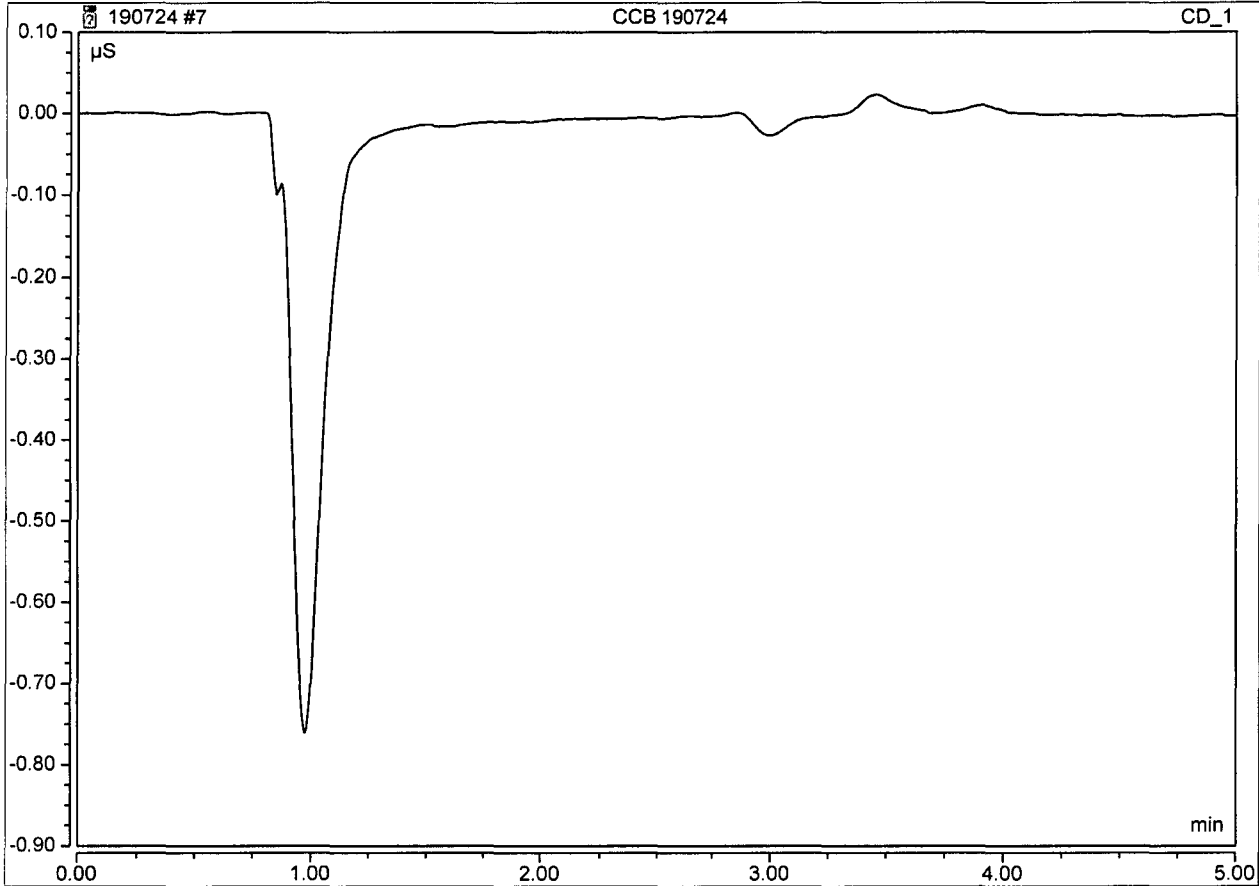


Logged on User: HH
Instrument: Charlie System_1
Sequence: 190724

Peak Integration Report

Sample Name:	CCB 190724	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anlon APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	24-Jul-2019 / 13:51	Run Time:	5.00

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	

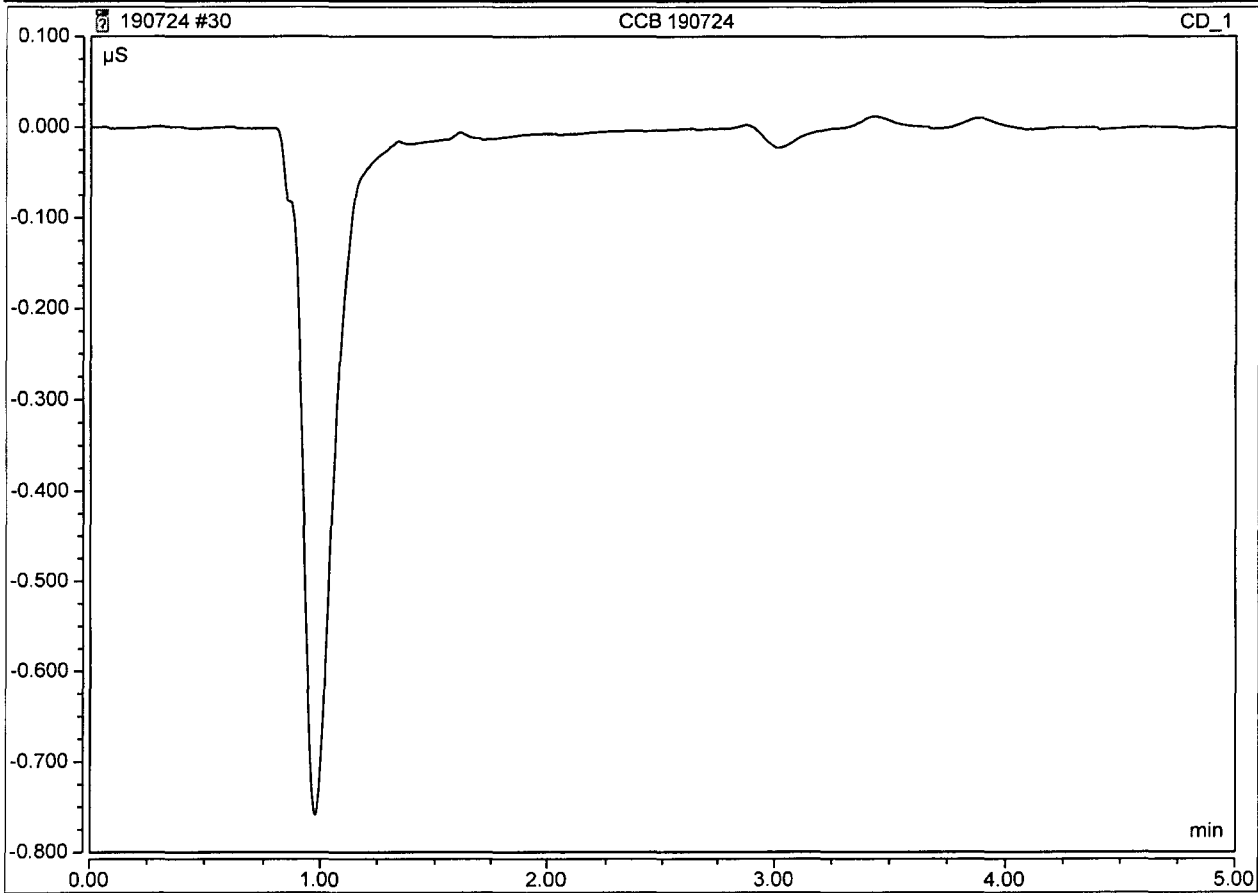


Logged on User: HH
Instrument: Charlie System_1
Sequence: 190724

Peak Integration Report

Sample Name:	CCB 190724	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	24-Jul-2019 / 18:39	Run Time:	5.00

No.	Time (min) min	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$) $\mu\text{S}\cdot\text{min}$	Height (μS) μS	Amount mg/L	Spike Level mg/L	Recovery
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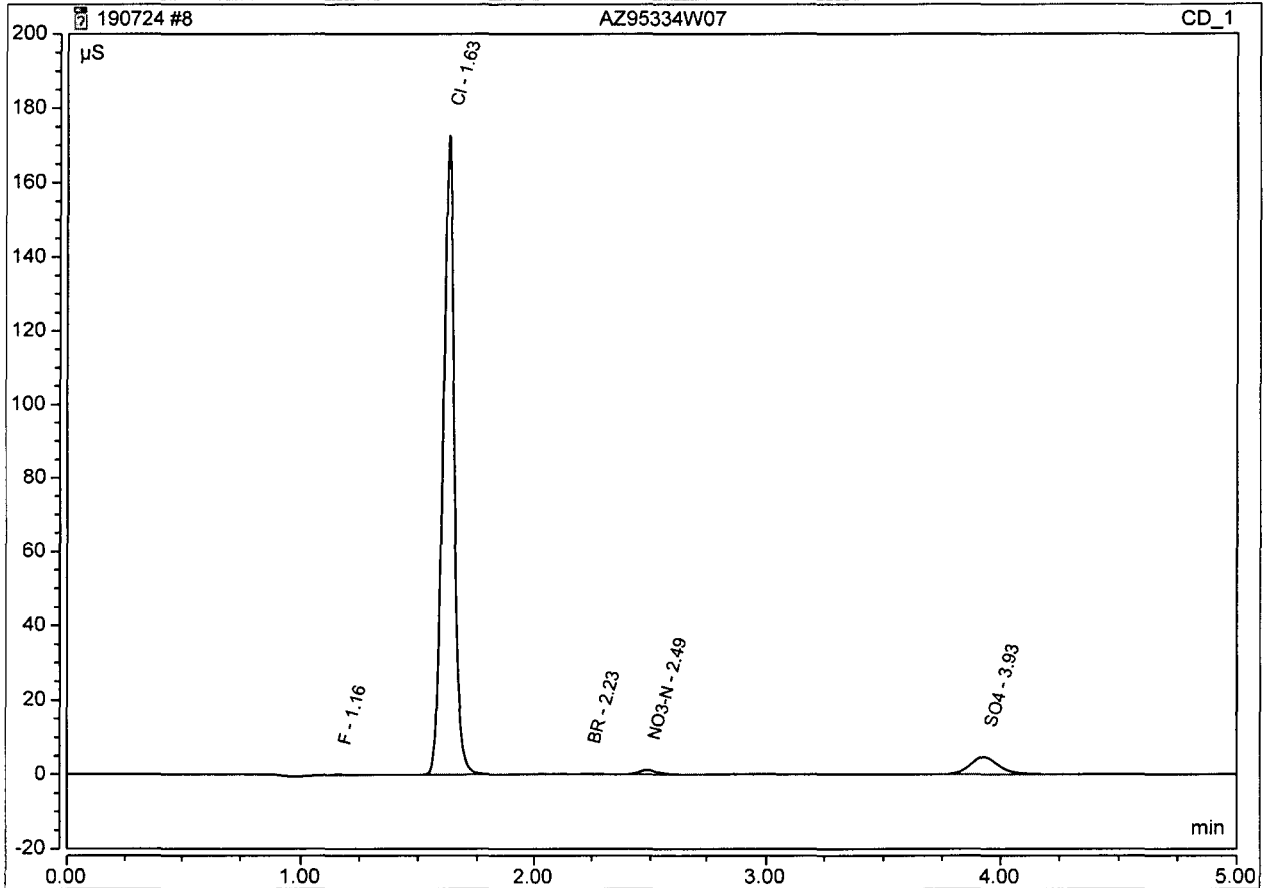
INORGANIC ANALYSIS
Raw Data

Logged on User: HH
 Instrument: Charlie System_1
 Sequence: 190724

Peak Integration Report

Sample Name:		AZ95334W07			Inj. Vol.:		25uL	
Injection Type:		Unknown			Dilution Factor:		1.00	
Program:		Anion APM 190621A			Operator:		chemist_wetlab	
Inj. Date / Time:		24-Jul-2019 / 15:43			Run Time:		5.00	

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.16	F	BMB	0.019	0.159	0.32		
2	1.63	Cl	BMB	9.450	172.612	94.43		
3	2.23	BR	BMB	0.008	0.114	0.29		
4	2.49	NO3-N	BMB	0.112	1.158	0.56		
5	3.93	SO4	BMB	0.676	4.647	10.64		

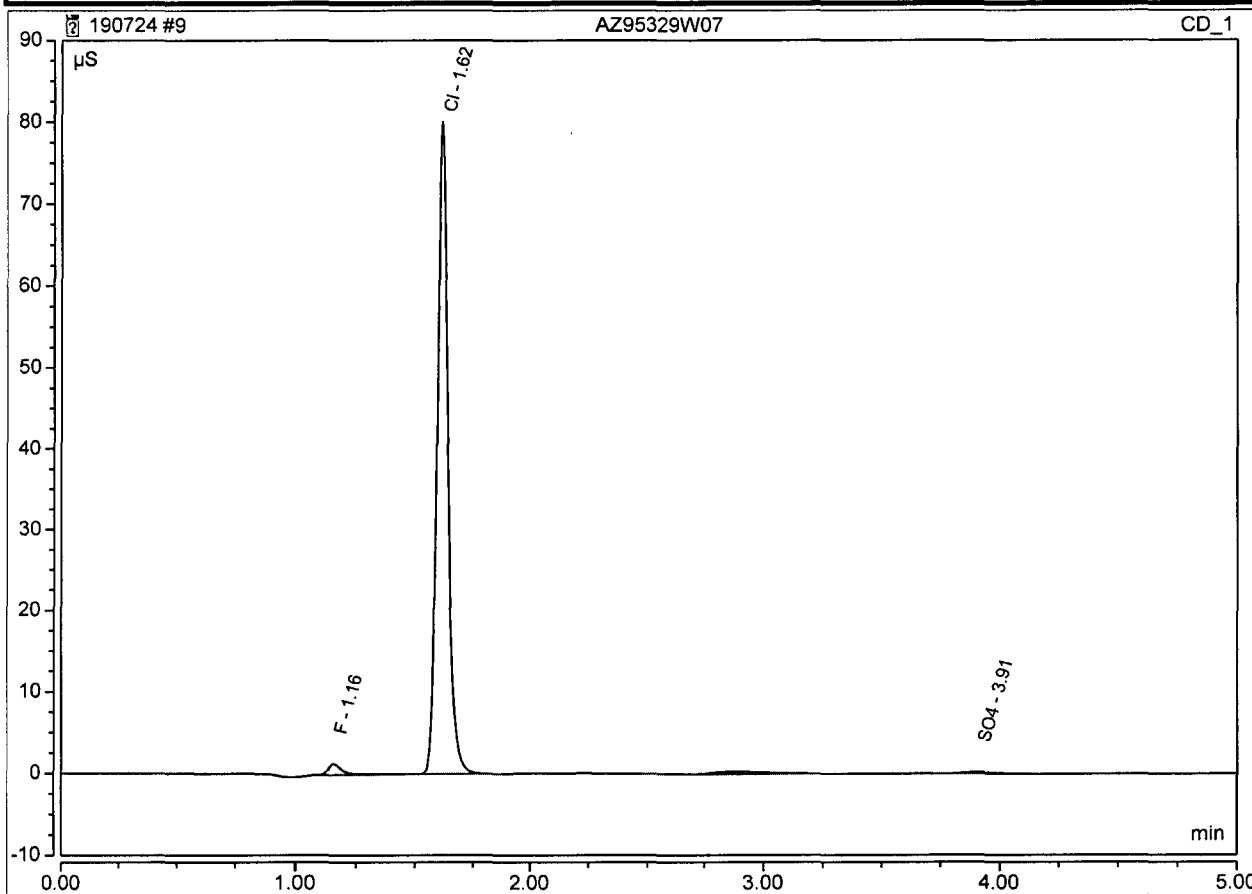


Logged on User: HH
 Instrument: Charlie System_1
 Sequence: 190724

Peak Integration Report

Sample Name:	AZ95329W07	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	24-Jul-2019 / 15:51	Run Time:	5.00

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.16	F	BMB	0.096	1.372	1.05		
2	1.62	Cl	BMB	4.352	80.162	43.62		
5	3.91	SO4	BMB	0.026	0.177	0.57		

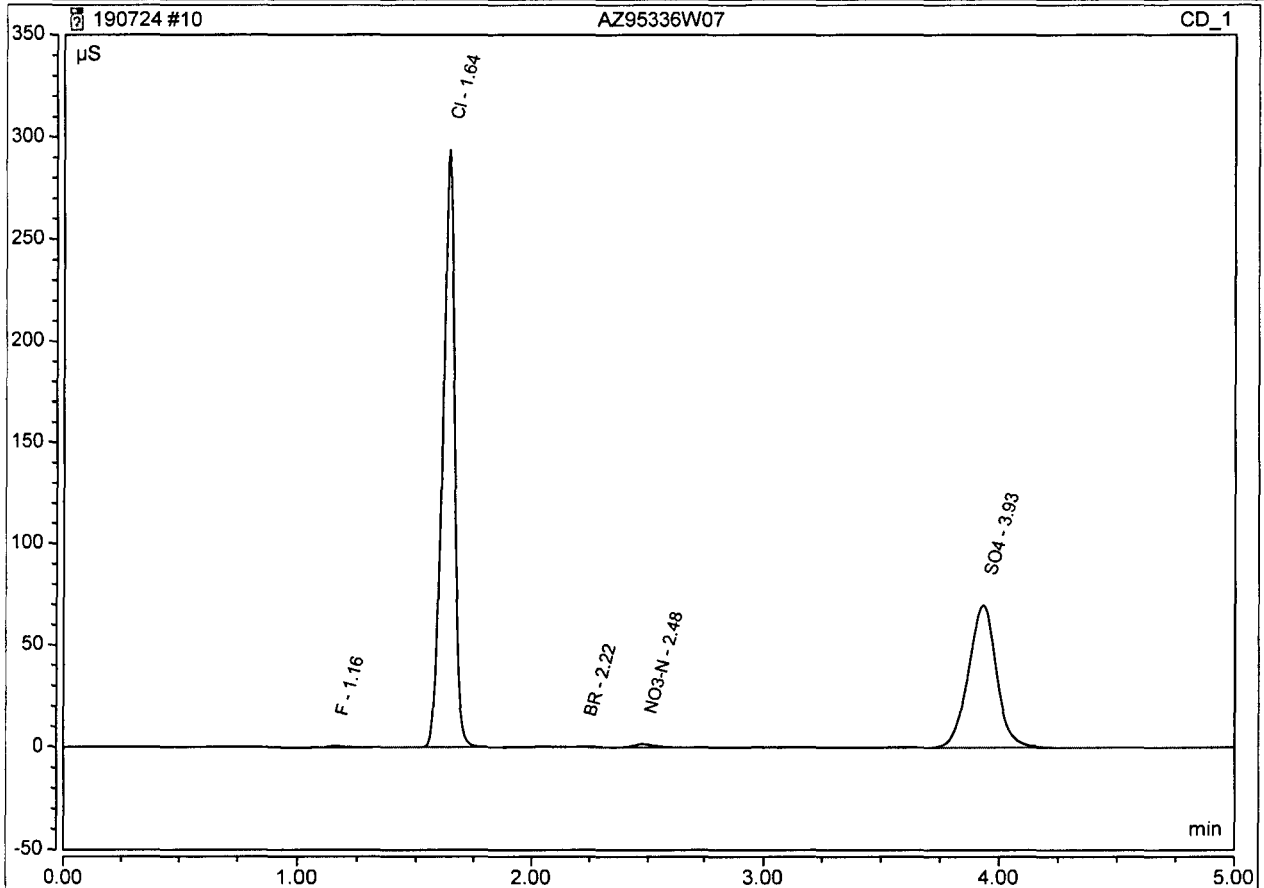


Logged on User: HH
 Instrument: Charlie System_1
 Sequence: 190724

Peak Integration Report

Sample Name:		AZ95336W07			Inj. Vol.:		25uL	
Injection Type:		Unknown			Dilution Factor:		1.00	
Program:		Anion APM 190621A			Operator:		chemist_wetlab	
Inj. Date / Time:		24-Jul-2019 / 15:59			Run Time:		5.00	

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.16	F	BMB	0.045	0.654	0.57		
2	1.64	Cl	BMB	17.566	293.846	175.31		
3	2.22	BR	BMB	0.014	0.195	0.46		
4	2.48	NO3-N	BMB	0.153	1.619	0.75		
5	3.93	SO4	BMB	9.666	69.758	149.83		

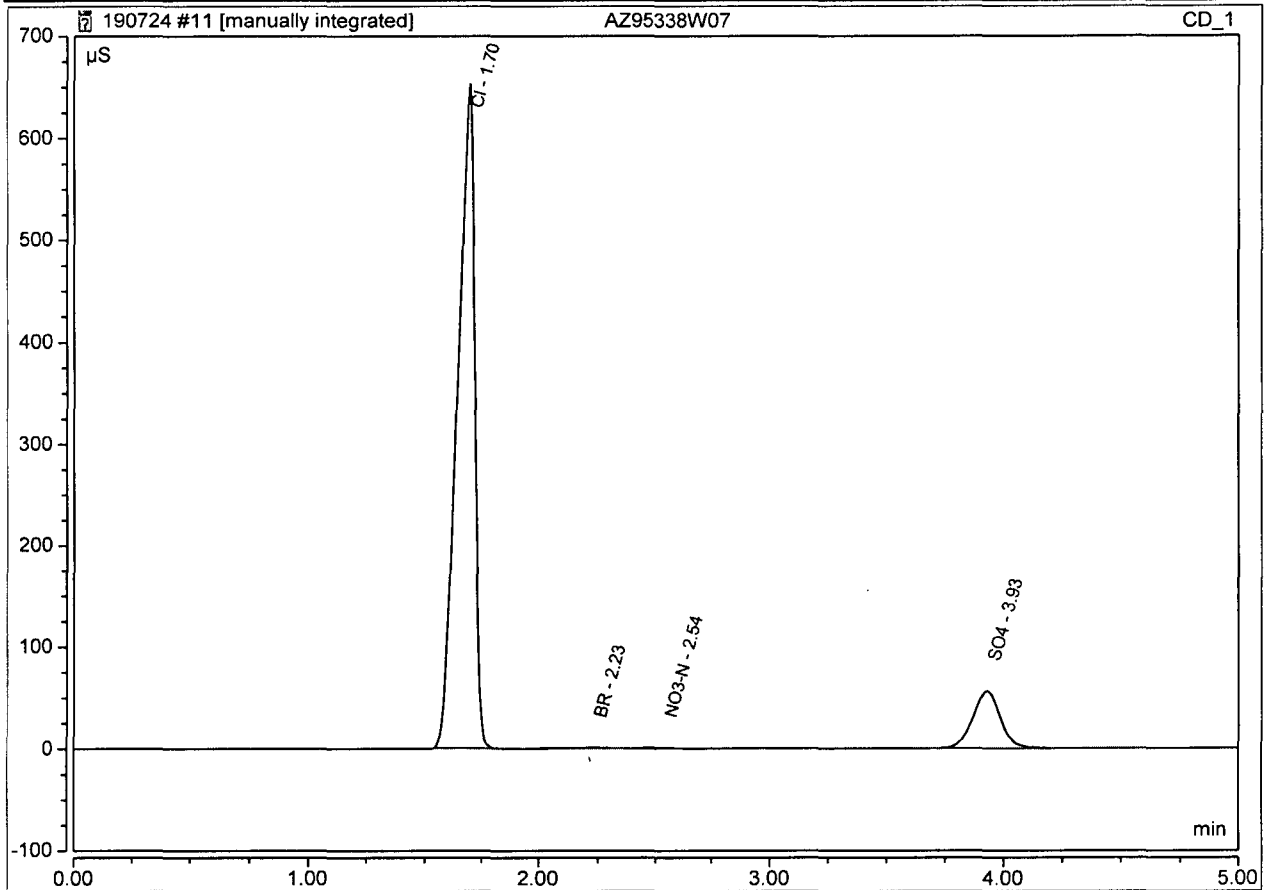


Logged on User: HH
 Instrument: Charlie System_1
 Sequence: 190724

Peak Integration Report

Sample Name:		AZ95338W07			Inj. Vol.:		25uL	
Injection Type:		Unknown			Dilution Factor:		1.00	
Program:		Anlon APM 190621A			Operator:		chemist_wetlab	
Inj. Date / Time:		24-Jul-2019 / 16:06			Run Time:		5.00	

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.70	Cl	BMB*	57.866	652.702	576.94		
3	2.23	BR	BMB	0.040	0.465	1.23		
4	2.54	NO3-N	BMB*	0.089	0.652	0.45		
5	3.93	SO4	BMB	7.677	55.908	119.04		

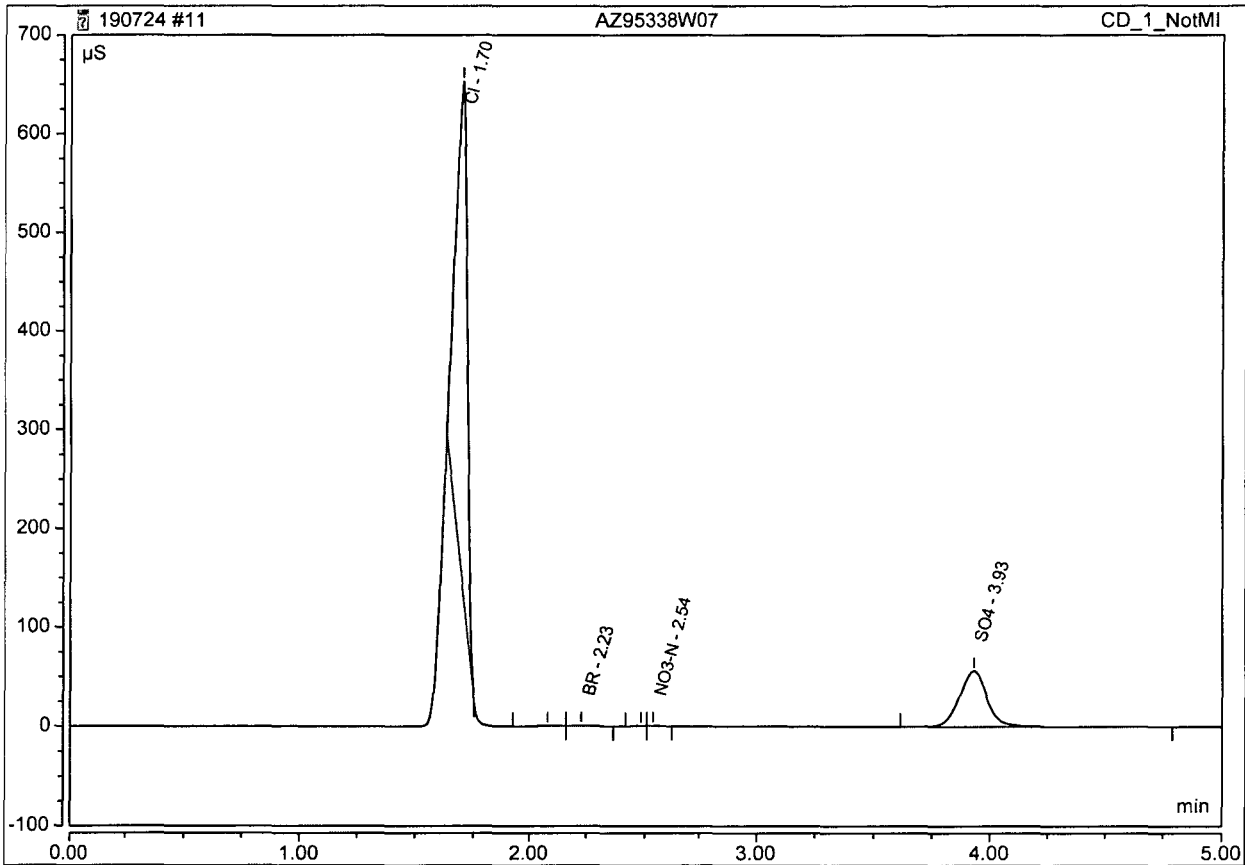


NO3 Mi1 HH 190724, LP 190724

Not Manipulated Peak Integration Report

Sample Name:	AZ95338W07	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.0000
Program:	Anion APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	24-Jul-2019 / 16:06	Run Time:	5.00

No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount mg/L
1	1.70	Cl	BMB*	29.875	515.020	297.9784
3	2.23	BR	BMB	0.040	0.465	1.2267
4	2.54	NO3-N	BMB*	0.013	0.193	0.0938
5	3.93	SO4	BMB	7.677	55.908	119.0351

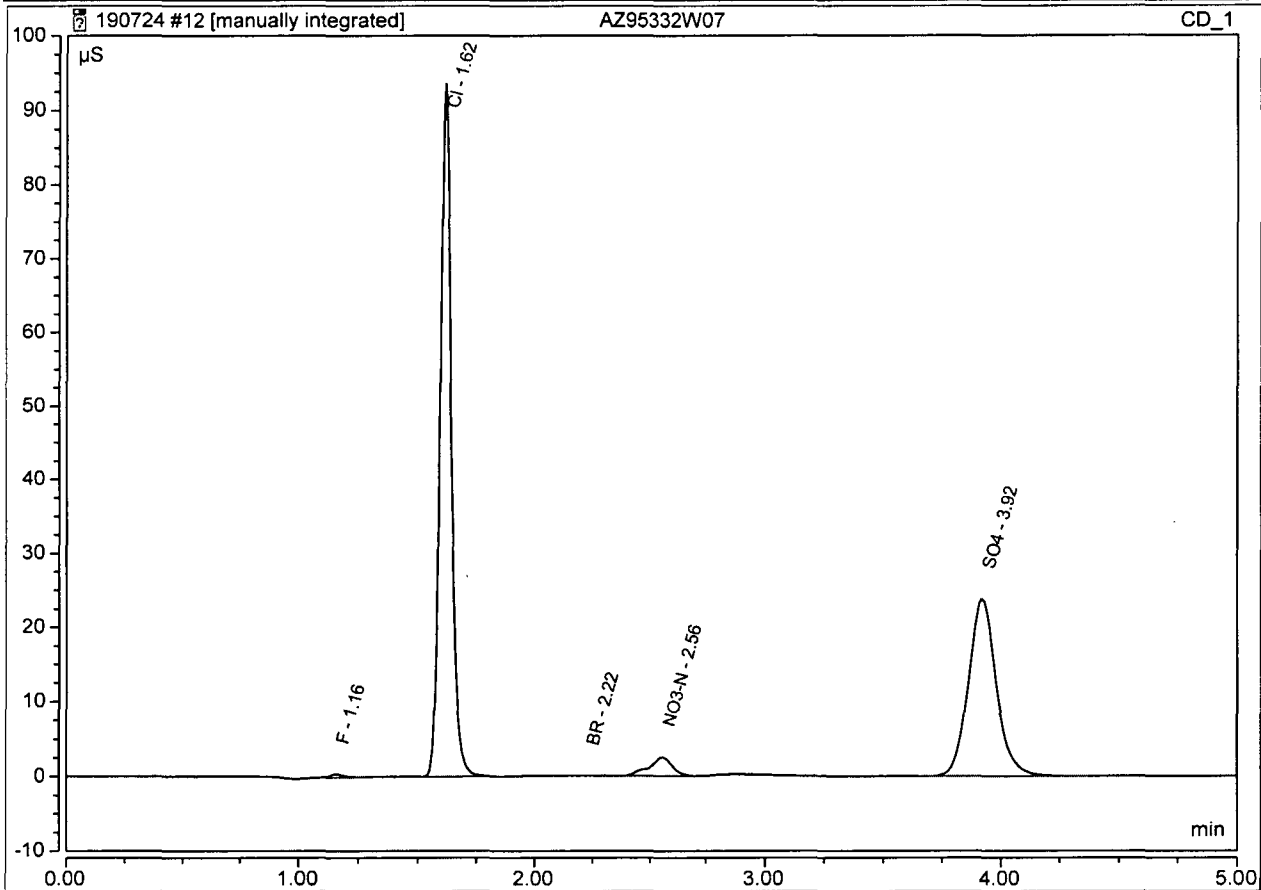


Logged on User: HH
 Instrument: Charlie System_1
 Sequence: 190724

Peak Integration Report

Sample Name:		AZ95332W07			Inj. Vol.:		25uL	
Injection Type:		Unknown			Dilution Factor:		1.00	
Program:		Anlon APM 190621A			Operator:		chemist_wetlab	
Inj. Date / Time:		24-Jul-2019 / 16:14			Run Time:		5.00	

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.16	F	BMB	0.024	0.423	0.37		
2	1.62	Cl	BMB	5.164	93.683	51.71		
3	2.22	BR	BMB*	0.006	0.049	0.22		
4	2.56	NO3-N	bMB*	0.297	2.519	1.42		
5	3.92	SO4	BMB	3.284	23.814	51.01		

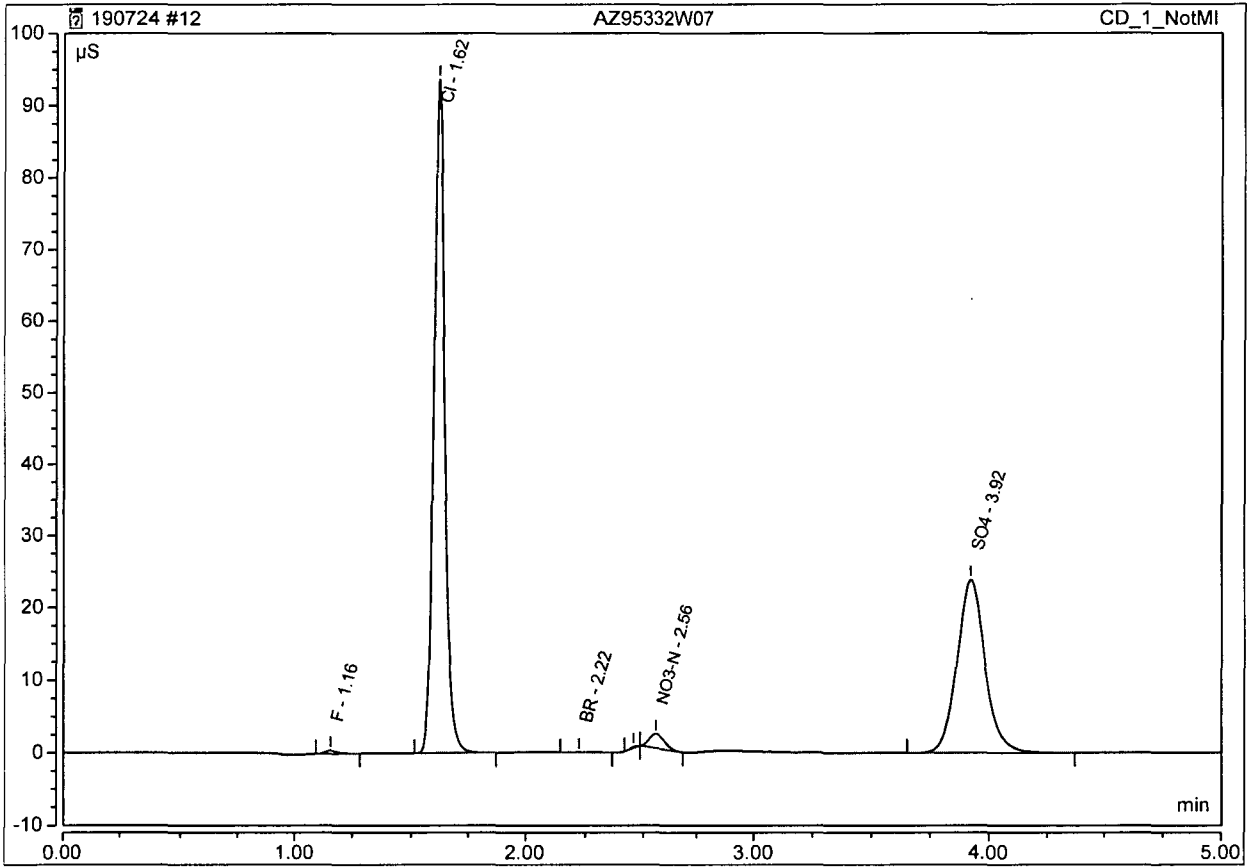


NO3 Mi1 HH 190724, LP 190724

Not Manipulated Peak Integration Report

Sample Name:	AZ95332W07	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.0000
Program:	Anion APM 190621A	Operator:	chemist_wetlab
Inj. Date / Time:	24-Jul-2019 / 16:14	Run Time:	5.00

No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount mg/L
1	1.16	F	BMB	0.024	0.423	0.0251
2	1.62	Cl	BMB	5.164	93.683	51.7128
3	2.22	BR	BMB*	0.006	0.049	0.2162
4	2.56	NO3-N	bMB*	0.163	1.948	0.7952
5	3.92	SO4	BMB	3.284	23.814	51.0135

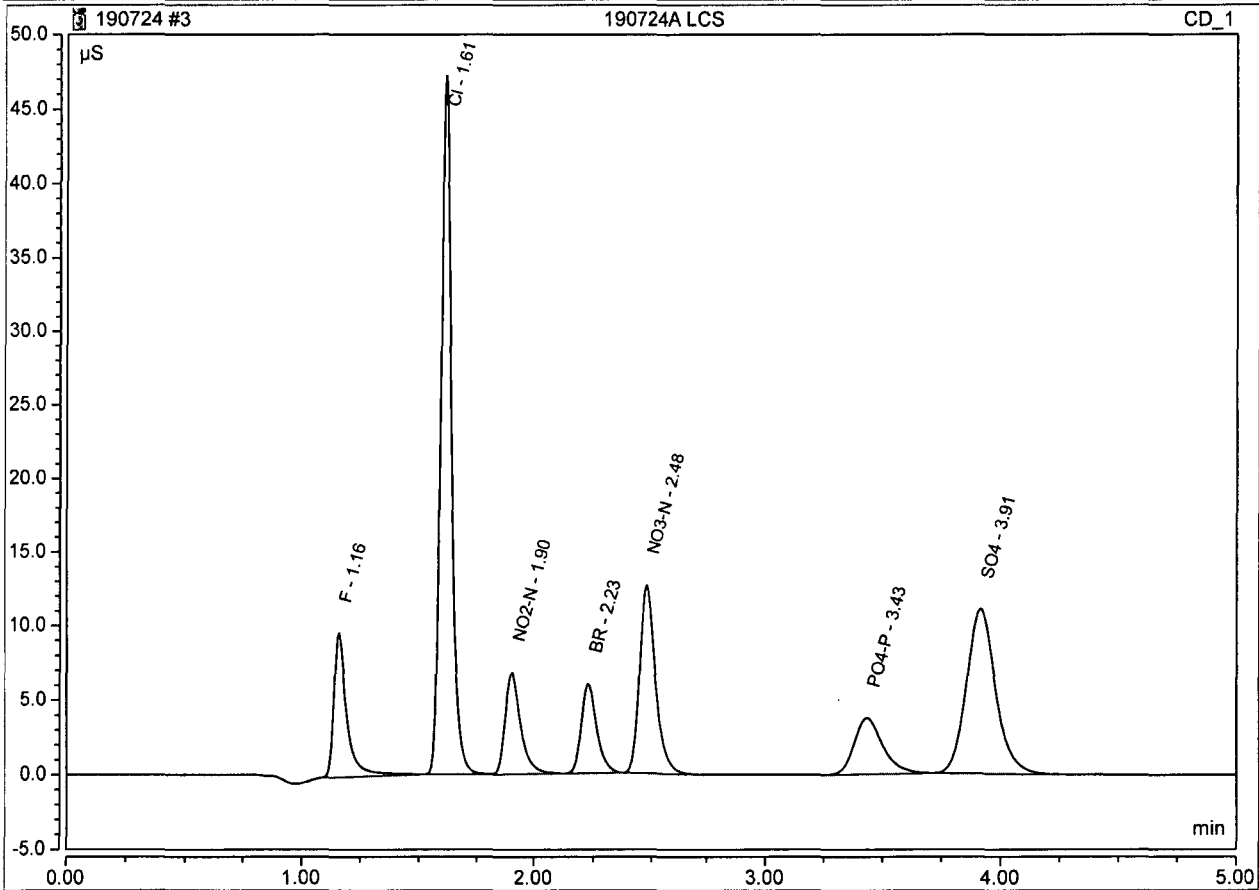


Logged on User: HH
 Instrument: Charlie System_1
 Sequence: 190724

Peak Integration Report

Sample Name:		190724A LCS			Inj. Vol.:		25uL	
Injection Type:		Check Standard			Dilution Factor:		1.00	
Program:		Anion APM 190621A			Operator:		chemist_wetlab	
Inj. Date / Time:		24-Jul-2019 / 09:16			Run Time:		5.00	

No.	Time (min)	Peak Name	Peak Type	Area (µS*min)	Height (µS)	Amount	Spike Level	Recovery
	min			µS*min	µS	mg/L	mg/L	
1	1.16	F	BMB	0.624	9.713	6.08	5	121.6%
2	1.61	Cl	BMB	2.484	47.249	25.01	25	100.0%
3	1.90	NO2-N	BMB	0.531	6.828	3.34	3.04	109.8%
4	2.23	BR	BMB	0.445	6.033	13.18	12.5	105.4%
5	2.48	NO3-N	BMB	1.056	12.659	4.98	5	99.6%
6	3.43	PO4-P	BMB	0.535	3.776	8.80	10	88.0%
7	3.91	SO4	BMB	1.580	11.058	24.63	25	98.5%



Algorithm Check

y = Peak Area

x = mg/L S04

$$y = 0.0646 \quad x + \quad -0.0105$$

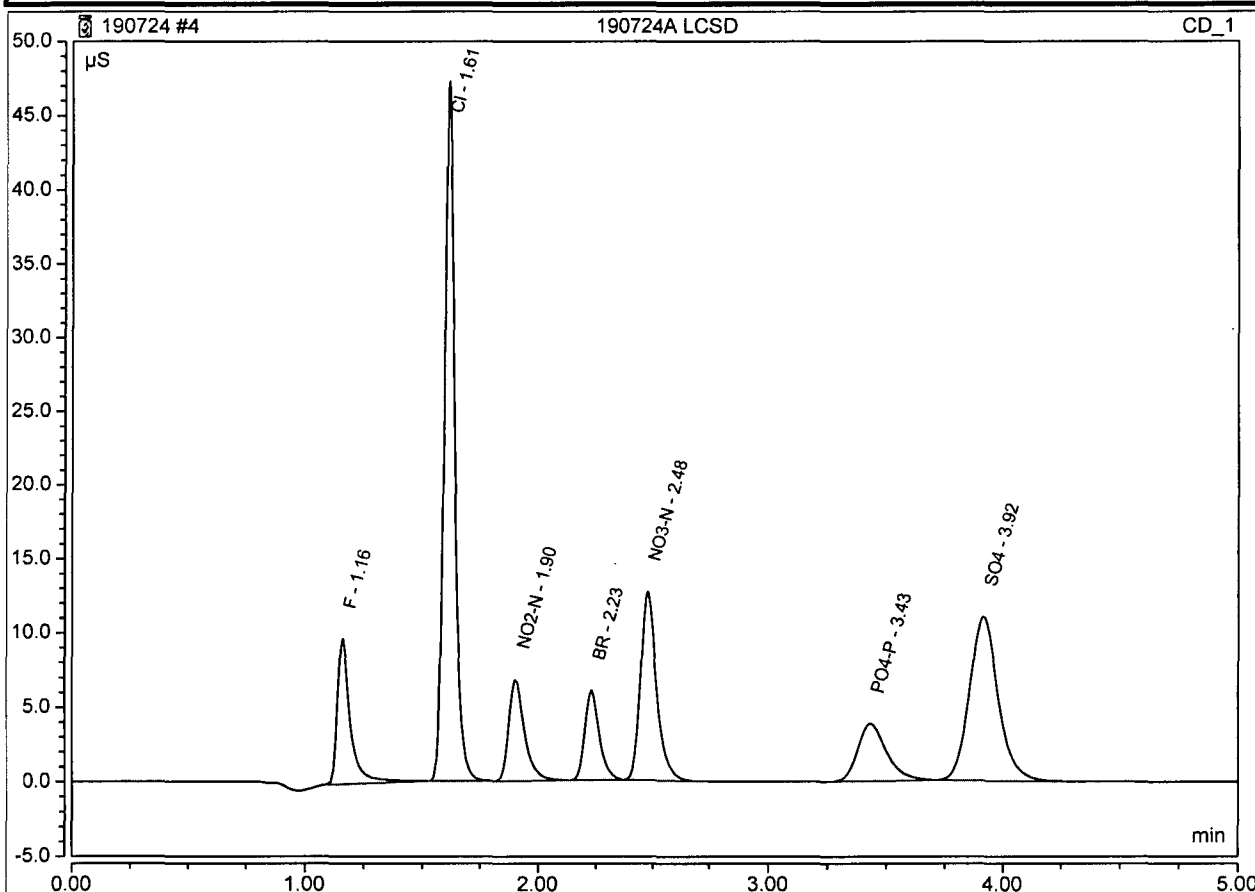
$$y = 1.5804 \quad \text{therefor } x = 24.62 \text{ HH } 190727$$

Logged on User: HH
 Instrument: Charlie System_1
 Sequence: 190724

Peak Integration Report

Sample Name:		190724A LCSD			Inj. Vol.:		25uL	
Injection Type:		Check Standard			Dilution Factor:		1.00	
Program:		Anion APM 190621A			Operator:		chemist_wetlab	
Inj. Date / Time:		24-Jul-2019 / 09:24			Run Time:		5.00	

No.	Time (min) min	Peak Name	Peak Type	Area (μS*min) μS*min	Height (μS) μS	Amount mg/L	Spike Level mg/L	Recovery
1	1.16	F	BMB	0.627	9.781	6.10	5	122.0%
2	1.61	Cl	BMB	2.481	47.305	24.98	25	99.9%
3	1.90	NO2-N	BMB	0.531	6.837	3.34	3.04	109.8%
4	2.23	BR	BMB	0.445	6.038	13.18	12.5	105.4%
5	2.48	NO3-N	BMB	1.056	12.685	4.98	5	99.6%
6	3.43	PO4-P	BMB	0.548	3.864	9.00	10	90.0%
7	3.92	SO4	BMB	1.582	11.056	24.65	25	98.6%



Anion Chromatography Working Standard									
Prep Date: 06/21/19					Prep'd By (Initials): TH				
Exp Date: 06/22/19									
Initial Standard Information					Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc (µg/mL)
Ion Chromatography Standard Fluoride 1000µg/mL in H2O	o2si	O2SI-062002-01-01	1000	687393-38-40744	10/30/20	312.5 µL	25 mL	Millipore Water	12.5
Ion Chromatography Standard Nitrite 1000 ug/mL in H2O	Inorganic Ventures	7632-00-0	1000 as NO2	N2-NOX672889-40759	05/01/20	411 µL	25 mL	Millipore Water	5 as NO2-N
Ion Chromatography Standard Chloride, 500mL 5,000 mg/L in H2O	o2si	062001-08-03	5000	10084781-1-39378	02/21/20	250 µL	25 mL	Millipore Water	50
Ortho-Phosphate as P Standard	Ultra Scientific	ICC-005A	1000	C34-CP-3323-39057	08/31/23	625 µL	25 mL	Millipore Water	25
Ion Chromatography Standard Nitrate as N, 500mL 1,000 mg/L in H2O	o2si	062003-01-03	1000	880117-4-39577	02/21/20	250 µL	25 mL	Millipore Water	10
Bromide Standard	Ultra Scientific	ICC-001	1000	CR-5372-39521	12/31/21	625 µL	25 mL	Millipore Water	25
Sulfate Standard	Agilent	ICC-006	1000	CS-0688-40047	03/31/22	1250 µL	25 mL	Millipore Water	50

Anion Chromatography Calibration Curve									
Prep Date: 06/21/19					Prep'd By (Initials): TH				
Exp Date: 06/22/19									
Initial Standard Information					Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. Range (ug/mL)	Reference To APPL Prep Date	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Conc. Range (µg/mL)
Ical2	Varries	ICal1	5.0-50.0	Prepared 06/21/19	06/22/19	400 µL	1000 µL	Millipore Water	0.08-0.40
Anion Chromatography Working Standard	Varries	ICal2	5.0-50.0	Prepared 06/21/19	06/22/19	20 µL	1000 µL	Millipore Water	0.1-1.0
Anion Chromatography Working Standard	Varries	ICal3	5.0-50.0	Prepared 06/21/19	06/22/19	50 µL	1000 µL	Millipore Water	0.25-2.5
Anion Chromatography Working Standard	Varries	ICal4	5.0-50.0	Prepared 06/21/19	06/22/19	100 µL	1000 µL	Millipore Water	0.5-5.0
Anion Chromatography Working Standard	Varries	ICal5	5.0-50.0	Prepared 06/21/19	06/22/19	200 µL	1000 µL	Millipore Water	1.0-10.0
Anion Chromatography Working Standard	Varries	ICal6	5.0-50.0	Prepared 06/21/19	06/22/19	500 µL	1000 µL	Millipore Water	2.5-25.0
Anion Chromatography Working Standard	Varries	ICal7	5.0-50.0	Prepared 06/21/19	06/22/19	700 µL	1000 µL	Millipore Water	3.5-35.0
Anion Chromatography Working Standard	Varries	ICal8	5.0-50.0	Prepared 06/21/19	06/22/19	1000 µL	1000 µL	Millipore Water	5.0-50.0

Anion Chromatography LCS/ICV									
Prep Date: See Injection Log					Prep'd By (Initials): TH				
Exp Date: 24 hours after prep									
Initial Standard Information					Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. Range (ug/mL)	Lot Number - QA Number	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc (µg/mL)
Fluoride	Inorganic Ventures	ICF1	993-999	K-F652018-39801	10/23/19	125 µL	25 mL	Millipore Water	5
Nitrite	Inorganic Ventures	ICNO21	993-1001	M2-NOX660562-39802	10/23/19	250 µL	25 mL	Millipore Water	3.04
Chloride	Inorganic Ventures	ICCL1	995-1001	N2CL664868-39904	11/26/19	500 µL	25 mL	Millipore Water	20
O-Phosphate as P	Inorganic Ventures	IPPO41	1001-1009	M2-POX655826-39803	10/23/19	125 µL	25 mL	Millipore Water	10
Nitrate as N	Inorganic Ventures	ICNNO31	994-1002	N2-NOX667147-39510	10/23/19	125 µL	25 mL	Millipore Water	5
Ion Chromatography Bromide Standard	CPI International	4400-IC8M	1000	161681-8-39539	02/06/20	312.5 µL	25 mL	Millipore Water	12.5
Sulfate	Inorganic Ventures	ICSO41	998-1006	K2-SOX01111-38875	08/13/19	500 µL	25 mL	Millipore Water	20

Anion Chromatography CCV									
Prep Date: See Injection Log					Prep'd By (Initials): TH				
Exp Date: 24 hours after prep									
Initial Standard Information					Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc (µg/mL)
Ion Chromatography Standard Fluoride 1000µg/mL in H2O	o2si	O2SI-062002-01-01	1000	687393-38-40744	10/30/20	125 µL	25 mL	Millipore Water	5
Ion Chromatography Standard Nitrite 1000 ug/mL in H2O	Inorganic Ventures	7632-00-0	1000	N2-NOX672889-40759	05/01/20	250 µL	25 mL	Millipore Water	3.04
Ion Chromatography Standard Chloride, 500mL 5,000 mg/L in H2O	o2si	062001-08-03	5000	10084781-1-39378	02/21/20	125 µL	25 mL	Millipore Water	25
Ortho-Phosphate as P Standard	Ultra Scientific	ICC-005A	1000	C34-CP-3323-39057	08/31/23	250 µL	25 mL	Millipore Water	10
Ion Chromatography Standard Nitrate as N, 500mL 1,000 mg/L in H2O	o2si	062003-01-03	1000	880117-4-39577	02/21/20	125 µL	25 mL	Millipore Water	5
Bromide Standard	Ultra Scientific	ICC-001	1000	CR-5372-39521	12/31/21	312.5 µL	25 mL	Millipore Water	12.5
Sulfate Standard	Agilent	ICC-006	1000	CS-0688-40047	03/31/22	625 µL	25 mL	Millipore Water	25

EPA 300.0 Injection Log

Directory: I:\Dionex\Charlie\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
7	21 Jun 2019	12:25	ICAL 1		Anions	1.
8	21 Jun 2019	12:32	ICAL 2		Anions	1.
9	21 Jun 2019	12:40	ICAL 3		Anions	1.
10	21 Jun 2019	12:47	ICAL 4		Anions	1.
11	21 Jun 2019	12:54	ICAL 5		Anions	1.
12	21 Jun 2019	13:02	ICAL 6		Anions	1.
13	21 Jun 2019	13:09	ICAL 7		Anions	1.
14	21 Jun 2019	13:17	ICAL 8		Anions	1.
15	21 Jun 2019	13:24	190621 ICV		Anions	1.
16	21 Jun 2019	13:31	190621 ICVD		Anions	1.
17	21 Jun 2019	13:46	190621 ICB		Anions	1.

Method 300 and 9056 Injection Log

No.	Position	Injection Description	Inject Time	Type	Comment
1	R2	CCV 190724	24/Jul/2019 09:01	Check Standard	
2	R1	CCB 190724	24/Jul/2019 09:09	Unknown	
3	R3	190724A LCS	24/Jul/2019 09:16	Check Standard	
4	R3	190724A LCSD	24/Jul/2019 09:24	Check Standard	
5	GA1	AZ95211W01	24/Jul/2019 13:36	Unknown	
6	R2	CCV 190724	24/Jul/2019 13:43	Check Standard	
7	R1	CCB 190724	24/Jul/2019 13:51	Unknown	
8	GB1	AZ95334W07	24/Jul/2019 15:43	Unknown	
9	GB2	AZ95329W07	24/Jul/2019 15:51	Unknown	
10	GB3	AZ95336W07	24/Jul/2019 15:59	Unknown	
11	GB4	AZ95338W07	24/Jul/2019 16:06	Unknown	
12	GB5	AZ95332W07	24/Jul/2019 16:14	Unknown	
13	RA7	AZ95192W04	24/Jul/2019 16:22	Unknown	
14	RA8	AZ95193W04	24/Jul/2019 16:29	Unknown	
15	RB1	AZ95194W10	24/Jul/2019 16:36	Unknown	
16	RC1	AZ95334W07 df5	24/Jul/2019 16:55	Unknown	
17	RC1	AZ95334W07 df5	24/Jul/2019 17:03	Unknown	RI b/c sus carryover
18	RC2	AZ95336W07 df5	24/Jul/2019 17:10	Unknown	
19	RC3	AZ95338W07 df20	24/Jul/2019 17:17	Unknown	
20	RC4	AZ95192W04 df5	24/Jul/2019 17:25	Unknown	
21	RC5	AZ95193W04 df5	24/Jul/2019 17:32	Unknown	
22	RC6	AZ95194W10 df5	24/Jul/2019 17:39	Unknown	
23	RC7	AZ95194W10 df5 MS	24/Jul/2019 17:47	Unknown	
24	RC7	AZ95194W10 df5 MSD	24/Jul/2019 17:54	Unknown	
25	RC8	AZ95189W11 MS	24/Jul/2019 18:02	Unknown	
26	RC8	AZ95189W11 MSD	24/Jul/2019 18:09	Unknown	
27	RD1	AZ95189W11 MS df10	24/Jul/2019 18:16	Unknown	
28	RD1	AZ95189W11 MSD df10	24/Jul/2019 18:24	Unknown	
29	R2	CCV 190724	24/Jul/2019 18:31	Check Standard	
30	R1	CCB 190724	24/Jul/2019 18:39	Unknown	
31	RA1	AZ94937W07 df5	24/Jul/2019 18:46	Unknown	
32	RA2	AZ94987W01 df20	24/Jul/2019 18:53	Unknown	
33	RA3	AZ94988W01 df50	24/Jul/2019 19:01	Unknown	
34	RA4	AZ94989W01 df20	24/Jul/2019 19:08	Unknown	
35	RA5	AZ94997W10 df10	24/Jul/2019 19:16	Unknown	
36	RA6	AZ94998W10 df5	24/Jul/2019 19:23	Unknown	
37	R2	CCV 190724	24/Jul/2019 19:30	Check Standard	
38	R1	CCB 190724	24/Jul/2019 19:38	Unknown	
39	R1	stop	24/Jul/2019 19:43	Unknown	

INORGANIC ANALYSIS
Calibration Data

A.P.P.L. INC.
2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: AECOM

ARF No: 89593 SDG: 89593

Initial Calibration Source: Inorganic Ventures

Continuing Calibration Source: o2si

Analysis Date: 07/31/19

Analyte	Calibration Verification									M
	True ICV	Found 17:21	%R(1)	True CCV1	Found 18:20	%R(1)	True CCV1	Found 18:47	%R(1)	
TOXN	3	2.8764	95.9	3	2.7636	92.1	3	2.7201	90.7	

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: AECOM

ARF No: 89593 SDG: 89593

Initial Calibration Source: Inorganic Ventures

Continuing Calibration Source: o2si

Analysis Date: 07/31/19

Analyte	Calibration Verification									M
	True CCV1	Found 19:02	%R(1)	True	Found	%R(1)	True	Found	%R(1)	
TOXN	3	2.8221	94.1							

Name of Final Standard TOC Calibration Curve
Prep Date 06/11/19
Exp Date 07/09/19

Prep'd By (Initials) AR

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	20 uL	40 mL	DI Water	0.5 ppm
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	50 uL	40 mL	DI Water	1.25 ppm
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	100 uL	40 mL	DI Water	2.5 ppm
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	150 uL	40 mL	DI Water	3.75 ppm
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	200 uL	40 mL	DI Water	5 ppm

A.P.P.L. INC.

3

BLANKS

Lab Name: A.P.P.L. INC.

Contract: AECOM

ARF No.: 89593

SDG: 89593

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): mg/L

Analyte	Calibration Blanks										M
	ICB 07/31/19 17:22	C	CCB 07/31/19 18:22	C	CCB 07/31/19 18:50	C	CCB 07/31/19 19:03	C		C	
TOXN	.100	U	.100	U	.100	U	.100	U			

Name of Final Standard CCV (TOC)
 Prep Date 07/31/19
 Exp Date 08/28/19

Prep'd By (Initials) AR

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	100 uL	40 mL	DI Water	2.5 ppm

Name of Final Standard TOC LCS/LCSD
 Prep Date 07/31/19
 Exp Date 08/28/19

Prep'd By (Initials) AR

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	ULTRA Scientific	IQC-106-5	1000 mg/L	CR-0328-37639	*02/28/2019	100 uL	40 mL	DI Water	2.5 ppm

Name of Final Standard TOC MS/MSD
 Prep Date 07/31/19
 Exp Date 08/28/19

Prep'd By (Initials) AR

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	ULTRA Scientific	IQC-106-5	1000 mg/L	CR-0328-37639	*02/28/2019	100 uL	40 mL	sample	2.5 ppm

*APPL re-certified TOC Lot CR-0328-37639 and extended the expiration date for 6 months to 8/28/19 per verification with a second source Lot CR-5157-40233 injected on 2/28/19

INORGANIC ANALYSIS
Raw Data

AQ2 Tray Report



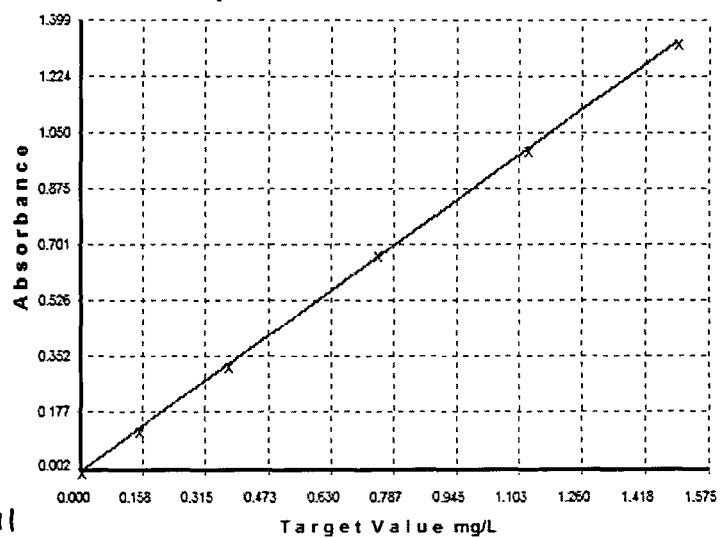
Serial Number: 190170
Software Version: 2.1.0
Report Requested By: Eve V
Date & Time: 2019-08-01 17:05:18
Tray Number: 8
Tray Name: 190731A NO2 NO3 TOXN CCV ICV

Nitrite-N

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0025	0.0009	0.0000	
S90	0.1338	0.1485	0.1500	-0.99
S91	0.3299	0.3689	0.3750	-1.62
S92	0.6766	0.7585	0.7500	1.14
S93	1.0051	1.1277	1.1250	0.24
S94	1.3322	1.4953	1.5000	-0.31
S0	0.0143	0.0142	0.0000	

Calibration Graph



Polynomial Order: 1
 Correlation Coefficient: 1.0000
 Carryover(%): 0.9
 Calibration equation: $y = bx + a$
 y =: Concentration mg/L
 x =: Measured absorbance
 a =: -1.819091E-003
 b =: 1.123808E+000
 Date & Time: 2019-07-31 16:43:28

$y = 1.123808(0.648105) - 0.001819091$
 $= 0.726526$ ✓ *Raw 190823*

Reagents

Name	Batch	Prepared By	Expiry Date
Sulfa-NEDD		Joel	
NO2 Buffer		Joel	

Test Results

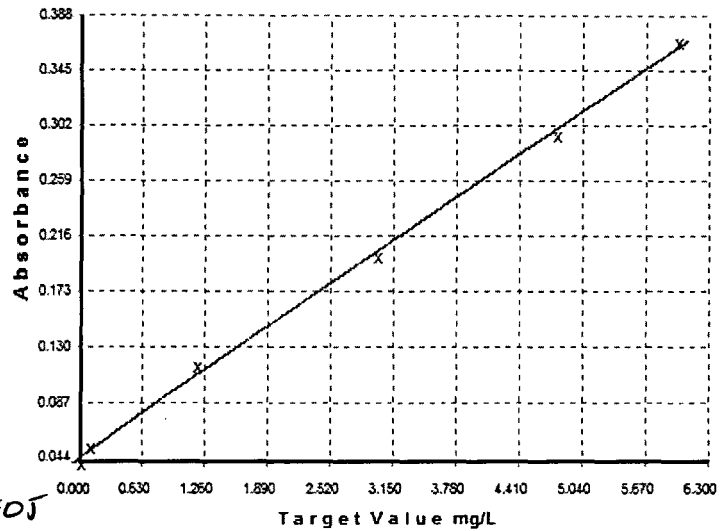
Cup Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
S1	Standard 1	0.0025			0.002451			Ev	2019-07-31 16:36:42
S90	Standard 90	0.1338			0.133773			Ev	2019-07-31 16:37:55
S91	Standard 91	0.3299			0.329910			Ev	2019-07-31 16:39:09
S92	Standard 92	0.6766			0.676576			Ev	2019-07-31 16:40:22
S93	Standard 93	1.0051			1.005118			Ev	2019-07-31 16:41:35
S94	Standard 94	1.3322			1.332225			Ev	2019-07-31 16:42:50
S0	Standard 0	0.0143			0.014288			Ev	2019-07-31 16:43:28
CCV	CCV .75	0.7265 ✓	mg/L		0.648105			Ev	2019-07-31 16:45:37
CCB	CCB	0.0081	mg/L		0.008815			Ev	2019-07-31 16:47:51
3	U1	ICV NO2	mg/L		0.647726			Ev	2019-07-31 16:50:08
5	U3	ICB NO2 NO3 TOXN	mg/L		0.007844			Ev	2019-07-31 16:52:26
6	U4	1ppm NO2	mg/L		0.873402			Ev	2019-07-31 16:54:44
CCV	CCV .75	0.7276	mg/L		0.649054			Ev	2019-07-31 16:57:01
CCB	CCB	0.0065	mg/L		0.007367			Ev	2019-07-31 16:59:13

TOXN

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0441	-0.0939	0.0000	
S90	0.0573	0.1572	0.1000	57.21
S91	0.1183	1.3178	1.2000	9.81
S92	0.2030	2.9275	3.0000	-2.42
S93	0.2962	4.6982	4.8000	-2.12
S94	0.3695	6.0932	6.0000	1.55
S0	0.0455	-0.0672	0.0000	

Calibration Graph



Polynomial Order: 1
 Correlation Coefficient: 0.9992
 Carryover(%): 0.4
 Calibration equation: $y = bx + a$
 y =: Concentration mg/L
 x =: Measured absorbance
 a =: -9.320405E-001
 b =: 1.901030E+001
 Date & Time: 2019-07-31 17:18:49

$y = 19.01030(0.200333) - 0.9320405$
 $= 2.87635$ ✓

Reagents

Name	Batch	Prepared By	Expiry Date
NO3 W Buffer		Joel	
Sulfa-NEDD		Joel	

Test Results

Cup	Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
S1		Standard 1	0.0441			0.044090			Ev	2019-07-31 17:08:05
S90		Standard 90	0.0573			0.057298			Ev	2019-07-31 17:10:22
S91		Standard 91	0.1183			0.118347			Ev	2019-07-31 17:12:36
S92		Standard 92	0.2030			0.203024			Ev	2019-07-31 17:14:48
S93		Standard 93	0.2962			0.296168			Ev	2019-07-31 17:17:05
S94		Standard 94	0.3695			0.369548			Ev	2019-07-31 17:17:44
S0		Standard 0	0.0455			0.045492			Ev	2019-07-31 17:18:49
CCV		CCV	2.8695	mg/L		0.199973			Ev	2019-07-31 17:19:45
CCB		CCB	-0.0894	mg/L		0.044326			Ev	2019-07-31 17:20:41
4	U2	ICV NO3 TOXN	2.8764	mg/L		0.200333			Ev	2019-07-31 17:21:38
5	U3	ICB NO2 NO3 TOXN	-0.0417	mg/L		0.046836			Ev	2019-07-31 17:22:34
7	U5	1ppm NO3 TOXN	0.8475	mg/L		0.093608			Ev	2019-07-31 17:23:30
	CCV	CCV	2.7822	mg/L		0.195380			Ev	2019-07-31 17:24:27
	CCB	CCB	-0.1103	mg/L		0.043226			Ev	2019-07-31 17:25:23

Nitrate-N

Test Results

Cup	Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
5	U3	ICB NO2 NO3 TOXN	-0.0487	mg/L		0.000000			Ev	2019-07-31 17:22:34
5	U3	ICB NO2 NO3 TOXN				0.000000			Ev	2019-07-31 17:22:34

AQ2 Tray Report



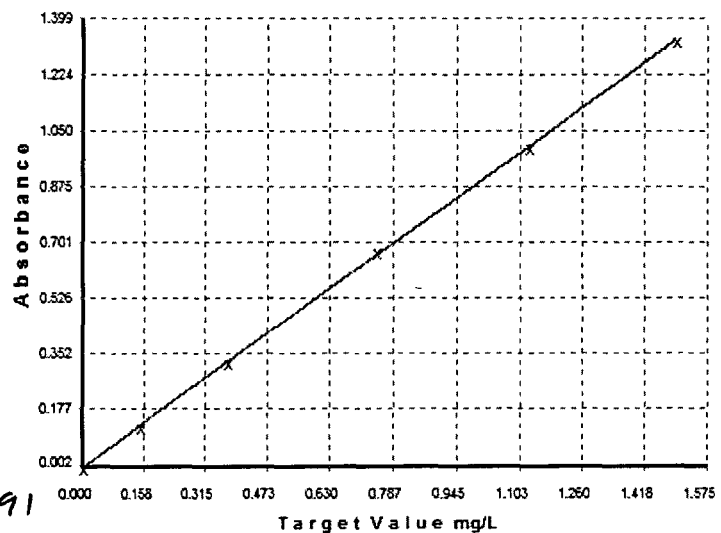
Serial Number: 190170
Software Version: 2.1.0
Report Requested By: Eve V
Date & Time: 2019-08-01 17:07:31
Tray Number: 1
Tray Name: 190731B NO2 NO3 TOXN

Nitrite-N

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0025	0.0009	0.0000	
S90	0.1338	0.1485	0.1500	-0.99
S91	0.3299	0.3689	0.3750	-1.62
S92	0.6766	0.7585	0.7500	1.14
S93	1.0051	1.1277	1.1250	0.24
S94	1.3322	1.4953	1.5000	-0.31
S0	0.0143	0.0142	0.0000	

Calibration Graph



Polynomial Order: 1
 Correlation Coefficient: 1.0000
 Carryover(%): 0.9
 Calibration equation: $y = bx + a$
 y = Concentration mg/L
 x = Measured absorbance
 a = -1.819091E-003
 b = 1.123808E+000
 Date & Time: 2019-07-31 16:43:28

$y = 1.123808(0.656594) - 0.001819091$
 $= 0.736066$ ✓

BW 8/23/19

Reagents

Name	Batch	Prepared By	Expiry Date
Sulfa-NEDD NO2 Buffer		Joel Joel	

Test Results

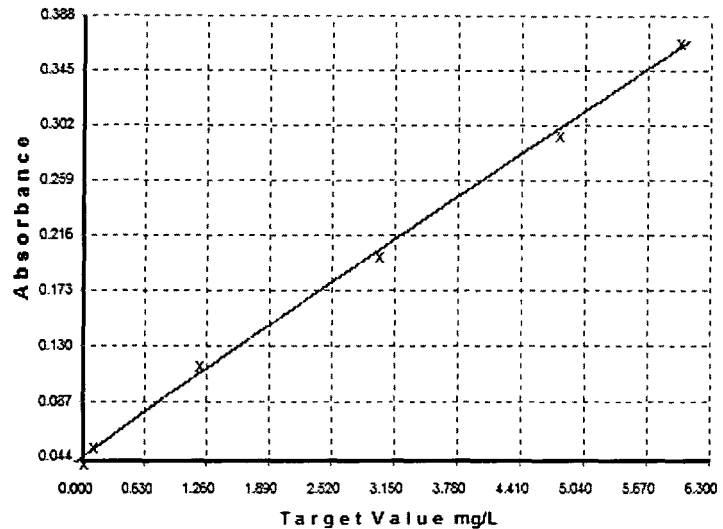
Cup Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
CCV	CCV .75	0.7361	mg/L		0.656594			Ev	2019-07-31 17:59:53
CCB	CCB	0.0072	mg/L		0.007989			Ev	2019-07-31 18:02:10
3 U1	190730A BLK NO2 NO3 TOXN	0.0311	mg/L		0.004385		x10.0000	Ev	2019-07-31 18:04:27
4 U2	190730B BLK NO2 NO3 TOXN	0.0338	mg/L		0.004629		x10.0000	Ev	2019-07-31 18:06:42
CCV	CCV .75	0.7129	mg/L		0.635951			Ev	2019-07-31 18:08:59
CCB	CCB	0.0062	mg/L		0.007165			Ev	2019-07-31 18:11:16

TOXN

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0441	-0.0939	0.0000	
S90	0.0573	0.1572	0.1000	57.21
S91	0.1183	1.3178	1.2000	9.81
S92	0.2030	2.9275	3.0000	-2.42
S93	0.2962	4.6982	4.8000	-2.12
S94	0.3695	6.0932	6.0000	1.55
S0	0.0455	-0.0672	0.0000	

Calibration Graph



Polynomial Order: 1
 Correlation Coefficient: 0.9992
 Carryover(%): 0.4
 Calibration equation: $y = bx + a$
 y =: Concentration mg/L
 x =: Measured absorbance
 a =: -9.320405E-001
 b =: 1.901030E+001
 Date & Time: 2019-07-31 17:18:49

$y = 19.01030(0.194245) - 0.932405$
 $= 2.76062$ ✓ *FW 19/8/23*

Reagents

Name	Batch	Prepared By	Expiry Date
NO3 W Buffer		Joel	
Sulfa-NEDD		Joel	

Test Results

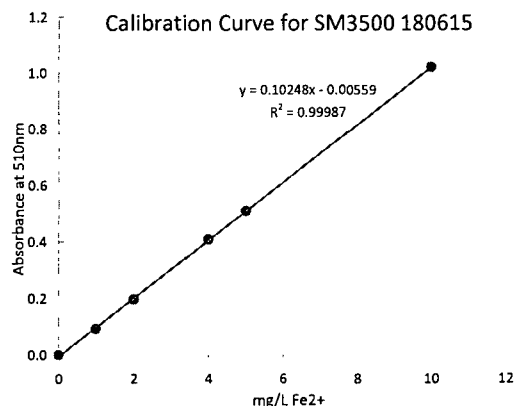
Cup Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
CCV	CCV	2.7636	mg/L		0.194400			Ev	2019-07-31 18:20:17
CCB	CCB	-0.1627	mg/L		0.040471			Ev	2019-07-31 18:22:33
3 U1	190730A BLK NO2 NO3 TOXN	-0.7801	mg/L		0.044925		x10.0000	Ev	2019-07-31 18:24:50
4 U2	190730B BLK NO2 NO3 TOXN	-0.6182	mg/L		0.045776		x10.0000	Ev	2019-07-31 18:27:07
5 U3	190731A BLK	-0.0124	mg/L		0.048374			Ev	2019-07-31 18:29:25
6 U4	190731A LCS TOXN	2.7606 ✓	mg/L		0.194245			Ev	2019-07-31 18:31:42
7 U5	190731A LCSD TOXN	2.9137	mg/L		0.202299			Ev	2019-07-31 18:34:00
8 U6	AZ95187W07	0.8895	mg/L		0.095817			Ev	2019-07-31 18:36:18
9 U7	AZ95189W13	0.4942	mg/L		0.075023			Ev	2019-07-31 18:38:36
10 U8	AZ95189W13 MS	3.7402	mg/L		0.245775			Ev	2019-07-31 18:40:54
11 U9	AZ95189W13 MSD	3.8658	mg/L		0.252383			Ev	2019-07-31 18:43:13
12 U10	AZ95329W08	-0.0852	mg/L		0.044546			Ev	2019-07-31 18:45:31
	CCV	2.7201	mg/L		0.192116			Ev	2019-07-31 18:47:50
	CCB	0.0118	mg/L		0.049647			Ev	2019-07-31 18:50:09
13 U11	AZ95332W08	1.4891	mg/L		0.127362			Ev	2019-07-31 18:52:27
14 U12	AZ95334W08	0.4455	mg/L		0.072463			Ev	2019-07-31 18:54:46
15 U13	AZ95336W08	0.6697	mg/L		0.084259			Ev	2019-07-31 18:55:26
16 U14	AZ95338W08	0.4720	mg/L		0.073859			Ev	2019-07-31 18:56:31
17 U15	AZ95419W06	-0.1261 ELL	mg/L		0.042394			Ev	2019-07-31 18:57:27
18 U16	AZ95421W06	0.3254	mg/L		0.066145			Ev	2019-07-31 18:58:23
19 U17	AZ95423W06	1.6689	mg/L		0.136820			Ev	2019-07-31 18:59:19
20 U18	AZ95511W08	0.3905	mg/L		0.069567			Ev	2019-07-31 19:00:16
21 U19	AZ95513W08	0.1628	mg/L		0.057590			Ev	2019-07-31 19:01:12
	CCV	2.8221	mg/L		0.197480			Ev	2019-07-31 19:02:08
	CCB	-0.1225	mg/L		0.042582			Ev	2019-07-31 19:03:05

Nitrate-N**Test Results**

Cup Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
3	U1	190730A BLK NO2 NO3 TOXN	-0.8112	mg/L	0.000000		x10.0000	Ev	2019-07-31 18:24:50
3	U1	190730A BLK NO2 NO3 TOXN			0.000000		x10.0000	Ev	2019-07-31 18:24:50
4	U2	190730B BLK NO2 NO3 TOXN	-0.6520	mg/L	0.000000		x10.0000	Ev	2019-07-31 18:27:07
4	U2	190730B BLK NO2 NO3 TOXN			0.000000		x10.0000	Ev	2019-07-31 18:27:07

Method SM3500Fe	Ferrous Iron		Rev 2, 04-05-19
Analyte Fe2+	Units mg/L	QCG: 190724B	Instrument: Genesis Spectrometer
Analyst BW	Final Volume: 50mL		Wavelength: 510 nm
			Units: mg/L

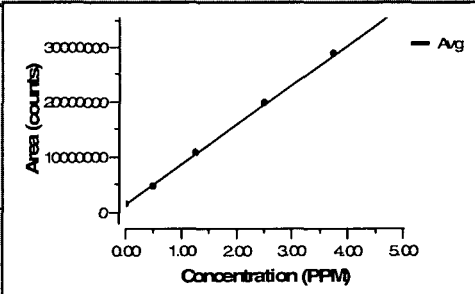
Date	Time	Appl ID	[Fe2+]	Absorbance	% Recovery
06/28/19	12:48	ICB	0.00	0.000	
06/28/19	12:49	Ical 1	1.00	0.092	95.2%
06/28/19	12:50	Ical 2	2.00	0.195	97.9%
06/28/19	12:51	Ical 3	4.00	0.408	100.9%
06/28/19	12:51	Ical 4	5.00	0.507	100.0%
06/28/19	12:52	Ical 5	10.00	1.019	100.0%
06/28/19	13:08	ICV	3.00	0.326	107.9%
06/28/19	12:53	ICB	0.00	0.002	



Slope	0.102479592	Algorithm Check:	Appl ID	Absorbance	Result	
Intercept	-0.005591837		190724B	LCS	0.313	3.11
Coefficient of Determination	0.999872044		Result = (Absorbance-Raw Blk-Intercept)/ Slope			
			Test:	190724	BW	3.11

Date	Time	Appl ID	DF	Raw Result	SubSample Amount	Raw BLK	Calc Conc	Result	QC True	% Recovery
07/24/19	16:26	CCV 4.0 190724	1	0.414	25mL		4.09	4.09	4.00	102.4%
07/24/19	16:27	CCB 190724	1	0.002	25mL		0.07	0.07		
07/24/19	16:28	190724B LCS	1	0.313	25mL		3.11	3.11	3.00	103.6%
07/24/19	16:29	190724B LCSD	1	0.305	25mL		3.03	3.03	3.00	101.0%
07/24/19	16:30	AZ95329W09	1	0.255	25mL		2.54	2.54		
07/24/19	16:31	AZ95332W09	1	0.006	25mL		0.11	0.11		
07/24/19	16:32	AZ95334W09	1	0.012	25mL		0.17	0.17		
07/24/19	16:33	AZ95336W09	1	0.005	25mL		0.10	0.10		
07/24/19	16:33	AZ95338W09	1	0.006	25mL		0.11	0.11		
07/24/19	16:34	AZ95329W09 MS	1	0.551	25mL		5.43	5.43		
07/24/19	16:35	AZ95329W09 MSD	1	0.559	25mL		5.51	5.51		
07/24/19	16:36	CCV 4.0 190724	1	0.410	25mL		4.06	4.06	4.00	101.4%
07/24/19	16:37	CCB 190724	1	0.001	25mL		0.06	0.06		

TOTAL ORGANIC CARBON					
Method: WetChem		Units mg/L		Instrument: Tic Toc	
Analyte: TOC		QCG: 190801B			
Analyst: AR		Final Volume: 40mL			
Date	Time	Appl ID	[TOC]	Raw	% Recovery
06/11/19	17:42	QC blank	0.00	1316906.000	
06/11/19	18:20	Ical 1	0.50	4509403.000	
06/11/19	18:52	Ical 2	1.25	10661265.000	
06/11/19	19:23	Ical 3	2.50	19817176.000	
06/11/19	19:56	Ical 4	3.75	28801267.000	
06/11/19	20:28	Ical 5	5.00	37233293.000	
06/11/19	21:26	ICB	0.33	1187234.000	
06/11/19	22:00	ICV	2.72	19729462.000	108.6%
r^2= 0.9987					



Date	Time	Appl ID	DF	Raw Result	SubSample Amount	Calc Conc	Result	QC True	% Recovery
2019-08-02	12:48 AM	CCV	1	22507593	40mL	2.734	2.73	2.50	109.4%
2019-08-02	01:23 AM	CCB	1	2951536	40mL	0.06	0.06		
2019-08-02	01:57 AM	190731B LCS	1	23658639	40mL	2.892	2.89	2.50	115.7%
2019-08-02	02:32 AM	190731B LCSD	1	23291430	40mL	2.841	2.84	2.50	113.6%
2019-08-02	03:07 AM	AZ95116W15	1	9916590	40mL	1.294	1.29		
2019-08-02	03:39 AM	AZ95117W14	1	18434184	40mL	2.466	2.47		
2019-08-02	04:11 AM	AZ95118W14	1	18889962	40mL	2.529	2.53		
2019-08-02	04:43 AM	AZ95166W15	*	56345900	40mL	7.683	#VALUE!		
2019-08-02	05:16 AM	AZ95167W15	*	75344281	40mL	10.297	#VALUE!		
2019-08-02	05:50 AM	AZ95168W15	1	28998872	40mL	3.92	3.92		
2019-08-02	06:22 AM	AZ95169W15	*	93414082	40mL	12.783	#VALUE!		
2019-08-02	06:55 AM	AZ95170W14	1	24253767	40mL	3.267	3.27		
2019-08-02	07:27 AM	AZ95171W14	1	17217128	40mL	2.299	2.30		
2019-08-02	07:59 AM	AZ95172W14	1	17517675	40mL	2.34	2.34		
2019-08-02	08:32 AM	AZ95172W14 DUP	1	17543115	40mL	2.343	2.34		
2019-08-02	09:04 AM	CCV	1	22687507	40mL	2.759	2.76	2.50	110.4%
2019-08-02	09:39 AM	CCB	1	2692446	40mL	0.012	0.01		
2019-08-02	10:13 AM	AZ95173W32	1	16139899	40mL	2.151	2.15		
2019-08-02	10:45 AM	AZ95173W32 DUP	1	16241658	40mL	2.164	2.16		
2019-08-02	11:17 AM	AZ95173W32 MS	1	35105273	40mL	4.76	4.76		
2019-08-02	11:49 AM	AZ95173W32 MSD	1	32655548	40mL	4.423	4.42		
2019-08-02	12:22 PM	AZ95187W05	1	5674047	40mL	0.71	0.71		
2019-08-02	12:53 PM	AZ95189W10	1	4242884	40mL	0.513	0.51		
2019-08-02	01:25 PM	AZ95233W15	1	35068590	40mL	4.755	4.76		
2019-08-02	01:58 PM	AZ95234W15	*	41893974	40mL	5.694	#VALUE!		
2019-08-02	02:31 PM	AZ95235W15	*	68966963	40mL	9.419	#VALUE!		
2019-08-02	03:04 PM	AZ95329W05	1	32225746	40mL	4.364	4.36		
2019-08-02	03:38 PM	CCV	1	22063142	40mL	2.672	2.67	2.50	106.9%
2019-08-02	04:13 PM	CCB	1	2617784	40mL	0.014	0.01		
2019-08-02	04:47 PM	AZ95332W06	1	13653729	40mL	1.808	1.81		
2019-08-02	05:19 PM	AZ95334W06	1	5252489	40mL	0.652	0.65		
2019-08-02	05:50 PM	AZ95336W05	1	5365224	40mL	0.668	0.67		
2019-08-02	09:43 PM	CCV	1	22188435	40mL	2.69	2.69	2.50	107.6%
2019-08-02	10:18 PM	CCB	1	2426978	40mL	0.014	0.01		

Standard Prep							
Prep Date	Ferrous Iron Standards		Prep'd By (Initials)		FJR		
Exp Date	06/28/19						
	06/15/19						
Stock Label	Supplier	Batch Number	Exp Date	Aliquot from Stock	Final Volume	Solvent	Ferrous Iron Concentration
Ferrous Ammonium Sulfate	J.T.Baker	0000184592	08/21/20	0.351	250mL	5ml H2SO4 (0000167828) Diluted with water	200ug/L
Ferrous Sulfate	Mallinckrodt	Lot 5056 KDRX	NA	0.250	250mL	5ml H2SO4 (0000167828) Diluted with water	200ug/L
Ferrous Iron CCV/LCS/MS/ICV			Prep'd By (Initials)		FJR		
Prep Date	See Injection Log						
Exp Date	24 Hours						
Initial Standard Information	Supplier	Batch Number	Exp Date	Final Standard Information			
Ferrous Iron CCV	J.T.Baker	0000184592	06/14/19	500uL	25mL	Deionized water	4mg/L
Ferrous Iron ICV/LCS	Mallinckrodt	Lot 5056 KDRX	06/14/19	375uL	25mL	Deionized water	3mg/L
Ferrous Iron Calibration Curve			Prep'd By (Initials)		FJR		
Prep Date	06/28/19						
Exp Date	06/29/19						
Final Standard Information							
Point Label	Supplier	Batch Number	Exp Date	Aliquot from Stock (mL)	Final Volume	Solvent	Ferrous Iron Concentration
CCB	J.T.Baker	0000184592	06/14/19	0	25mL	Deionized water	0mg/L
Ical 1	J.T.Baker	0000184592	06/14/19	0.125	25mL	Deionized water	1mg/L
Ical 2	J.T.Baker	0000184592	06/14/19	0.25	25mL	Deionized water	2mg/L
Ical 3	J.T.Baker	0000184592	06/14/19	0.5	25mL	Deionized water	4mg/L
Ical 4	J.T.Baker	0000184592	06/14/19	0.625	25mL	Deionized water	5mg/L
Ical 5	J.T.Baker	0000184592	06/14/19	1.25	25mL	Deionized water	10mg/L
ICV	Mallinckrodt	Lot 5056 KDRX	06/14/19	0.375	25mL	Deionized water	3mg/L
Reagent Prep							
Reagent	Chemical Lot #	Chemical	Chemical Expiration Date	Amount	Date Prep		
Colorizer	0747C107	1,10-phenanthroline	na	0.2066	07/24/19		
		10% HCL conc	na	enough to dissolve	01/15/19		
Buffer	Z28B018	Ammonia Acetate	na	249.2	06/28/19		
	2018071399	Glacial Acetic Acid	06/27/20	700mL			

Metrohm 814/809 Titrando Data

Sample ID	Analysis Date/Time	Method	Titration Volume					Total Alk	Unit	Sample Vol	N	Batch	Initials
			(to 8.3)	(total)	OH	CO3	HCO3						
AZ95338W07	2019-07-31 20:17:19 UTC-7	Alkalinity	0.000	2.584	0.00	0.00	106.46	106.46	mg/L	25 mL	0.0206	190731B	AR
AZ95336W07	2019-07-31 20:09:40 UTC-7	Alkalinity	0.000	0.398	0.00	0.00	16.40	16.40	mg/L	25 mL	0.0206	190731B	AR
AZ95334W07	2019-07-31 19:58:50 UTC-7	Alkalinity	0.000	1.864	0.00	0.00	76.80	76.80	mg/L	25 mL	0.0206	190731B	AR
AZ95329W07	2019-07-31 19:44:18 UTC-7	Alkalinity	0.000	5.142	0.00	0.00	211.85	211.85	mg/L	25 mL	0.0206	190731B	AR
190731B LCSD	2019-07-31 19:37:57 UTC-7	Alkalinity	0.000	6.108	0.00	0.00	251.65	251.65	mg/L	25 mL	0.0206	190731B	AR
190731B LCS	2019-07-31 19:31:33 UTC-7	Alkalinity	0.000	5.994	0.00	0.00	246.95	246.95	mg/L	25 mL	0.0206	190731B	AR
190731B BLK	2019-07-31 19:28:54 UTC-7	Alkalinity	0.000	0.030	0.00	0.00	1.24	1.24	mg/L	25 mL	0.0206	190731B	AR
AZ95332W07	2019-07-29 23:58:04 UTC-7	Alkalinity	0.000	7.392	0.00	0.00	304.55	304.55	mg/L	25 mL	0.0206	190729A	AR
190729A LCSD	2019-07-29 22:37:47 UTC-7	Alkalinity	0.000	6.064	0.00	0.00	249.84	249.84	mg/L	25 mL	0.0206	190729A	AR
190729A LCS	2019-07-29 22:31:39 UTC-7	Alkalinity	0.000	6.104	0.00	0.00	251.48	251.48	mg/L	25 mL	0.0206	190729A	AR
190729A BLK	2019-07-29 22:28:33 UTC-7	Alkalinity	0.000	0.086	0.00	0.00	3.54	3.54	mg/L	25 mL	0.0206	190729A	AR

Tiamo Alkalinity Standard Prep

Prep Date:

Exp Date:

Prep'd By (Initials): **AR**

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Unit	Conc	Lot Number - QA Number	Prep/Opened	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc
Sulfuric Acid (H ₂ SO ₄)	J.T.Baker	NA	NA	167828	NA	NA	PURCHASED	NA	NA	NA
0.10N Sulfuric Acid (H ₂ SO ₄)	J.T.Baker	Normality	0.1N	167828	05/24/19	05/24/20	3ml	1L	DI	0.10N
0.02N Sulfuric Acid (H ₂ SO ₄)	J.T.Baker	Normality	0.02N	167828	05/24/19	05/24/20	200mL	1L	DI	0.02N
Inorganic Spike(NaHCO ₃)	BDH	NA	NA	1575C510	10/18/18	08/14/20	PURCHASED	NA	NA	NA
Inorganic Spike Solution	BDH	Milligrams/Liters	250mg/L	1575C510	05/06/19	11/05/19	3.5g	500mL	DI	250mg/L
Standarizing Solution(NaCO ₃)	J.T.Baker	Normality	1N	178494	07/25/17	07/25/19	PURCHASED	NA	NA	NA

Nitrite

High Point @ 1.5 mg/L

0.2463 mL NO₂ Inorganic Ventures lot N2-NOX672889-40759 exp: 05/01/20
50 mL DI Water

CCV @ 0.75 mg/L

0.1232 mL NO₂ Inorganic Ventures lot N2-NOX672889-40759 exp: 05/01/20
50 mL DI Water

ICV/LCS @ 0.73 mg/L

0.120 mL NO₂ Inorganic Ventures lot M2-NOX660562-39802 exp: 10/23/19
50 mL DI Water

1 mg/L NO₂

400 uL of High point and 200 uL of DI made directly into a sample cup

Prep 07/26/19

Exp 08/02/19

EV

Nitrate/TOXN

High Point @ 6 mg/L

0.300 mL NO₃ O₂Si lot 880117-39577 exp: 2/21/20
50 mL DI Water

CCV @ 3.0 mg/L

0.150 mL NO₃ O₂Si lot 880117-39577 exp: 2/21/20
50 mL DI Water

ICV/LCS @ 3.0 mg/L

0.150 mL NO₃ Inorganic Ventures lot N2-NOX667147-39510 exp: 10/23/19
50 mL DI Water

1 mg/L NO₃

100 uL of High point and 500 uL of DI made directly into a sample cup

MS @ 0.73 mg/L NO₂ and 2.5 mg/L NO₃

0.120 mL NO₂ Inorganic Ventures lot M2-NOX660562-39802 exp: 10/23/19 and

0.125 mL NO₃ Inorganic Ventures lot N2-NOX667147-39510 exp: 10/23/19

Final volume 50 mL of sample

Prep 07/26/19

Exp 08/02/19

EV

EPA 353.2 Injection Log

Directory: I:\EVE\Export\2019\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	31 Jul 2019	17:08	Standard 1 TOXN/NO3		190731B NO	1.
2	31 Jul 2019	17:10	Standard 90 TOXN/NO3		190731B NO	1.
3	31 Jul 2019	17:12	Standard 91 TOXN/NO3		190731B NO	1.
4	31 Jul 2019	17:14	Standard 92 TOXN/NO3		190731B NO	1.
5	31 Jul 2019	17:17	Standard 93 TOXN/NO3		190731B NO	1.
6	31 Jul 2019	17:17	Standard 94 TOXN/NO3		190731B NO	1.
7	31 Jul 2019	17:18	Standard 0 TOXN/NO3		190731B NO	1.
10	31 Jul 2019	17:21	ICV NO3 TOXN		190731B NO	1.
11	31 Jul 2019	17:22	ICB NO2 NO3 TOXN		190731B NO	1.

EPA 353.2 Injection Log

Directory: I:\EVE\Export\2019\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
15	31 Jul 2019	18:20	CCV TOXN/NO3		190731B NO	1.
16	31 Jul 2019	18:22	CCB TOXN/NO3		190731B NO	1.
19	31 Jul 2019	18:29	190731A BLK TOXN/NO3		190731B NO	1.
20	31 Jul 2019	18:31	190731A LCS TOXN		190731B NO	1.
21	31 Jul 2019	18:34	190731A LCSD TOXN		190731B NO	1.
26	31 Jul 2019	18:45	AZ95329W08 TOXN/NO3		190731B NO	1.
27	31 Jul 2019	18:47	CCV TOXN/NO3		190731B NO	1.
28	31 Jul 2019	18:50	CCB TOXN/NO3		190731B NO	1.
29	31 Jul 2019	18:52	AZ95332W08 TOXN/NO3		190731B NO	1.
30	31 Jul 2019	18:54	AZ95334W08 TOXN/NO3		190731B NO	1.
31	31 Jul 2019	18:55	AZ95336W08 TOXN/NO3		190731B NO	1.
32	31 Jul 2019	18:56	AZ95338W08 TOXN/NO3		190731B NO	1.
38	31 Jul 2019	19:02	CCV TOXN/NO3		190731B NO	1.
39	31 Jul 2019	19:03	CCB TOXN/NO3		190731B NO	1.

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908 North Temperance Ave. ▽ Clovis, CA 93611 ▽ Phone 559-275-2175 ▽ Fax 559-275-4422

Certification Number: CA1312
NELAP Certification number: CA00046
DoD-ELAP Certificate number: 4064.01

Data Validatable Report

August 26, 2019

AECOM
1001 Bishop Street, Suite 1600
Honolulu, Hawaii 96813

Attn: Margie Pascua

Title: Report of Data: Case 89607

Project: 60571032 CV18F0126 Red Hill Fuel Storage. HI

Contract #: Prime contract # for DoD: NAVY CLEAN N62742-17-F-1800, CV18F0126
Subcontract: 18S-22209-HI27

Dear Ms. Pascua:

Six water samples were received July 25, 2019. Written results for the requested analyses are being provided on this August 26, 2019.

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

If you have any questions or require further information, please contact your APPL Project Manager, Libby Cheeseborough, libby@applinc.com, at your convenience. Thank you for choosing APPL, Inc.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC and DoD QSM. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

Paula McCartney, Laboratory Director
APPL, Inc.

PM/lac
Enclosure
cc: File

Data Validation Package
For

60481245 CIV 0053 Red Hill Fuel Storage

APPL SDG 89607

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CASE NARRATIVE

Case Narrative

ARF: 89607

Project: 60571032 CV18F0126 Red Hill Fuel Storage. HI

Sample Receipt Information:

Six water samples were received July 25, 2019, at 1.9°C, 1.4°C, and 0.9°C. The sample group was assigned Analytical Request Form (ARF) number 89607.

Sample Preparation and Analysis Information:

For the EPA 8015B analysis, the samples were extracted according to EPA method 3520C. The sample extracts were silica gel cleaned according to APPL's SOP CLN004 and placed on hold.

For the EPA 8270D SIM analysis, the samples were extracted according to EPA method 3520C.

For the EPA 8270D Phenol analysis, the samples were extracted according to EPA method 3520C.

For the APPL SOP ANA2MEE analysis, the samples were extracted according to EPA method 3535.

For the EPA 8260B analysis, the samples were purged according to EPA method 5030B.

For the RSK-175 analysis, the samples were allowed to equilibrate for 10 minutes at 40°C and a portion of the headspace was analyzed.

For the EPA 9060A, 300.0, 353.2, SM 2320B, and SM 3500FeB analyses, the samples were prepared according to the methods.

Only the portion of the injection log relative to these samples is included. A full sequence log is available upon request. Measurement uncertainty can be reported upon request.

Analytical Exceptions, Deviations and Abnormalities.

EPA 8270D SIM: Manual integrations are performed in accordance with the SOP/ Chrysene was manually integrated in the ICAL. Before and after chromatograms are included in the package.

EPA 8270D Phenol: Manual integrations are performed in accordance with the SOP/ 2,4,6-tribromophenol was manually integrated in one CCV. Before and after chromatograms are included in the package.

EPA Method 8260-Gas: Sample ERH865 had a surrogate recovery above the control limit. The sample is ND for gas.

EPA 8260B: All the surrogates recovered above the upper control limit in one sample. Corrective action: None, no target compound was detected in the sample.

In the LCSD, the surrogate Toluene-d8 recovered below the lower control limit. The associated spike recoveries of target compounds were in control.

APPL SOP ANA2MEE: Manual integrations are performed in accordance with the SOP/ 1,4-DCB was manually integrated in the ICAL and CCVs. Before and after chromatograms are included in the package.

The LCSD recovered above the control limit. The samples were ND.

qryCOC_APPLCaseNarrativeReport

SDG	Received	Client ID	APPL ID	Collected DateTime	Matrix	Method	Method Description
89607	07/25/19	ERH843	AZ95418	07/23/19 12:30:00 PM	WATER	EPA 8260B	EPA 8260B BTEX WATER
89607	07/25/19	ERH843	AZ95418	07/23/19 12:30:00 PM	WATER	EPA 8260-GAS	EPA 8260 with GAS
89607	07/25/19	ERH843	AZ95418	07/23/19 12:30:00 PM	WATER	EPA 8260B	EPA 8260B GRO WATER
89607	07/25/19	ERH843	AZ95418	07/23/19 12:30:00 PM	WATER	RSK 175	METHANE BY RSK 175
89607	07/25/19	ERH844	AZ95419	07/23/19 3:15:00 PM	WATER	SM 2320B	Wetlab 2320B - Water
89607	07/25/19	ERH844	AZ95419	07/23/19 3:15:00 PM	WATER	EPA 300.0	Wetlab 300.0 - Water
89607	07/25/19	ERH844	AZ95419	07/23/19 3:15:00 PM	WATER	SM3500FeB	Ferrous Iron
89607	07/25/19	ERH844	AZ95419	07/23/19 3:15:00 PM	WATER	EPA 353.2	EPA 353.2 - WATER
89607	07/25/19	ERH844	AZ95419	07/23/19 3:15:00 PM	WATER	EPA 8260B	EPA 8260B BTEX WATER
89607	07/25/19	ERH844	AZ95419	07/23/19 3:15:00 PM	WATER	EPA 8270D	EPA 8270D WATER
89607	07/25/19	ERH844	AZ95419	07/23/19 3:15:00 PM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER
89607	07/25/19	ERH844	AZ95419	07/23/19 3:15:00 PM	WATER	EPA 8015B-eLL	EPA 8015B TPH LIQ-LIQ
89607	07/25/19	ERH844	AZ95419	07/23/19 3:15:00 PM	WATER	EPA 8260-GAS	EPA 8260 with GAS
89607	07/25/19	ERH844	AZ95419	07/23/19 3:15:00 PM	WATER	EPA 8260B	EPA 8260B GRO WATER
89607	07/25/19	ERH844	AZ95419	07/23/19 3:15:00 PM	WATER	RSK 175	METHANE BY RSK 175
89607	07/25/19	ERH844	AZ95419	07/23/19 3:15:00 PM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ
89607	07/25/19	ERH844	AZ95419	07/23/19 3:15:00 PM	WATER	SW846 9060A	9060A TOC
89607	07/25/19	ERH860	AZ95420	07/23/19 2:35:00 PM	WATER	EPA 8260B	EPA 8260B BTEX WATER
89607	07/25/19	ERH860	AZ95420	07/23/19 2:35:00 PM	WATER	EPA 8260-GAS	EPA 8260 with GAS
89607	07/25/19	ERH860	AZ95420	07/23/19 2:35:00 PM	WATER	EPA 8260B	EPA 8260B GRO WATER
89607	07/25/19	ERH860	AZ95420	07/23/19 2:35:00 PM	WATER	RSK 175	METHANE BY RSK 175
89607	07/25/19	ERH861	AZ95421	07/23/19 2:40:00 PM	WATER	SM 2320B	Wetlab 2320B - Water
89607	07/25/19	ERH861	AZ95421	07/23/19 2:40:00 PM	WATER	EPA 300.0	Wetlab 300.0 - Water
89607	07/25/19	ERH861	AZ95421	07/23/19 2:40:00 PM	WATER	SM3500FeB	Ferrous Iron
89607	07/25/19	ERH861	AZ95421	07/23/19 2:40:00 PM	WATER	EPA 353.2	EPA 353.2 - WATER
89607	07/25/19	ERH861	AZ95421	07/23/19 2:40:00 PM	WATER	EPA 8260B	EPA 8260B BTEX WATER
89607	07/25/19	ERH861	AZ95421	07/23/19 2:40:00 PM	WATER	EPA 8270D	EPA 8270D WATER
89607	07/25/19	ERH861	AZ95421	07/23/19 2:40:00 PM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER
89607	07/25/19	ERH861	AZ95421	07/23/19 2:40:00 PM	WATER	EPA 8015B-eLL	EPA 8015B TPH LIQ-LIQ
89607	07/25/19	ERH861	AZ95421	07/23/19 2:40:00 PM	WATER	EPA 8260-GAS	EPA 8260 with GAS
89607	07/25/19	ERH861	AZ95421	07/23/19 2:40:00 PM	WATER	EPA 8260B	EPA 8260B GRO WATER
89607	07/25/19	ERH861	AZ95421	07/23/19 2:40:00 PM	WATER	RSK 175	METHANE BY RSK 175
89607	07/25/19	ERH861	AZ95421	07/23/19 2:40:00 PM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ
89607	07/25/19	ERH861	AZ95421	07/23/19 2:40:00 PM	WATER	SW846 9060A	9060A TOC
89607	07/25/19	ERH864	AZ95422	07/24/19 7:55:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER
89607	07/25/19	ERH864	AZ95422	07/24/19 7:55:00 AM	WATER	EPA 8260-GAS	EPA 8260 with GAS
89607	07/25/19	ERH864	AZ95422	07/24/19 7:55:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER
89607	07/25/19	ERH864	AZ95422	07/24/19 7:55:00 AM	WATER	RSK 175	METHANE BY RSK 175
89607	07/25/19	ERH865	AZ95423	07/24/19 8:50:00 AM	WATER	SM 2320B	Wetlab 2320B - Water
89607	07/25/19	ERH865	AZ95423	07/24/19 8:50:00 AM	WATER	EPA 300.0	Wetlab 300.0 - Water
89607	07/25/19	ERH865	AZ95423	07/24/19 8:50:00 AM	WATER	SM3500FeB	Ferrous Iron
89607	07/25/19	ERH865	AZ95423	07/24/19 8:50:00 AM	WATER	EPA 353.2	EPA 353.2 - WATER
89607	07/25/19	ERH865	AZ95423	07/24/19 8:50:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER
89607	07/25/19	ERH865	AZ95423	07/24/19 8:50:00 AM	WATER	EPA 8270D	EPA 8270D WATER
89607	07/25/19	ERH865	AZ95423	07/24/19 8:50:00 AM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER
89607	07/25/19	ERH865	AZ95423	07/24/19 8:50:00 AM	WATER	EPA 8015B-eLL	EPA 8015B TPH LIQ-LIQ
89607	07/25/19	ERH865	AZ95423	07/24/19 8:50:00 AM	WATER	EPA 8260-GAS	EPA 8260 with GAS
89607	07/25/19	ERH865	AZ95423	07/24/19 8:50:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER
89607	07/25/19	ERH865	AZ95423	07/24/19 8:50:00 AM	WATER	RSK 175	METHANE BY RSK 175
89607	07/25/19	ERH865	AZ95423	07/24/19 8:50:00 AM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ
89607	07/25/19	ERH865	AZ95423	07/24/19 8:50:00 AM	WATER	SW846 9060A	9060A TOC

APPL Inc.
Abbreviations and Flags


FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
MI1	Manual integration: integration does not follow baseline
MI2	Manual integration: non-target peak interference
MI3	Manual integration: to split a peak that was integrated as one peak by the computer.
MI4	Manual integration: to integrate a split peak
MI5	Manual integration: the whole peak or part of the peak was not integrated
MI6	Manual integration: computer integrated wrong peak
MI7	Manual integration: other – (See case narrative)
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, e.g. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, e.g. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, e.g. asphaltene, waste oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, e.g. asphaltene, waste oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel
U	Not detected
Y	Percent difference between primary and confirmation column > 40%

SAMPLE RECORDS MANAGEMENT
CHAIN OF CUSTODY,
ARF, CRF, AND
CLIENT COMMUNICATION

APPL - Analysis Request Form

89607

Client: AECOM
 Address: 1001 Bishop Street, Suite 1600
Honolulu, HI 96813
 Attn: Margie Pascua
 Phone: 808-356-5373 Fax: 808-523-8950
 Job: 60571032 CV18F0126 Red Hill Fuel Storage
 PO #: 18S-22209-HI27 PO# 102604
 Chain of Custody (Y/N): Y # 069, 078, 080
 RAD Screen (Y/N): Y pH (Y/N): N
 Turn Around Type: 1 WEEK

Received by: LA 
 Date Received: 07/25/19 Time: 10:00
 Delivered by: FEDEX
 Shuttle Custody Seals (Y/N): Y Time Zone: -10
 Chest Temp(s): 1.9, 1.4, 0.9°C
 Color: VOA/G-Blue
 Samples Chilled until Placed in Refrig/Freezer: Y
 Project Manager: Libby Cheesebor
 QC Report Type: DVP4DOD/EQUIS/HI
 Due Date: 08/01/19

Comments:

PM: login and F1s to Margie.Pascua@aecom.com
AN: 7 day TAT for Form 1s; 21 day TAT for PKG STYLE 1; DOD v5.1; DOD Forms (LOQ/LOD database/DL)
8260: BTEX & TPH-G only; 8270 SIM: 1-methylnaphthalene, 2-methylnaphthalene & naphthalene only.
TPH D & O both with and w/o SGC, reverse surrogate for the SGC; analyze SGC if detections
RSK: Methane only; \$87DC53W5: report phenol only; \$87DMEEW5: 2-MEE (LCS Spk 80ppb).

FR: HC to LDC, 2 labeled CDs to Margie Pascua.
EDD: AECOM EQUIS EDD 2.5.3 Red Hill 87DMEE->3535A to Margie.Pascua@aecom.com & jecklund@lab-data.com




Sample Distribution:

GC: 3-\$87DC53W5, 3-\$87DMEEW5, 3-\$DOC53W5LIQ, 3-\$SIM53LIQ51
Extractions: 3- LIQ003, 3- LIQ005, 3- MWE2MEE
VOA: 6-\$86BTOTXDOD5W, 6-\$GASBL, 6-\$GRO86BW, 6-\$RSKMETH
Wetlab: 3-\$232W(HCO3,CO3,ALK), 3-\$300W(CL,SO4), 3-\$35FE, 3-\$35OF(NO3), 3-\$TOCW53

Charges:

Invoice To:

ACCOUNTS PAYABLE
1001 Bishop Street, Ste 1600
USAPImaging@aecom.com
mary.basano@aecom.com

Client ID	APPL ID	Sampled	Analyses Requested
1. ERH843	AZ95418W LCSD 	07/23/19 12:30	\$86BTOTXDOD5W, \$GASBL, \$GRO86BW, \$RSKMETH
2. ERH844	AZ95419W LCSD 	07/23/19 15:15	\$232W(HCO3,CO3,ALK), \$300W(CL,SO4), \$35FE, \$35OF(NO3), \$86BTOTXDOD5W, \$87DC53W5, \$87DMEEW5, \$DOC53W5LIQ, \$GASBL, \$GRO86BW, \$RSKMETH, \$SIM53LIQ51, \$TOCW53 -- see comments
3. ERH860	AZ95420W LCSD 	07/23/19 14:35	\$86BTOTXDOD5W, \$GASBL, \$GRO86BW, \$RSKMETH

APPL - Analysis Request Form

89607

-
4. ERH861 LCSD AZ95421W 07/23/19 14:40 \$232W(HCO3,CO3,ALK), \$300W(CL,SO4),
\$35FE, \$35OF(NO3), \$86BTOTXDOD5W,
\$87DC53W5, \$87DMEEW5, \$DOC53W5LIQ,
\$GASBL, \$GRO86BW, \$RSKMETH,
\$SIM53LIQ51, \$TOCW53 -- see comments
-
5. ERH864 LCSD AZ95422W 07/24/19 07:55 \$86BTOTXDOD5W, \$GASBL, \$GRO86BW,
\$RSKMETH
-
6. ERH865 LCSD AZ95423W 07/24/19 08:50 \$232W(HCO3,CO3,ALK), \$300W(CL,SO4),
\$35FE, \$35OF(NO3), \$86BTOTXDOD5W,
\$87DC53W5, \$87DMEEW5, \$DOC53W5LIQ,
\$GASBL, \$GRO86BW, \$RSKMETH,
\$SIM53LIQ51, \$TOCW53 -- see comments

Note: All times, excluding sample collection times, are Pacific Time Zone unless noted otherwise. Collection times are in: -10 UTC

APPL Sample Receipt Form

ARF# 89607

Sample	Container Type	Count	p
AZ95418	13 VOAs - HCL	4	na
AZ95419	3 PL 250mL	1	na
	6 PL 500mL - HNO3	1	1.7
	10 PL 250mL - H2SO4	1	1.7
	13 VOAs - HCL	4	na
	17 Amber Liter	5	na
	32 Clear VOA - H2SO4	2	na
	38 250mL brn poly, HCl prsvd	1	na
	40 500mL Amber, unprsvd	2	na
AZ95420	13 VOAs - HCL	4	na
AZ95421	3 PL 250mL	1	na
	6 PL 500mL - HNO3	1	1.7
	10 PL 250mL - H2SO4	1	1.7
	13 VOAs - HCL	4	na
	17 Amber Liter	5	na
	32 Clear VOA - H2SO4	2	na
	38 250mL brn poly, HCl prsvd	1	na
	40 500mL Amber, unprsvd	2	na
AZ95422	13 VOAs - HCL	4	na
AZ95423	3 PL 250mL	1	na
	10 PL 250mL - H2SO4	1	1.7
	13 VOAs - HCL	4	na
	17 Amber Liter	5	na
	32 Clear VOA - H2SO4	2	na
	38 250mL brn poly, HCl prsvd	1	na
	40 500mL Amber, unprsvd	2	na

Sample Container Type Count p



APPL, Inc.
908 N Temperance Ave
Clovis, CA 93611
www.applinc.com

Phone: (559) 275-2175
Fax: (559) 275-4422
coc@applinc.com

CHAIN OF CUSTODY RECORD

89607
Ri@fo.y
1.5/1.9
1.0/1.9
0.5/0.9

C.O.C. 069

Report to: PLEASE PRINT Company Name: <u>AECOM</u> Phone: <u>808-356-5373</u> Address: <u>1001 Bishop St, Suite 1600</u> <u>Honolulu, HI 96813</u> Fax: <u>808-523-8950</u> Attn: <u>Margie Pascua</u> Email: <u>margie.pascua@aecom.com</u>	Invoice to: PLEASE PRINT Company Name: <u>AECOM</u> Phone: <u>808-529-7249</u> Address: <u>1001 Bishop St, Suite 1600</u> <u>Honolulu, HI 96813</u> Fax: <u>808-523-8950</u> Attn: <u>Mary Basano</u> Email: <u>mary.basano@aecom.com; usapimaging@aecom.com</u>
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Project Name/Number	Sampler (Print)		Analysis Requested/Method Number											Date Shipped: <u>7/24/19</u>													
	Purchase Order Number	Sampler (Signature)	No. of Containers	Matrix			8260C BTEX, TPH-g	8260C DCA	8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/g w/SGT	8270DSIM PAHs short list	8270D Phenol, Hex, MW	8270D 2,4-dimethoxy ethoxy ethanol	RSK175M Methane	SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N	SM2320B Alkalinity	300.0 Nitrate, Sulfate, Chloride	8000 Bromide/Fluoride	8010 Total Carbon/Inorganic Carbon	8060A TOC	Carrier: <u>FedEx</u>				
Aq				Sed.	Soil	Waybill No.:																					
Sample Identification	Location	Date Collected	Time Collected	Time Zone	Comments:																						
<u>ERH843</u>	<u>trip blank</u>	<u>7/23</u>	<u>12:30</u>	<u>HST</u>	<u>4</u>	<u>X</u>																					
<u>ERH844</u>	<u>RHNWDI</u>	<u>7/23</u>	<u>15:15</u>	<u>HST</u>	<u>12 (MO)</u>	<u>X</u>	<u>X</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>						<u>No analysis on metals container volume</u>
<u>MO 7/24</u>																											

Shuttle Temperature: <u>Ri@fo.y 1.5/1.9</u>	Turnaround Requested: Check one <input type="checkbox"/> Standard 2-3 wk <input checked="" type="checkbox"/> One week <input type="checkbox"/> 3 days <input type="checkbox"/> 24/48 Hrs. <input type="checkbox"/> Other: _____						Sample Disposal: <input type="checkbox"/> Return to client <input checked="" type="checkbox"/> Disposal by Lab (30-day retention)			
Relinquished by sampler: <u>AECOM</u>	Date	Time	Received by:	Relinquished by:	Date	Time	Received by:			
<u>Morgan Sanchez</u>	<u>7/24</u>	<u>15:00</u>								
Relinquished by:	Date	Time	Received by:	Relinquished by:	Date	Time	Received at lab by:			
					<u>7.25.19</u>	<u>1:00</u>	<u>[Signature]</u>			



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CHAIN OF CUSTODY RECORD

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 coc@applinc.com

C.O.C. 078

Report to: <u>PLEASE PRINT</u> Company Name: <u>AECOM</u> Phone: <u>808-356-5373</u> Address: <u>1001 Bishop St, Suite 1600</u> <u>Honolulu, HI 96813</u> Fax: <u>808-523-8950</u> Attn: <u>Margie Pascua</u> Email: <u>margie.pascua@aecom.com</u>	Invoice to: <u>PLEASE PRINT</u> Company Name: <u>AECOM</u> Phone: <u>808-529-7249</u> Address: <u>1001 Bishop St, Suite 1600</u> <u>Honolulu, HI 96813</u> Fax: <u>808-523-8950</u> Attn: <u>Mary Basano</u> Email: <u>mary.basano@aecom.com; usapimaging@aecom.com</u>
--	--

Project Name/Number	Sampler (Print)	Analysis Requested/Method Number													Date Shipped: <u>7/24/19</u>											
		No. of Containers	Matrix			8260C BTEX, TPH-g	8260C DCA	8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/o w/SGT	8270DSIM PAHs short list	8270D Phenol, TCE, PCE	8270D 2-(2-methoxyethoxy)-ethanol	RSK175M Methane		SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N	SM2320B Alkalinity	300.0 Nitrate Sulfate Chloride	100.0 Bromide/Iodide	100.0 Total Chloride	100.0 Total Ammonia Nitrogen	100.0 Total Dissolved Solids	9060A TOC	Carrier: <u>FedEx</u>	
Purchase Order Number	Sampler (Signature)		Aq	Sed.	Soil														Waybill No.:							
Sample Identification	Location	Date Collected	Time Collected	Time Zone														Comments:								
ERH860	Tip Blank	7/23	14:35	HST	4	X																				
ERH861	RHMWD9	7/23	14:40	HST	17(MD)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	No analysis on metals container volume		
<div style="border: 1px solid black; border-radius: 50%; width: 80%; margin: 0 auto; padding: 10px; display: inline-block;"> MD 7/24 </div>																										

Shuttle Temperature:	Turnaround Requested: Check one <input type="checkbox"/> Standard 2-3 wk <input checked="" type="checkbox"/> One week <input type="checkbox"/> 3 days <input type="checkbox"/> 24/48 Hrs. <input type="checkbox"/> Other: _____	Sample Disposal: <input type="checkbox"/> Return to client <input checked="" type="checkbox"/> Disposal by Lab (30-day retention)					
Relinquished by sampler: <u>AECOM</u> <u>Morgan Donohue</u>	Date: <u>7/24</u> Time: <u>15:00</u>	Received by:	Relinquished by:	Date:	Time:	Received by:	
Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date: <u>7-25-19</u>	Time: <u>1000</u>	Received at lab by: <u>[Signature]</u>



APPL, Inc.
908 N Temperance Ave
Clovis, CA 93611
www.applinc.com

CHAIN OF CUSTODY RECORD

Phone: (559) 275-2175
Fax: (559) 275-4422
coc@applinc.com C.O.C. 080

Report to: <u>PLEASE PRINT</u> Company Name: <u>AECOM</u> Phone: <u>808-356-5373</u> Address: <u>1001 Bishop St, Suite 1600</u> <u>Honolulu, HI 96813</u> Fax: <u>808-523-8950</u> Attn: <u>Margie Pascua</u> Email: <u>margie.pascua@aecom.com</u>		Invoice to: <u>PLEASE PRINT</u> Company Name: <u>AECOM</u> Phone: <u>808-529-7249</u> Address: <u>1001 Bishop St, Suite 1600</u> <u>Honolulu, HI 96813</u> Fax: <u>808-523-8950</u> Attn: <u>Mary Basano</u> Email: <u>mary.basano@aecom.com; usapimaging@aecom.com</u>	
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Project Name/Number	Sampler (Print)	Purchase Order Number	Sampler (Signature)	Analysis Requested/Method Number										Date Shipped: <u>7/24/19</u>													
				8260C BTEX, TPH-g	8260C DCA	8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/o w/ SGT	8270DSIM PAHs short list	8270D Phenol, PCB	8270D 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane	SM3500-Fe Ferrous Iron		353.2 Nitrate-Nitrite N	SM2320B Alkalinity	300.0 Nitrate, Sulfate, Chloride	8060-Bismuthide/Sulfide	8100 Total Chromium	SM162000-02 Lead	9080A	TOC					
Sample Identification	Location	Date Collected	Time Collected	Time Zone	No. of Containers	Matrix			Comments																		
						Aq	Sed.	Soil																			
ERH 864	Thp Blank	<u>7/23/19</u>	<u>07:55</u>	<u>HST</u>	<u>4</u>	<u>X</u>			<u>X</u>																		
ERH 865	DWDFMWO1	<u>7/24</u>	<u>08:50</u>	<u>HST</u>	<u>16</u>	<u>X</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>							<u>No analysis on metal container volume</u>
						<u>MO 7/24</u>																					

Shuttle Temperature:	Turnaround Requested: Check one <input type="checkbox"/> Standard 2-3 wk <input checked="" type="checkbox"/> One week <input type="checkbox"/> 3 days <input type="checkbox"/> 24/48 Hrs. <input type="checkbox"/> Other: _____		Sample Disposal: <input type="checkbox"/> Return to client <input checked="" type="checkbox"/> Disposal by Lab (30-day retention)				
Relinquished by sampler: <u>AECOM</u>	Date	Time	Received by:	Relinquished by:	Date	Time	Received by:
<u>Margie Pascua</u>	<u>7/24</u>	<u>15:00</u>					
Relinquished by:	Date	Time	Received by:	Relinquished by:	Date	Time	Received at lab by:
					<u>7-25-19</u>	<u>1:00</u>	<u>[Signature]</u>

COOLER RECEIPT FORM

ARF: 89607

1) Project: 60571032 CV18F0126 Red Hill Fuel Storage Date Received: 07/25/19

2) Coolers: Number of Coolers: 3

3) YES Were custody seals present and intact? How many? 6 Name/Date on seal? see below

4) YES Was there a shipping slip? Carrier name: FEDEX

5) Type of packing in cooler: X bubble wrap popcorn foam X plastic bags other X wet ice dry ice no ice gel ice

6) YES Were cooler temperatures acceptable?

7) Serial number of certified NIST thermometer use R1 @ +0.4°C

8) Cooler temp(s): In °C. Thermometer Temp / Corrected Temp 1: 1.5°C/ 1.9°C 2: 1.0/ 1.4°C 3: 0.5°C/ 0.9°C 4: 5: 6: 7: 8: 9: 10: 11: 12:

Chain of custody:

9) YES Was a chain of custody received? 10) YES Were the custody papers complete/signed in the appropriate places?

Sample Labels:

11) YES Were all sample labels complete (sample ID, date/time of sampling, etc.)? 12) YES Did all container labels agree with custody papers?

Sample Containers:

13) YES Were all containers sealed in separate bags? 14) YES Did all containers arrive in good condition:(unbroken, no leakage, no cracked/broken lids)? 15) YES Were correct containers and preservatives used for the tests indicated? 16) YES Was a sufficient amount of sample sent for tests indicated? 17) No Were bubbles present in volatile samples?

If yes, the following were received with air bubbles:

Larger than a pea: Smaller than a pea:

Preservation Hold time:

18) Yes Was a sufficient amount of holding time remaining to analyze the samples? 19) Yes Was the pH taken of all non-VOA preserved samples and written on the sample container? 20) Yes Was the pH of acid preserved non-VOA samples < 2? 21) NA Was the pH of sodium hydroxide preserved samples for Cyanide > 12 and Sulfide >9? 22) NO Were unpreserved VOA Vials received? 23) NA Are unpreserved VOA vials noted in the ADD TEST FIELD on the ADEC

pH strip lot number: 90b2031

Lab notified if pH was not adequate:

Notes/Deficiencies:

CUSTODY SEAL

AECOM (808) 521-3051

EB Date 07/26/2019

Personnel receiving samples: ZG Second reviewer: RA Personnel labeling samples: ZG Project manager notified: ZG Date/Time of notification 07/26/19 Name of client notified: Date/Time of notification

SAMPLE RESULTS

EPA 8015B TPH LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH844
Sample Collection Date: 07/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89607
APPL ID: AZ95419
QCG: #DOC53-190727A-243221

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-eL	DIESEL (C10-C24)	210 ++	40.0	25.00	13.07	ug/L	07/27/19	07/30/19
EPA 8015B-eL	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	07/27/19	07/30/19
EPA 8015B-eL	SURROGATE: OCTACOSANE (S)	94.4	60-142			%	07/27/19	07/30/19
EPA 8015B-eL	SURROGATE: ORTHO-TERPHENYL (S)	85.6	56-125			%	07/27/19	07/30/19

++(T6) The analyst has noted that the chromatogram of this sample is mainly a match to hydrocarbons within the range of diesel fuel.

Quant Method: DOC0617.M
Run #: 713269
Instrument: Apollo
Sequence: 190713
Dilution Factor: 1
Initials: BTI

Printed: 08/08/19 11:47:07 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH WATER L-L SGC

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89607

Sample ID: ERH844

APPL ID: AZ95419

Sample Collection Date: 07/23/19

QCG: #DOC53-190727A1-243920

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-eL	DIESEL (C10-C24)	25.00 U	40.0	25.00	13.07	ug/L	07/27/19	08/21/19
EPA 8015B-eL	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	07/27/19	08/21/19
EPA 8015B-eL	SURROGATE: (R) DECANOIC ACID (S)	0.0	0-1			%	07/27/19	08/21/19
EPA 8015B-eL	SURROGATE: OCTACOSANE (S)	106	60-142			%	07/27/19	08/21/19
EPA 8015B-eL	SURROGATE: ORTHO-TERPHENYL (S)	110	56-125			%	07/27/19	08/21/19

Quant Method: DOC0617.M
Run #: 814156
Instrument: Apollo
Sequence: 190814
Dilution Factor: 1
Initials: BTI

Printed: 08/26/19 2:50:53 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89607
APPL ID: AZ95421
QCG: #DOC53-190727A-243221

Sample ID: ERH861

Sample Collection Date: 07/23/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-eL	DIESEL (C10-C24)	25.00 U	40.0	25.00	13.07	ug/L	07/27/19	07/30/19
EPA 8015B-eL	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	07/27/19	07/30/19
EPA 8015B-eL	SURROGATE: OCTACOSANE (S)	93.9	60-142			%	07/27/19	07/30/19
EPA 8015B-eL	SURROGATE: ORTHO-TERPHENYL (S)	83.8	56-125			%	07/27/19	07/30/19

Quant Method: DOC0617.M
Run #: 713270
Instrument: Apollo
Sequence: 190713
Dilution Factor: 1
Initials: BTI

Printed: 08/08/19 11:47:07 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89607
APPL ID: **AZ95423**
QCG: #DOC53-190727A-243221

Sample ID: ERH865

Sample Collection Date: 07/24/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-eL	DIESEL (C10-C24)	210 ++	40.0	25.00	13.07	ug/L	07/27/19	07/31/19
EPA 8015B-eL	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	07/27/19	07/31/19
EPA 8015B-eL	SURROGATE: OCTACOSANE (S)	105	60-142			%	07/27/19	07/31/19
EPA 8015B-eL	SURROGATE: ORTHO-TERPHENYL (S)	84.9	56-125			%	07/27/19	07/31/19

++(T6) The analyst has noted that the chromatogram of this sample is mainly a match to hydrocarbons within the range of diesel fuel.

Quant Method: DOC0617.M
Run #: 713271
Instrument: Apollo
Sequence: 190713
Dilution Factor: 1
Initials: BTI

Printed: 08/08/19 11:47:07 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH WATER L-L SGC

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89607
APPL ID: **AZ95423**
QCG: #DOC53-190727A1-243920

Sample ID: ERH865

Sample Collection Date: 07/24/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-eL	DIESEL (C10-C24)	25.00 U	40.0	25.00	13.07	ug/L	07/27/19	08/21/19
EPA 8015B-eL	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	07/27/19	08/21/19
EPA 8015B-eL	SURROGATE: (R) DECANOIC ACID (S)	0.0	0-1			%	07/27/19	08/21/19
EPA 8015B-eL	SURROGATE: OCTACOSANE (S)	109	60-142			%	07/27/19	08/21/19
EPA 8015B-eL	SURROGATE: ORTHO-TERPHENYL (S)	113	56-125			%	07/27/19	08/21/19

Quant Method: DOC0617.M
Run #: 814157
Instrument: Apollo
Sequence: 190814
Dilution Factor: 1
Initials: BTI

Printed: 08/26/19 2:50:53 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89607
APPL ID: **AZ95419**
QCG: #SIM53-190729A-242896

Sample ID: ERH844

Sample Collection Date: 07/23/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/29/19	07/31/19
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/29/19	07/31/19
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/29/19	07/31/19
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	101	39-114			%	07/29/19	07/31/19
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	111	58-120			%	07/29/19	07/31/19

Quant Method: Y0717P.M
Run #: 0717Y312
Instrument: Yoda
Sequence: Y190717P
Dilution Factor: 1
Initials: MA

Printed: 08/01/19 10:49:09 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH861

Sample Collection Date: 07/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89607

APPL ID: AZ95421

QCG: #SIM53-190729A-242896

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/29/19	07/31/19
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/29/19	07/31/19
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/29/19	07/31/19
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	91.2	39-114			%	07/29/19	07/31/19
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	104	58-120			%	07/29/19	07/31/19

Quant Method: Y0717P.M Run #: 0717Y313 Instrument: Yoda Sequence: Y190717P Dilution Factor: 1 Initials: MA

Printed: 08/01/19 10:49:10 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH865
Sample Collection Date: 07/24/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89607
APPL ID: AZ95423
QCG: #SIM53-190729A-242896

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/29/19	07/31/19
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/29/19	07/31/19
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/29/19	07/31/19
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	91.2	39-114			%	07/29/19	07/31/19
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	105	58-120			%	07/29/19	07/31/19

Quant Method: Y0717P.M
Run #: 0717Y314
Instrument: Yoda
Sequence: Y190717P
Dilution Factor: 1
Initials: MA

Printed: 08/01/19 10:49:10 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH844

Sample Collection Date: 07/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89607

APPL ID: AZ95419

QCG: #87DC5-190729A-242929

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	07/29/19	08/01/19
EPA 8270D	SURROGATE: 2,4,6-TRIBROMOPHENO	99.2	43-140			%	07/29/19	08/01/19
EPA 8270D	SURROGATE: 2-FLUOROBIPHENYL (S)	84.5	44-119			%	07/29/19	08/01/19
EPA 8270D	SURROGATE: 2-FLUOROPHENOL (S)	103	19-119			%	07/29/19	08/01/19
EPA 8270D	SURROGATE: NITROBENZENE-D5 (S)	94.5	44-120			%	07/29/19	08/01/19
EPA 8270D	SURROGATE: PHENOL-D6 (S)	104	10-115			%	07/29/19	08/01/19
EPA 8270D	SURROGATE: TERPHENYL-D14 (S)	71.8	50-134			%	07/29/19	08/01/19

Quant Method: Y0722NC.M
Run #: 0722Y159
Instrument: Yoda
Sequence: Y190722
Dilution Factor: 1
Initials: JPR

Printed: 08/01/19 4:24:07 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89607
APPL ID: **AZ95421**
QCG: #87DC5-190729A-242929

Sample ID: ERH861

Sample Collection Date: 07/23/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	07/29/19	08/01/19
EPA 8270D	SURROGATE: 2,4,6-TRIBROMOPHENO	81.5	43-140			%	07/29/19	08/01/19
EPA 8270D	SURROGATE: 2-FLUOROBIPHENYL (S)	70.7	44-119			%	07/29/19	08/01/19
EPA 8270D	SURROGATE: 2-FLUOROPHENOL (S)	67.8	19-119			%	07/29/19	08/01/19
EPA 8270D	SURROGATE: NITROBENZENE-D5 (S)	70.0	44-120			%	07/29/19	08/01/19
EPA 8270D	SURROGATE: PHENOL-D6 (S)	70.7	10-115			%	07/29/19	08/01/19
EPA 8270D	SURROGATE: TERPHENYL-D14 (S)	62.7	50-134			%	07/29/19	08/01/19

Quant Method: Y0722NC.M
Run #: 0722Y160
Instrument: Yoda
Sequence: Y190722
Dilution Factor: 1
Initials: JPR

Printed: 08/01/19 4:24:07 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH865

Sample Collection Date: 07/24/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89607

APPL ID: AZ95423

QCG: #87DC5-190729A-242929

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	07/29/19	08/01/19
EPA 8270D	SURROGATE: 2,4,6-TRIBROMOPHENO	87.8	43-140			%	07/29/19	08/01/19
EPA 8270D	SURROGATE: 2-FLUORBIPHENYL (S)	76.2	44-119			%	07/29/19	08/01/19
EPA 8270D	SURROGATE: 2-FLUOROPHENOL (S)	76.2	19-119			%	07/29/19	08/01/19
EPA 8270D	SURROGATE: NITROBENZENE-D5 (S)	82.2	44-120			%	07/29/19	08/01/19
EPA 8270D	SURROGATE: PHENOL-D6 (S)	78.6	10-115			%	07/29/19	08/01/19
EPA 8270D	SURROGATE: TERPHENYL-D14 (S)	61.1	50-134			%	07/29/19	08/01/19

Quant Method: Y0722NC.M
Run #: 0722Y161
Instrument: Yoda
Sequence: Y190722
Dilution Factor: 1
Initials: JPR

Printed: 08/01/19 4:24:07 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D MODIFIED WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH844

Sample Collection Date: 07/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89607

APPL ID: AZ95419

QCG: #87DME-190726A-242855

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	80.0 U	100	80.0	40.0	ug/L	07/26/19	07/30/19

Quant Method: LMEE0430.M
Run #: 0730L028
Instrument: Linus
Sequence: L190730M
Dilution Factor: 1
Initials: MA

Printed: 07/31/19 11:13:32 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D MODIFIED WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH861

Sample Collection Date: 07/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89607

APPL ID: AZ95421

QCG: #87DME-190726A-242855

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	80.0 U	100	80.0	40.0	ug/L	07/26/19	07/30/19

Quant Method: LMEE0430.M
Run #: 0730L029
Instrument: Linus
Sequence: L190730M
Dilution Factor: 1
Initials: MA

Printed: 07/31/19 11:13:33 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D MODIFIED WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89607

Sample ID: ERH865

APPL ID: AZ95423

Sample Collection Date: 07/24/19

QCG: #87DME-190726A-242855

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	80.0 U	100	80.0	40.0	ug/L	07/26/19	07/30/19

Quant Method: LMEE0430.M
Run #: 0730L030
Instrument: Linus
Sequence: L190730M
Dilution Factor: 1
Initials: MA

Printed: 07/31/19 11:13:33 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH843

Sample Collection Date: 07/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89607

APPL ID: AZ95418

QCG: #86BTO-190730AT-242860

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	07/30/19	07/30/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	07/30/19	07/30/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	07/30/19	07/30/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	07/30/19	07/30/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	92.2	81-118			%	07/30/19	07/30/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	87.5	85-114			%	07/30/19	07/30/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	92.7	80-119			%	07/30/19	07/30/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	90.4	89-112			%	07/30/19	07/30/19

Quant Method: T0726W.M
Run #: 0730T12
Instrument: Thor
Sequence: T190726
Dilution Factor: 1
Initials: DPO

Printed: 07/31/19 12:32:57 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH844

Sample Collection Date: 07/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89607

APPL ID: AZ95419

QCG: #86BTO-190730AT-242860

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	07/30/19	07/30/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	07/30/19	07/30/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	07/30/19	07/30/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	07/30/19	07/30/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	95.7	81-118			%	07/30/19	07/30/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	90.9	85-114			%	07/30/19	07/30/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	97.7	80-119			%	07/30/19	07/30/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	93.7	89-112			%	07/30/19	07/30/19

Quant Method: T0726W.M
Run #: 0730T13
Instrument: Thor
Sequence: T190726
Dilution Factor: 1
Initials: DPO

Printed: 07/31/19 12:32:58 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH860

Sample Collection Date: 07/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89607

APPL ID: AZ95420

QCG: #86BTO-190730AT-242860

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	07/30/19	07/30/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	07/30/19	07/30/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	07/30/19	07/30/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	07/30/19	07/30/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	110	81-118			%	07/30/19	07/30/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	102	85-114			%	07/30/19	07/30/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	109	80-119			%	07/30/19	07/30/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	106	89-112			%	07/30/19	07/30/19

Quant Method: T0726W.M
Run #: 0730T14
Instrument: Thor
Sequence: T190726
Dilution Factor: 1
Initials: DPO

Printed: 07/31/19 12:32:58 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH861
Sample Collection Date: 07/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89607
APPL ID: AZ95421
QCG: #86BTO-190730AT-242860

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	07/30/19	07/30/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	07/30/19	07/30/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	07/30/19	07/30/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	07/30/19	07/30/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	96.7	81-118			%	07/30/19	07/30/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	92.4	85-114			%	07/30/19	07/30/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	98.4	80-119			%	07/30/19	07/30/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	95.8	89-112			%	07/30/19	07/30/19

Quant Method: T0726W.M
Run #: 0730T15
Instrument: Thor
Sequence: T190726
Dilution Factor: 1
Initials: DPO

Printed: 07/31/19 12:32:58 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH864

Sample Collection Date: 07/24/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89607

APPL ID: AZ95422

QCG: #86BTO-190730AT-242860

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	07/30/19	07/30/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	07/30/19	07/30/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	07/30/19	07/30/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	07/30/19	07/30/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	95.5	81-118			%	07/30/19	07/30/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	93.7	85-114			%	07/30/19	07/30/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	97.2	80-119			%	07/30/19	07/30/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	95.0	89-112			%	07/30/19	07/30/19

Quant Method: T0726W.M
Run #: 0730T16
Instrument: Thor
Sequence: T190726
Dilution Factor: 1
Initials: DPO

Printed: 07/31/19 12:32:58 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH865

Sample Collection Date: 07/24/19

ARF: 89607

APPL ID: AZ95423

QCG: #86BTO-190730AT-242860

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	07/30/19	07/30/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	07/30/19	07/30/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	07/30/19	07/30/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	07/30/19	07/30/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	133 #	81-118			%	07/30/19	07/30/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	127 #	85-114			%	07/30/19	07/30/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	135 #	80-119			%	07/30/19	07/30/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	131 #	89-112			%	07/30/19	07/30/19

= Recovery (or RPD) is outside QC limits.

Quant Method: T0726W.M
Run #: 0730T17
Instrument: Thor
Sequence: T190726
Dilution Factor: 1
Initials: DPO

Printed: 07/31/19 12:32:58 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89607
APPL ID: **AZ95418**
QCG: #GRO86-190730AT-242861

Sample ID: ERH843

Sample Collection Date: 07/23/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	07/30/19	07/30/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	87.5	85-114			%	07/30/19	07/30/19

Quant Method: TSUR0726.M
Run #: 0730T12
Instrument: Thor
Sequence: T190726
Dilution Factor: 1
Initials: DPO

Printed: 07/31/19 12:55:37 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH844

Sample Collection Date: 07/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89607

APPL ID: AZ95419

QCG: #GRO86-190730AT-242861

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	07/30/19	07/30/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	90.9	85-114			%	07/30/19	07/30/19

Quant Method: TSUR0726.M
Run #: 0730T13
Instrument: Thor
Sequence: T190726
Dilution Factor: 1
Initials: DPO

Printed: 07/31/19 12:55:37 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH860

Sample Collection Date: 07/23/19

ARF: 89607

APPL ID: AZ95420

QCG: #GRO86-190730AT-242861

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	07/30/19	07/30/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	102	85-114			%	07/30/19	07/30/19

Quant Method: TSUR0726.M
Run #: 0730T14
Instrument: Thor
Sequence: T190726
Dilution Factor: 1
Initials: DPO

Printed: 07/31/19 12:55:37 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH861

Sample Collection Date: 07/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89607

APPL ID: AZ95421

QCG: #GRO86-190730AT-242861

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	07/30/19	07/30/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	92.4	85-114			%	07/30/19	07/30/19

Quant Method: TSUR0726.M
Run #: 0730T15
Instrument: Thor
Sequence: T190726
Dilution Factor: 1
Initials: DPO

Printed: 07/31/19 12:55:37 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH864

Sample Collection Date: 07/24/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89607

APPL ID: AZ95422

QCG: #GRO86-190730AT-242861

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	07/30/19	07/30/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	93.7	85-114			%	07/30/19	07/30/19

Quant Method: TSUR0726.M
Run #: 0730T16
Instrument: Thor
Sequence: T190726
Dilution Factor: 1
Initials: DPO

Printed: 07/31/19 12:55:37 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89607
APPL ID: **AZ95423**
QCG: #GRO86-190730AT-242861

Sample ID: ERH865

Sample Collection Date: 07/24/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	07/30/19	07/30/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	127 #	85-114			%	07/30/19	07/30/19

= Recovery (or RPD) is outside QC limits.

Quant Method: TSUR0726.M
Run #: 0730T17
Instrument: Thor
Sequence: T190726
Dilution Factor: 1
Initials: DPO

Printed: 07/31/19 12:55:37 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89607

Sample ID: ERH843

APPL ID: AZ95418

Sample Collection Date: 07/23/19

QCG: #RSKME-190730A-242833

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	07/30/19	07/30/19

Quant Method: RSK0618.M
Run #: 19073015
Instrument: Rocky
Sequence: 190618
Dilution Factor: 1
Initials: CMO

Printed: 07/30/19 4:16:28 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89607
APPL ID: **AZ95419**
QCG: #RSKME-190730A-242833

Sample ID: **ERH844**

Sample Collection Date: 07/23/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	640	5.0	1.00	0.25	ug/L	07/30/19	07/30/19

Quant Method: RSK0618.M
Run #: 19073016
Instrument: Rocky
Sequence: 190618
Dilution Factor: 1
Initials: CMO

Printed: 07/30/19 4:16:28 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89607

Sample ID: ERH860

APPL ID: AZ95420

Sample Collection Date: 07/23/19

QCG: #RSKME-190730A-242833

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	07/30/19	07/30/19

Quant Method: RSK0618.M
Run #: 19073017
Instrument: Rocky
Sequence: 190618
Dilution Factor: 1
Initials: CMO

Printed: 07/30/19 4:16:28 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH861

Sample Collection Date: 07/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89607

APPL ID: AZ95421

QCG: #RSKME-190730A-242833

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	07/30/19	07/30/19

Quant Method: RSK0618.M
Run #: 19073018
Instrument: Rocky
Sequence: 190618
Dilution Factor: 1
Initials: CMO

Printed: 07/30/19 4:16:28 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH864

Sample Collection Date: 07/24/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89607

APPL ID: AZ95422

QCG: #RSKME-190730A-242833

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	07/30/19	07/30/19

Quant Method: RSK0618.M
Run #: 19073019
Instrument: Rocky
Sequence: 190618
Dilution Factor: 1
Initials: CMO

Printed: 07/30/19 4:16:28 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89607
APPL ID: **AZ95423**
QCG: #RSKME-190730A-242833

Sample ID: ERH865

Sample Collection Date: 07/24/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	07/30/19	07/30/19

Quant Method: RSK0618.M
Run #: 19073020
Instrument: Rocky
Sequence: 190618
Dilution Factor: 1
Initials: CMO

Printed: 07/30/19 4:16:28 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH844

Sample Collection Date: 07/23/19

APPL ID: AZ95419

ARF: 89607

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 300.0	CHLORIDE	40.8	1.0	0.20	0.08	mg/L	1	08/03/19	08/03/19
EPA 300.0	NITRATE	0.18 U	0.5	0.18	0.04	mg/L	1	08/03/19	08/03/19
EPA 300.0	SULFATE	4.5	1.0	0.20	0.09	mg/L	1	08/03/19	08/03/19

Printed: 08/23/19 4:14:02 PM

APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH861

Sample Collection Date: 07/23/19

APPL ID: AZ95421

ARF: 89607

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 300.0	NITRATE	2.5	0.5	0.18	0.04	mg/L	1	08/03/19	08/03/19
EPA 300.0	SULFATE	9.1	1.0	0.20	0.09	mg/L	1	08/03/19	08/03/19
EPA 300.0	CHLORIDE	53.0	10.0	2.00	0.80	mg/L	10	08/03/19	08/03/19

Printed: 08/23/19 4:14:02 PM

APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH865

Sample Collection Date: 07/24/19

APPL ID: AZ95423

ARF: 89607

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 300.0	NITRATE	3.1	0.5	0.18	0.04	mg/L	1	08/03/19	08/03/19
EPA 300.0	CHLORIDE	1090	150.0	30.00	12.00	mg/L	150	08/03/19	08/03/19
EPA 300.0	SULFATE	347	150.0	30.00	13.50	mg/L	150	08/03/19	08/03/19

Printed: 08/23/19 4:14:02 PM

APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH844

Sample Collection Date: 07/23/19

APPL ID: AZ95419

ARF: 89607

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 353.2	NITRATE-NITRITE-N	0.090 U	0.10	0.090	0.028	mg/L	1	07/31/19	07/31/19
SM 2320B	BICARBONATE AS CaCO ₃	83.2	2.0	1.70	0.85	mg/L	1	07/31/19	07/31/19
SM 2320B	CARBONATE AS CaCO ₃	1.70 U	2.0	1.70	0.85	mg/L	1	07/31/19	07/31/19
SM 2320B	TOTAL ALKALINITY AS CaCO ₃	83.2	2.0	1.70	0.85	mg/L	1	07/31/19	07/31/19
SM3500FeB	FERROUS IRON	0.49 J	1.0	0.32	0.16	mg/L	1	07/26/19	07/26/19
SW846 9060A	TOTAL ORGANIC CARBON	0.91 J	0.93	0.350	0.130	mg/L	1	08/05/19	08/05/19

J = Estimated value.

Printed: 08/23/19 4:22:54 PM

APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH861

Sample Collection Date: 07/23/19

APPL ID: AZ95421

ARF: 89607

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 353.2	NITRATE-NITRITE-N	0.33	0.10	0.090	0.028	mg/L	1	07/31/19	07/31/19
SM 2320B	BICARBONATE AS CaCO3	61.7	2.0	1.70	0.85	mg/L	1	07/31/19	07/31/19
SM 2320B	CARBONATE AS CaCO3	1.70 U	2.0	1.70	0.85	mg/L	1	07/31/19	07/31/19
SM 2320B	TOTAL ALKALINITY AS CaCO	61.7	2.0	1.70	0.85	mg/L	1	07/31/19	07/31/19
SM3500FeB	FERROUS IRON	0.32 U	1.0	0.32	0.16	mg/L	1	07/26/19	07/26/19
SW846 9060A	TOTAL ORGANIC CARBON	0.39 J	0.93	0.350	0.130	mg/L	1	08/05/19	08/06/19

J = Estimated value.

Printed: 08/23/19 4:22:54 PM

APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH865

Sample Collection Date: 07/24/19

APPL ID: AZ95423

ARF: 89607

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 353.2	NITRATE-NITRITE-N	1.7	0.10	0.090	0.028	mg/L	1	07/31/19	07/31/19
SM 2320B	BICARBONATE AS CaCO3	154	2.0	1.70	0.85	mg/L	1	07/31/19	07/31/19
SM 2320B	CARBONATE AS CaCO3	1.70 U	2.0	1.70	0.85	mg/L	1	07/31/19	07/31/19
SM 2320B	TOTAL ALKALINITY AS CaCO	154	2.0	1.70	0.85	mg/L	1	07/31/19	07/31/19
SM3500FeB	FERROUS IRON	0.32 U	1.0	0.32	0.16	mg/L	1	07/26/19	07/26/19
SW846 9060A	TOTAL ORGANIC CARBON	0.95	0.93	0.350	0.130	mg/L	1	08/05/19	08/06/19

Printed: 08/23/19 4:22:54 PM

APPL-F1-SC-NoMC-REG MDLs

QC FORMS

EPA 8015B-eLL

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 07/30/19

Matrix: WATER

Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: OCTACOSANE (S)			SURROGATE: ORTHO-TERPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190727A-BLK	Blank	60-142	106		56-125	81.7	
190727A-LCS	Lab Control Spike	60-142	124		56-125	98.8	
190727A-LCSD	Lab Control SpikeD	60-142	140		56-125	98.9	
AZ95419	ERH844	60-142	94.4		56-125	85.6	
AZ95421	ERH861	60-142	93.9		56-125	83.8	
AZ95423	ERH865	60-142	105		56-125	84.9	

Comments: Batch: #DOC53-190727A

Printed: 08/08/19 11:46:42 AM
Form 2 & 8, Surrogate Recovery Summary

EPA 8015B-eLL

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 08/21/19

Matrix: WATER

Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: ORTHO-TERPHENYL (S)					
		Limits	Result	Qualifier	Limits	Result	Qualifier
190727A1-BLK	Blank	56-125	107				
190727A1-LCS	Lab Control Spike	56-125	106				
190727A1-LCSD	Lab Control SpikeD	56-125	107				
AZ95419	ERH844	56-125	110				
AZ95423	ERH865	56-125	113				

Comments: Batch: #DOC53-190727A1

Printed: 08/26/19 2:50:30 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8015B-eL

Form 4

Blank Summary

Lab Name: APPL, Inc.
Case No: 89607
Matrix: WATER
Blank ID: 190727A-BLK

SDG No: 89607
Date Analyzed: 07/30/19
Instrument: Apollo
Time Analyzed: 1838

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190727A-BLK	Blank	713254	07/30/19 1838
190727A-LCS	Lab Control Spike	713255	07/30/19 1858
190727A-LCSD	Lab Control SpikeD	713256	07/30/19 1917
AZ95419	ERH844	713269	07/30/19 2336
AZ95421	ERH861	713270	07/30/19 2356
AZ95423	ERH865	713271	07/31/19 0016

Comments: Batch: #DOC53-190727A

EPA 8015B-eL

Form 4

Blank Summary

Lab Name: APPL, Inc.
Case No: 89607
Matrix: WATER
Blank ID: 190727A1-BLK

SDG No: 89607
Date Analyzed: 08/21/19
Instrument: Apollo
Time Analyzed: 0026

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190727A1-BLK	Blank	814150	08/21/19 0026
190727A1-LCS	Lab Control Spike	814151	08/21/19 0045
190727A1-LCSD	Lab Control SpikeD	814152	08/21/19 0105
AZ95419	ERH844	814156	08/21/19 0224
AZ95423	ERH865	814157	08/21/19 0244

Comments: Batch: #DOC53-190727A1

Method Blank
EPA 8015B TPH LIQ-LIQ

Blank Name/QCG: **190727W-95189 - 243221**
Batch ID: #DOC53-190727A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	DIESEL (C10-C24)	25.00 U	40.0	25.00	13.07	ug/L	07/27/19	07/30/19
BLANK	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	07/27/19	07/30/19
BLANK	SURROGATE: OCTACOSANE (S)	106	60-142			%	07/27/19	07/30/19
BLANK	SURROGATE: ORTHO-TERPHEN	81.7	56-125			%	07/27/19	07/30/19

Quant Method:DOC0617.M
Run #:713254
Instrument:Apollo
Sequence:190713
Initials:BTI

GC SC-Blank-REG MDLs-DOD
Printed: 08/08/19 11:46:41 AM

Method Blank
EPA 8015B TPH WATER L-L SGC

Blank Name/QCG: **190727W-95329 - 243920**
Batch ID: #DOC53-190727A1

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	DIESEL (C10-C24)	25.00 U	40.0	25.00	13.07	ug/L	07/27/19	08/21/19
BLANK	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	07/27/19	08/21/19
BLANK	SURROGATE: (R) DECANOIC AC	0.0	0-1			%	07/27/19	08/21/19
BLANK	SURROGATE: OCTACOSANE (S)	105	60-142			%	07/27/19	08/21/19
BLANK	SURROGATE: ORTHO-TERPHEN	107	56-125			%	07/27/19	08/21/19

Quant Method:DOC0617.M
Run #:814150
Instrument:Apollo
Sequence:190814
Initials:BTI

GC SC-Blank-REG MDLs-DOD
Printed: 08/26/19 2:50:29 PM

EPA 8015B-eL

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 07/30/19

Matrix: WATER

Instrument: Apollo

LCS ID: 190727A-LCS

Time Analyzed: 1858

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190727A-BLK	Blank	713254	07/30/19 1838
190727A-LCS	Lab Control Spike	713255	07/30/19 1858
190727A-LCSD	Lab Control Spiked	713256	07/30/19 1917
AZ95419	ERH844	713269	07/30/19 2336
AZ95421	ERH861	713270	07/30/19 2356
AZ95423	ERH865	713271	07/31/19 0016

Comments: Batch: #DOC53-190727A

Printed: 08/08/19 11:47:06 AM
Form 4, LCS Summary

EPA 8015B-eL

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 08/21/19

Matrix: WATER

Instrument: Apollo

LCS ID: 190727A1-LCS

Time Analyzed: 0045

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190727A1-BLK	Blank	814150	08/21/19 0026
190727A1-LCS	Lab Control Spike	814151	08/21/19 0045
190727A1-LCSD	Lab Control Spiked	814152	08/21/19 0105
AZ95419	ERH844	814156	08/21/19 0224
AZ95423	ERH865	814157	08/21/19 0244

Comments: Batch: #DOC53-190727A1

Printed: 08/26/19 2:50:52 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8015B TPH LIQ-LIQ

APPL ID: 190727W-95189 LCS - 243221
 Batch ID: #DOC53-190727A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
DIESEL (C10-C24)	1250	1140	1140	91.2	91.2	36-132	0.0	30
OIL (C24-C40)	1250	1190	1260	95.2	101	41-113	5.7	30
SURROGATE: OCTACOSANE (S)	75.0	92.7	105	124	140	60-142		
SURROGATE: ORTHO-TERPHENYL (S)	75.0	74.1	74.2	98.8	98.9	56-125		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	DOC0617.M	DOC0617.M
Extraction Date :	07/27/19	07/27/19
Analysis Date :	07/30/19	07/30/19
Instrument :	Apollo	Apollo
Run :	713255	713256
Initials :	BTI	

Laboratory Control Spike Recoveries
EPA 8015B TPH WATER L-L SGC

APPL ID: 190727W-95329 LCS - 243920
 Batch ID: #DOC53-190727A1

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
DIESEL (C10-C24)	1250	1220	1240	97.6	99.2	36-132	1.6	30
OIL (C24-C40)	1250	1210	1230	96.8	98.4	41-113	1.6	30

SURROGATE: (R) DECANOIC ACID (S)	10.00	0	0	0.0	0.0	0-1		
SURROGATE: OCTACOSANE (S)	75.0	79.2	79.3	106	106	60-142		
SURROGATE: ORTHO-TERPHENYL (S)	75.0	79.8	80.1	106	107	56-125		

Comments: _____

	<u>SPK</u>	<u>DUP</u>
Quant Method :	DOC0617.M	DOC0617.M
Extraction Date :	07/27/19	07/27/19
Analysis Date :	08/21/19	08/21/19
Instrument :	Apollo	Apollo
Run :	814151	814152
Initials :	BTI	

8270D-SIM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 07/31/19

Matrix: WATER

Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: 2-METHYLNAPHTHALENE-D10 (S)			SURROGATE: FLUORANTHENE-D10 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190729A-BLK	Blank	39-114	92.1		58-120	99.4	
190729A-LCS	Lab Control Spike	39-114	92.0		58-120	109	
190729A-LCSD	Lab Control SpikeD	39-114	92.2		58-120	108	
AZ95419	ERH844	39-114	101		58-120	111	
AZ95421	ERH861	39-114	91.2		58-120	104	
AZ95423	ERH865	39-114	91.2		58-120	105	

Comments: Batch: #SIM53-190729A

Printed: 08/01/19 10:49:14 AM
Form 2 & 8, Surrogate Recovery Summary

8270D-SIM

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 07/31/19

Matrix: WATER

Instrument: Yoda

Blank ID: 190729A-BLK

Time Analyzed: 1652

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190729A-BLK	Blank	0717Y309	07/31/19 1652
190729A-LCS	Lab Control Spike	0717Y310	07/31/19 1715
190729A-LCSD	Lab Control SpikeD	0717Y311	07/31/19 1739
AZ95419	ERH844	0717Y312	07/31/19 1802
AZ95421	ERH861	0717Y313	07/31/19 1825
AZ95423	ERH865	0717Y314	07/31/19 1849

Comments: Batch: #SIM53-190729A

Printed: 08/01/19 10:49:15 AM
Form 4, Blank Summary

Method Blank
EPA 8270D SIM LIQ-LIQ

Blank Name/QCG: **190729W-95419 - 242896**
Batch ID: #SIM53-190729A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/29/19	07/31/19
BLANK	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/29/19	07/31/19
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/29/19	07/31/19
BLANK	SURROGATE: 2-METHYLNAPHT	92.1	39-114			%	07/29/19	07/31/19
BLANK	SURROGATE: FLUORANTHENE-	99.4	58-120			%	07/29/19	07/31/19

Quant Method: Y0717P.M
Run #: 0717Y309
Instrument: Yoda
Sequence: Y190717P
Initials: MA

GC SC-Blank-REG MDLs-DOD
Printed: 08/01/19 10:49:08 AM

8270D-SIM

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 07/31/19

Matrix: WATER

Instrument: Yoda

LCS ID: 190729A-LCS

Time Analyzed: 1715

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190729A-BLK	Blank	0717Y309	07/31/19 1652
190729A-LCS	Lab Control Spike	0717Y310	07/31/19 1715
190729A-LCSD	Lab Control SpikeD	0717Y311	07/31/19 1739
AZ95419	ERH844	0717Y312	07/31/19 1802
AZ95421	ERH861	0717Y313	07/31/19 1825
AZ95423	ERH865	0717Y314	07/31/19 1849

Comments: Batch: #SIM53-190729A

Printed: 08/01/19 10:49:16 AM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8270D SIM LIQ-LIQ

APPL ID: 190729W-95419 LCS - 242896
 Batch ID: #SIM53-190729A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1-METHYLNAPHTHALENE	6.25	3.44	3.37	55.0	53.9	41-115	2.1	20
2-METHYLNAPHTHALENE	6.25	4.24	4.16	67.8	66.6	39-114	1.9	20
NAPHTHALENE	6.25	3.74	3.65	59.8	58.4	43-114	2.4	20

SURROGATE: 2-METHYLNAPHTHALEN	6.25	5.75	5.76	92.0	92.2	39-114		
SURROGATE: FLUORANTHENE-D10 (S)	6.25	6.84	6.77	109	108	58-120		

Comments: _____

	<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :		Y0717P.M	Y0717P.M
Extraction Date :		07/29/19	07/29/19
Analysis Date :		07/31/19	07/31/19
Instrument :		Yoda	Yoda
Run :		0717Y310	0717Y311
Initials :		MA	

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: _____
 Matrix: Soil
 ID: 0717Y002.D

SDG No: _____
 Date Analyzed: 07/17/19
 Instrument: Yoda
 Time Analyzed: 9:34

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	0.1 SIM 07/10/19	0717Y003.D	07/17/19 9:51
2	0.2 SIM 07/10/19	0717Y004.D	07/17/19 10:14
3	0.5 SIM 07/10/19	0717Y005.D	07/17/19 10:38
4	1.0 SIM 07/10/19	0717Y006.D	07/17/19 11:01
5	5.0 SIM 07/10/19	0717Y007.D	07/17/19 11:25
6	10 SIM 07/10/19	0717Y008.D	07/17/19 11:48
7	50 SIM 07/10/19	0717Y009.D	07/17/19 12:11
8	100 SIM 07/10/19	0717Y010.D	07/17/19 12:35
9	SS SIM 07/10/19	0717Y012.D	07/17/19 13:32
10			
11			
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21			
22			

m/e

51 10 - 80% of mass 198	25.9
68 0 - 2% of mass 69	0.0
70 0 - 2% of mass 69	0.5
127 10 - 80% of mass 198	42.1
197 0 - 2% of mass 198	0.0
198 100 - 100% of mass 198	100.0
199 5 - 9% of mass 198	6.7
275 10 - 60% of mass 198	34.0
365 1 - 100% of mass 198	4.6
441 0.01 - 24% of mass 442	16.2
442 50 - 500% of mass 198	178.7
443 17 - 23% of mass 442	19.8

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: 89624
 Matrix: Water
 ID: 0717Y304.D

SDG No: 89624
 Date Analyzed: 7/31/2019
 Instrument: Yoda
 Time Analyzed: 14:35

Client Sample No.	APPL ID.	File ID.	Date Analyzed	
1	5.0 SIM 07/10/19 (2)	0717Y305.D	7/31/2019 14:49	
2	Blank	190729A BLK 1/800	0717Y309.D	7/31/2019 16:52
3	Lab Control Spike	190729A LCS-2 1/800	0717Y310.D	7/31/2019 17:15
4	Lab Control SpikeD	190729A LCSD-2 1/800	0717Y311.D	7/31/2019 17:39
5	ERH863	AZ95511W15 1/800	0717Y315.D	7/31/2019 19:12
6	ERH867	AZ95513W13 1/800	0717Y316.D	7/31/2019 19:35
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22				

m/e

51 10 - 80% of mass 198	<u>24.3</u>
68 0 - 2% of mass 69	<u>0.0</u>
70 0 - 2% of mass 69	<u>0.6</u>
127 10 - 80% of mass 198	<u>41.9</u>
197 0 - 2% of mass 198	<u>0.0</u>
198 100 - 100% of mass 198	<u>100.0</u>
199 5 - 9% of mass 198	<u>6.7</u>
275 10 - 60% of mass 198	<u>34.1</u>
365 1 - 100% of mass 198	<u>4.6</u>
441 0.01 - 24% of mass 442	<u>16.4</u>
442 50 - 500% of mass 198	<u>208.8</u>
443 17 - 23% of mass 442	<u>19.6</u>

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89607
 Lab File ID (Standard): 0717Y305.D Date Analyzed: 07/31/19
 Instrument ID: Yoda Time Analyzed: 14:49
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

		Napthalene-D8(IS)		Acenaphthene-D10(IS)		Phenanthrene-D10(IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	58657	4.53	31984	6.66	63332	8.42
	UPPER LIMIT	117314	4.70	63968	6.83	126664	8.59
	LOWER LIMIT	29329	4.36	15992	6.49	31666	8.25
	SAMPLE NO.						
01	190729A BLK 1/800	64703	4.53	36203	6.68	74104	8.44
02	190729A LCS-2 1/800	63429	4.52	34007	6.66	67782	8.42
03	190729A LCSD-2 1/800	62289	4.52	32921	6.66	69173	8.41
04	AZ95419W08 1/800	59193	4.53	32767	6.66	67437	8.42
05	AZ95421W08 1/800	61206	4.52	33531	6.67	67492	8.43
06	AZ95423W10 1/800	61856	4.53	33426	6.66	68171	8.42
07	5.0 SIM 07/10/19 (1)	82076	4.53	43132	6.66	90418	8.41
08							
09							
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22							

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89607
 Lab File ID (Standard): 0717Y305.D Date Analyzed: 07/31/19
 Instrument ID: Yoda Time Analyzed: 14:49
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

	Chrysene-D12(IS)		Perylene-D12(IS)		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12 HOUR STD	87323	11.68	95940	14.21		
UPPER LIMIT	174646	11.85	191880	14.38		
LOWER LIMIT	43662	11.51	47970	14.04		
SAMPLE NO.						
01 190729A BLK 1/800	101497	11.70	111953	14.22		
02 190729A LCS-2 1/800	95613	11.68	103596	14.21		
03 190729A LCSD-2 1/800	92693	11.68	100080	14.21		
04 AZ95419W08 1/800	94603	11.69	101207	14.21		
05 AZ95421W08 1/800	95239	11.69	103086	14.21		
06 AZ95423W10 1/800	95478	11.69	104297	14.21		
07 5.0 SIM 07/10/19 (1)	123322	11.68	131754	14.21		
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09						
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20						
21						
22						

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

EPA 8270D

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 08/01/19

Matrix: WATER

Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: 2,4,6-TRIBROMOPHENOL (S)			SURROGATE: 2-FLUORBIPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190729A-BLK	Blank	43-140	92.6		44-119	81.0	
190729A-LCS	Lab Control Spike	43-140	98.4		44-119	81.6	
190729A-LCSD	Lab Control SpikeD	43-140	94.0		44-119	78.8	
AZ95419	ERH844	43-140	99.2		44-119	84.5	
AZ95421	ERH861	43-140	81.5		44-119	70.7	
AZ95423	ERH865	43-140	87.8		44-119	76.2	

Comments: Batch: #87DC5-190729A

Printed: 08/01/19 4:24:13 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8270D

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 08/01/19

Matrix: WATER

Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: 2-FLUOROPHENOL (S)			SURROGATE: NITROBENZENE-D5 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190729A-BLK	Blank	19-119	83.0		44-120	88.1	
190729A-LCS	Lab Control Spike	19-119	91.6		44-120	91.2	
190729A-LCSD	Lab Control SpikeD	19-119	83.2		44-120	82.4	
AZ95419	ERH844	19-119	103		44-120	94.5	
AZ95421	ERH861	19-119	67.8		44-120	70.0	
AZ95423	ERH865	19-119	76.2		44-120	82.2	

Comments: Batch: #87DC5-190729A

Printed: 08/01/19 4:24:13 PM

Form 2 & 8, Surrogate Recovery Summary

EPA 8270D

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 08/01/19

Matrix: WATER

Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: PHENOL-D6 (S)			SURROGATE: TERPHENYL-D14 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190729A-BLK	Blank	10-115	83.6		50-134	69.4	
190729A-LCS	Lab Control Spike	10-115	91.6		50-134	78.0	
190729A-LCSD	Lab Control SpikeD	10-115	83.2		50-134	75.0	
AZ95419	ERH844	10-115	104		50-134	71.8	
AZ95421	ERH861	10-115	70.7		50-134	62.7	
AZ95423	ERH865	10-115	78.6		50-134	61.1	

Comments: Batch: #87DC5-190729A

Printed: 08/01/19 4:24:13 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8270D

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 08/01/19

Matrix: WATER

Instrument: Yoda

Blank ID: 190729A-BLK

Time Analyzed: 1042

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190729A-BLK	Blank	0722Y156	08/01/19 1042
190729A-LCS	Lab Control Spike	0722Y157	08/01/19 1110
190729A-LCSD	Lab Control SpikeD	0722Y158	08/01/19 1138
AZ95419	ERH844	0722Y159	08/01/19 1206
AZ95421	ERH861	0722Y160	08/01/19 1234
AZ95423	ERH865	0722Y161	08/01/19 1302

Comments: Batch: #87DC5-190729A

Printed: 08/01/19 4:24:22 PM
Form 4, Blank Summary

Method Blank
EPA 8270D WATER

Blank Name/QCG: **190729W-95419 - 242929**
Batch ID: #87DC5-190729A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	07/29/19	08/01/19
BLANK	SURROGATE: 2,4,6-TRIBROMOP	92.6	43-140			%	07/29/19	08/01/19
BLANK	SURROGATE: 2-FLUORBIPHENY	81.0	44-119			%	07/29/19	08/01/19
BLANK	SURROGATE: 2-FLUOROPHENO	83.0	19-119			%	07/29/19	08/01/19
BLANK	SURROGATE: NITROBENZENE-	88.1	44-120			%	07/29/19	08/01/19
BLANK	SURROGATE: PHENOL-D6 (S)	83.6	10-115			%	07/29/19	08/01/19
BLANK	SURROGATE: TERPHENYL-D14 (	69.4	50-134			%	07/29/19	08/01/19

Quant Method: Y0722NC.M
Run #: 0722Y156
Instrument: Yoda
Sequence: Y190722
Initials: JPR

GC SC-Blank-REG MDLs-DOD
Printed: 08/01/19 4:24:25 PM

EPA 8270D

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 08/01/19

Matrix: WATER

Instrument: Yoda

LCS ID: 190729A-LCS

Time Analyzed: 1110

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190729A-BLK	Blank	0722Y156	08/01/19 1042
190729A-LCS	Lab Control Spike	0722Y157	08/01/19 1110
190729A-LCSD	Lab Control SpikeD	0722Y158	08/01/19 1138
AZ95419	ERH844	0722Y159	08/01/19 1206
AZ95421	ERH861	0722Y160	08/01/19 1234
AZ95423	ERH865	0722Y161	08/01/19 1302

Comments: Batch: #87DC5-190729A

Printed: 08/01/19 4:24:29 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8270D WATER

APPL ID: 190729W-95419 LCS - 242929
 Batch ID: #87DC5-190729A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
PHENOL	62.5	61.9	55.8	99.0	89.3	10-115	10.4	20
SURROGATE: 2,4,6-TRIBROMOPHENOL	250	246	235	98.4	94.0	43-140		
SURROGATE: 2-FLUOROBIPHENYL (S)	125	102	98.5	81.6	78.8	44-119		
SURROGATE: 2-FLUOROPHENOL (S)	250	229	208	91.6	83.2	19-119		
SURROGATE: NITROBENZENE-D5 (S)	125	114	103	91.2	82.4	44-120		
SURROGATE: PHENOL-D6 (S)	250	229	208	91.6	83.2	10-115		
SURROGATE: TERPHENYL-D14 (S)	125	97.5	93.7	78.0	75.0	50-134		

Comments:

Primary	SPK	DUP
Quant Method :	Y0722NC.M	Y0722NC.M
Extraction Date :	07/29/19	07/29/19
Analysis Date :	08/01/19	08/01/19
Instrument :	Yoda	Yoda
Run :	0722Y157	0722Y158
Initials :	JPR	

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: _____
 Matrix: Soil
 ID: 0722Y002.D

SDG No: _____
 Date Analyzed: 07/22/19
 Instrument: Yoda
 Time Analyzed: 13:46

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	4ug/ml 8270 07/12/19	0722Y003.D	07/22/19 14:01
2	5ug/ml 8270 07/12/19	0722Y004.D	07/22/19 14:29
3	10ug/ml 8270 07/12/1	0722Y005.D	07/22/19 14:57
4	20ug/ml 8270 07/12/1	0722Y006.D	07/22/19 15:25
5	40ug/ml 8270 07/12/1	0722Y007.D	07/22/19 15:53
6	50ug/ml 8270 07/12/1	0722Y008.D	07/22/19 16:21
7	60ug/ml 8270 07/12/1	0722Y009.D	07/22/19 16:49
8	80ug/ml 8270 07/12/1	0722Y010.D	07/22/19 17:17
9	100ug/ml 8270 07/12/1	0722Y011.D	07/22/19 17:45
10	SS 8270 07/12/19	0722Y012.D	07/22/19 18:13
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m/e

51 9.95 - 80.04% of mass 198	<u>26.6</u>
68 0 - 2% of mass 69	<u>0.0</u>
70 0 - 2% of mass 69	<u>0.5</u>
127 10 - 80% of mass 198	<u>42.2</u>
197 0 - 2% of mass 198	<u>0.0</u>
198 100 - 100% of mass 198	<u>100.0</u>
199 5 - 9% of mass 198	<u>6.7</u>
275 10 - 60% of mass 198	<u>32.8</u>
365 1 - 100% of mass 198	<u>4.2</u>
441 0.01 - 24% of mass 442	<u>16.1</u>
442 50 - 500% of mass 198	<u>176.3</u>
443 15 - 24% of mass 442	<u>19.5</u>

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 89607
Matrix: Water
ID: 0722Y154.D

SDG No: 89607
Date Analyzed: 08/01/19
Instrument: Yoda
Time Analyzed: 9:35

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	50ug/ml 8270 07/12/1	0722Y155.D	08/01/19 10:00
2	Blank	190729A BLK 1/800	0722Y156.D
3	Lab Control Spike	190729A LCS-1 1/800	0722Y157.D
4	Lab Control SpikeD	190729A LCSD-1 1/800	0722Y158.D
5	ERH844	AZ95419W08 1/800	0722Y159.D
6	ERH861	AZ95421W08 1/800	0722Y160.D
7	ERH865	AZ95423W10 1/800	0722Y161.D
8	50ug/ml 8270 07/12/1	0722Y167.D	08/01/19 15:50
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20			
21			
22			

m/e

51 9.95 - 80.04% of mass 198	24.9
68 0 - 2% of mass 69	0.0
70 0 - 2% of mass 69	0.2
127 10 - 80% of mass 198	42.2
197 0 - 2% of mass 198	0.0
198 100 - 100% of mass 198	100.0
199 5 - 9% of mass 198	6.8
275 10 - 60% of mass 198	33.6
365 1 - 100% of mass 198	4.6
441 0.01 - 24% of mass 442	16.5
442 50 - 500% of mass 198	196.7
443 15 - 24% of mass 442	19.8

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89607
 Lab File ID (Standard): 0722Y155.D Date Analyzed: 1 Aug 19 10:00
 Instrument ID: Yoda Time Analyzed: 1 Aug 19 10:00
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

		1,4-dichlorobenzene-D4(IS)		Napthalene-D8(IS)		Acenaphthene-D10(IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		306943	4.98	1210020	6.44	678921	8.47
UPPER LIMIT		613886	5.15	2420040	6.61	1357842	8.64
LOWER LIMIT		153472	4.81	605010	6.27	339461	8.30
SAMPLE NO.							
01	190729A BLK 1/800	259957	4.97	1121560	6.44	690767	8.47
02	190729A LCS-1 1/800	245598	4.97	1065590	6.43	686301	8.46
03	190729A LCSD-1 1/800	265350	4.96	1142010	6.43	692648	8.46
04	AZ95419W08 1/800	213534	4.97	1028740	6.43	653902	8.47
05	AZ95421W08 1/800	295407	4.97	1290120	6.43	728640	8.46
06	AZ95423W10 1/800	263764	4.97	1105320	6.43	684462	8.46
07	50ug/ml 8270 07/12/19 (	362954	4.97	1425260	6.43	817480	8.47
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

*Perylene failure does not affect target analyte quantitation

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89607
 Lab File ID (Standard): 0722Y155.D Date Analyzed: 1 Aug 19 10:00
 Instrument ID: Yoda Time Analyzed: 1 Aug 19 10:00
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

	Phenanthrene-D10(IS)		Chrysene-D12(IS)		Perylene-D12(IS)						
	AREA	#	RT	#	AREA	#		RT	#		
12 HOUR STD	1382140		10.21		1270720		13.32		1509280		15.05
UPPER LIMIT	2764280		10.38		2541440		13.49		3018560		15.22
LOWER LIMIT	691070		10.04		635360		13.15		754640		14.88
SAMPLE NO.											
01	190729A BLK 1/800	1442370		10.21	1456590		13.32		1567060		15.04
02	190729A LCS-1 1/800	1437800		10.21	1343240		13.32		1608090		15.04
03	190729A LCSD-1 1/800	1440630		10.21	1350110		13.32		1593480		15.04
04	AZ95419W08 1/800	1369680		10.20	1359170		13.31		636653|*		15.03
05	AZ95421W08 1/800	1466640		10.21	1465620		13.31		1601780		15.04
06	AZ95423W10 1/800	1421910		10.21	1421350		13.31		1572940		15.03
07	50ug/ml 8270 07/12/19 (	1670400		10.21	1557000		13.32		1850220		15.04
08											
09											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											

Not rechecked
7/26/15

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

EPA 8270D

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 07/30/19

Matrix: WATER

Instrument: Linus

Blank ID: 190726A-BLK

Time Analyzed: 1645

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190726A-BLK	Blank	0730L014	07/30/19 1645
190726A-LCS	Lab Control Spike	0730L015	07/30/19 1709
190726A-LCSD	Lab Control SpikeD	0730L016	07/30/19 1732
AZ95419	ERH844	0730L028	07/30/19 2210
AZ95421	ERH861	0730L029	07/30/19 2233
AZ95423	ERH865	0730L030	07/30/19 2256

Comments: Batch: #87DME-190726A

Printed: 07/31/19 11:13:36 AM
Form 4, Blank Summary

Method Blank
EPA 8270D MODIFIED WATER

Blank Name/QCG: **190726W-95189 - 242855**
Batch ID: #87DME-190726A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	2-(2-METHOXYETHOXY)-ETHAN	80.0 U	100	80.0	40.0	ug/L	07/26/19	07/30/19

Quant Method: LMEE0430.M
Run #: 0730L014
Instrument: Linus
Sequence: L190730M
Initials: MA

GC SC-Blank-REG MDLs-DOD
Printed: 07/31/19 11:13:31 AM

EPA 8270D

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 07/30/19

Matrix: WATER

Instrument: Linus

LCS ID: 190726A-LCS

Time Analyzed: 1709

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190726A-BLK	Blank	0730L014	07/30/19 1645
190726A-LCS	Lab Control Spike	0730L015	07/30/19 1709
190726A-LCSD	Lab Control SpikeD	0730L016	07/30/19 1732
AZ95419	ERH844	0730L028	07/30/19 2210
AZ95421	ERH861	0730L029	07/30/19 2233
AZ95423	ERH865	0730L030	07/30/19 2256

Comments: Batch: #87DME-190726A

Printed: 07/31/19 11:13:37 AM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8270D MODIFIED WATER

APPL ID: 190726W-95189 LCS - 242855
 Batch ID: #87DME-190726A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
2-(2-METHOXYETHOXY)-ETHANOL	80.0	103	121	129	151 #	30-130	16.1	20

= Recovery is outside QC limits.

Comments:

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	LMEE0430.M	LMEE0430.M
Extraction Date :	07/26/19	07/26/19
Analysis Date :	07/30/19	07/30/19
Instrument :	Linus	Linus
Run :	0730L015	0730L016
Initials :	MA	

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: 89607
 Matrix: Water
 ID: 0730L013.D

SDG No: 89607
 Date Analyzed: 7/30/2019
 Instrument: Linus
 Time Analyzed: 16:20

Client Sample No.	APPL ID.	File ID.	Date Analyzed	
1	Blank	190726A BLK 2/500	0730L014.D	7/30/2019 16:45
2	Lab Control Spike	190726A LCS-1 2/500	0730L015.D	7/30/2019 17:09
3	Lab Control SpikeD	190726A LCSD-1 2/500	0730L016.D	7/30/2019 17:32
4	ERH844	AZ95419W15 2/500	0730L028.D	7/30/2019 22:10
5	ERH861	AZ95421W15 2/500	0730L029.D	7/30/2019 22:33
6	ERH865	AZ95423W15 2/500	0730L030.D	7/30/2019 22:56
7		500ug/ml MEE 04/30/1	0730L031.D	7/30/2019 23:19
8				
9				
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11				
12				
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14				
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17				
18				
19				
20				
21				
22				

m/e

51 10 - 80% of mass 198	12.6
68 0 - 2% of mass 69	0.0
69 100 - 100% of mass 69	100.0
70 0 - 2% of mass 69	0.3
127 10 - 80% of mass 198	33.4
197 0 - 2% of mass 198	0.0
198 100 - 100% of mass 198	100.0
199 5 - 9% of mass 198	6.7
275 10 - 60% of mass 198	33.7
365 1 - 100% of mass 198	4.5
441 0.01 - 24% of mass 442	15.4
442 50 - 500% of mass 198	221.2
443 15 - 24% of mass 442	19.5

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89607
 Lab File ID (Standard): 0730L007.D Date Analyzed: 07/30/19
 Instrument ID: Linus Time Analyzed: 14:04
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

	1,4-dichlorobenzene-D4(IS)		Naphthalene-D8(IS)		Acenaphthene-D10(IS)		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12 HOUR STD	1382830	6.13	4970140	7.05	3606290	8.42	
UPPER LIMIT	2765660	6.30	9940280	7.22	7212580	8.59	
LOWER LIMIT	691415	5.96	2485070	6.88	1803145	8.25	
SAMPLE NO.							
01	190726A BLK 2/500	1336800	6.14	4953760	7.06	3582060	8.42
02	190726A LCS-1 2/500	1275340	6.14	4717280	7.06	3276410	8.42
03	190726A LCSD-1 2/500	1099450	6.14	4328760	7.06	3177080	8.42
04	AZ95419W15 2/500	1032590	6.14	4235010	7.06	3030530	8.42
05	AZ95421W15 2/500	970518	6.14	3984320	7.06	3219200	8.42
06	AZ95423W15 2/500	1052530	6.14	4381680	7.06	2875340	8.42
07	500ug/ml MEE 04/30/19	1430070	6.12	4679510	7.05	3697830	8.42
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22							

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89607
 Lab File ID (Standard): 0730L007.D Date Analyzed: 07/30/19
 Instrument ID: Linus Time Analyzed: 14:04
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

	Phenanthrene-D10(IS)		Chrysene-D12(IS)		Perylene-D12(IS)		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12 HOUR STD	7424400	9.59	7867430	11.88	7875030	13.64	
UPPER LIMIT	14848800	9.76	15734860	12.05	15750060	13.81	
LOWER LIMIT	3712200	9.42	3933715	11.71	3937515	13.47	
SAMPLE NO.							
01	190726A BLK 2/500	8123030	9.59	8906230	11.90	9831220	13.67
02	190726A LCS-1 2/500	7472320	9.59	8004560	11.88	8866060	13.64
03	190726A LCSD-1 2/500	7321660	9.59	7997470	11.88	10753500	13.64
04	AZ95419W15 2/500	7064990	9.59	8077440	11.89	10028500	13.65
05	AZ95421W15 2/500	7571570	9.59	7892310	11.89	8284590	13.65
06	AZ95423W15 2/500	6823600	9.58	7710840	11.88	8022640	13.64
07	500ug/ml MEE 04/30/19	6445650	9.58	8956590	11.88	9413880	13.64
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 07/30/19

Matrix: WATER

Instrument: Thor

APPL ID.	Client Sample No.	SURROGATE: 1,2-DICHLOROETHANE-D4 (S)			SURROGATE: 4-BROMOFLUOROBENZENE (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190730AT-LCS	Lab Control Spike	81-118	102		85-114	99.2	
190730AT-LCSD	Lab Control Spiked	81-118	93.6		85-114	88.8	
190730AT-BLK	Blank	81-118	99.0		85-114	94.0	
AZ95418	ERH843	81-118	92.2		85-114	87.5	
AZ95419	ERH844	81-118	95.7		85-114	90.9	
AZ95420	ERH860	81-118	110		85-114	102	
AZ95421	ERH861	81-118	96.7		85-114	92.4	
AZ95422	ERH864	81-118	95.5		85-114	93.7	
AZ95423	ERH865	81-118	133	#	85-114	127	#

Comments: Batch: #86BTO-190730AT

= Recovery outside of Control Limits on Sample.

Printed: 07/31/19 12:33:05 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 07/30/19

Matrix: WATER

Instrument: Thor

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190730AT-LCS	Lab Control Spike	80-119	102		89-112	100	
190730AT-LCSD	Lab Control SpikeD	80-119	92.8		89-112	88.8	*
190730AT-BLK	Blank	80-119	100		89-112	94.9	
AZ95418	ERH843	80-119	92.7		89-112	90.4	
AZ95419	ERH844	80-119	97.7		89-112	93.7	
AZ95420	ERH860	80-119	109		89-112	106	
AZ95421	ERH861	80-119	98.4		89-112	95.8	
AZ95422	ERH864	80-119	97.2		89-112	95.0	
AZ95423	ERH865	80-119	135	#	89-112	131	#

Comments: Batch: #86BTO-190730AT

* = Recovery outside of Control Limits on QC Sample.

= Recovery outside of Control Limits on Sample.

Printed: 07/31/19 12:33:05 PM

Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 07/30/19

Matrix: WATER

Instrument: Thor

Blank ID: 190730AT-BLK

Time Analyzed: 1405

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190730AT-LCS	Lab Control Spike	0730T06	07/30/19 1144
190730AT-LCSD	Lab Control SpikeD	0730T07	07/30/19 1212
190730AT-BLK	Blank	0730T11	07/30/19 1405
AZ95418	ERH843	0730T12	07/30/19 1433
AZ95419	ERH844	0730T13	07/30/19 1501
AZ95420	ERH860	0730T14	07/30/19 1529
AZ95421	ERH861	0730T15	07/30/19 1557
AZ95422	ERH864	0730T16	07/30/19 1625
AZ95423	ERH865	0730T17	07/30/19 1653

Comments: Batch: #86BTO-190730AT

Printed: 07/31/19 12:33:00 PM
Form 4, Blank Summary

Method Blank
EPA 8260B BTEX WATER

Blank Name/QCG: **190730W-95418 - 242860**
Batch ID: #86BTO-190730AT

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	07/30/19	07/30/19
BLANK	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	07/30/19	07/30/19
BLANK	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	07/30/19	07/30/19
BLANK	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	07/30/19	07/30/19
BLANK	SURROGATE: 1,2-DICHLOROET	99.0	81-118			%	07/30/19	07/30/19
BLANK	SURROGATE: 4-BROMOFLUORO	94.0	85-114			%	07/30/19	07/30/19
BLANK	SURROGATE: DIBROMOFLUOR	100	80-119			%	07/30/19	07/30/19
BLANK	SURROGATE: TOLUENE-D8 (S)	94.9	89-112			%	07/30/19	07/30/19

Quant Method: T0726W.M
Run #: 0730T11
Instrument: Thor
Sequence: T190726
Initials: DPO

GC SC-Blank-REG MDLs-DOD
Printed: 07/31/19 12:33:07 PM

EPA 8260B

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 07/30/19

Matrix: WATER

Instrument: Thor

LCS ID: 190730AT-LCS

Time Analyzed: 1144

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190730AT-LCS	Lab Control Spike	0730T06	07/30/19 1144
190730AT-LCSD	Lab Control SpikeD	0730T07	07/30/19 1212
190730AT-BLK	Blank	0730T11	07/30/19 1405
AZ95418	ERH843	0730T12	07/30/19 1433
AZ95419	ERH844	0730T13	07/30/19 1501
AZ95420	ERH860	0730T14	07/30/19 1529
AZ95421	ERH861	0730T15	07/30/19 1557
AZ95422	ERH864	0730T16	07/30/19 1625
AZ95423	ERH865	0730T17	07/30/19 1653

Comments: Batch: #86BTO-190730AT

Printed: 07/31/19 12:32:59 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8260B BTEX WATER

APPL ID: 190730W-95418 LCS - 242860
 Batch ID: #86BTO-190730AT

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
BENZENE	10.00	9.49	10.1	94.9	101	79-120	6.2	20
ETHYLBENZENE	10.00	9.48	9.88	94.8	98.8	79-121	4.1	20
TOLUENE	10.00	9.45	9.96	94.5	99.6	80-121	5.3	20
XYLENES (TOTAL)	30.0	28.0	29.4	93.3	98.0	79-121	4.9	20

SURROGATE: 1,2-DICHLOROETHANE-D	25.0	25.5	23.4	102	93.6	81-118		
SURROGATE: 4-BROMOFLUOROBENZE	25.0	24.8	22.2	99.2	88.8	85-114		
SURROGATE: DIBROMOFLUOROMETH	25.0	25.4	23.2	102	92.8	80-119		
SURROGATE: TOLUENE-D8 (S)	25.0	25.1	22.2	100	88.8 #	89-112		

= Recovery is outside QC limits.

Comments: _____

	<u>SPK</u>	<u>DUP</u>
Quant Method :	T0726W.M	T0726W.M
Extraction Date :	07/30/19	07/30/19
Analysis Date :	07/30/19	07/30/19
Instrument :	Thor	Thor
Run :	0730T06	0730T07
Initials :	DPO	

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: _____
 Matrix: Water
 ID: 0726T00.D

SDG No: _____
 Date Analyzed: 7/26/2019
 Instrument: Thor
 Time Analyzed: 11:50

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	0.3ug/L VOC STD 07/2	0726T04.D	7/26/2019 13:35
2	0.5ug/L VOC STD 07/2	0726T05.D	7/26/2019 14:03
3	1.0ug/L VOC STD 07/2	0726T06.D	7/26/2019 14:31
4	2.0ug/L VOC STD 07/2	0726T07.D	7/26/2019 14:59
5	5.0ug/L VOC STD 07/2	0726T08.D	7/26/2019 15:27
6	10ug/L VOC STD 07/26	0726T09.D	7/26/2019 15:55
7	20ug/L VOC STD 07/26	0726T10.D	7/26/2019 16:24
8	100ug/L VOC STD 07/2	0726T12.D	7/26/2019 17:20
9	SS 10ug/L VOC STD 07	0726T16.D	7/26/2019 19:13
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

m/e

50 15 - 40% of mass 95	<u>15.2</u>
75 30 - 60% of mass 95	<u>46.5</u>
95 100 - 100% of mass 95	<u>100.0</u>
96 5 - 9% of mass 95	<u>6.7</u>
173 0 - 2% of mass 174	<u>0.3</u>
174 50 - 200% of mass 95	<u>106.6</u>
175 5 - 9% of mass 174	<u>7.7</u>
176 95 - 101% of mass 174	<u>99.6</u>
177 5 - 9% of mass 176	<u>6.4</u>

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: 89607
 Matrix: Water
 ID: 0730T03.D

SDG No: 89607
 Date Analyzed: 7/30/2019
 Instrument: Thor
 Time Analyzed: 10:25

Client Sample No.	APPL ID.	File ID.	Date Analyzed	
1		190730A CCV 10ug/L	0730T05.D	7/30/2019 11:16
2	Lab Control Spike	190730A LCS 10ug/L	0730T06.D	7/30/2019 11:44
3	Lab Control SpikeD	190730A LCSD 10ug/L	0730T07.D	7/30/2019 12:12
4	Blank	190730A BLK	0730T11.D	7/30/2019 14:05
5	ERH843	AZ95418W01	0730T12.D	7/30/2019 14:33
6	ERH844	AZ95419W01	0730T13.D	7/30/2019 15:01
7	ERH860	AZ95420W01	0730T14.D	7/30/2019 15:29
8	ERH861	AZ95421W01	0730T15.D	7/30/2019 15:57
9	ERH864	AZ95422W01	0730T16.D	7/30/2019 16:25
10	ERH865	AZ95423W01	0730T17.D	7/30/2019 16:53
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e

50 15 - 40% of mass 95	16.7
75 30 - 60% of mass 95	47.2
95 100 - 100% of mass 95	100.0
96 5 - 9% of mass 95	7.0
173 0 - 2% of mass 174	0.4
174 50 - 200% of mass 95	100.5
175 5 - 9% of mass 174	7.4
176 95 - 101% of mass 174	99.0
177 5 - 9% of mass 176	6.2

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89607
 Lab File ID (Standard): 0726T09.D Date Analyzed: 07/26/19
 Instrument ID: Thor Time Analyzed: 15:55
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

	Fluorobenzene (IS)		Chlorobenzene-D5 (IS)		1,4-Dichlorobenzene-D (IS)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	516096	5.50	513536	8.79	275520	11.11
UPPER LIMIT	1032192	5.67	1027072	8.96	551040	11.28
LOWER LIMIT	258048	5.33	256768	8.62	137760	10.94
SAMPLE NO.						
01 190730A BLK	437824	5.50	436032	8.79	217984	11.11
02 AZ95418W01	445888	5.50	433984	8.79	227776	11.11
03 AZ95419W01	440512	5.50	430208	8.79	220224	11.11
04 AZ95420W01	418816	5.50	411840	8.79	220800	11.11
05 AZ95421W01	443584	5.50	431040	8.79	213696	11.11
06 AZ95422W01	429760	5.50	409536	8.79	210176	11.11
07 AZ95423W01	435136	5.50	418496	8.79	216128	11.11
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 07/30/19

Matrix: WATER

Instrument: Thor

APPL ID.	Client Sample No.	SURROGATE: 4-BROMOFLUOROBENZENE (S)					
		Limits	Result	Qualifier	Limits	Result	Qualifier
190730AT-LCS	Lab Control Spike	85-114	95.6				
190730AT-LCSD	Lab Control SpikeD	85-114	102				
190730AT-BLK	Blank	85-114	94.0				
AZ95418	ERH843	85-114	87.5				
AZ95419	ERH844	85-114	90.9				
AZ95420	ERH860	85-114	102				
AZ95421	ERH861	85-114	92.4				
AZ95422	ERH864	85-114	93.7				
AZ95423	ERH865	85-114	127	#			

Comments: Batch: #GRO86-190730AT

= Recovery outside of Control Limits on Sample.

Printed: 07/31/19 12:55:43 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 07/30/19

Matrix: WATER

Instrument: Thor

Blank ID: 190730AT-BLK

Time Analyzed: 1405

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190730AT-LCS	Lab Control Spike	0730T09	07/30/19 1308
190730AT-LCSD	Lab Control SpikeD	0730T10	07/30/19 1336
190730AT-BLK	Blank	0730T11	07/30/19 1405
AZ95418	ERH843	0730T12	07/30/19 1433
AZ95419	ERH844	0730T13	07/30/19 1501
AZ95420	ERH860	0730T14	07/30/19 1529
AZ95421	ERH861	0730T15	07/30/19 1557
AZ95422	ERH864	0730T16	07/30/19 1625
AZ95423	ERH865	0730T17	07/30/19 1653

Comments: Batch: #GRO86-190730AT

Printed: 07/31/19 12:55:39 PM
Form 4, Blank Summary

Method Blank
EPA 8260B GRO WATER

Blank Name/QCG: **190730W-95418 - 242861**
Batch ID: #GRO86-190730AT

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	07/30/19	07/30/19
BLANK	SURROGATE: 4-BROMOFLUORO	94.0	85-114			%	07/30/19	07/30/19

Quant Method: TSUR0726.M
Run #: 0730T11
Instrument: Thor
Sequence: T190726
Initials: DPO

GC SC-Blank-REG MDLs-DOD
Printed: 07/31/19 12:55:45 PM

EPA 8260B

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 07/30/19

Matrix: WATER

Instrument: Thor

LCS ID: 190730AT-LCS

Time Analyzed: 1308

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190730AT-LCS	Lab Control Spike	0730T09	07/30/19 1308
190730AT-LCSD	Lab Control SpikeD	0730T10	07/30/19 1336
190730AT-BLK	Blank	0730T11	07/30/19 1405
AZ95418	ERH843	0730T12	07/30/19 1433
AZ95419	ERH844	0730T13	07/30/19 1501
AZ95420	ERH860	0730T14	07/30/19 1529
AZ95421	ERH861	0730T15	07/30/19 1557
AZ95422	ERH864	0730T16	07/30/19 1625
AZ95423	ERH865	0730T17	07/30/19 1653

Comments: Batch: #GRO86-190730AT

Printed: 07/31/19 12:55:38 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries
EPA 8260B GRO WATER

APPL ID: 190730W-95418 LCS - 242861
 Batch ID: #GRO86-190730AT

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
GASOLINE RANGE ORGANICS	300	278	309	92.7	103	78-122	10.6	20
SURROGATE: 4-BROMOFLUOROBENZE	25.0	23.9	25.4	95.6	102	85-114		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	TSUR0726.M	TSUR0726.M
Extraction Date :	07/30/19	07/30/19
Analysis Date :	07/30/19	07/30/19
Instrument :	Thor	Thor
Run :	0730T09	0730T10
Initials :	DPO	

RSK 175

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 07/30/19

Matrix: WATER

Instrument: Rocky

Blank ID: 190730A-BLK

Time Analyzed: 1459

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190730A-LCS	Lab Control Spike	19073005	07/30/19 1453
190730A-LCSD	Lab Control Spiked	19073006	07/30/19 1456
190730A-BLK	Blank	19073007	07/30/19 1459
AZ95418	ERH843	19073015	07/30/19 1524
AZ95419	ERH844	19073016	07/30/19 1527
AZ95420	ERH860	19073017	07/30/19 1530
AZ95421	ERH861	19073018	07/30/19 1533
AZ95422	ERH864	19073019	07/30/19 1535
AZ95423	ERH865	19073020	07/30/19 1537

Comments: Batch: #RSKME-190730A

Printed: 07/30/19 4:16:21 PM
Form 4, Blank Summary

Method Blank
METHANE

Blank Name/QCG: **190730W-95418 - 242833**
Batch ID: #RSKME-190730A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	METHANE	1.00 U	5.0	1.00	0.25	ug/L	07/30/19	07/30/19

Quant Method:RSK0618.M
Run #:19073007
Instrument:Rocky
Sequence:190618
Initials:CMO

GC SC-Blank-REG MDLs-DOD
Printed: 07/30/19 4:16:31 PM

RSK 175

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 07/30/19

Matrix: WATER

Instrument: Rocky

LCS ID: 190730A-LCS

Time Analyzed: 1453

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190730A-LCS	Lab Control Spike	19073005	07/30/19 1453
190730A-LCSD	Lab Control Spiked	19073006	07/30/19 1456
190730A-BLK	Blank	19073007	07/30/19 1459
AZ95418	ERH843	19073015	07/30/19 1524
AZ95419	ERH844	19073016	07/30/19 1527
AZ95420	ERH860	19073017	07/30/19 1530
AZ95421	ERH861	19073018	07/30/19 1533
AZ95422	ERH864	19073019	07/30/19 1535
AZ95423	ERH865	19073020	07/30/19 1537

Comments: Batch: #RSKME-190730A

Printed: 07/30/19 4:16:19 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

METHANE

APPL ID: 190730W-95418 LCS - 242833

Batch ID: #RSKME-190730A

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
METHANE	83.4	77.4	76.5	92.8	91.7	72-125	1.2	30

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	RSK0618.M	RSK0618.M
Extraction Date :	07/30/19	07/30/19
Analysis Date :	07/30/19	07/30/19
Instrument :	Rocky	Rocky
Run :	19073005	19073006
Initials :	CMO	

EPA 300.0

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 08/03/19

Matrix: WATER

Instrument: Charlie

Blank ID: 190801B10-BLK

Time Analyzed: 0730

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190801B10-BLK	Blank	2	08/03/19 0730
AZ95419	ERH844	20	08/03/19 1032
AZ95421	ERH861	21	08/03/19 1040
AZ95423	ERH865	22	08/03/19 1047
AZ95421	ERH861	26	08/03/19 1121
AZ95423	ERH865	27	08/03/19 1129
190801B10-LCS	Lab Control Spike	3	08/03/19 0737
190801B10-LCSD	Lab Control SpikeD	4	08/03/19 0745

Comments: Batch: #300W-190801B10

Printed: 08/23/19 4:14:03 PM
Form 4, Blank Summary

WETLAB BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
EPA 300.0	CHLORIDE	0.20 U	1.0	0.20	0.08	mg/L	08/03/19	08/03/19	#300W-190801B10-AZ95419
EPA 300.0	NITRATE	0.18 U	0.5	0.18	0.04	mg/L	08/03/19	08/03/19	#300W-190801B10-AZ95419
EPA 300.0	SULFATE	0.20 U	1.0	0.20	0.09	mg/L	08/03/19	08/03/19	#300W-190801B10-AZ95419

Wetlab SC-Blank-REG MDLs
Printed: 08/23/19 4:14:01 PM

EPA 300.0

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 08/03/19

Matrix: WATER

Instrument: Charlie

LCS ID: 190801B10-LCS

Time Analyzed: 0737

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190801B10-BLK	Blank	2	08/03/19 0730
AZ95419	ERH844	20	08/03/19 1032
AZ95421	ERH861	21	08/03/19 1040
AZ95423	ERH865	22	08/03/19 1047
AZ95421	ERH861	26	08/03/19 1121
AZ95423	ERH865	27	08/03/19 1129
190801B10-LCS	Lab Control Spike	3	08/03/19 0737
190801B10-LCSD	Lab Control SpikeD	4	08/03/19 0745

Comments: Batch: #300W-190801B10

Printed: 08/23/19 4:14:04 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

WETLAB

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
EPA 300.0	CHLORIDE	25.0	23.5	23.5	94.0	94.0	0.0	20	90-110	08/03/19	08/03/19	08/03/19	08/03/19	#300W-190801B10-AZ954
EPA 300.0	NITRATE	22.1	20.8	20.8	94.1	94.1	0.0	20	90-110	08/03/19	08/03/19	08/03/19	08/03/19	#300W-190801B10-AZ954
EPA 300.0	SULFATE	25.0	23.4	23.4	93.6	93.6	0.0	20	90-110	08/03/19	08/03/19	08/03/19	08/03/19	#300W-190801B10-AZ954

Comments:

EPA 353.2

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 07/31/19

Matrix: WATER

Instrument: EVE

Blank ID: 190731A-BLK

Time Analyzed: 1829

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190731A-BLK	Blank	19	07/31/19 1829
190731A-LCS	Lab Control Spike	20	07/31/19 1831
190731A-LCSD	Lab Control SpikeD	21	07/31/19 1834
AZ95419	ERH844	33	07/31/19 1857
AZ95421	ERH861	34	07/31/19 1858
AZ95423	ERH865	35	07/31/19 1859

Comments: Batch: #35OF-190731A

Printed: 08/23/19 4:22:56 PM
Form 4, Blank Summary

SM 2320B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 07/31/19

Matrix: WATER

Instrument: Tiamo

Blank ID: 190731B-BLK

Time Analyzed: 1928

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190731B-BLK	Blank	1	07/31/19 1928
AZ95419	ERH844	15	07/31/19 2146
AZ95421	ERH861	16	07/31/19 2158
AZ95423	ERH865	17	07/31/19 2209
190731B-LCS	Lab Control Spike	2	07/31/19 1931
190731B-LCSD	Lab Control SpikeD	3	07/31/19 1937

Comments: Batch: #232W-190731B

Printed: 08/23/19 4:22:56 PM
Form 4, Blank Summary

SM3500FeB

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 07/26/19

Matrix: WATER

Instrument: Manual Spec

Blank ID: 190726A-BLK

Time Analyzed: 1446

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190726A-LCS	Lab Control Spike	22	07/26/19 1446
190726A-BLK	Blank	23	07/26/19 1446
AZ95421	ERH861	24	07/26/19 1447
AZ95419	ERH844	25	07/26/19 1447
AZ95423	ERH865	30	07/26/19 1448

Comments: Batch: #35FE-190726A

Printed: 08/23/19 4:22:56 PM
Form 4, Blank Summary

SW846 9060A

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 08/05/19

Matrix: WATER

Instrument: TICTOC

Blank ID: 190805A-BLK

Time Analyzed: 2223

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190805A-BLK	Blank	10	08/05/19 2223
190805A-LCS	Lab Control Spike	11	08/05/19 2255
190805A-LCSD	Lab Control Spiked	12	08/05/19 2327
AZ95419	ERH844	13	08/05/19 2359
AZ95421	ERH861	14	08/06/19 0031
AZ95423	ERH865	15	08/06/19 0103

Comments: Batch: #TOCW5-190805A

Printed: 08/23/19 4:22:56 PM
Form 4, Blank Summary

WETLAB BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
SM 2320B	BICARBONATE AS	1.2 J	2.0	1.70	0.85	mg/L	07/31/19	07/31/19	#232W-190731B-AZ95329
SM 2320B	CARBONATE AS C	1.70 U	2.0	1.70	0.85	mg/L	07/31/19	07/31/19	#232W-190731B-AZ95329
SM 2320B	TOTAL ALKALINITY	1.2 J	2.0	1.70	0.85	mg/L	07/31/19	07/31/19	#232W-190731B-AZ95329
SM3500Fe	FERROUS IRON	0.32 U	1.0	0.32	0.16	mg/L	07/26/19	07/26/19	#35FE-190726A-AZ95450
EPA 353.2	NITRATE-NITRITE-	0.090 U	0.10	0.090	0.028	mg/L	07/31/19	07/31/19	#35OF-190731A-AZ95189
SW846 90	TOTAL ORGANIC C	0.18 J	0.93	0.350	0.130	mg/L	08/05/19	08/05/19	#TOCW5-190805A-AZ95419

J = Estimated value.

Wetlab SC-Blank-REG MDLs
Printed: 08/23/19 4:22:54 PM

EPA 353.2

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 07/31/19

Matrix: WATER

Instrument: EVE

LCS ID: 190731A-LCS

Time Analyzed: 1831

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190731A-BLK	Blank	19	07/31/19 1829
190731A-LCS	Lab Control Spike	20	07/31/19 1831
190731A-LCSD	Lab Control SpikeD	21	07/31/19 1834
AZ95419	ERH844	33	07/31/19 1857
AZ95421	ERH861	34	07/31/19 1858
AZ95423	ERH865	35	07/31/19 1859

Comments: Batch: #35OF-190731A

Printed: 08/23/19 4:22:56 PM
Form 4, LCS Summary

SM 2320B

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 07/31/19

Matrix: WATER

Instrument: Tiamo

LCS ID: 190731B-LCS

Time Analyzed: 1931

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190731B-BLK	Blank	1	07/31/19 1928
AZ95419	ERH844	15	07/31/19 2146
AZ95421	ERH861	16	07/31/19 2158
AZ95423	ERH865	17	07/31/19 2209
190731B-LCS	Lab Control Spike	2	07/31/19 1931
190731B-LCSD	Lab Control Spiked	3	07/31/19 1937

Comments: Batch: #232W-190731B

Printed: 08/23/19 4:22:57 PM
Form 4, LCS Summary

SM3500FeB

Form 4

LCS Summary

Lab Name: APPL, Inc.
Case No: 89607
Matrix: WATER
LCS ID: 190726A-LCS

SDG No: 89607
Date Analyzed: 07/26/19
Instrument: Manual Spec
Time Analyzed: 1446

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190726A-LCS	Lab Control Spike	22	07/26/19 1446
190726A-BLK	Blank	23	07/26/19 1446
AZ95421	ERH861	24	07/26/19 1447
AZ95419	ERH844	25	07/26/19 1447
AZ95423	ERH865	30	07/26/19 1448

Comments: Batch: #35FE-190726A

Printed: 08/23/19 4:22:57 PM
Form 4, LCS Summary

SW846 9060A

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89607

Case No: 89607

Date Analyzed: 08/05/19

Matrix: WATER

Instrument: TICTOC

LCS ID: 190805A-LCS

Time Analyzed: 2255

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190805A-BLK	Blank	10	08/05/19 2223
190805A-LCS	Lab Control Spike	11	08/05/19 2255
190805A-LCSD	Lab Control SpikeD	12	08/05/19 2327
AZ95419	ERH844	13	08/05/19 2359
AZ95421	ERH861	14	08/06/19 0031
AZ95423	ERH865	15	08/06/19 0103

Comments: Batch: #TOCW5-190805A

Printed: 08/23/19 4:22:57 PM
Form 4, LCS Summary

Laboratory Control Spike Recovery
WETLAB

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/L	SPK Result mg/L	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
SM3500Fe	FERROUS IRON	3.00	2.91	97.0	80-120	07/26/19	07/26/19	#35FE-190726A-AZ95450

Comments:

Laboratory Control Spike Recoveries

WETLAB

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
EPA 353.2	NITRATE-NITRITE-N	3.00	2.76	2.91	92.0	97.0	5.3	20	90-110	07/31/19	07/31/19	07/31/19	07/31/19	#35OF-190731A-AZ95189
SM 2320B	BICARBONATE AS CaCO3	250	247	252	98.8	101	2.0	20	90-110	07/31/19	07/31/19	07/31/19	07/31/19	#232W-190731B-AZ95329
SM 2320B	TOTAL ALKALINITY AS CA	250	247	252	98.8	101	2.0	20	90-110	07/31/19	07/31/19	07/31/19	07/31/19	#232W-190731B-AZ95329
SW846 90	TOTAL ORGANIC CARBO	2.50	2.75	2.64	110	106	4.1	20	90-110	08/05/19	08/05/19	08/05/19	08/05/19	#TOCW5-190805A-AZ954

Comments: _____

**ORGANICS
Calibration Data**

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: Water

SDG No: _____
Initial Cal. Date: 06/17/19
Instrument: Apollo

Initials: BT

617003.D 617004.D 617005.D 617006.D 617007.D 617008.D

	Compound	1	2	3	4	5	6					Avg	%RSD	Type	r ²	Q
1	HATML Diesel (C10-C24)	2690303	1116857	1087632	1051285	1058686	1101324					1351015	49	HATM	0.999	
2	HBTM Motor Oil (C24-C40)	1266274	913149	865251	811199	794482	848774					916522	19	HBTM		
3	SA Ortho-Terphenyl(S)	2130750	1828574	1896892	1721330	1622234	1705036					1817469	10.0	SA		
4	SCL Decanoic Acid(G)	150177	314603	482470	637434	542867	566663					432987	38	SC	0.999	BT
5	SA Octacosane(S)	2220335	1730219	1828557	1673992	1654539	1933989					1840272	12	SA		BT
6																
7																
8																
9																
10																
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35																

3.64617

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\190617\617003.D Vial: 3
 Acq On : 6-17-19 16:40:59 Operator: DP
 Sample : Diesel/Motor Oil - 1 6/17/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:02 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

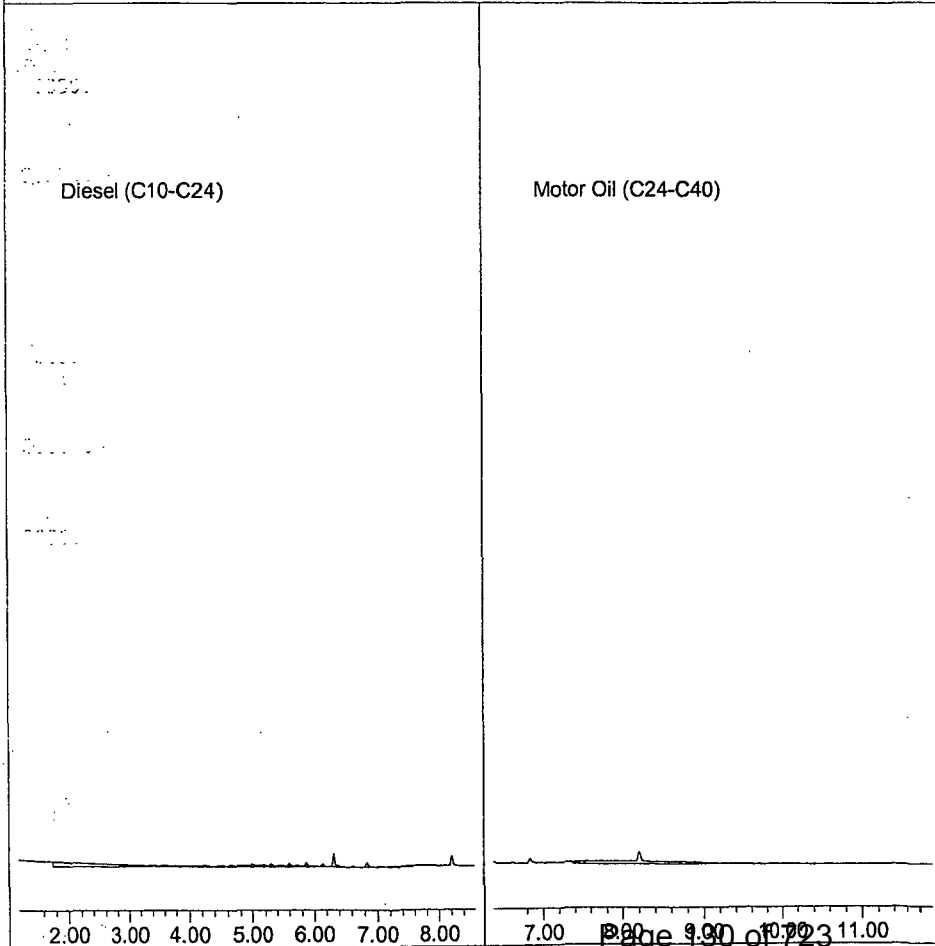
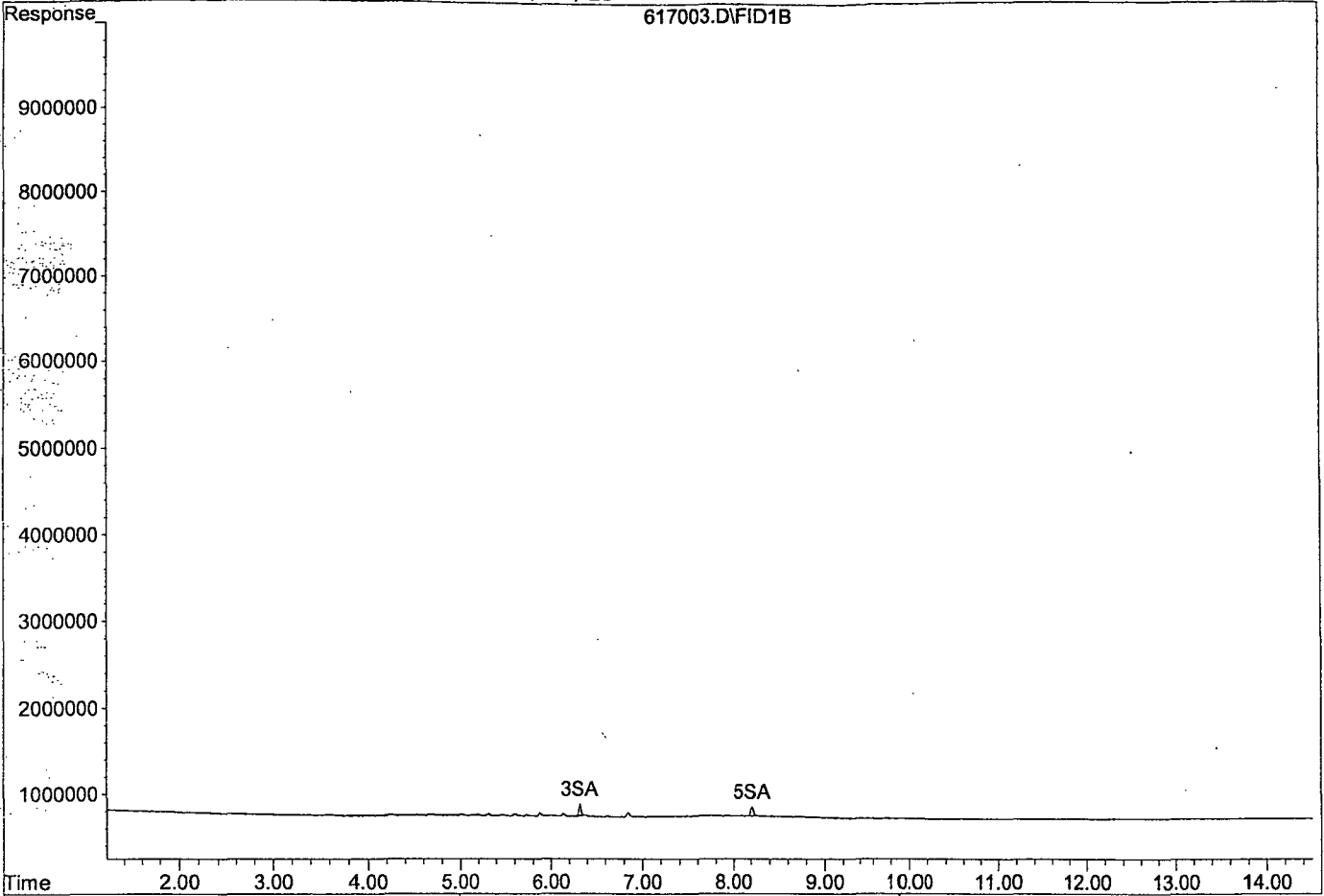
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.32	2130750	0.586 ppb
Surrogate Spike 37.500		Recovery =	1.56%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.21	2220335	0.603 ppb
Surrogate Spike 37.500		Recovery =	1.61%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	53806066	26.270 ppb
2) HBTM Motor Oil (C24-C40)	9.16	25325476	13.816 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190617\617003.D

Sample : Diesel/Motor Oil - 1 6/17/19



Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\190617\617004.D Vial: 4
 Acq On : 6-17-19 17:00:17 Operator: DP
 Sample : Diesel/Motor Oil - 2 6/17/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:02 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

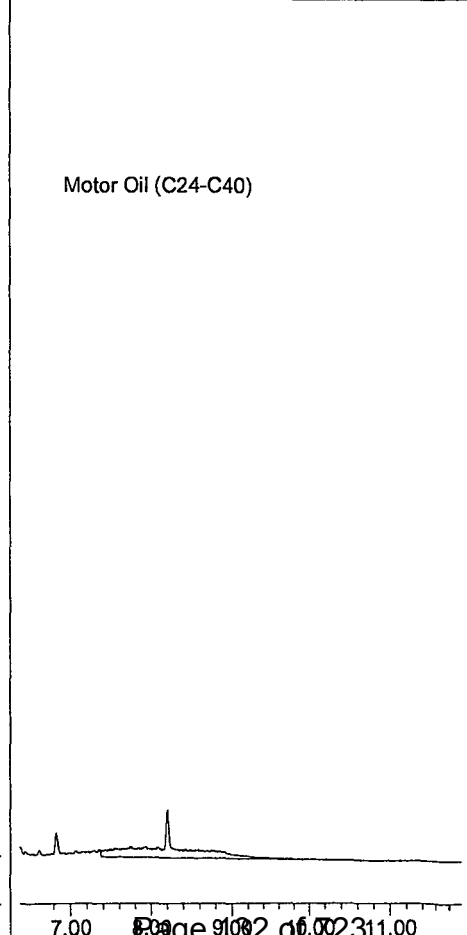
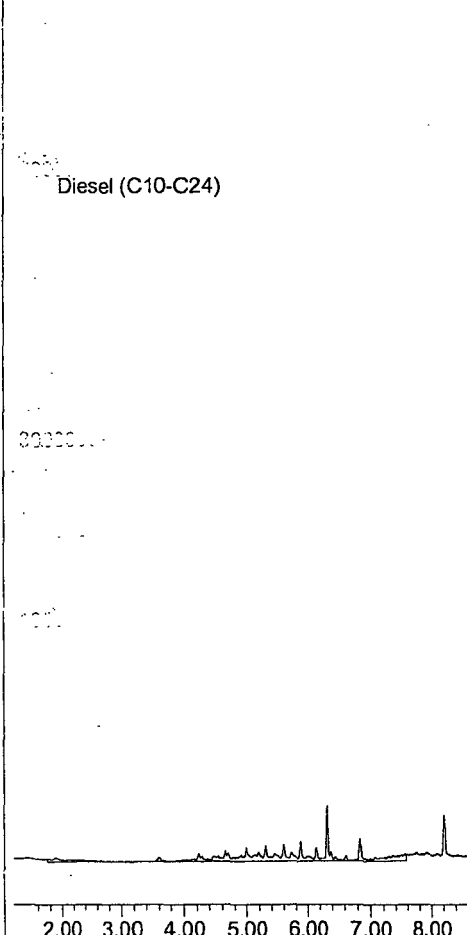
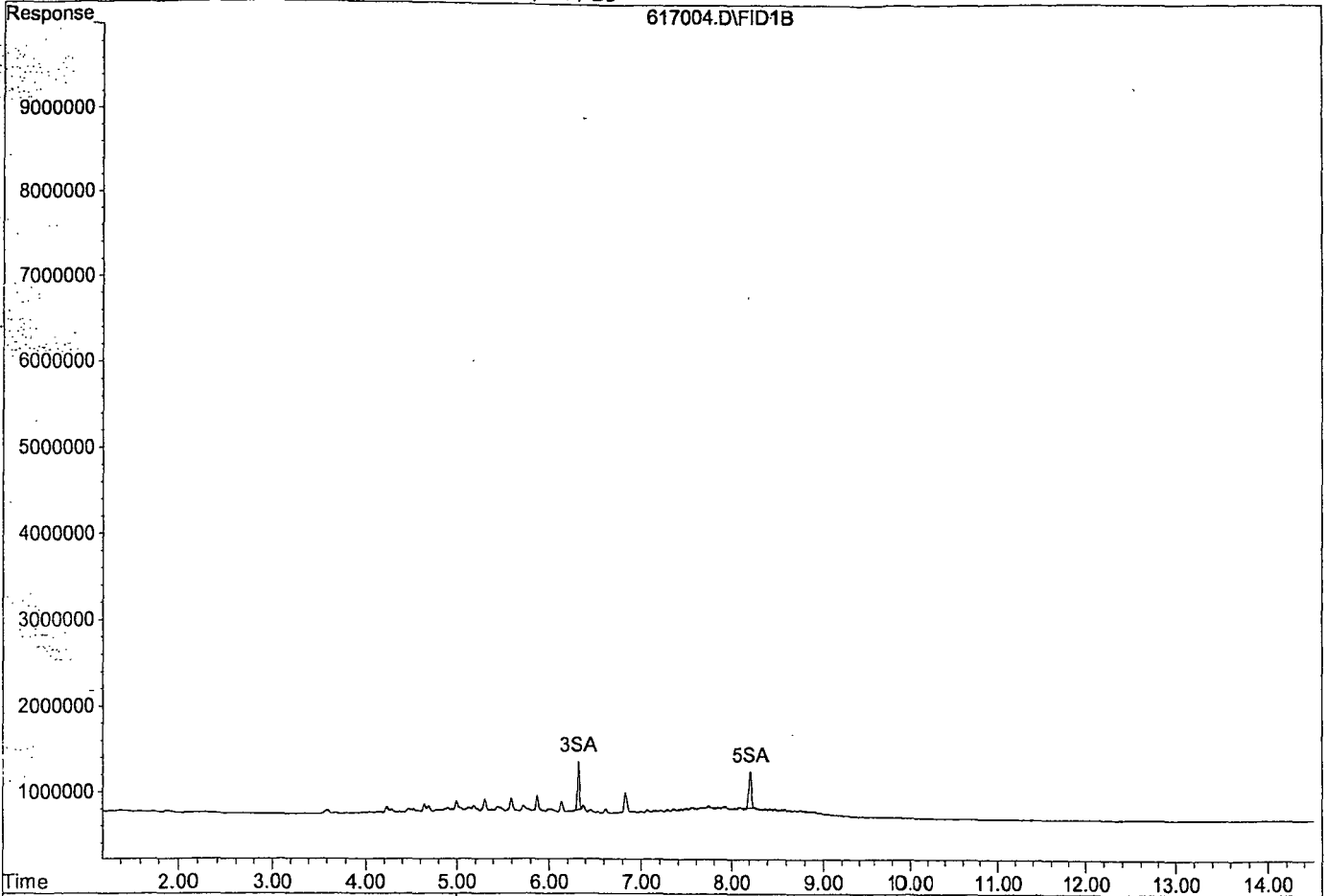
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.32	9142868	2.515 ppb
Surrogate Spike 37.500		Recovery =	6.71%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.21	8651097	2.350 ppb
Surrogate Spike 37.500		Recovery =	6.27%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	111685733	53.009 ppb
2) HBTM Motor Oil (C24-C40)	9.16	91314932	49.816 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190617\617004.D

Sample : Diesel/Motor Oil - 2 6/17/19



Data File : G:\APOLLO\DATA\190617\617005.D Vial: 5
 Acq On : 6-17-19 17:20:24 Operator: DP
 Sample : Diesel/Motor Oil - 3 6/17/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:02 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

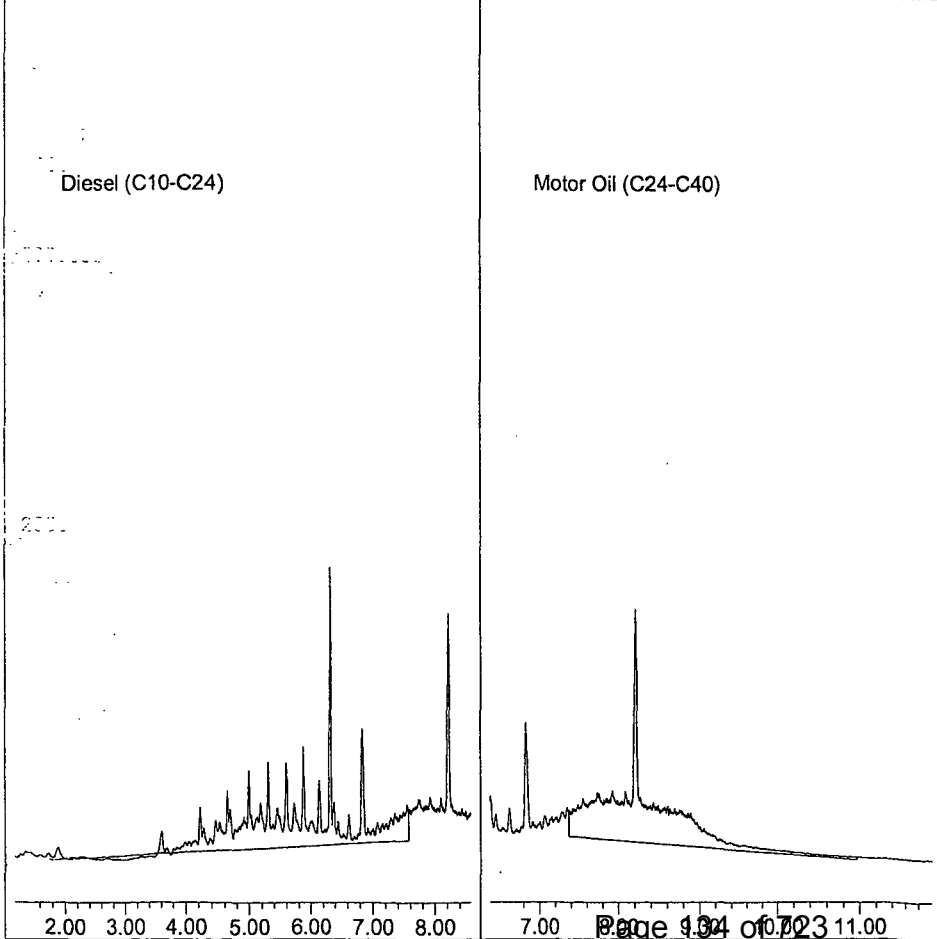
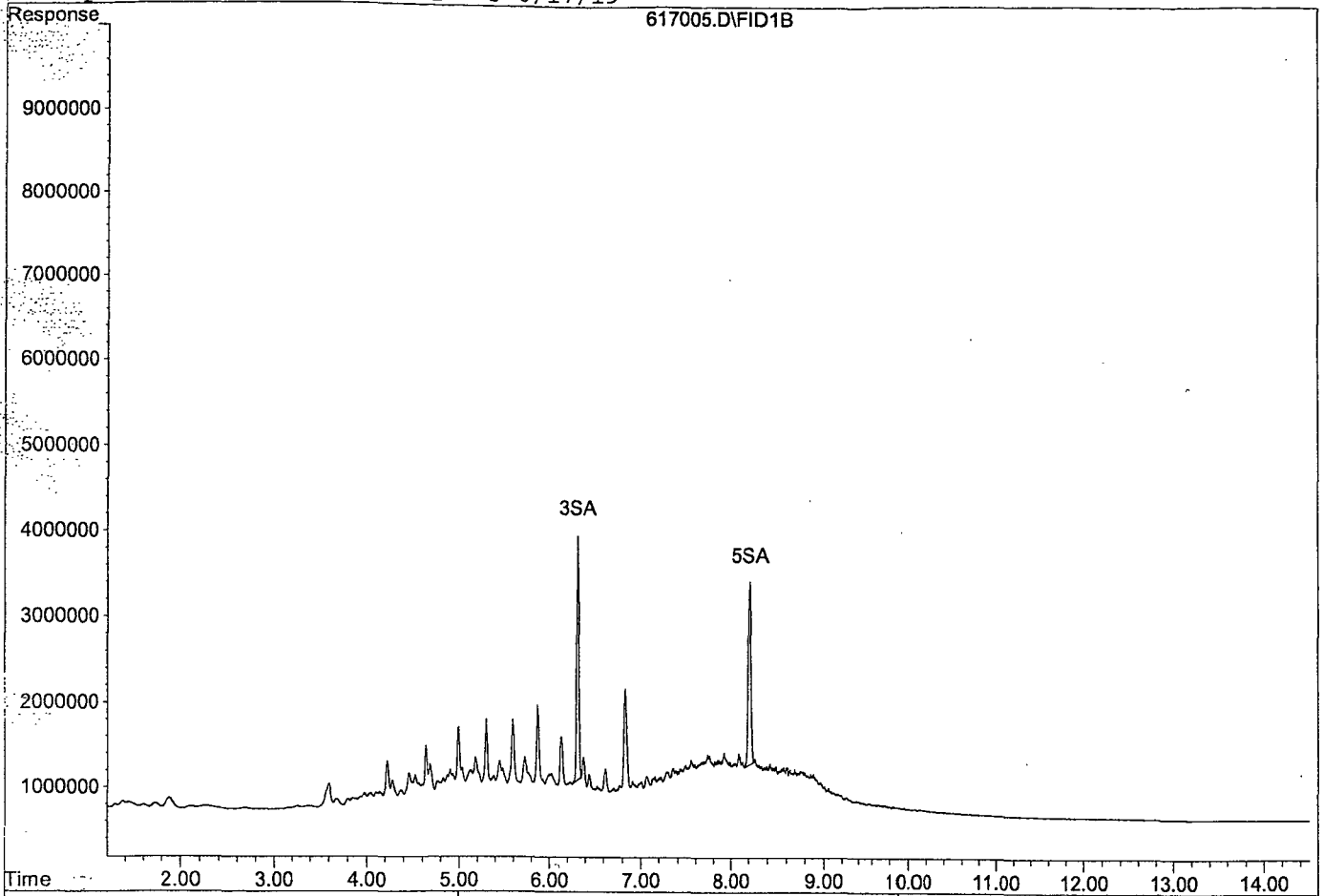
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.32	47422311	13.046 ppb
Surrogate Spike 37.500		Recovery =	34.79%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.21	45713919	12.420 ppb
Surrogate Spike 37.500		Recovery =	33.12%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	543816041	252.647 ppb
2) HBTM Motor Oil (C24-C40)	9.16	432625605	236.015 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190617\617005.D

Sample : Diesel/Motor Oil - 3 6/17/19



Data File : G:\APOLLO\DATA\190617\617006.D Vial: 6
 Acq On : 6-17-19 17:40:33 Operator: DP
 Sample : Diesel/Motor Oil - 4 6/17/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:03 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

3) SA Ortho-Terphenyl(S)	6.33	172133037	47.355 ppb
Surrogate Spike 37.500		Recovery =	126.28%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.22	167399224	45.482 ppb
Surrogate Spike 37.500		Recovery =	121.29%

Target Compounds

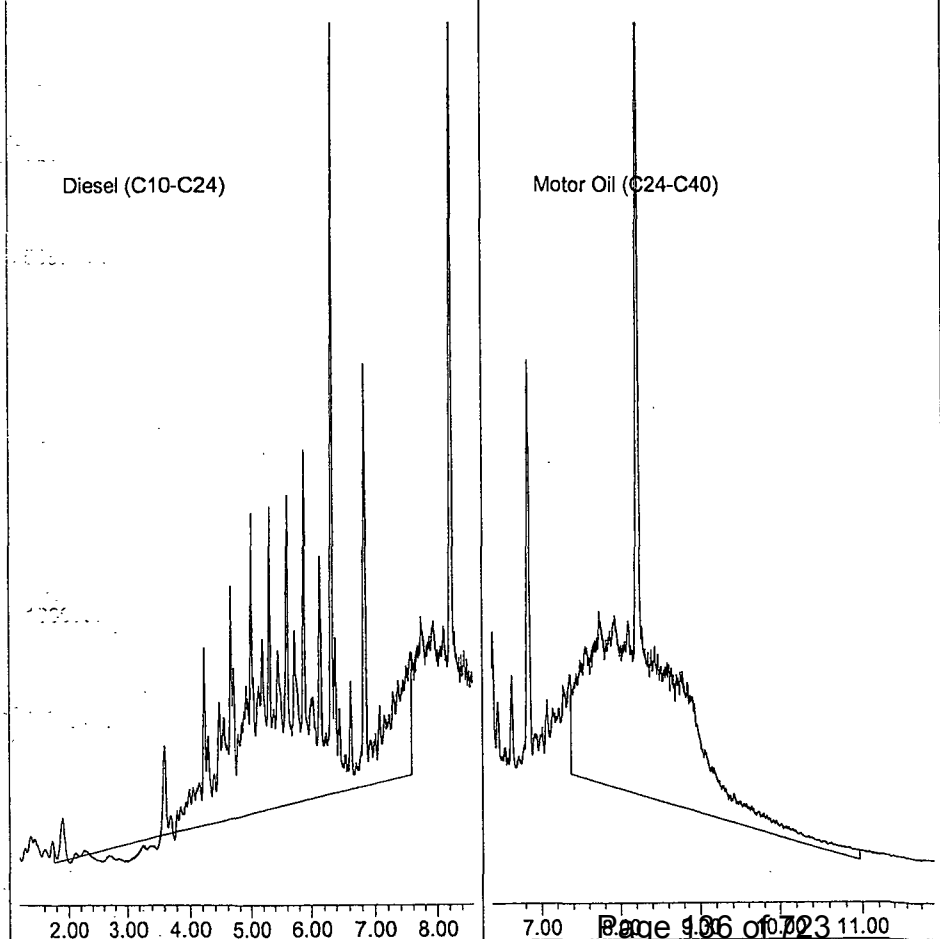
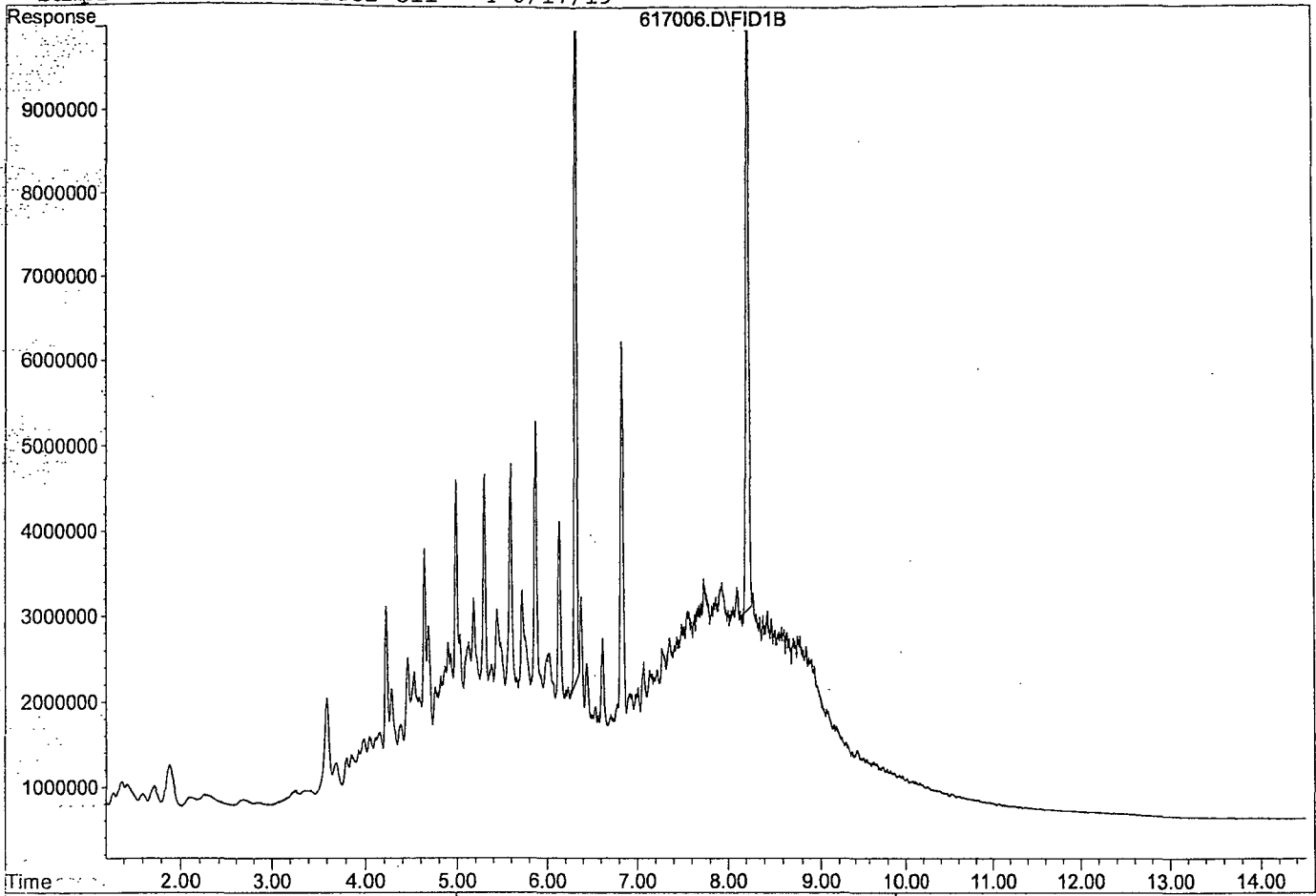
1) HATM Diesel (C10-C24)	4.66	2102569494	972.770 ppb
2) HBTM-Motor Oil (C24-C40)	9.16	1622398534	885.085 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190617\617006.D

Sample : Diesel/Motor Oil - 4 6/17/19



Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\190617\617007.D Vial: 7
 Acq On : 6-17-19 18:00:01 Operator: DP
 Sample : Diesel/Motor Oil - 5 6/17/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:03 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

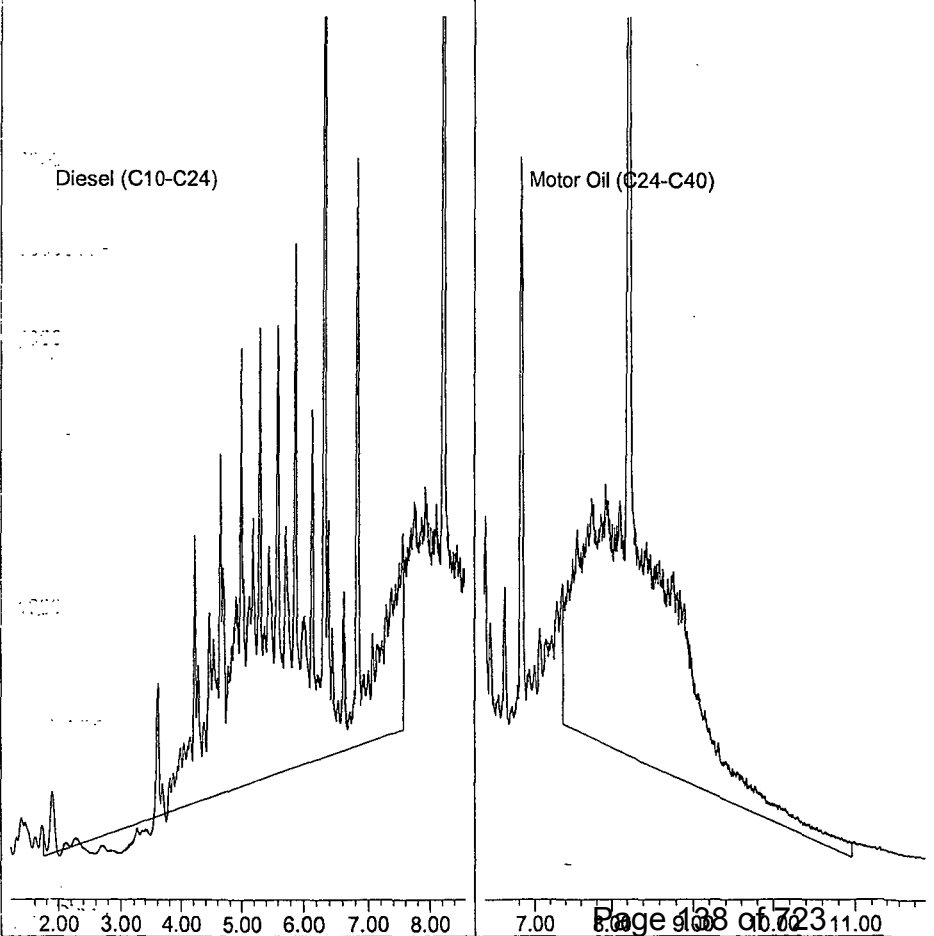
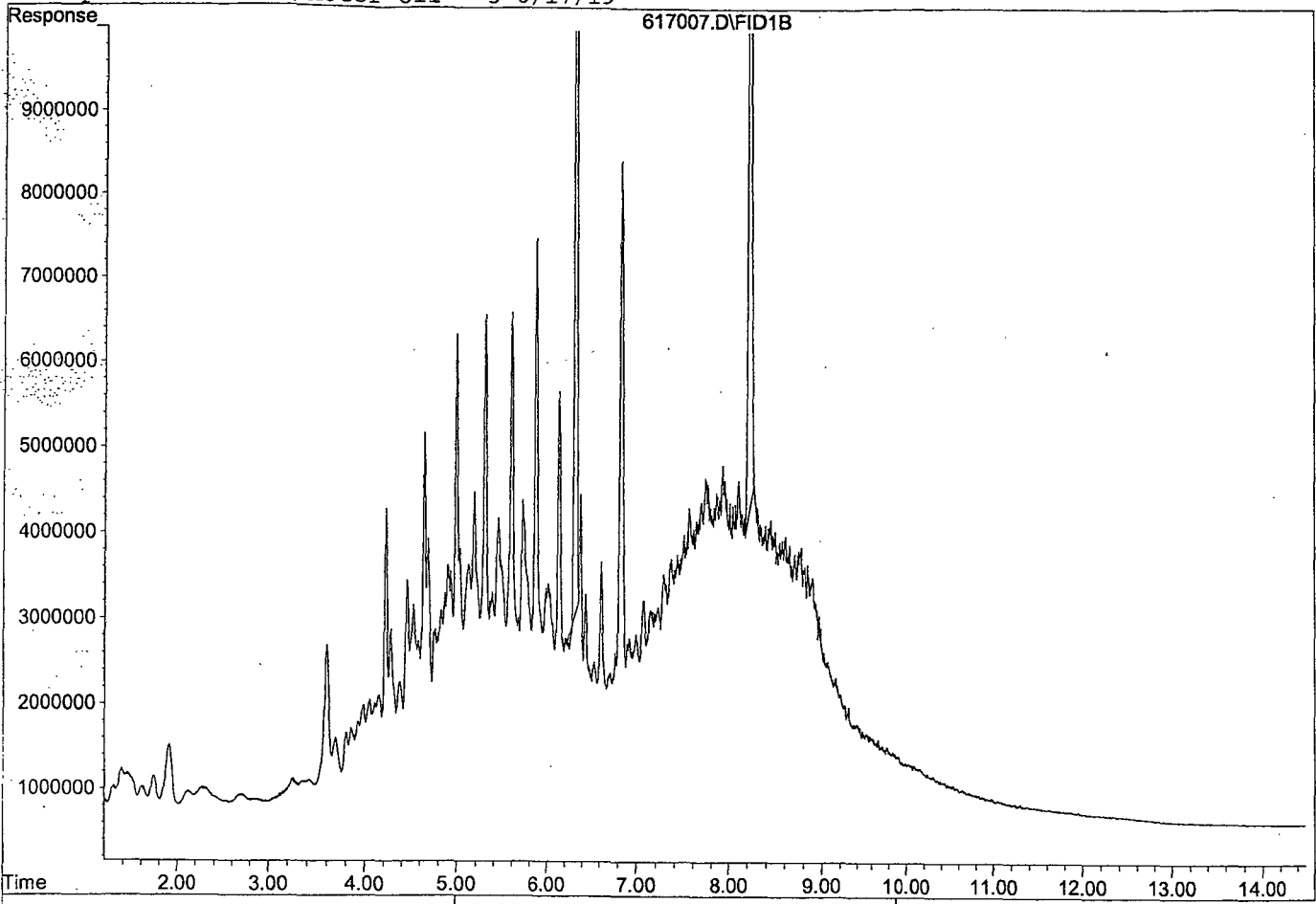
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.33	243335035	66.943 ppb
Surrogate Spike 37.500		Recovery =	178.51%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.23	248180866	67.430 ppb
Surrogate Spike 37.500		Recovery =	179.81%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	3176057733	1468.706 ppb
2) HBTM Motor Oil (C24-C40)	9.16	2383445329	1300.267 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190617\617007.D
Sample : Diesel/Motor Oil - 5 6/17/19



Data File : G:\APOLLO\DATA\190617\617008.D Vial: 8
 Acq On : 6-17-19 18:20:06 Operator: DP
 Sample : Diesel/Motor Oil - 6 6/17/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:02 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

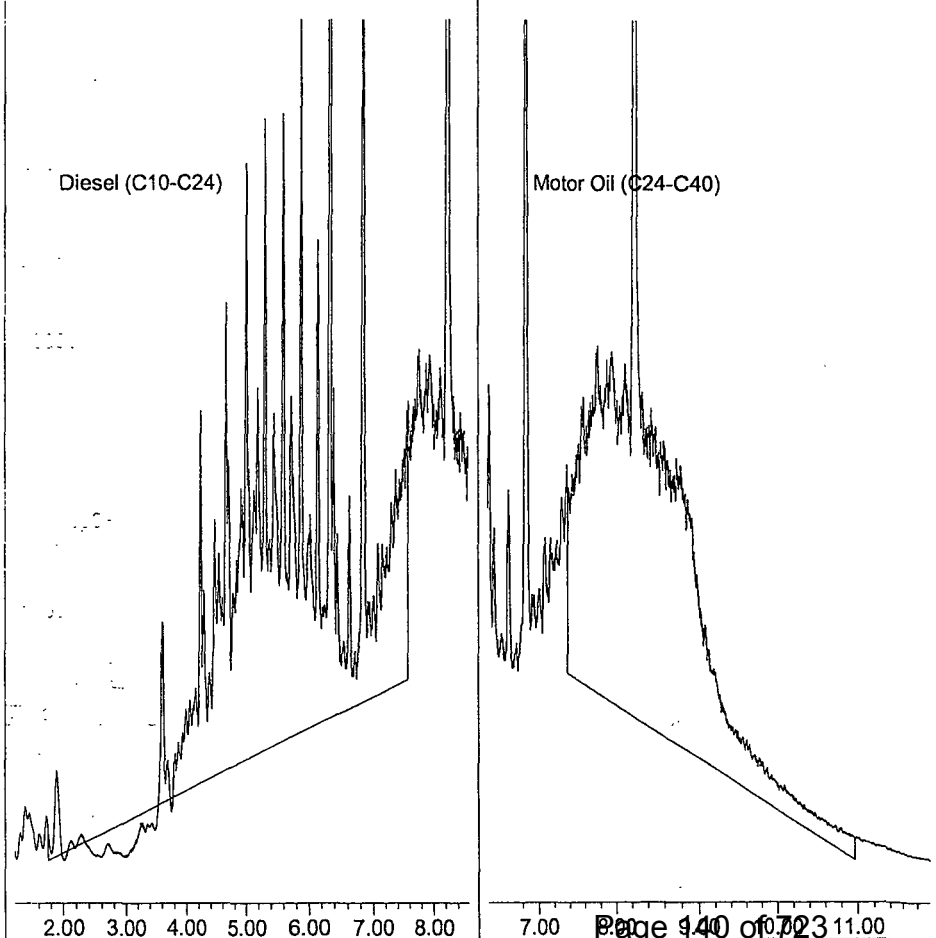
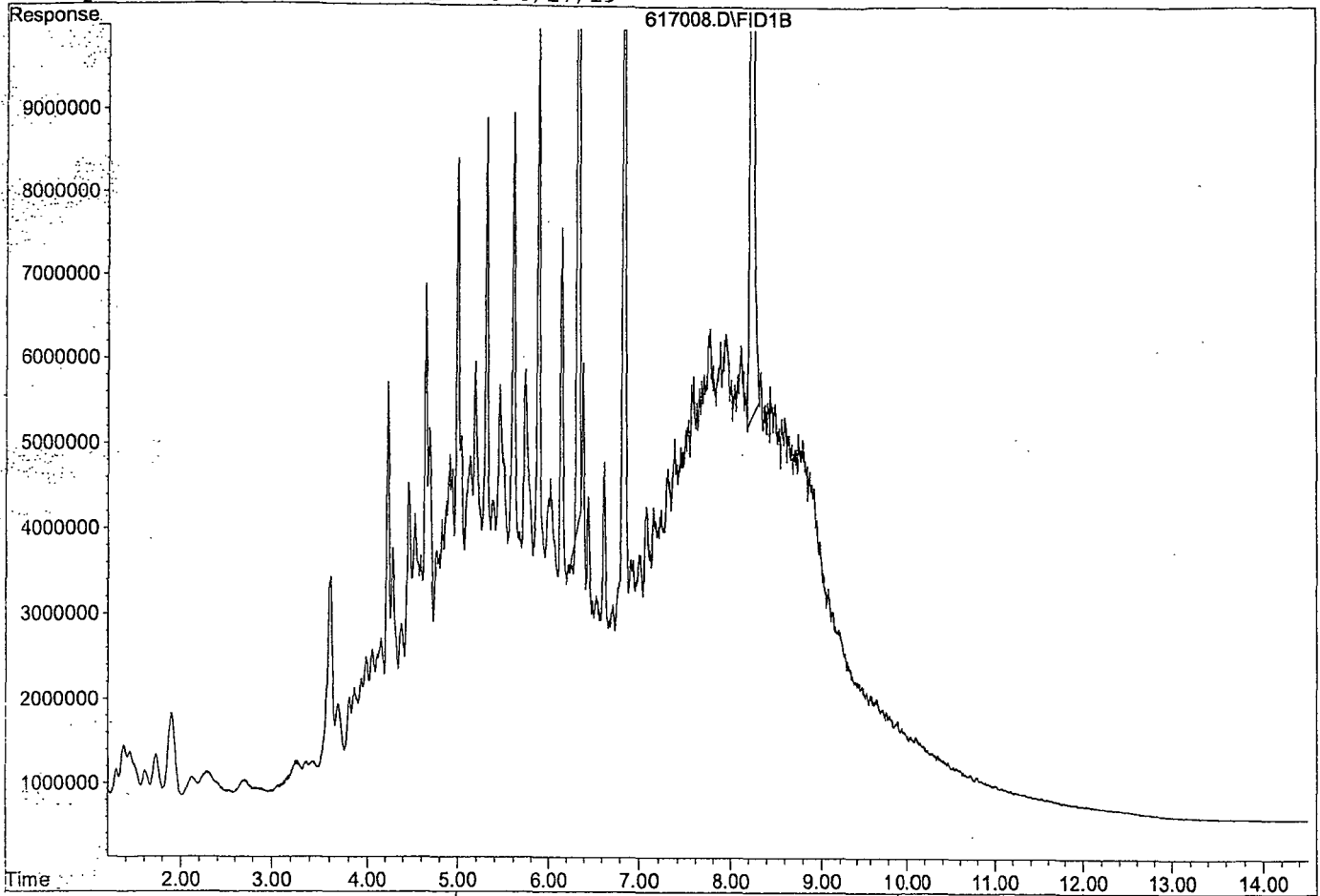
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.34	341007115	93.814 ppb
Surrogate Spike 37.500		Recovery =	250.17%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.23	386797753	105.093 ppb
Surrogate Spike 37.500		Recovery =	280.25%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	4405297136	2036.598 ppb
2) HBTM-Motor Oil (C24-C40)	9.16	3395096242	1852.164 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190617\617008.D

Sample : Diesel/Motor Oil - 6/6/17/19



TPH Extractables
DOC0617

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: Water

SDG No: _____
Date Analyzed: 06/17/19
Instrument: Apollo
Initial Cal. Date: 06/17/19
Data File: 617009.D

	Compound	MEAN	CCRF	%D	%Drift	
1	HATM Diesel (C10-C24)	1351010	1018430	25	HATML	5.3
2	HBTM Motor Oil (C24-C40)	916522	873901	4.7	HBTM	
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
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21						
22						
23						
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25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40	Average			14.9		

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\190617\617009.D Vial: 9
 Acq On : 6-17-19 18:39:28 Operator: DP
 Sample : Diesel/Motor Oil Second Source 1/15/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:21 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

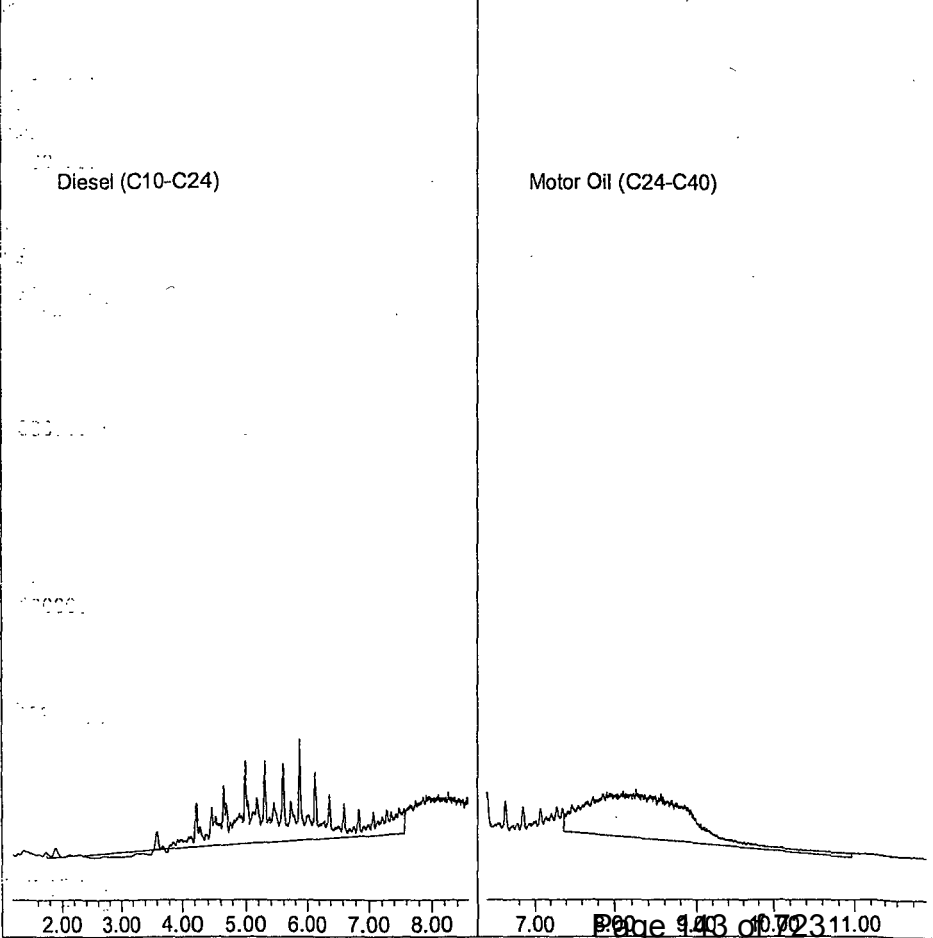
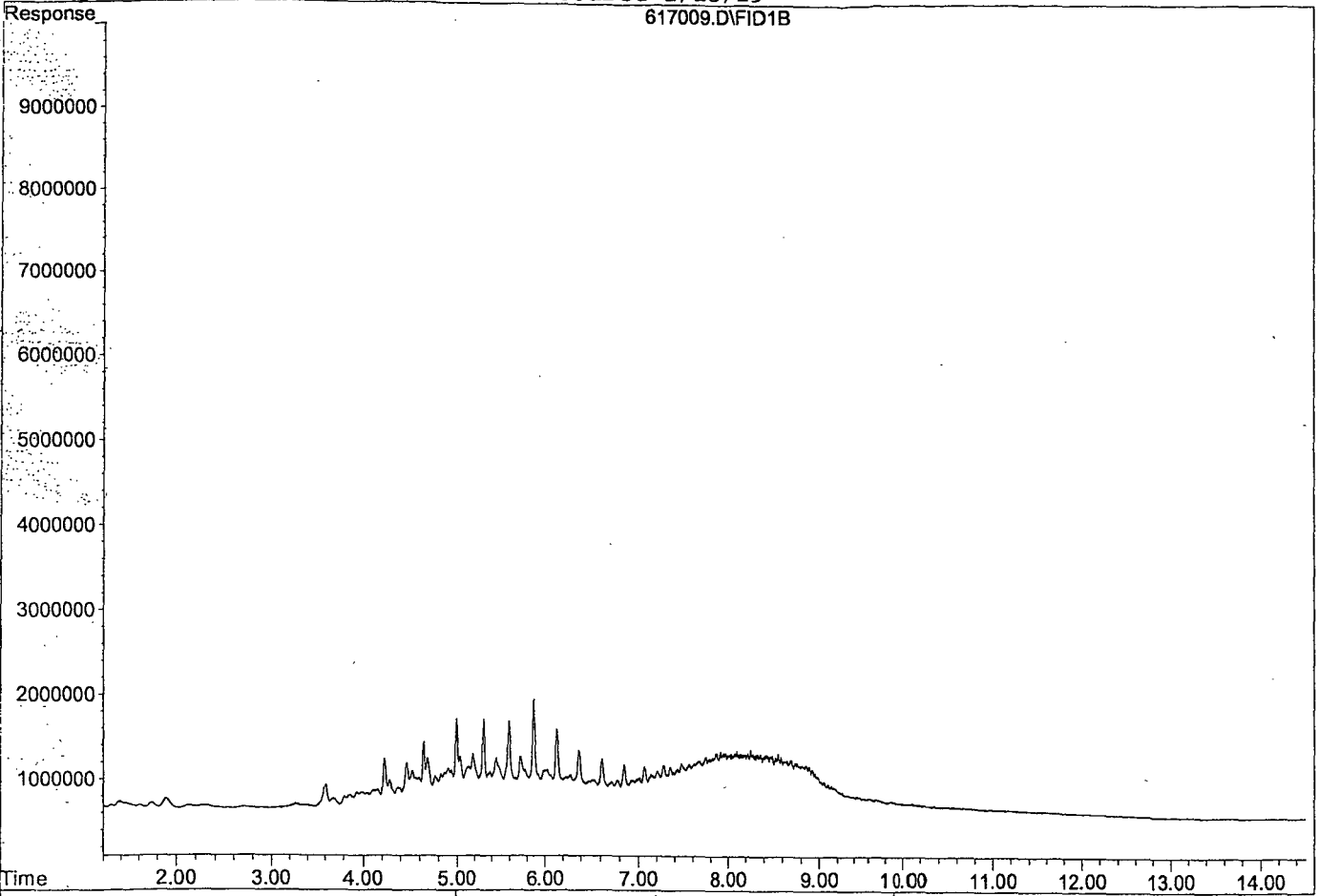
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery	=	0.00%
4) SC Decanoic Acid(S)	0.00	0	N.D.	ppb d
Surrogate Spike 24.000		Recovery	=	0.00%
5) SA Octacosane(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery	=	0.00%
Target Compounds				
1) HATM Diesel (C10-C24)	4.66	509215791	236.663	ppb
2) HBTM Motor Oil (C24-C40)	9.16	436950596	238.374	ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190617\617009.D
Sample : Diesel/Motor Oil Second Source 1/15/19



Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\190411\411009.D Vial: 9
 Acq On : 4-11-19 15:57:31 Operator: DP
 Sample : Decanoic Acid - 1 4/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:04 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

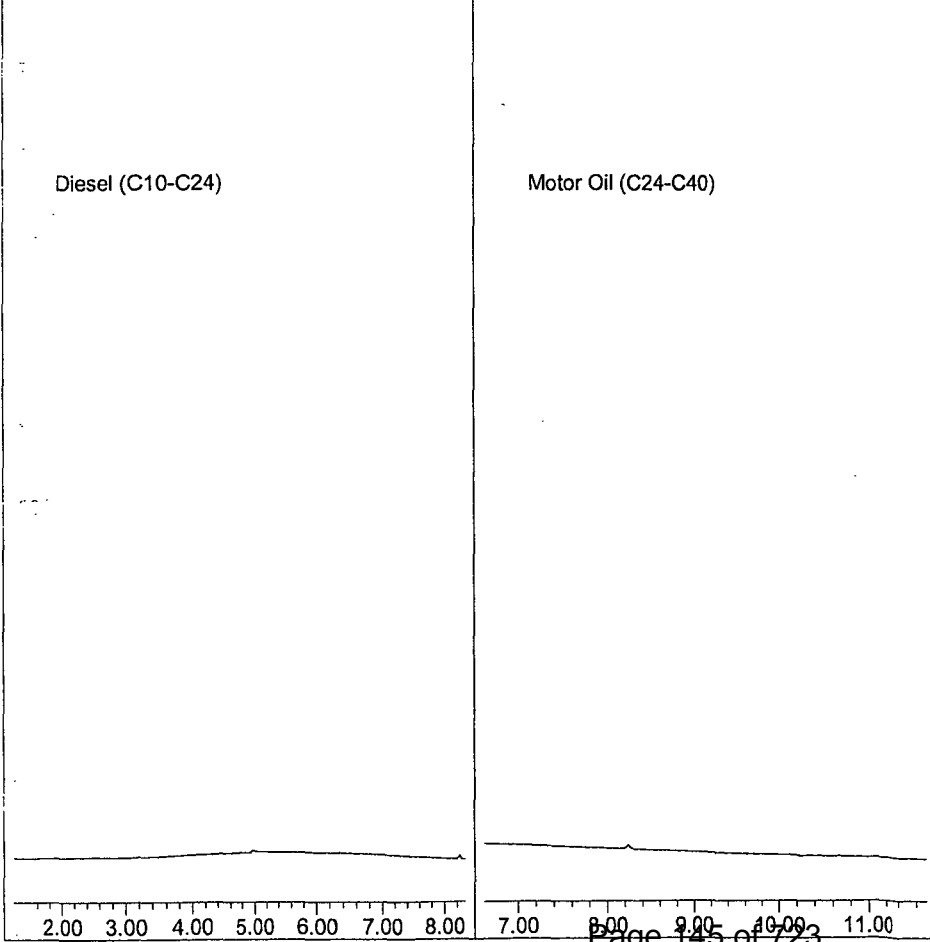
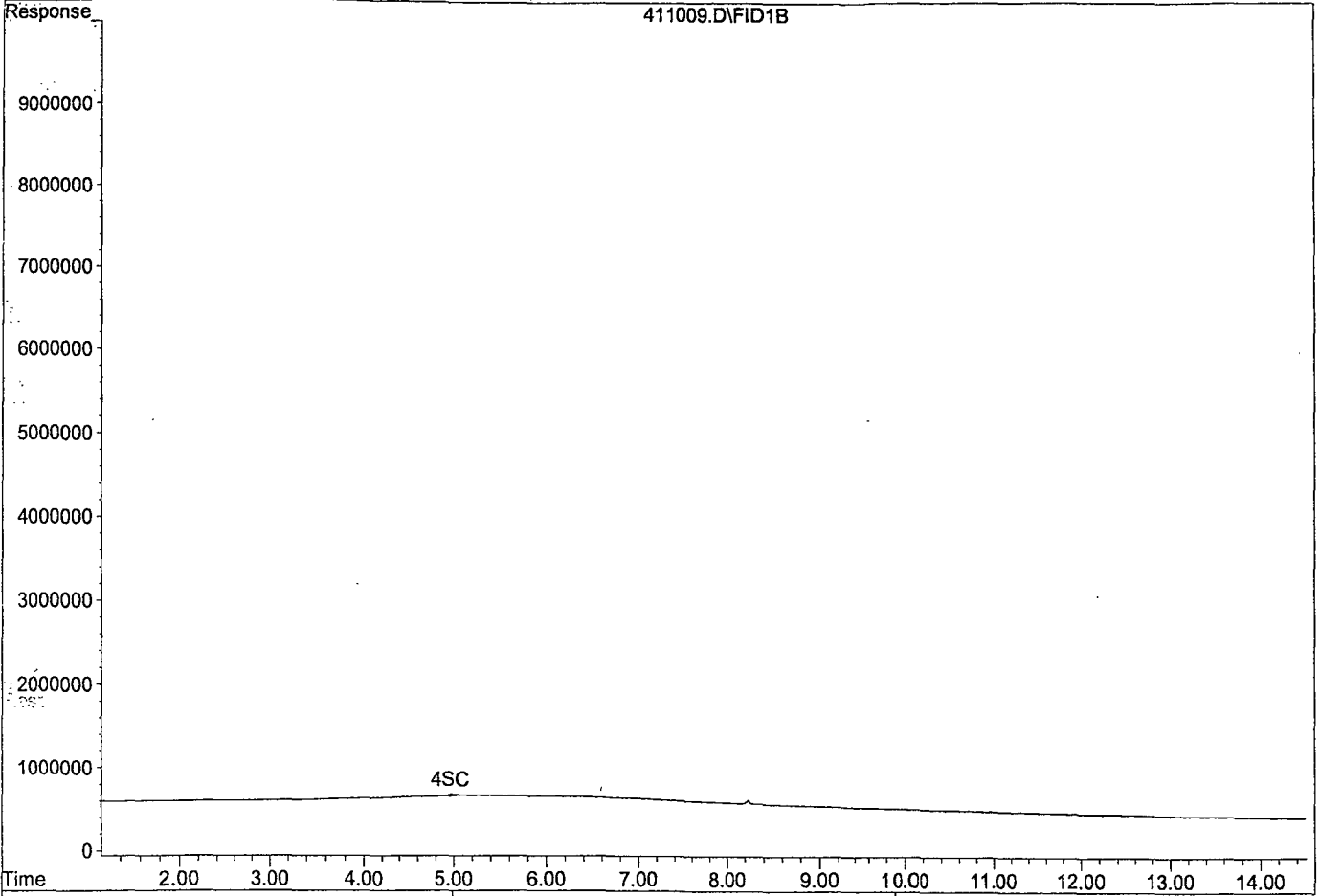
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	0.00	0	N.D. ppb d
Surrogate Spike 37.500		Recovery =	0.00%
4) SC Decanoic Acid(S)	4.95	901062	3.555 ppb m
Surrogate Spike 24.000		Recovery =	14.81%
5) SA Octacosane(S)	0.00	0	N.D. ppb d
Surrogate Spike 37.500		Recovery =	0.00%
Target Compounds			
Target Compounds			
1) HATM Diesel (C10-C24)	0.00	0	N.D. ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D. ppb

Quantitation Report

Data File: G:\APOLLO\DATA\190411\411009.D

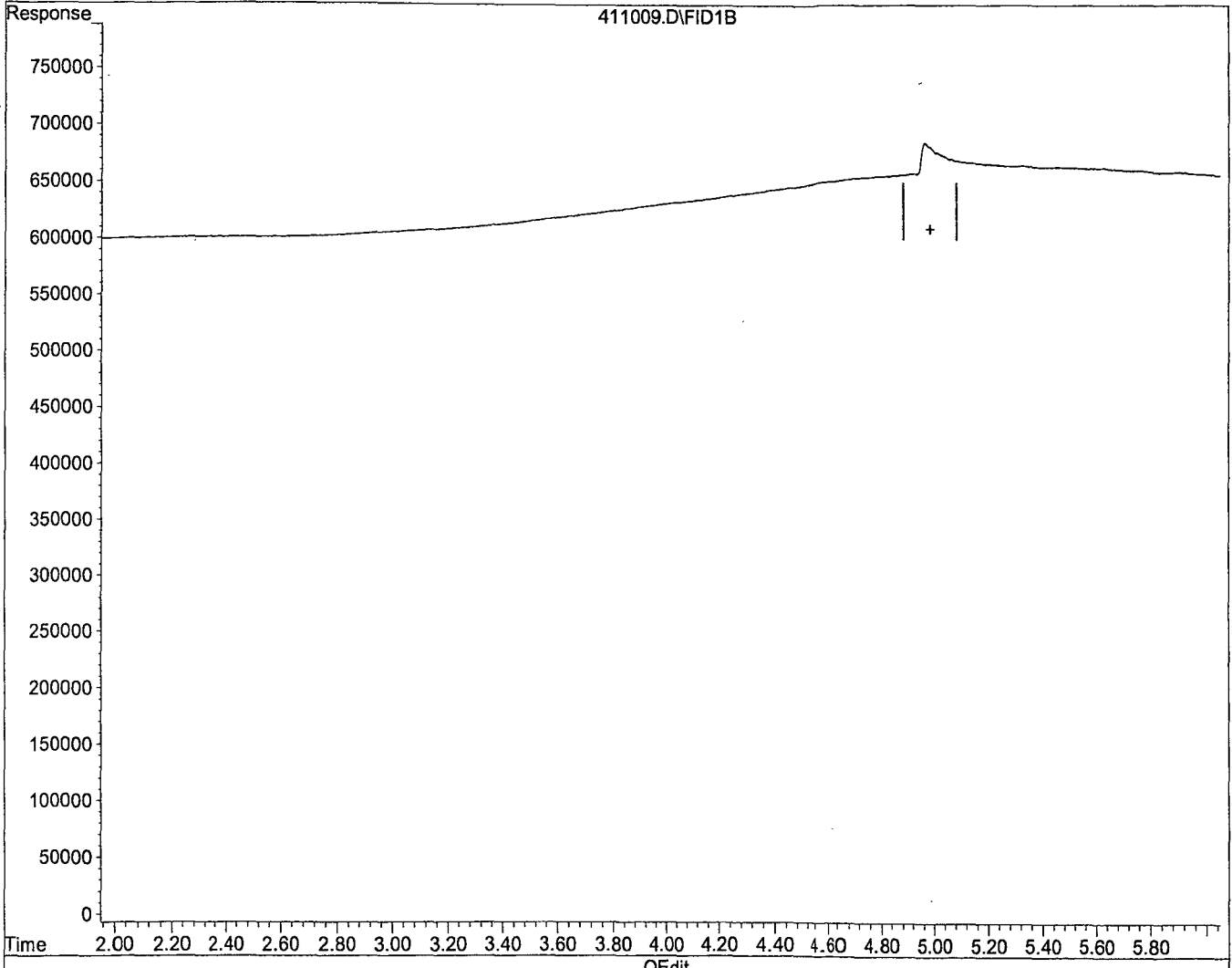
Sample : Decanoic Acid - 1 4/11/19



Quantitation Report

Data File : G:\APOLLO\DATA\190411\411009.D Vial: 9
Acq On : 4-11-19 15:57:31 Operator: DP
Sample : Decanoic Acid - 1 4/11/19 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Jul 17 10:01 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Jul 17 09:56:49 2019
Response via : Multiple Level Calibration

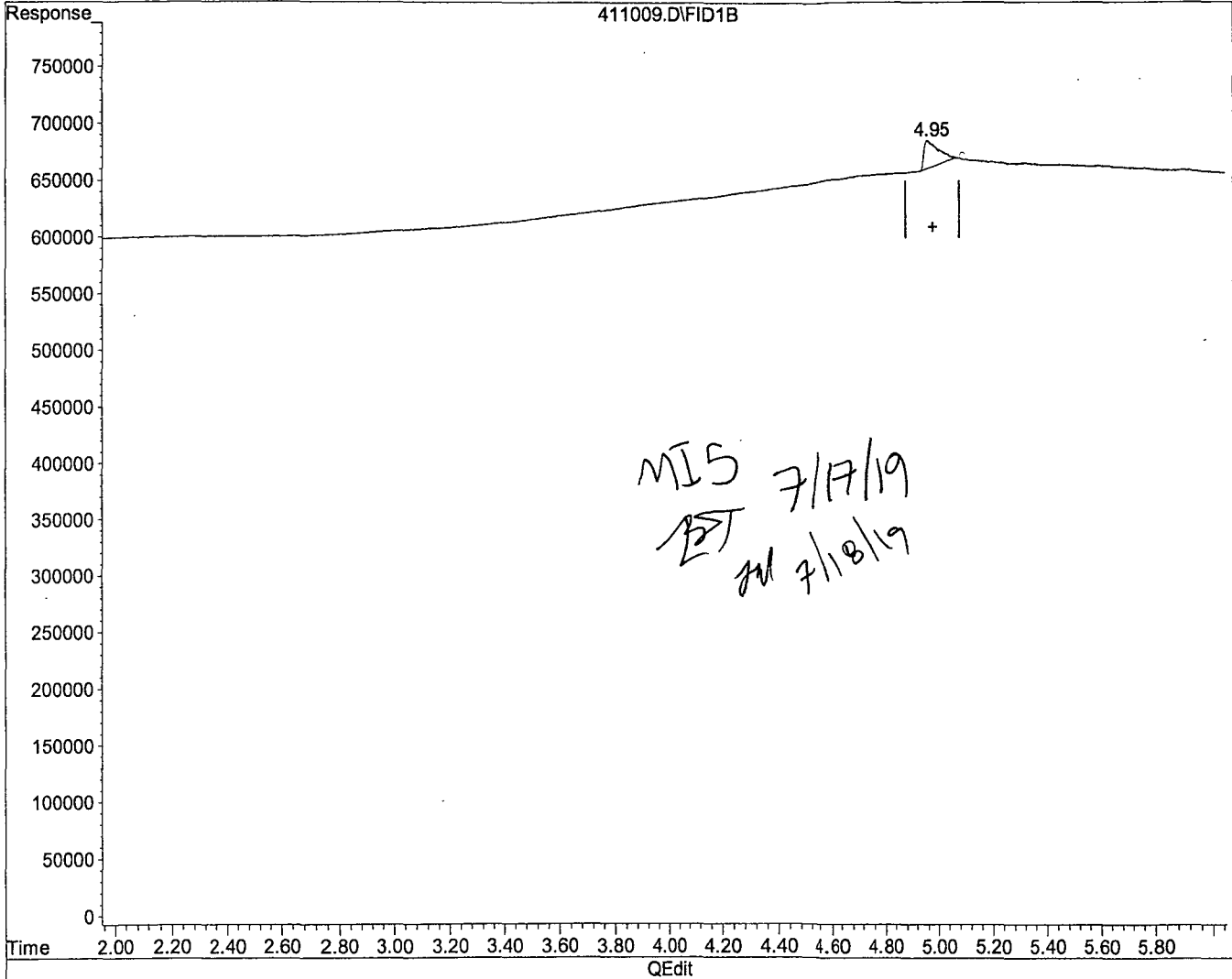


(4) Decanoic Acid(S) (SC)
4.96min -2.682ppb
response -6352807

Quantitation Report

Data File : G:\APOLLO\DATA\190411\411009.D Vial: 9
Acq On : 4-11-19 15:57:31 Operator: DP
Sample : Decanoic Acid - 1 4/11/19 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Jul 17 10:01 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Jul 17 09:56:49 2019
Response via : Multiple Level Calibration



(4) Decanoic Acid(S) (SC)

4.95min 3.555ppb m

response 901062

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\190411\411010.D Vial: 10
 Acq On : 4-11-19 16:16:26 Operator: DP
 Sample : Decanoic Acid - 2 4/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:04 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

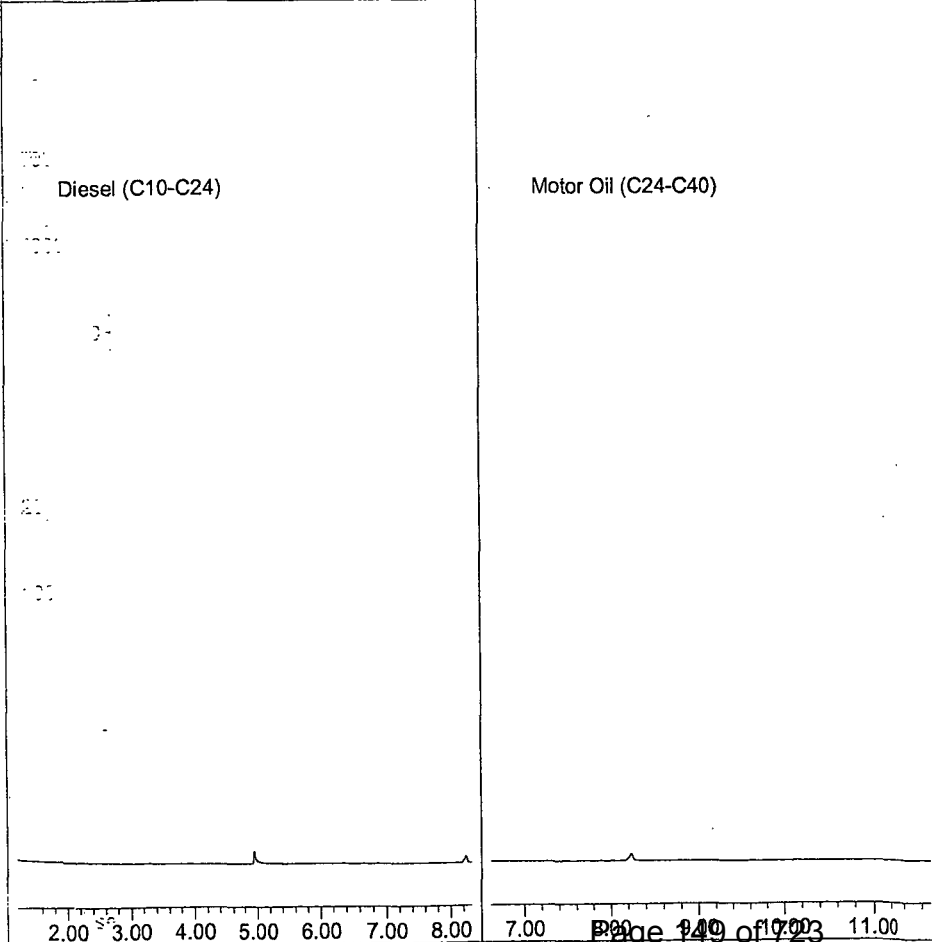
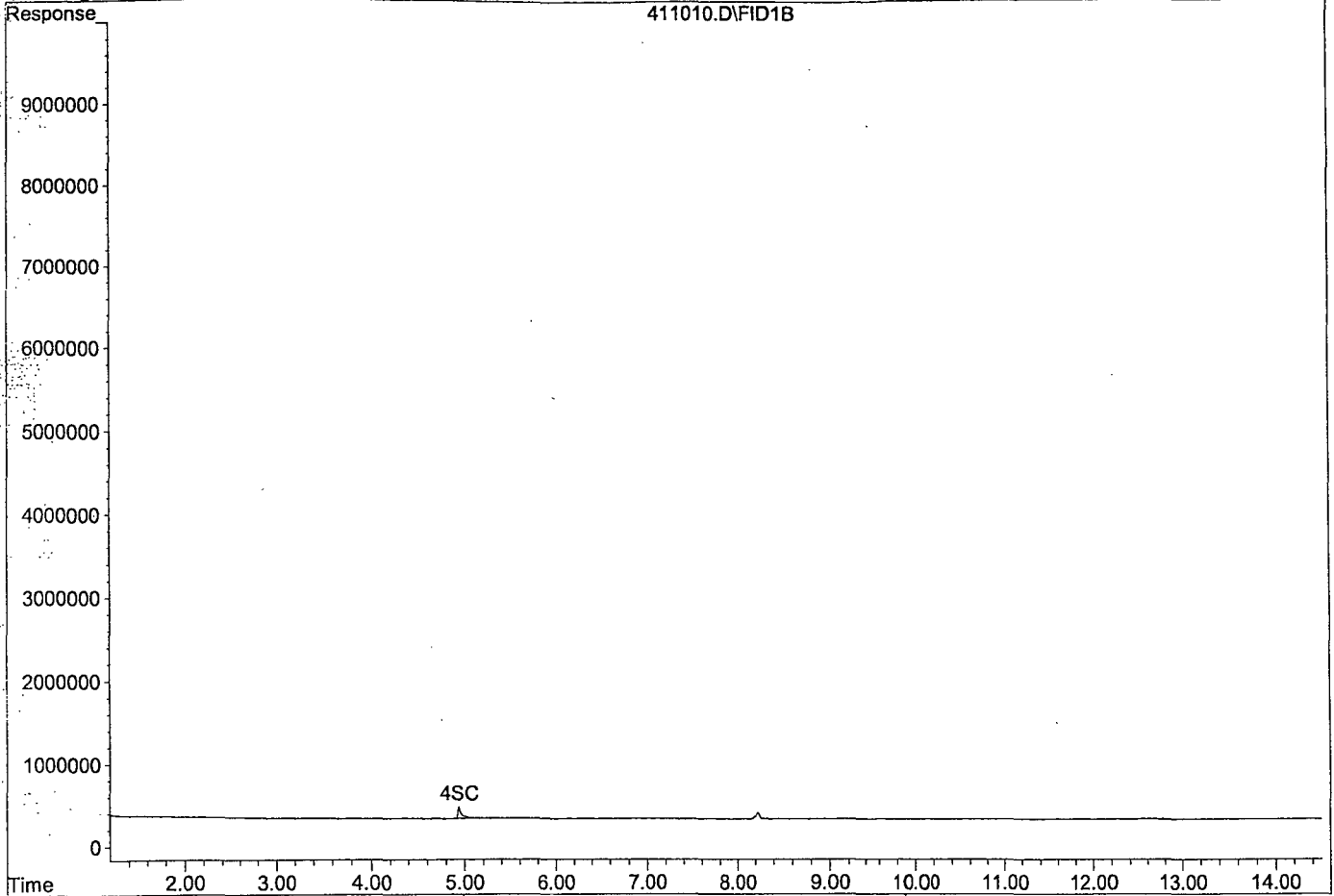
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
4) SC Decanoic Acid(S)	4.94	3775239	6.027	ppb
Surrogate Spike 24.000		Recovery =	25.11%	
5) SA Octacosane(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
Target Compounds				
Target Compounds				
1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb

Quantitation Report

Data File: G:\APOLLO\DATA\190411\411010.D

Sample : Decanoic Acid - 2 4/11/19



Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\190411\411011.D Vial: 11
 Acq On : 4-11-19 16:36:04 Operator: DP
 Sample : Decanoic Acid - 3 4/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:04 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

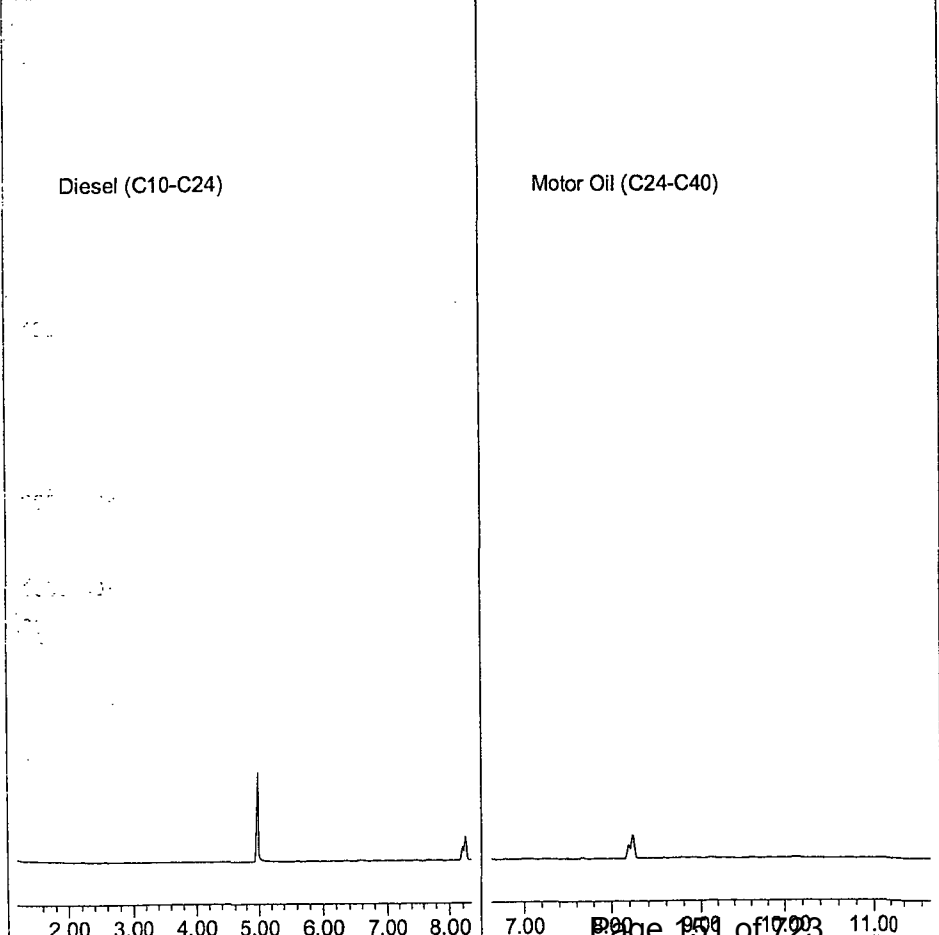
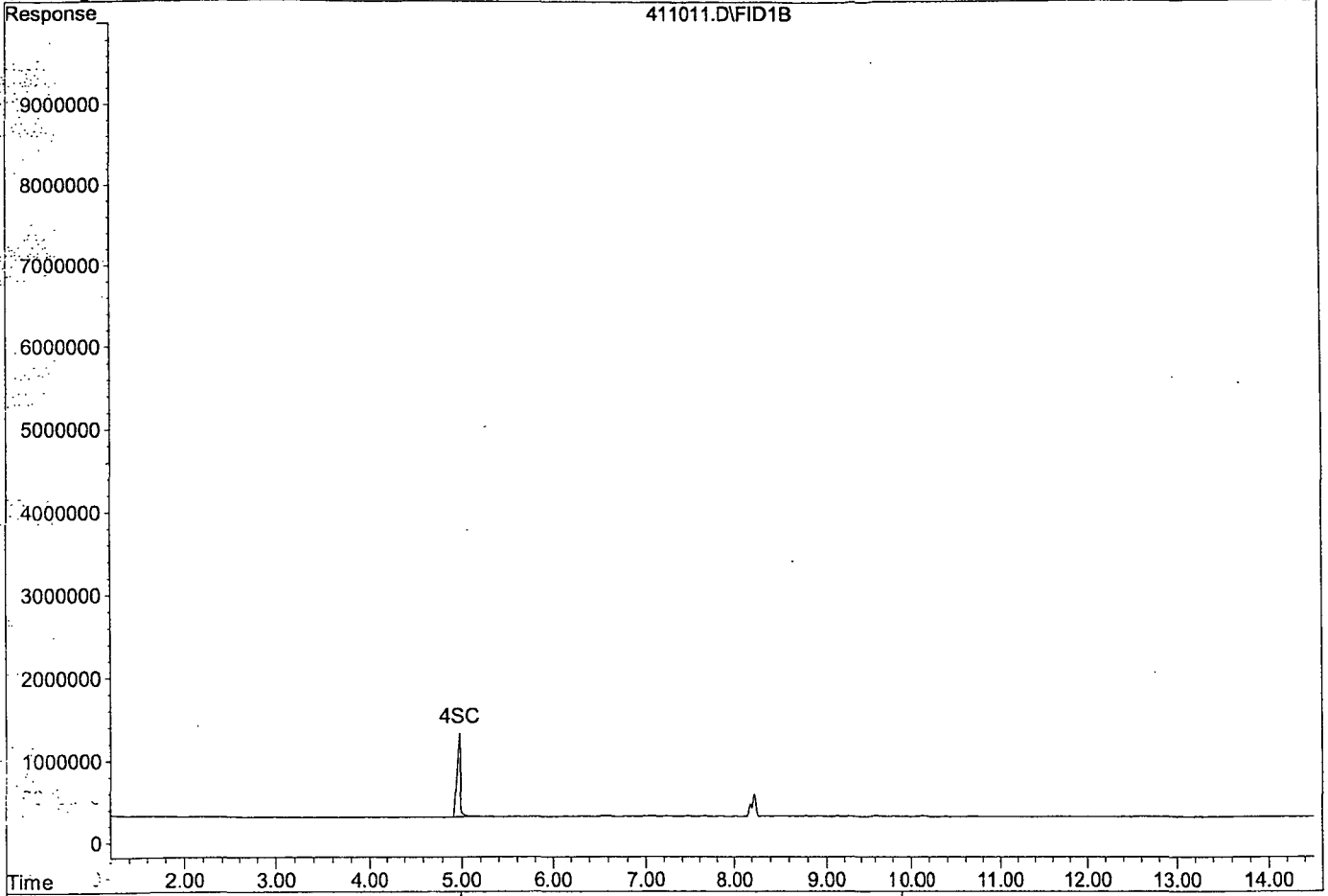
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
4) SC Decanoic Acid(S)	4.97	23638982	23.106	ppb
Surrogate Spike 24.000		Recovery =	96.28%	
5) SA Octacosane(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
Target Compounds				
Target Compounds				
1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb

Quantitation Report

Data File: G:\APOLLO\DATA\190411\411011.D

Sample : Decanoic Acid - 3 4/11/19



Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\190411\411012.D Vial: 12
 Acq On : 4-11-19 16:55:47 Operator: DP
 Sample : Decanoic Acid - 4 4/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:04 2019 Quant Results File: DOC0617.RES

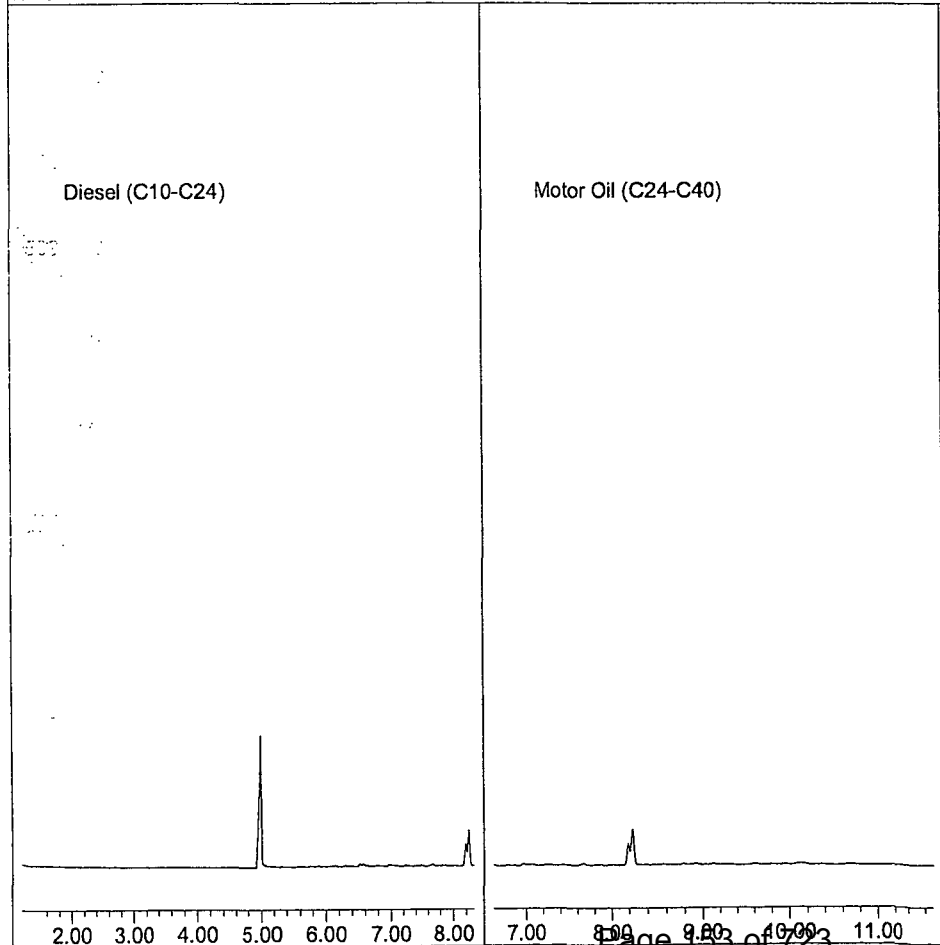
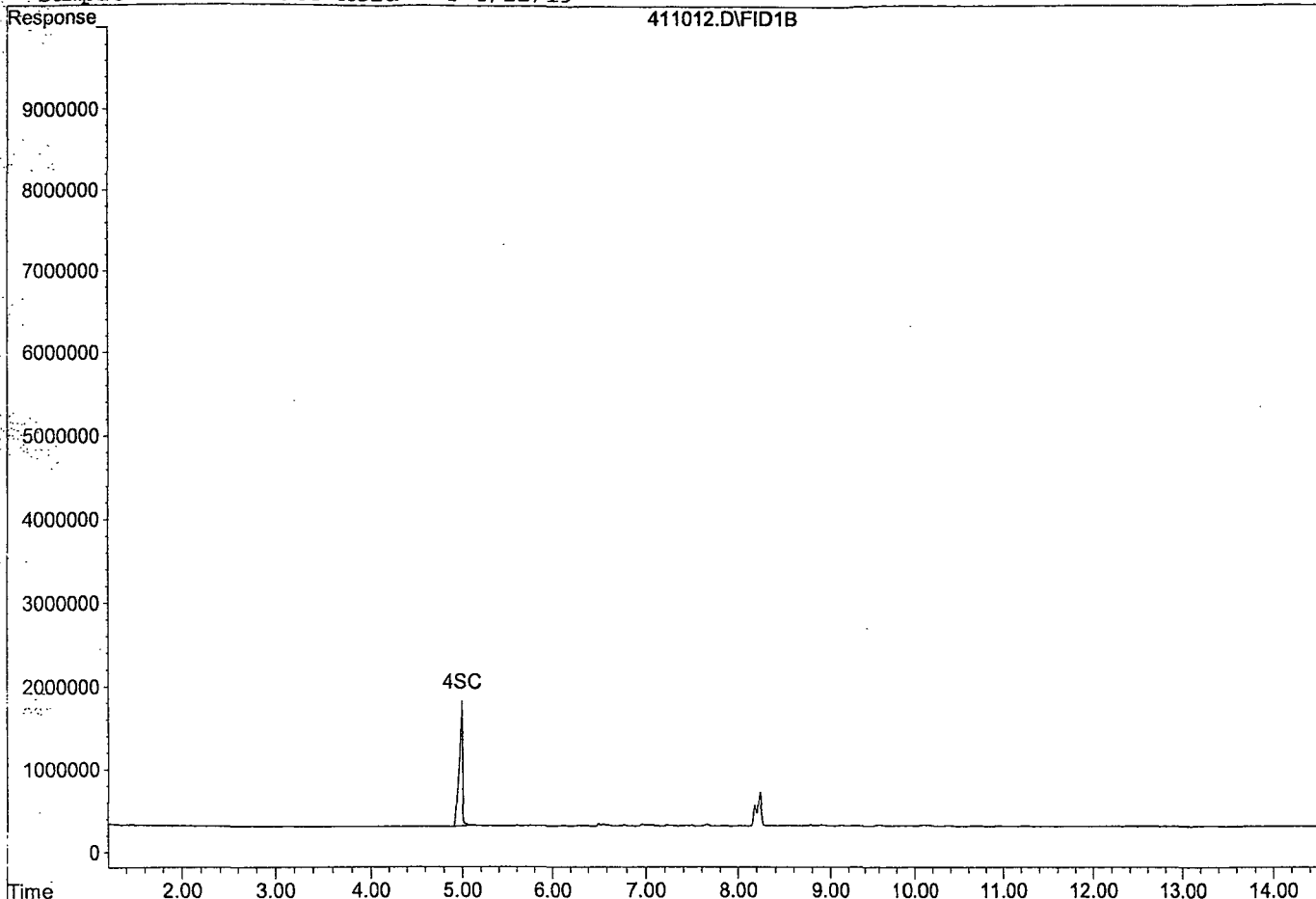
Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
4) SC Decanoic Acid(S)	4.99	38673628	36.034	ppb
Surrogate Spike 24.000		Recovery =	150.14%	
5) SA Octacosane(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
Target Compounds				
Target Compounds				
1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb

Quantitation Report

Data File: G:\APOLLO\DATA\190411\411012.D
Sample : Decanoic Acid - 4 4/11/19



Data File : G:\APOLLO\DATA\190411\411013.D Vial: 13
 Acq On : 4-11-19 17:15:26 Operator: DP
 Sample : Decanoic Acid - 5 4/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:04 2019 Quant Results File: DOC0617.RES

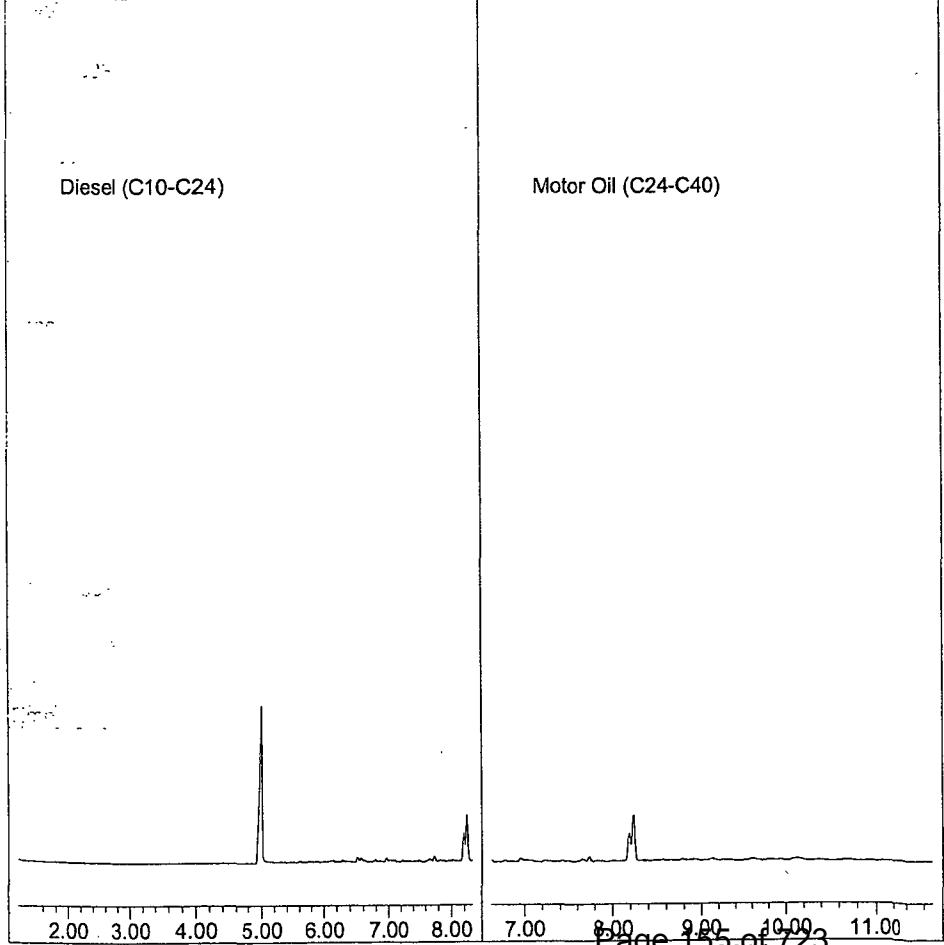
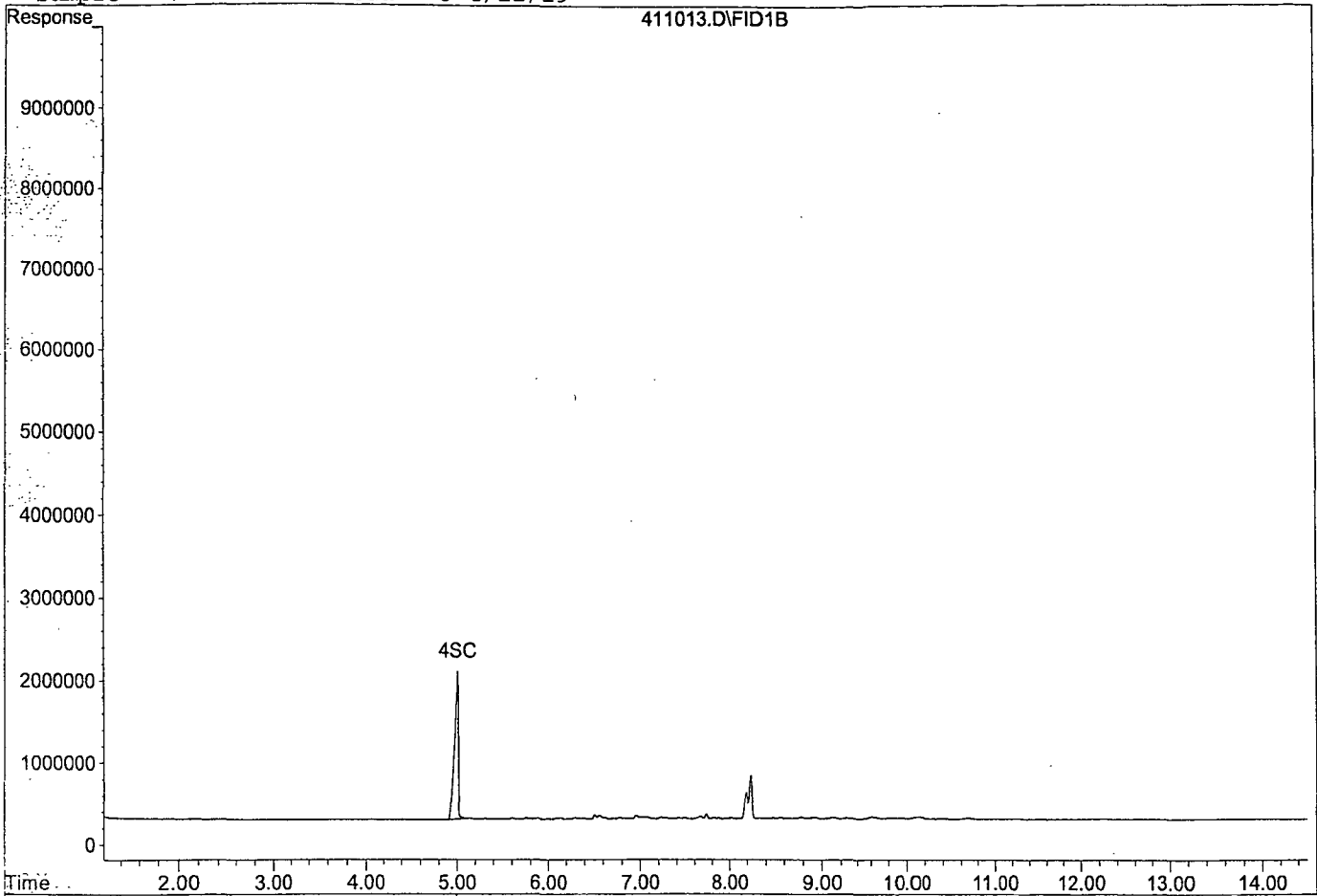
Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	0.00	0	N.D. ppb d
Surrogate Spike 37.500		Recovery =	0.00%
4) SC Decanoic Acid(S)	5.00	52115206	47.592 ppb
Surrogate Spike 24.000		Recovery =	198.30%
5) SA Octacosane(S)	0.00	0	N.D. ppb d
Surrogate Spike 37.500		Recovery =	0.00%
Target Compounds			
Target Compounds			
1) HATM Diesel (C10-C24)	0.00	0	N.D. ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D. ppb

Quantitation Report

Data File: G:\APOLLO\DATA\190411\411013.D
Sample : Decanoic Acid - 5 4/11/19



Data File : G:\APOLLO\DATA\190411\411014.D Vial: 14
 Acq On : 4-11-19 17:35:11 Operator: DP
 Sample : Decanoic Acid - 6 4/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:05 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

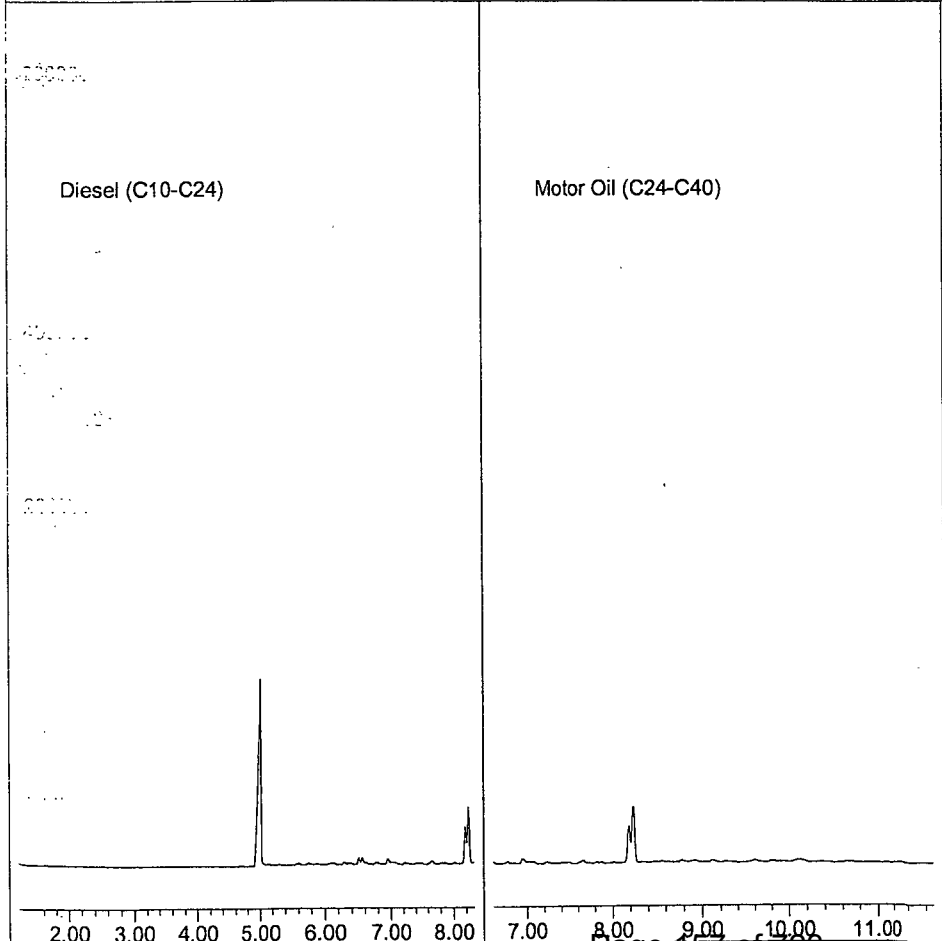
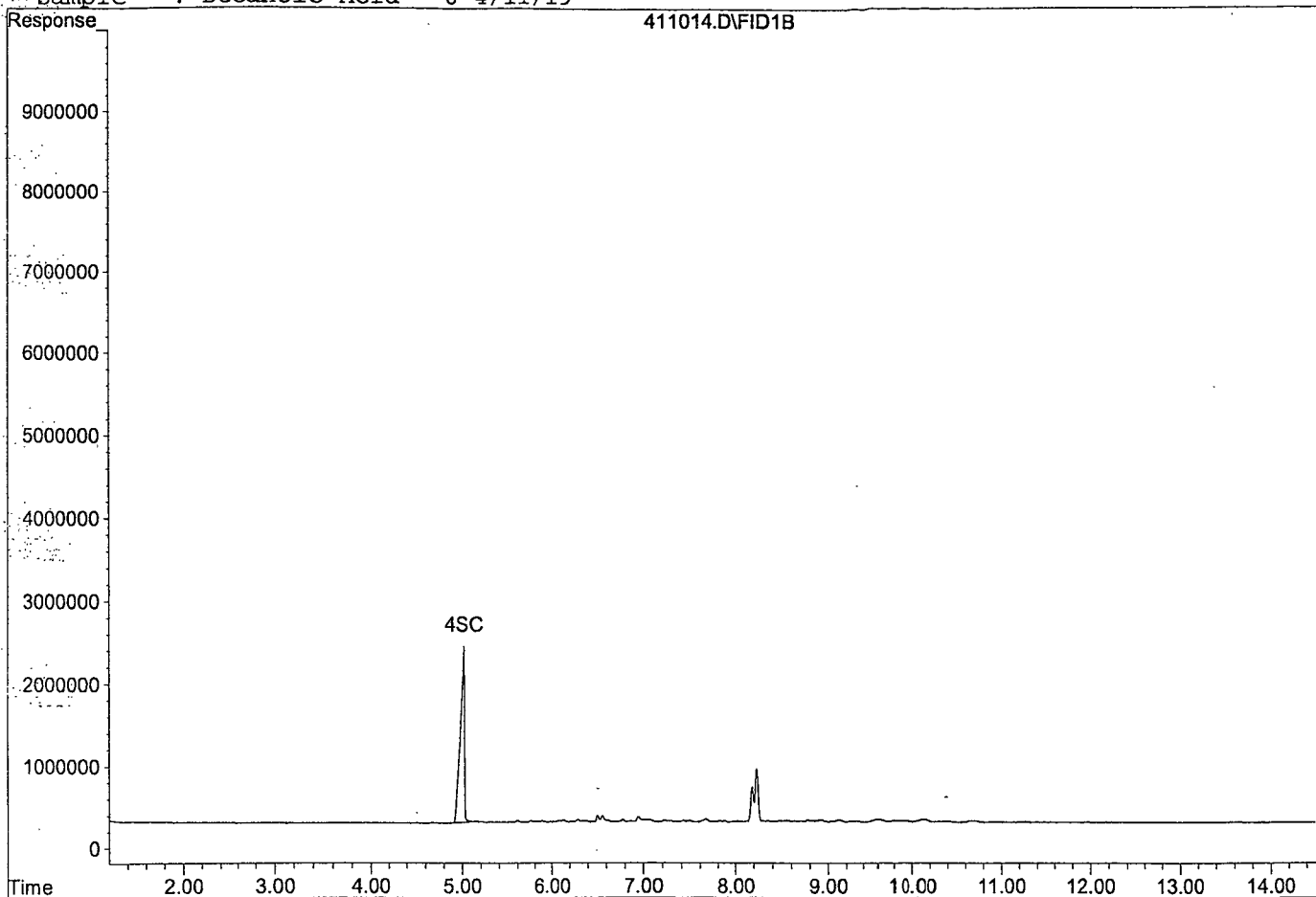
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
4) SC Decanoic Acid(S)	5.02	67279572	60.631	ppb
Surrogate Spike 24.000		Recovery =	252.63%	
5) SA Octacosane(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
Target Compounds				
Target Compounds				
1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb

Quantitation Report

Data File: G:\APOLLO\DATA\190411\411014.D

Sample : Decanoic Acid - 6 4/11/19



TPH Extractables
DEC0807

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: Water

SDG No: _____
Initial Cal. Date: 08/07/19
Instrument: Apollo

Initials: AB/ed

801053.D 801054.D 801055.D 801056.D 801057.D 801058.D

		Compound	1	2	3	4	5	6					Avg	%RSD	Type	r ²	Q
1	SC	Decanoic Acid(S)	614469	822134	962351	1063708	1051839	1094018					934753	20	SC		
2																	
3																	
4																	
5																	
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0.566466

Data File : G:\APOLLO\DATA\190801\801053.D Vial: 53
 Acq On : 8-7-19 16:40:26 Operator: DP
 Sample : Decanoic Acid-1 8/07/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 8 12:58 2019 Quant Results File: DEC0807.RES

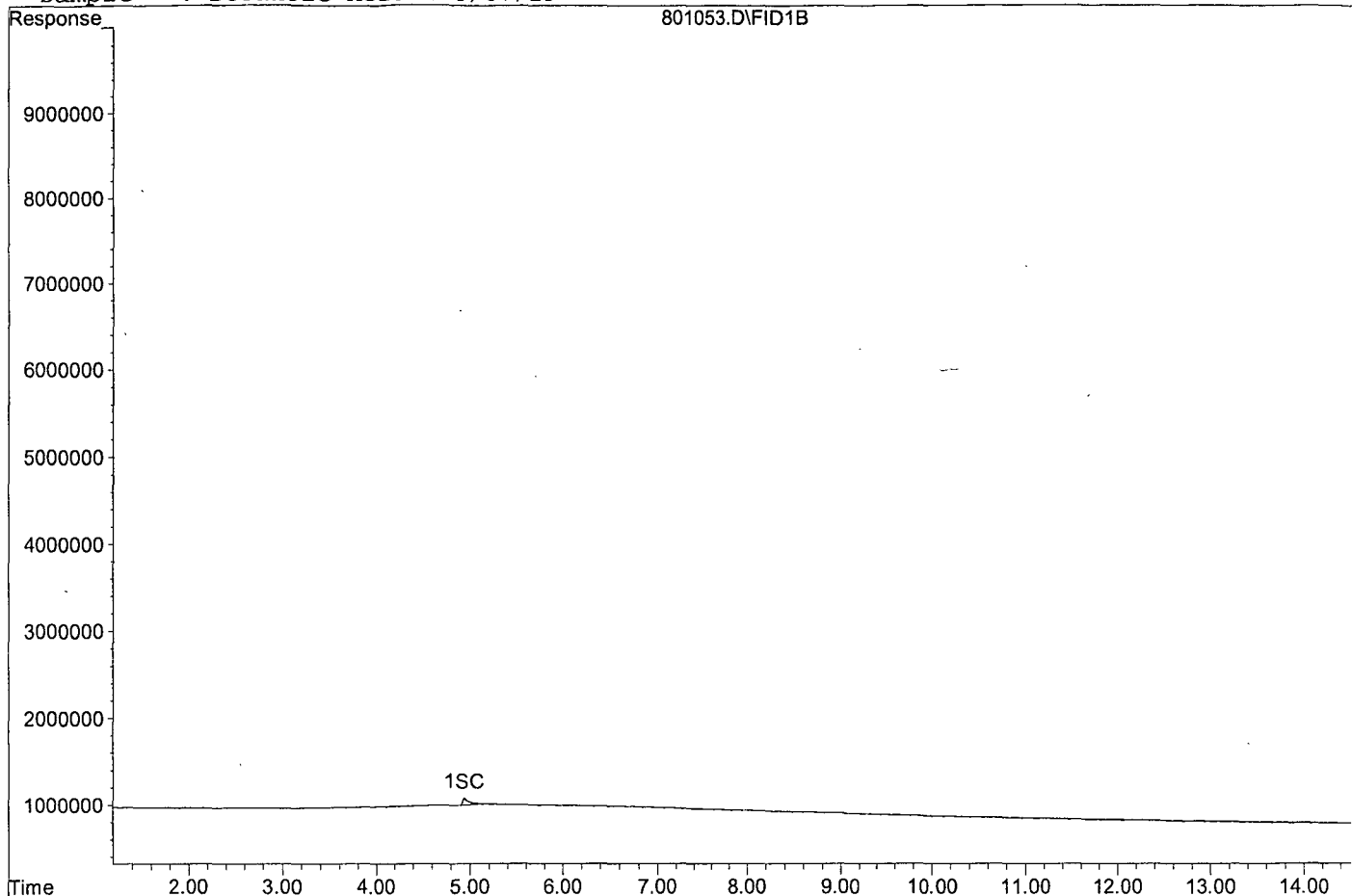
Method : G:\APOLLO\DATA\190801\DEC0807.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Thu Aug 08 12:58:08 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) SC Decanoic Acid(S)	4.93	3686815	1.972 ppb
Surrogate Spike 24.000	Recovery	=	8.22%
Target Compounds			
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\190801\801053.D
Sample : Decanoic Acid-1 8/07/19



Data File : G:\APOLLO\DATA\190801\801054.D Vial: 54
 Acq On : 8-7-19 16:59:26 Operator: DP
 Sample : Decanoic Acid-2 8/07/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 8 12:58 2019 Quant Results File: DEC0807.RES

Method : G:\APOLLO\DATA\190801\DEC0807.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Thu Aug 08 12:58:08 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

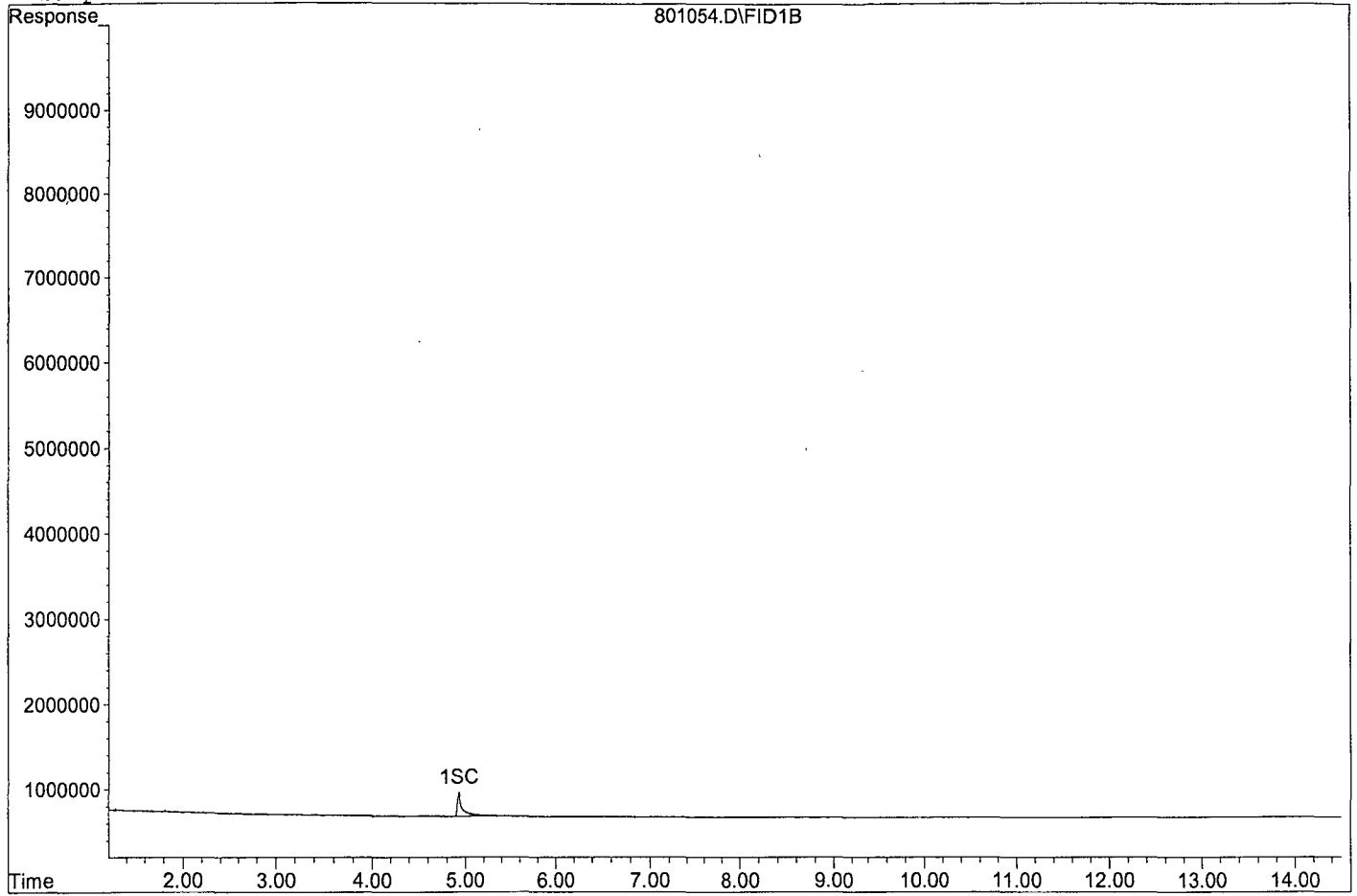
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) SC Decanoic Acid(S)	4.93f	9865604	5.277 ppb
Surrogate Spike 24.000	Recovery	=	21.99%
Target Compounds			
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\190801\801054.D

Sample : Decanoic Acid-2 8/07/19



Data File : G:\APOLLO\DATA\190801\801055.D Vial: 55
 Acq On : 8-7-19 17:19:24 Operator: DP
 Sample : Decanoic Acid-3 8/07/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 8 12:58 2019 Quant Results File: DEC0807.RES

Method : G:\APOLLO\DATA\190801\DEC0807.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Thu Aug 08 12:58:08 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds			
1) SC Decanoic Acid(S)	4.98	46192838	24.709 ppb
Surrogate Spike 24.000		Recovery =	102.95%

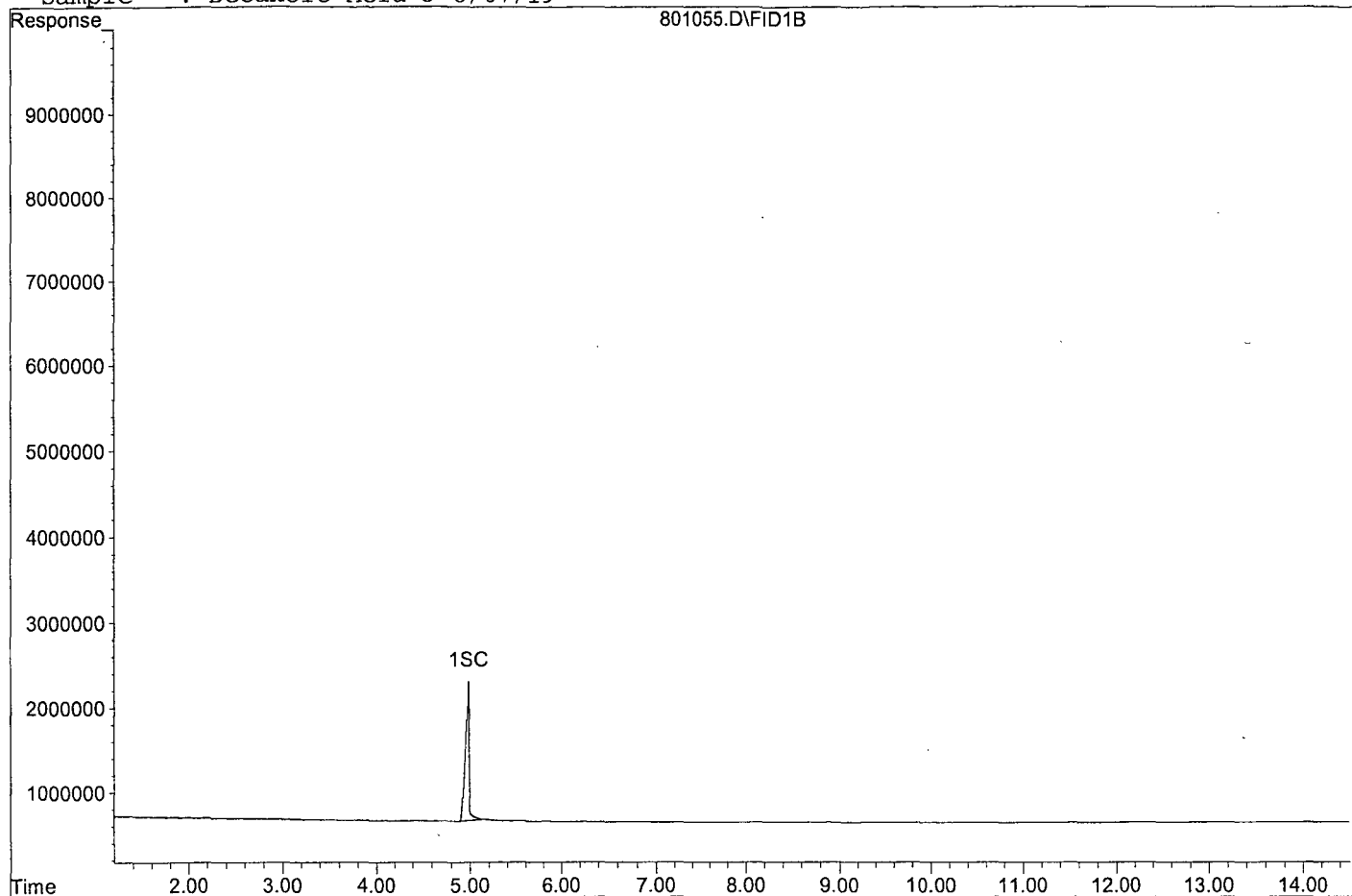
Target Compounds

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190801\801055.D

Sample : Decanoic Acid-3 8/07/19



Data File : G:\APOLLO\DATA\190801\801056.D Vial: 56
 Acq On : 8-7-19 17:38:43 Operator: DP
 Sample : Decanoic Acid-4 8/07/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 8 12:58 2019 Quant Results File: DEC0807.RES

Method : G:\APOLLO\DATA\190801\DEC0807.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Thu Aug 08 12:58:08 2019
 Response via : Multiple Level Calibration

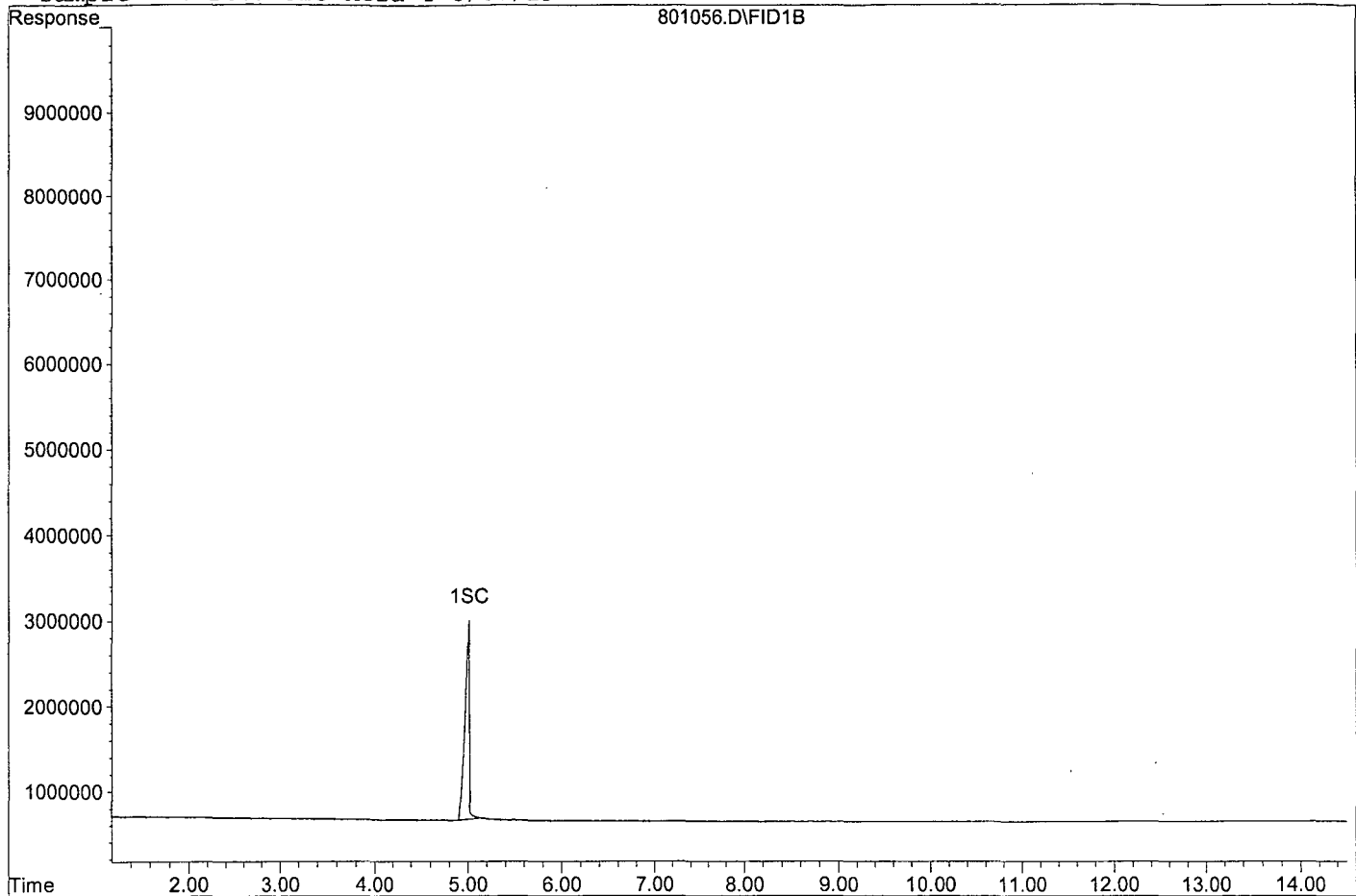
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) SC Decanoic Acid(S)	5.00	76586998	40.966 ppb
Surrogate Spike 24.000		Recovery =	170.69%
Target Compounds			
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\190801\801056.D

Sample : Decanoic Acid-4 8/07/19



Data File : G:\APOLLO\DATA\190801\801057.D Vial: 57
 Acq On : 8-7-19 17:58:50 Operator: DP
 Sample : Decanoic Acid-5 8/07/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 8 12:58 2019 Quant Results File: DEC0807.RES

Method : G:\APOLLO\DATA\190801\DEC0807.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Thu Aug 08 12:58:08 2019
 Response via : Multiple Level Calibration

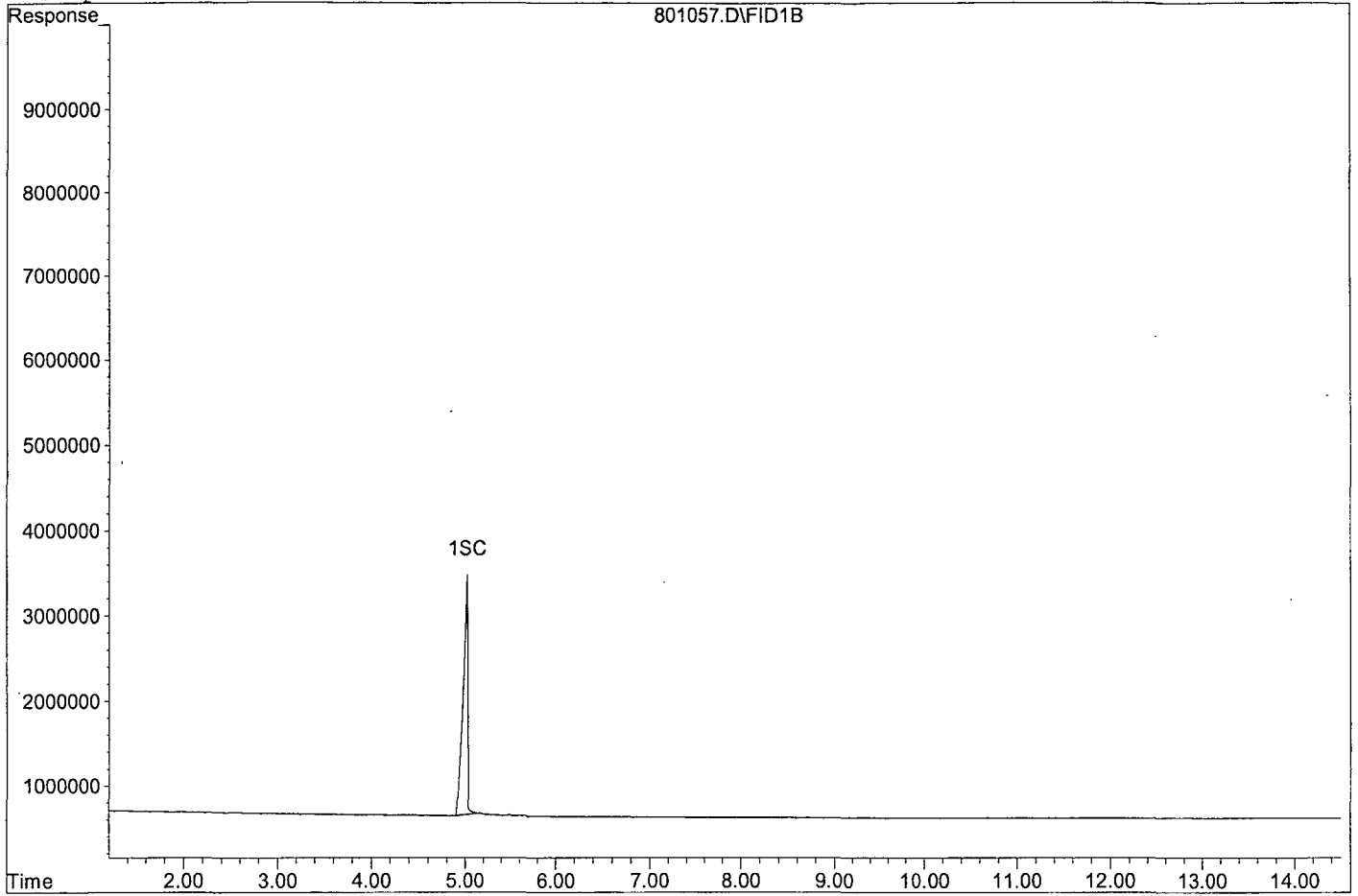
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) SC Decanoic Acid(S)	5.02	100976566	54.012 ppb
Surrogate Spike 24.000		Recovery =	225.05%

Target Compounds
 Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190801\801057.D
Sample : Decanoic Acid-5 8/07/19



Data File : G:\APOLLO\DATA\190801\801058.D Vial: 58
 Acq On : 8-7-19 18:18:48 Operator: DP
 Sample : Decanoic Acid-6 8/07/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 8 12:59 2019 Quant Results File: DEC0807.RES

Method : G:\APOLLO\DATA\190801\DEC0807.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Thu Aug 08 12:58:08 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

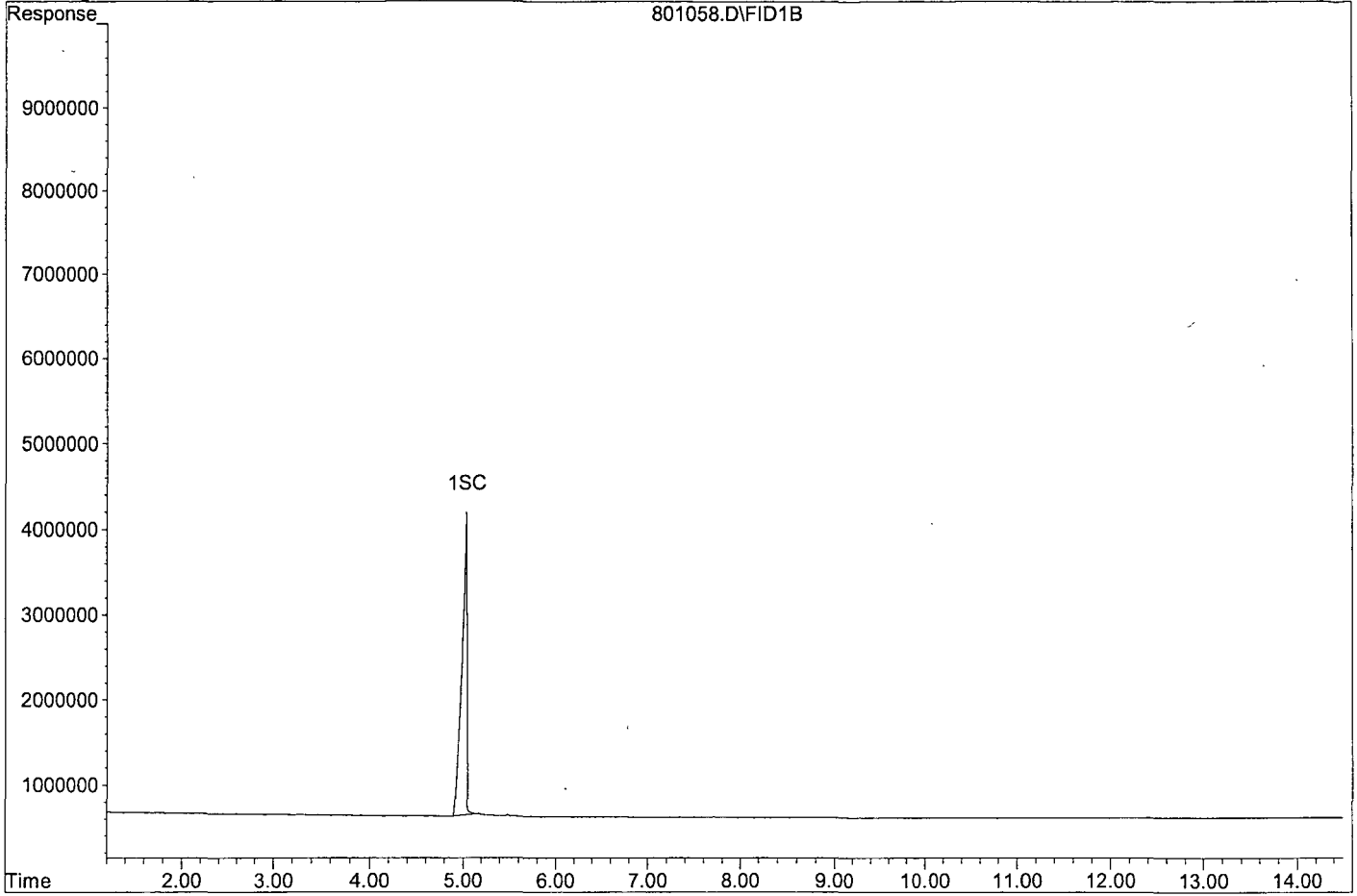
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) SC Decanoic Acid(S)	5.04f	131282160	70.223 ppb
Surrogate Spike 24.000	Recovery	=	292.60%
Target Compounds			
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\190801\801058.D

Sample : Decanoic Acid-6 8/07/19



TPH Extractables
DOC0617

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: 89607

Case No: _____

Date Analyzed: 07/30/19

Matrix: Water

Instrument: Apollo

Initial Cal. Date: 06/17/19

Data File: 713253.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C24)	1351010	1044610	23	HATML	2.9
2	HBTM	Motor Oil (C24-C40)	916522	836579	8.7	HBTM	
3	SA	Ortho-Terphenyl(S)	1817470	1794810	1.2	SA	
4	SA	Octacosane(S)	1840270	1768300	3.9	SA	
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39							
40		Average			9.2		

Average

9.2

Data File : G:\APOLLO\DATA\190713\713253.D Vial: 53
 Acq On : 7-30-19 18:18:15 Operator: DP
 Sample : Diesel/Motor Oil CCV 7/19/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 8 10:04 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

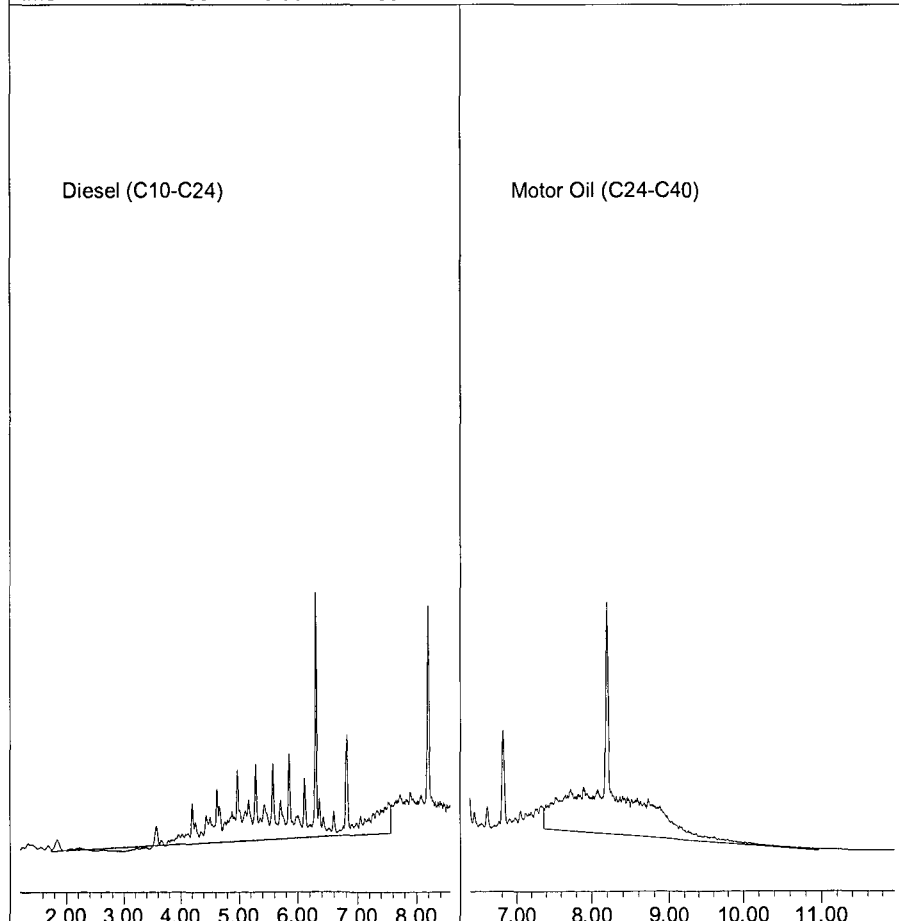
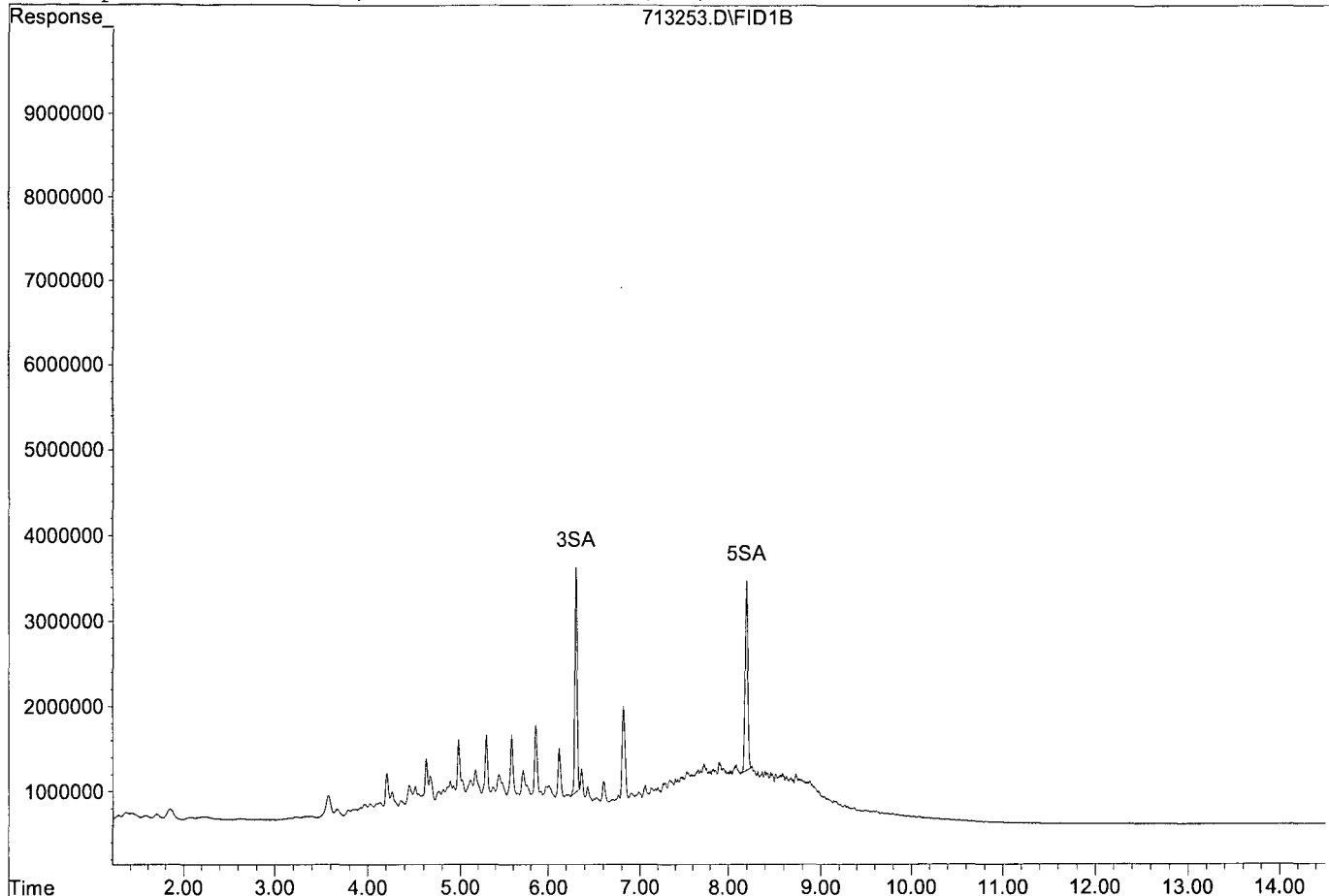
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	44870308	12.344 ppb
Surrogate Spike 37.500		Recovery =	32.92%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.20	44207443	12.011 ppb
Surrogate Spike 37.500		Recovery =	32.03%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	522304180	242.709 ppb
2) HBTM Motor Oil (C24-C40)	9.16	418289464	228.194 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190713\713253.D

Sample : Diesel/Motor Oil CCV 7/19/19



TPH Extractables
DOC0617

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: 89607

Case No: _____

Date Analyzed: 07/30/19

Matrix: Water

Instrument: Apollo

Initial Cal. Date: 06/17/19

Data File: 713267.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C24)	1351010	1065300	21	HATML	1.0
2	HBTM	Motor Oil (C24-C40)	916522	837632	8.6	HBTM	
3	SA	Ortho-Terphenyl(S)	1817470	1831690	0.78	SA	
4	SA	Octacosane(S)	1840270	1800810	2.1	SA	
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Average

8.1

Data File : G:\APOLLO\DATA\190713\713267.D Vial: 67
 Acq On : 7-30-19 22:57:31 Operator: DP
 Sample : Diesel/Motor Oil CCV 7/19/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 8 10:07 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

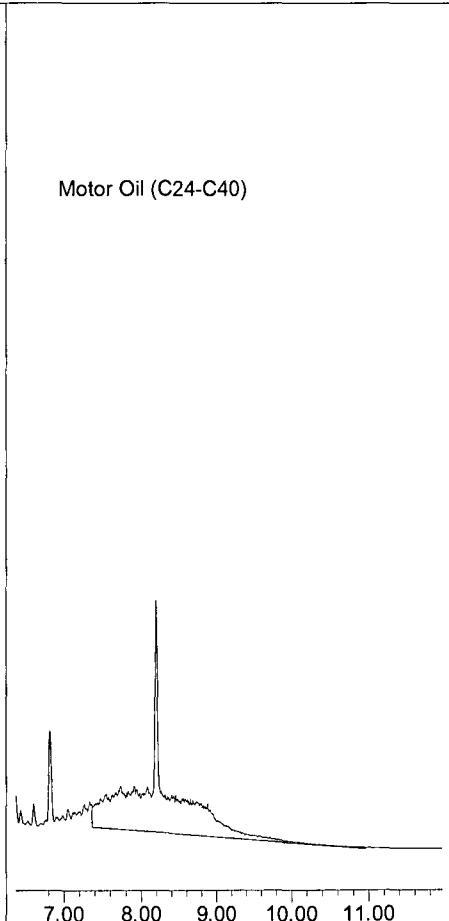
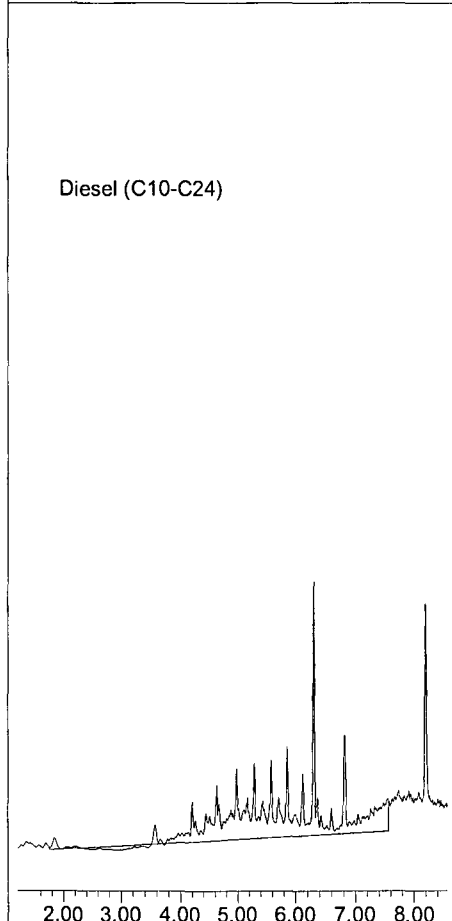
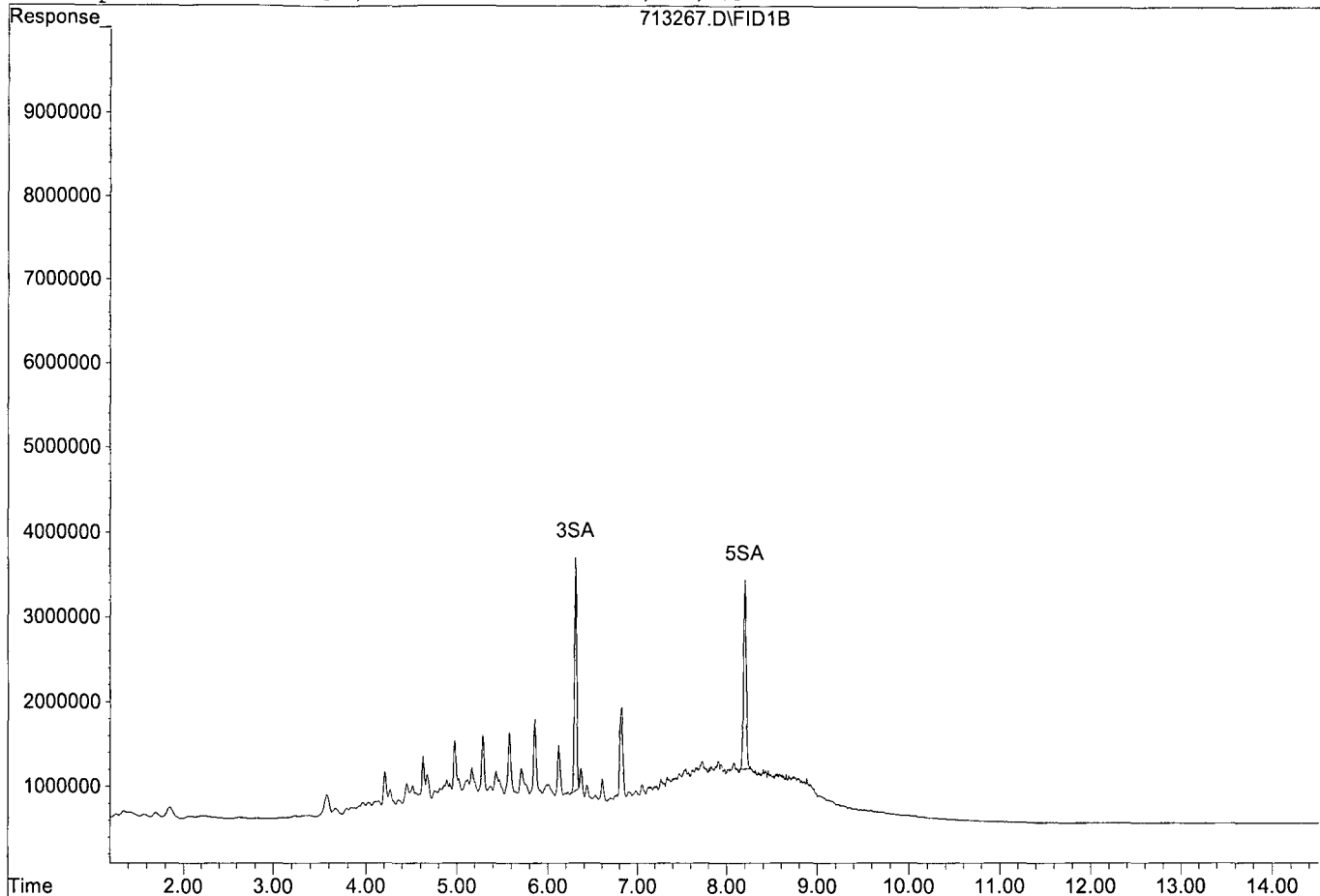
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	45792223	12.598 ppb
Surrogate Spike 37.500		Recovery =	33.59%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.20	45020171	12.232 ppb
Surrogate Spike 37.500		Recovery =	32.62%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	532650231	247.489 ppb
2) HBTM Motor Oil (C24-C40)	9.16	418815878	228.481 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190713\713267.D
Sample : Diesel/Motor Oil CCV 7/19/19



TPH Extractables
DOC0617

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: 89607

Case No: _____

Date Analyzed: 07/31/19

Matrix: Water

Instrument: Apollo

Initial Cal. Date: 06/17/19

Data File: 713273.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C24)	1351010	1138660	16	HATML	5.8
2	HBTM	Motor Oil (C24-C40)	916522	862519	5.9	HBTM	
3	SA	Ortho-Terphenyl(S)	1817470	1845530	1.5	SA	
4	SA	Octacosane(S)	1840270	1855300	0.82	SA	
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Average

6.1

Data File : G:\APOLLO\DATA\190713\713273.D Vial: 73
 Acq On : 7-31-19 0:55:55 Operator: DP
 Sample : Diesel/Motor Oil CCV 7/19/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 8 10:13 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

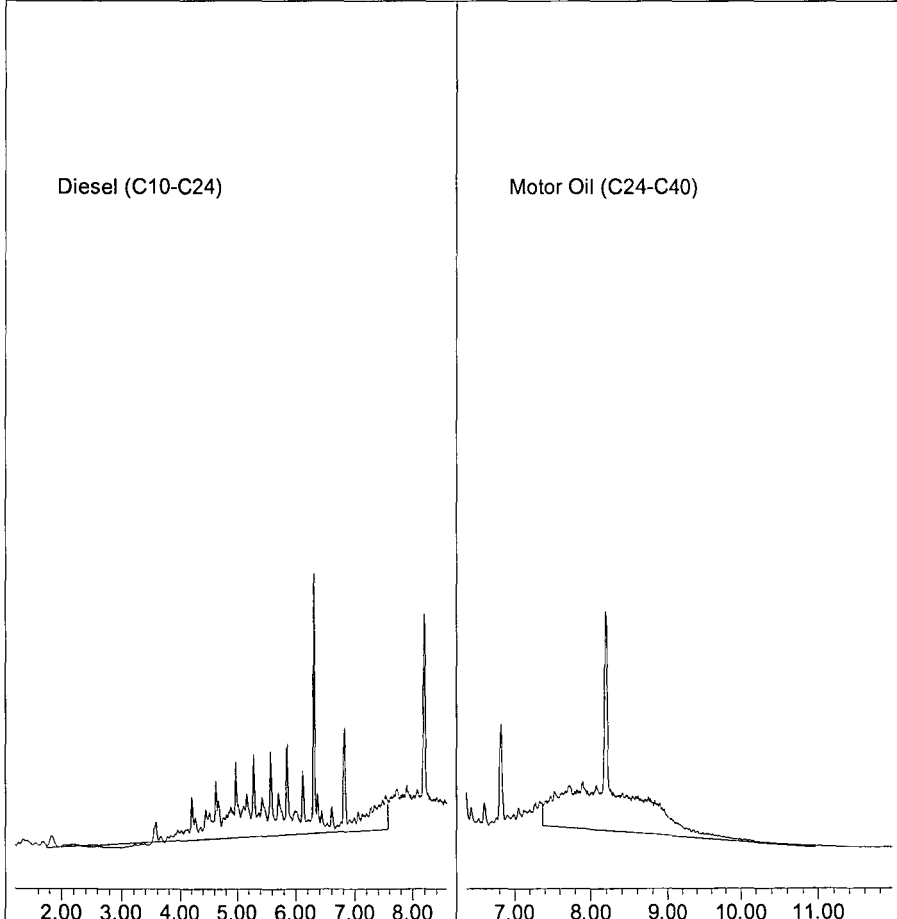
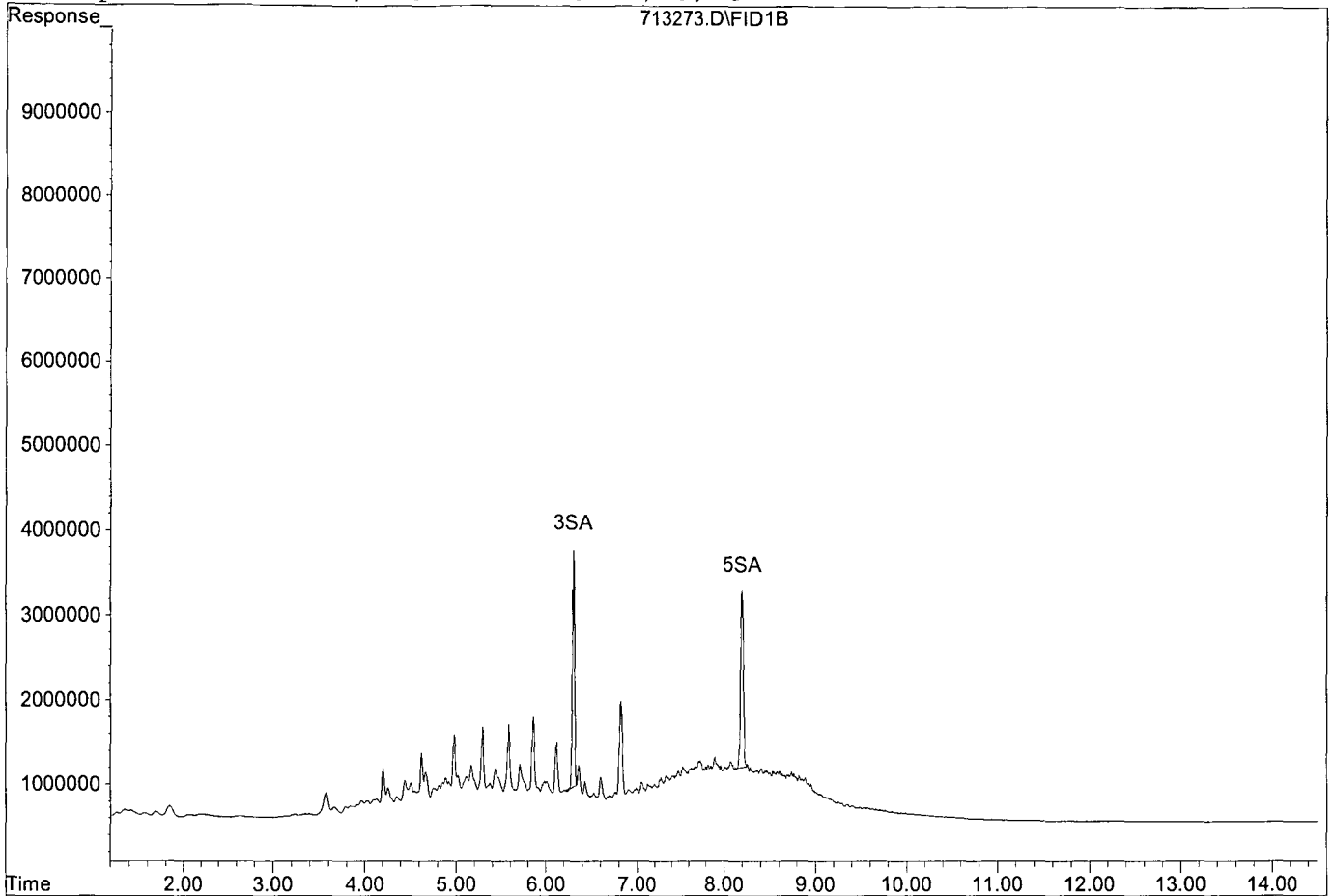
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	46138196	12.693 ppb
Surrogate Spike 37.500		Recovery =	33.85%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.20	46382473	12.602 ppb
Surrogate Spike 37.500		Recovery =	33.61%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	569329768	264.434 ppb
2) HBTM Motor Oil (C24-C40)	9.16	431259677	235.270 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190713\713273.D
Sample : Diesel/Motor Oil CCV 7/19/19



TPH Extractables
DOC0617

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: 89607

Case No: _____

Date Analyzed: 08/20/19

Matrix: Water

Instrument: Apollo

Initial Cal. Date: 06/17/19

Data File: 814148.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C24)	1351010	1251700	7.4	HATML	16
2	HBTM	Motor Oil (C24-C40)	916522	953724	4.1	HBTM	
3	SA	Ortho-Terphenyl(S)	1817470	2034020	12	SA	
4	SA	Octacosane(S)	1840270	2064850	12	SA	
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
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24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40		Average			8.9		

Average

8.9

Data File : G:\APOLLO\DATA\190814\814148.D Vial: 48
 Acq On : 8-20-19 23:46:53 Operator: DP
 Sample : Diesel/Motor Oil CCV 8/08/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 26 13:59 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

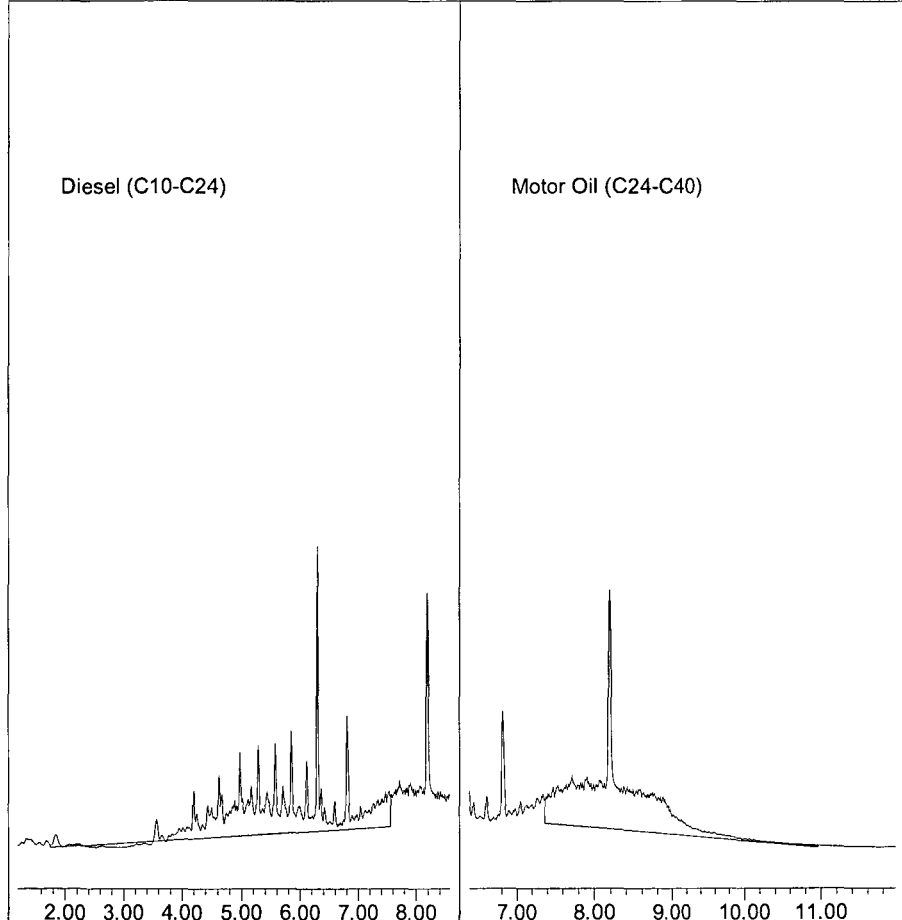
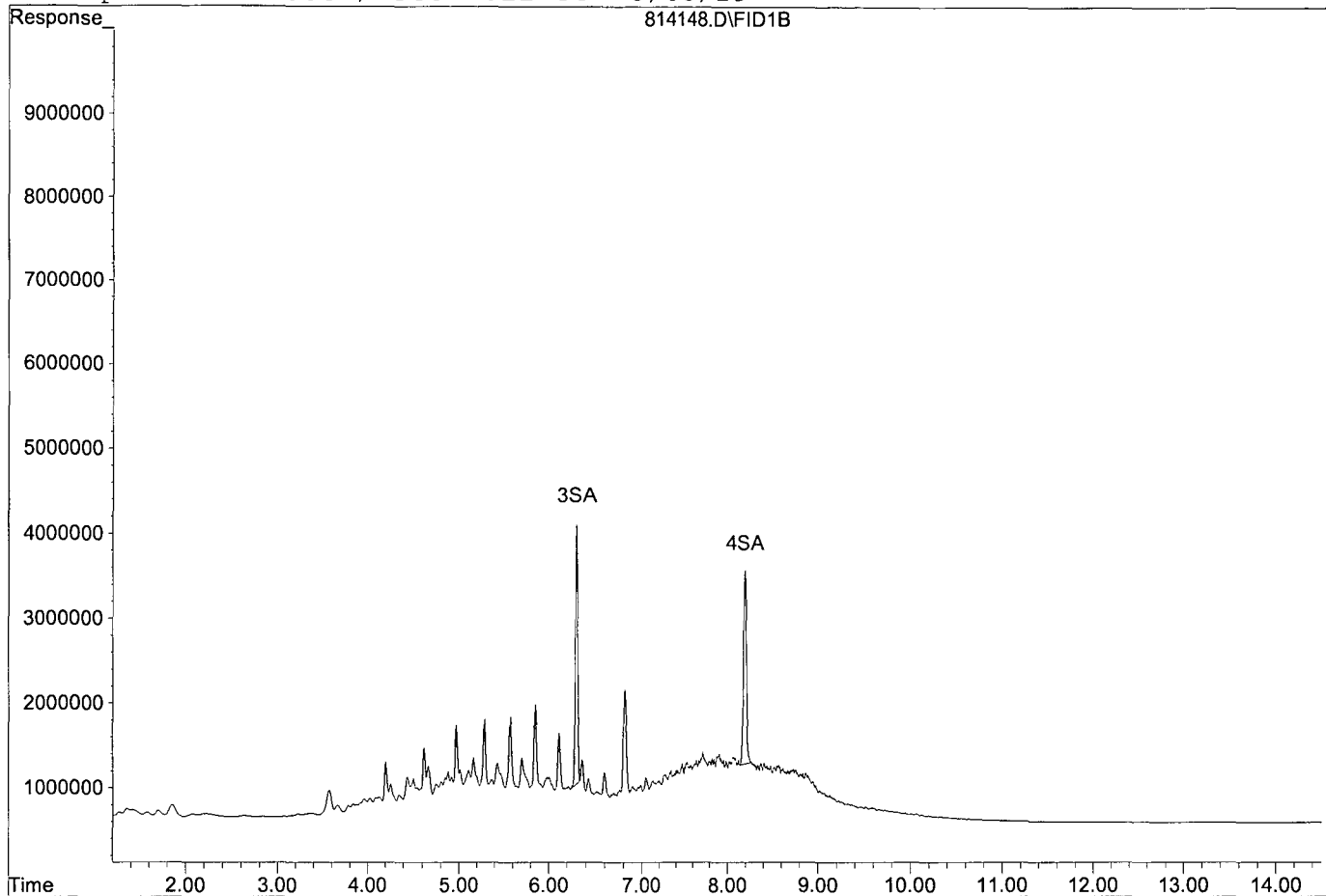
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.30	50850413	13.989 ppb
Surrogate Spike 30.000		Recovery =	46.63%
4) SA Octacosane(S)	8.19	51621139	14.025 ppb
Surrogate Spike 30.000		Recovery =	46.75%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	625852074	290.547 ppb
2) HBTM Motor Oil (C24-C40)	9.16	476861879	260.148 ppb
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\190814\814148.D

Sample : Diesel/Motor Oil CCV 8/08/19



TPH Extractables
DEC0807

Form 7
Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: Water

SDG No: 89607
Date Analyzed: 08/21/19
Instrument: Apollo
Initial Cal. Date: 08/07/19
Data File: 814149.D

	Compound	MEAN	CCRF	%D	%Drift
1	SC Decanoic Acid(S)	934753	1057380	13	SC
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40	Average			13.0	

Data File : G:\APOLLO\DATA\190814\814149.D Vial: 49
 Acq On : 8-21-19 0:06:46 Operator: DP
 Sample : Decanoic Acid CCV 8/07/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 26 13:58 2019 Quant Results File: DEC0807.RES

Method : G:\APOLLO\DATA\190814\DEC0807.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Tue Aug 20 09:03:40 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

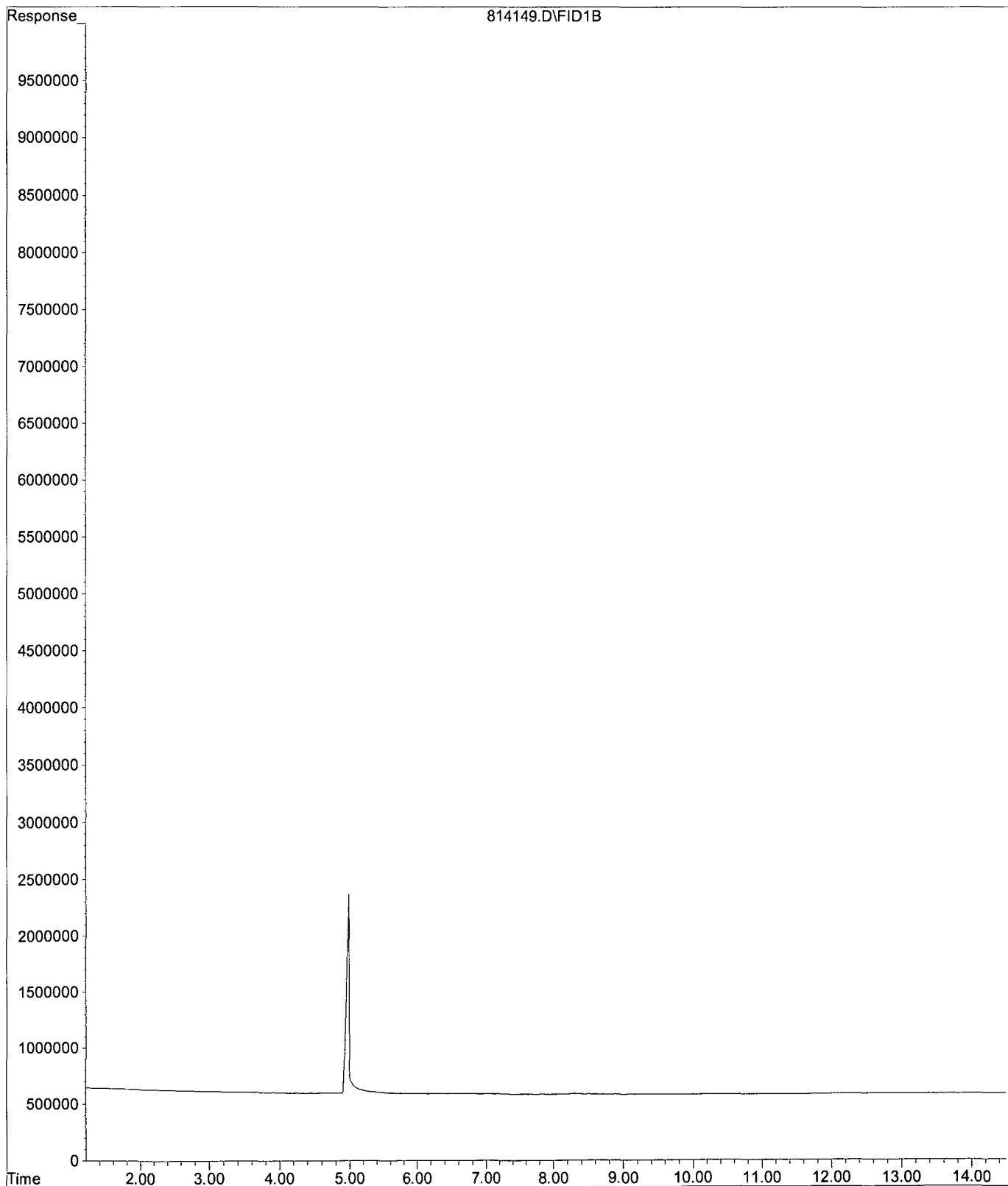
System Monitoring Compounds			
1) SC Decanoic Acid(S)	4.98	50754095	27.148 ppb
Surrogate Spike 24.000		Recovery =	113.12%

Target Compounds

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.
 814149.D DEC0807.M Mon Aug 26 16:19:16 2019

File : G:\APOLLO\DATA\190814\814149.D
Operator : DP
Acquired : 8-21-19 0:06:46 using AcqMethod TPHSN.M
Instrument : Apollo
Sample Name: Decanoic Acid CCV 8/07/19
Misc Info : water
Vial Number: 49



TPH Extractables
DOC0617

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: 89607

Case No: _____

Date Analyzed: 08/21/19

Matrix: Water

Instrument: Apollo

Initial Cal. Date: 06/17/19

Data File: 814158.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C24)	1351010	1246430	7.7	HATML	16
2	HBTM	Motor Oil (C24-C40)	916522	1003960	9.5	HBTM	
3	SA	Ortho-Terphenyl(S)	1817470	2089980	15	SA	
4	SA	Octacosane(S)	1840270	2106500	14	SA	
5							
6							
7							
8							
9							
10							
11							
12							
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19							
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26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

Average

11.6

Data File : G:\APOLLO\DATA\190814\814158.D Vial: 58
 Acq On : 8-21-19 3:04:13 Operator: DP
 Sample : Diesel/Motor Oil CCV 8/08/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 26 15:27 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190801\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Mon Aug 12 12:39:32 2019
 Response via : Multiple Level Calibration

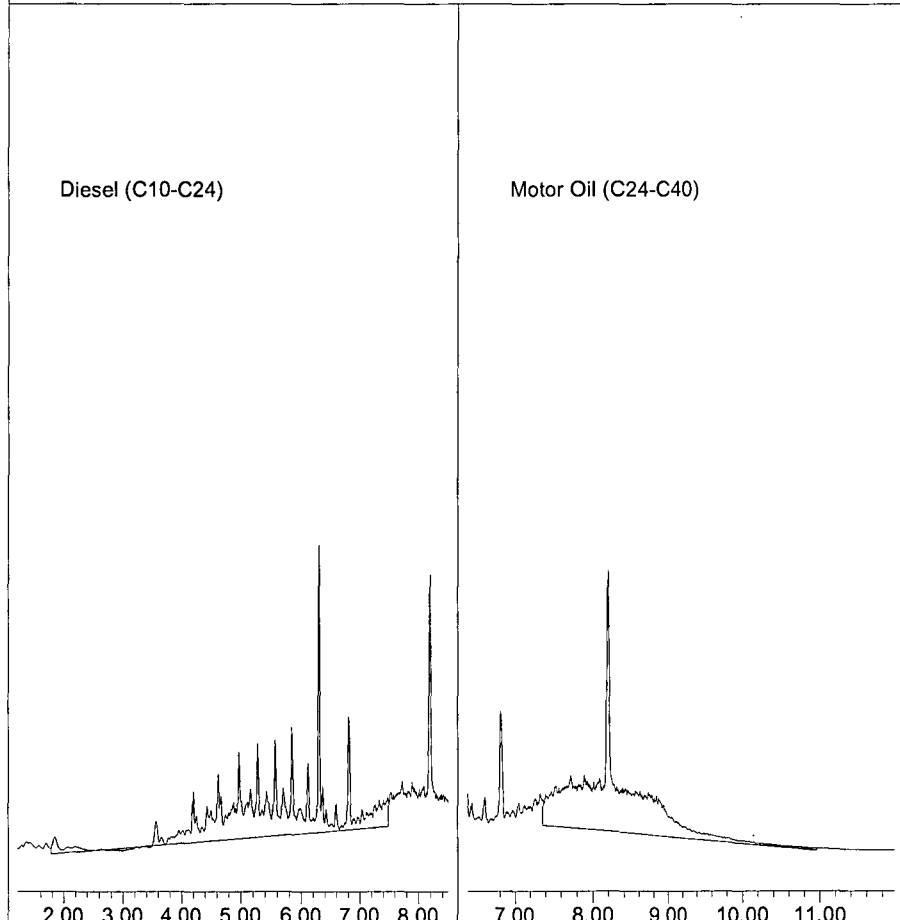
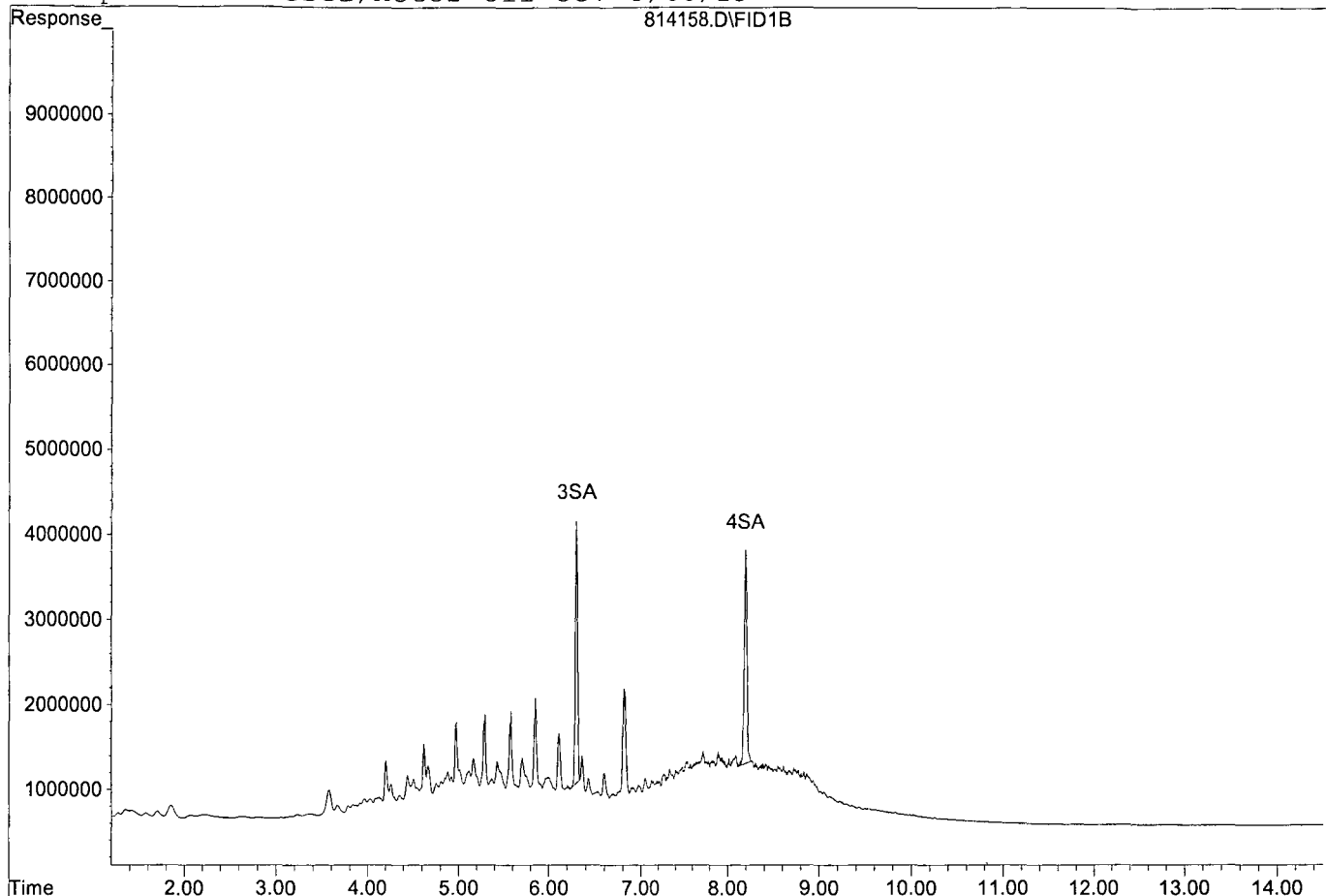
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.30	52249438	14.374 ppb
Surrogate Spike 30.000		Recovery =	47.91%
4) SA Octacosane(S)	8.19	52662624	14.308 ppb
Surrogate Spike 30.000		Recovery =	47.69%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	623216443	289.329 ppb
2) HBTM Motor Oil (C24-C40)	9.16	501979549	273.850 ppb
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\190814\814158.D
Sample : Diesel/Motor Oil CCV 8/08/19



TPH Extractables
DEC0807

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: Water

SDG No: 89607
Date Analyzed: 08/21/19
Instrument: Apollo
Initial Cal. Date: 08/07/19
Data File: 814159.D

	Compound	MEAN	CCRF	%D	%Drift
1	SC Decanoic Acid(S)	934753	1023880	9.5	SC
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
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28					
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30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40	Average			9.5	

Data File : G:\APOLLO\DATA\190814\814159.D Vial: 59
 Acq On : 8-21-19 3:24:06 Operator: DP
 Sample : Decanoic Acid CCV 8/07/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 26 14:02 2019 Quant Results File: DEC0807.RES

Method : G:\APOLLO\DATA\190814\DEC0807.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Tue Aug 20 09:03:40 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

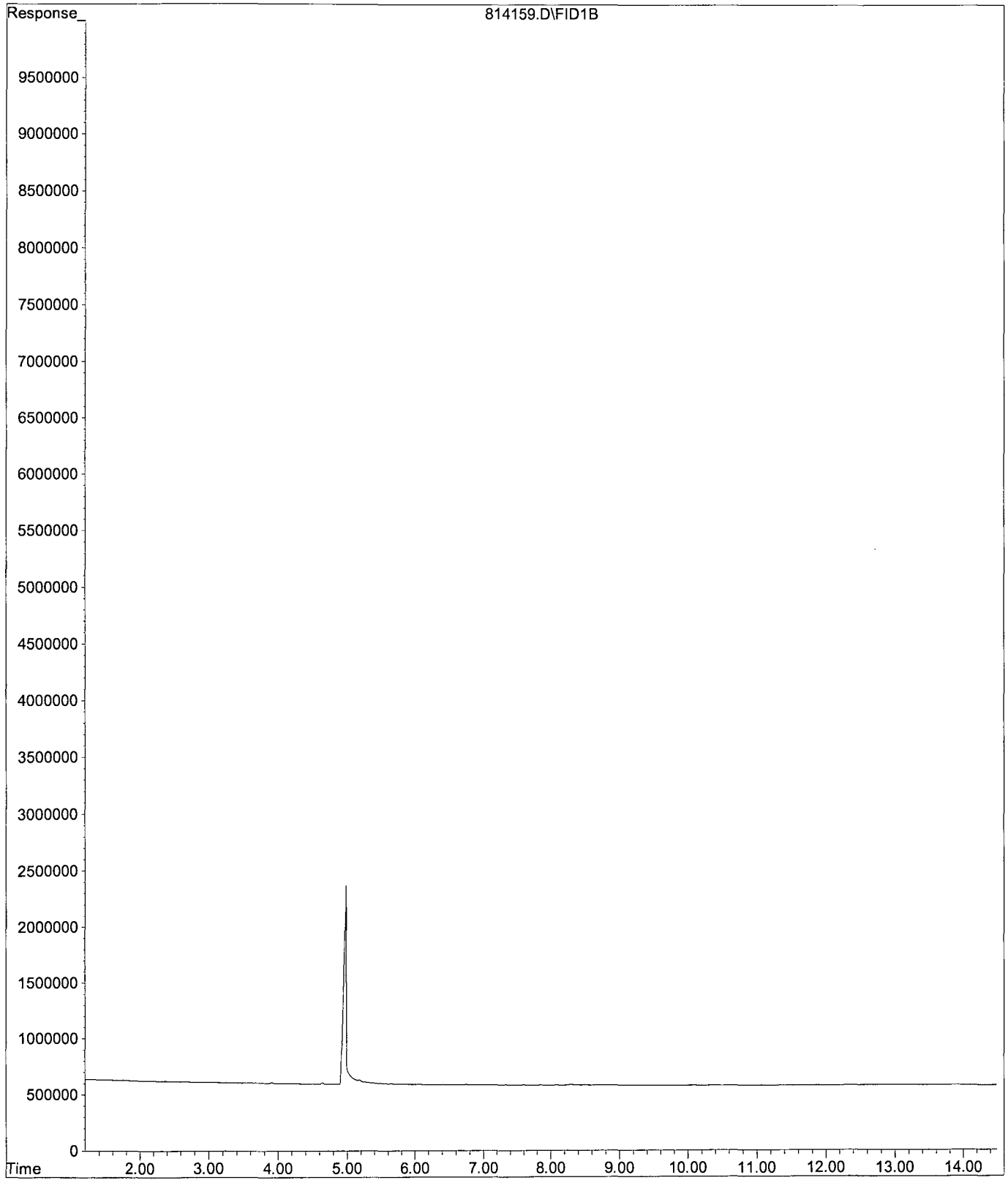
System Monitoring Compounds			
1) SC Decanoic Acid(S)	4.98	49146130	26.288 ppb
Surrogate Spike 24.000		Recovery	= 109.53%

Target Compounds

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.
 814159.D DEC0807.M Mon Aug 26 16:20:18 2019

File : G:\APOLLO\DATA\190814\814159.D
Operator : DP
Acquired : 8-21-19 3:24:06 using AcqMethod TPHSN.M
Instrument : Apollo
Sample Name: Decanoic Acid CCV 8/07/19
Misc Info : water
Vial Number: 59



ORGANICS
Raw Data

Data File : G:\APOLLO\DATA\190713\713269.D Vial: 69
 Acq On : 7-30-19 23:36:36 Operator: DP
 Sample : AZ95419W10 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 8 11:18 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

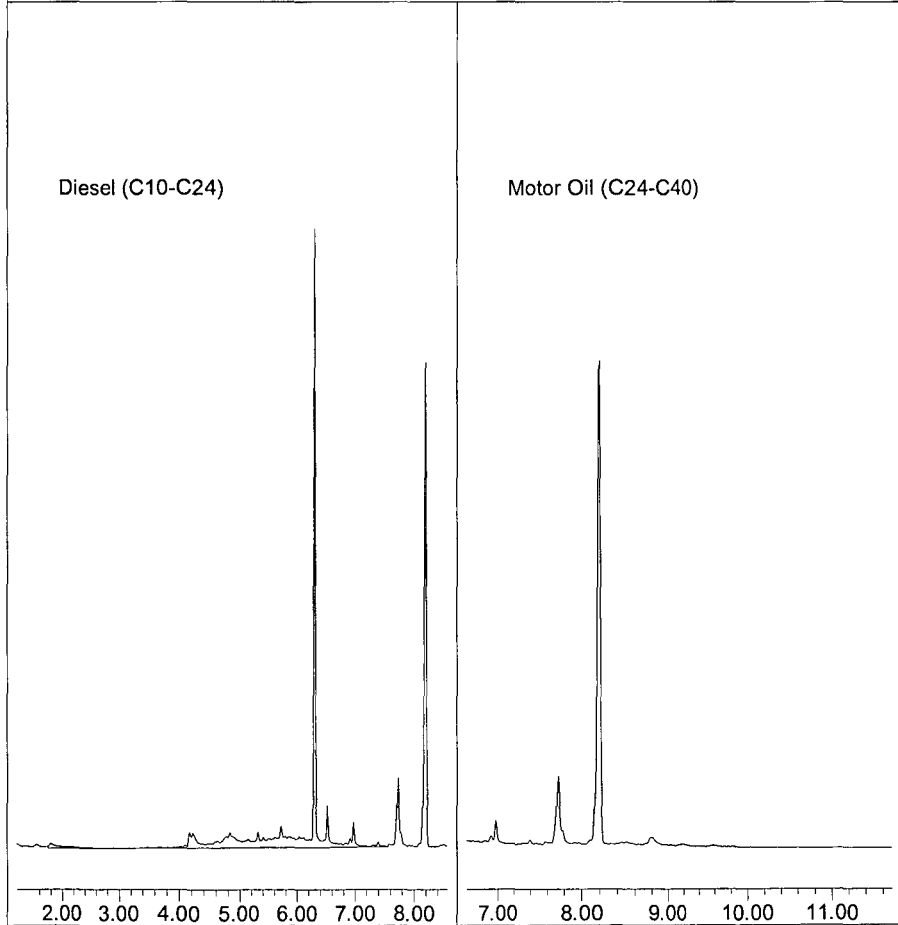
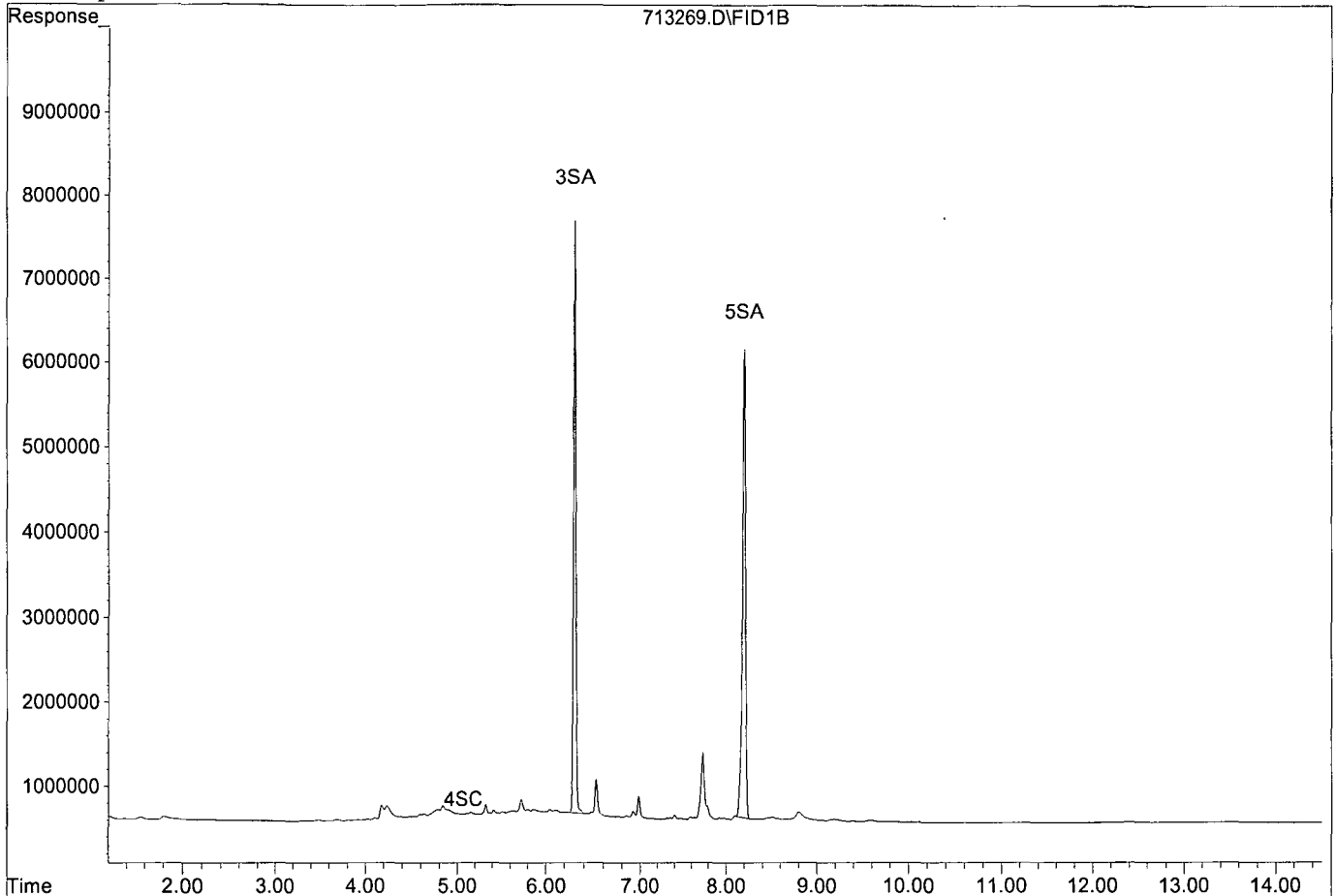
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	116707899	80.268 ppb
Surrogate Spike 93.750		Recovery =	85.62%
4) SC Decanoic Acid(S)	5.07f	-126750	6.740 ppb
Surrogate Spike 60.000		Recovery =	11.23%
5) SA Octacosane(S)	8.20	130344372	88.536 ppb
Surrogate Spike 93.750		Recovery =	94.44%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	179805907	211.199 ppb
Target Compounds			
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D. ppb

Quantitation Report

Data File: G:\APOLLO\DATA\190713\713269.D
Sample : AZ95419W10 2/800



Data File : G:\APOLLO\DATA\190713\713270.D Vial: 70
 Acq On : 7-30-19 23:56:25 Operator: DP
 Sample : AZ95421W07 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 8 10:59 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

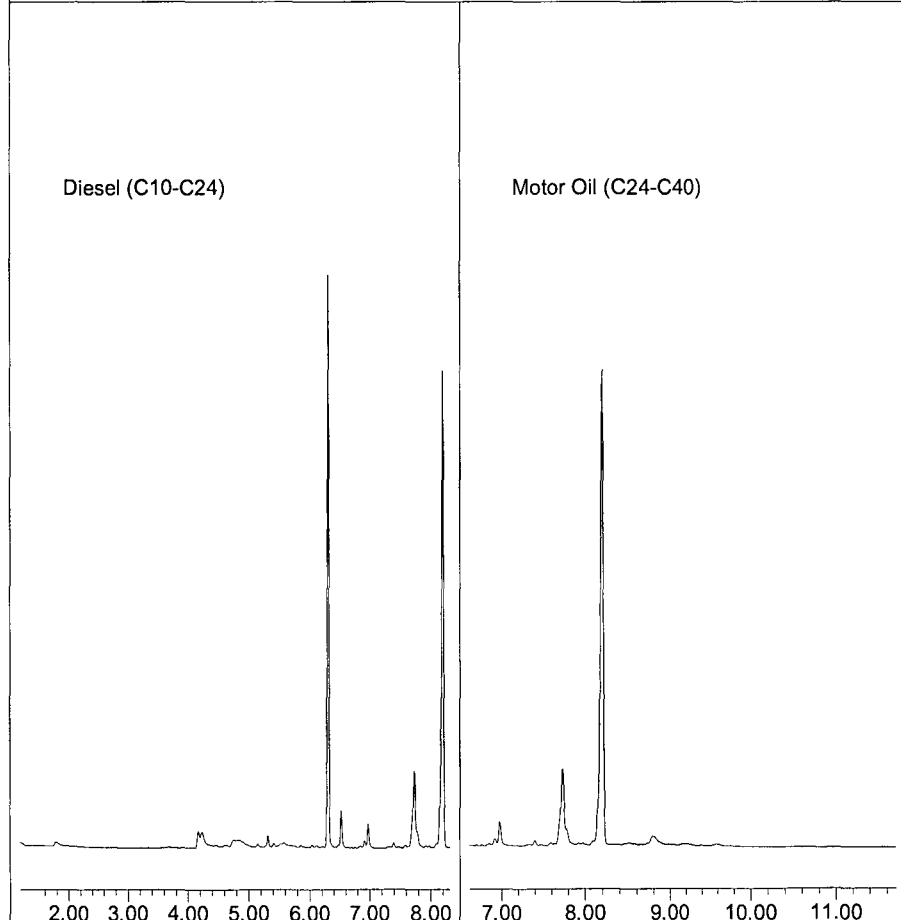
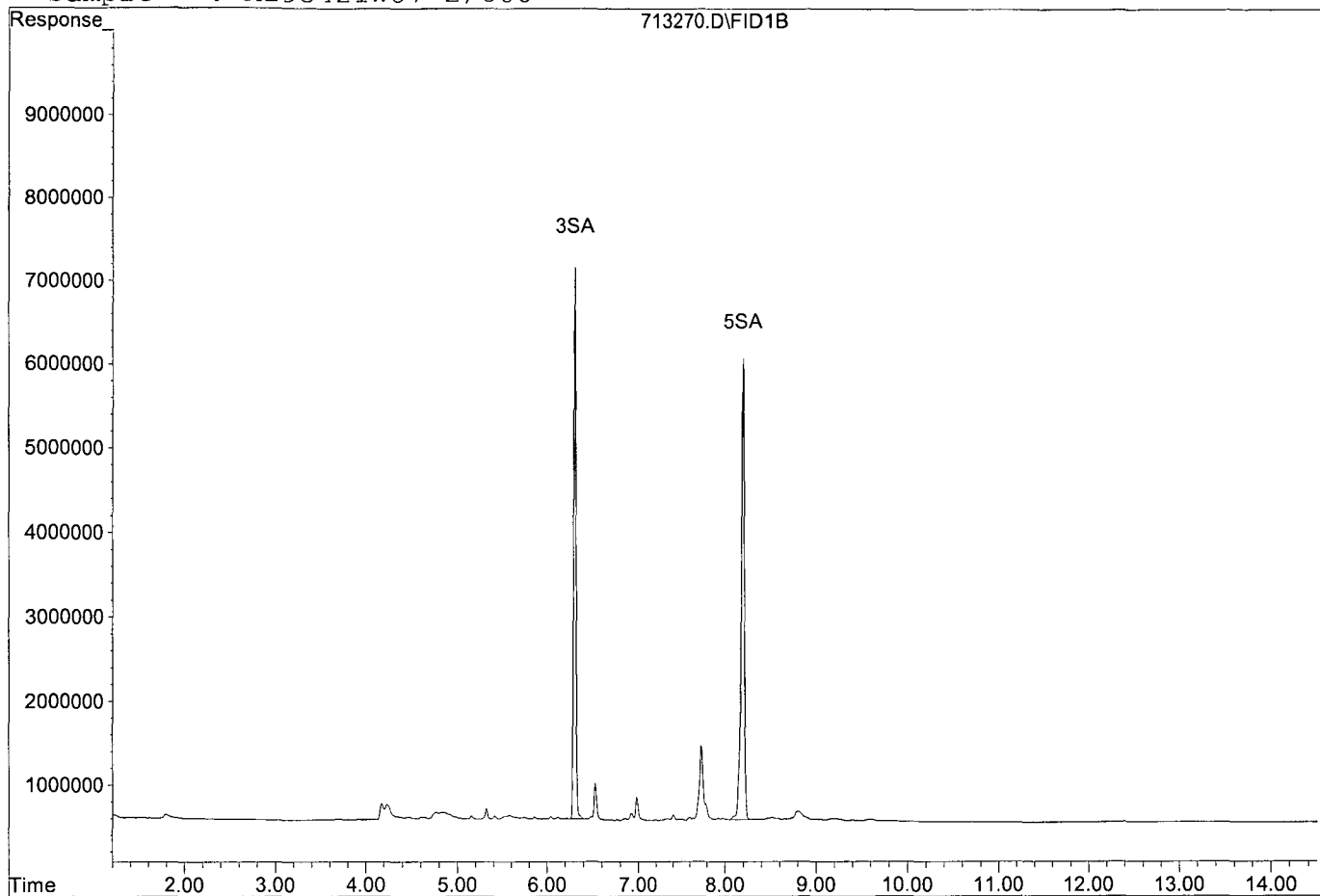
Compound	R.T.	Response	Conc	Units

System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	6.31	114241435	78.572	ppb
Surrogate Spike 93.750		Recovery =	83.81%	
4) SC Decanoic Acid(S)	0.00	0	N.D.	ppb
Surrogate Spike 60.000		Recovery =	0.00%	
5) SA Octacosane(S)	8.20	129571387	88.011	ppb
Surrogate Spike 93.750		Recovery =	93.88%	
Target Compounds				
Target Compounds				
1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb

Quantitation Report

Data File: G:\APOLLO\DATA\190713\713270.D

Sample : AZ95421W07 2/800



Data File : G:\APOLLO\DATA\190713\713271.D Vial: 71
 Acq On : 7-31-19 0:16:20 Operator: DP
 Sample : AZ95423W08 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 8 11:18 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

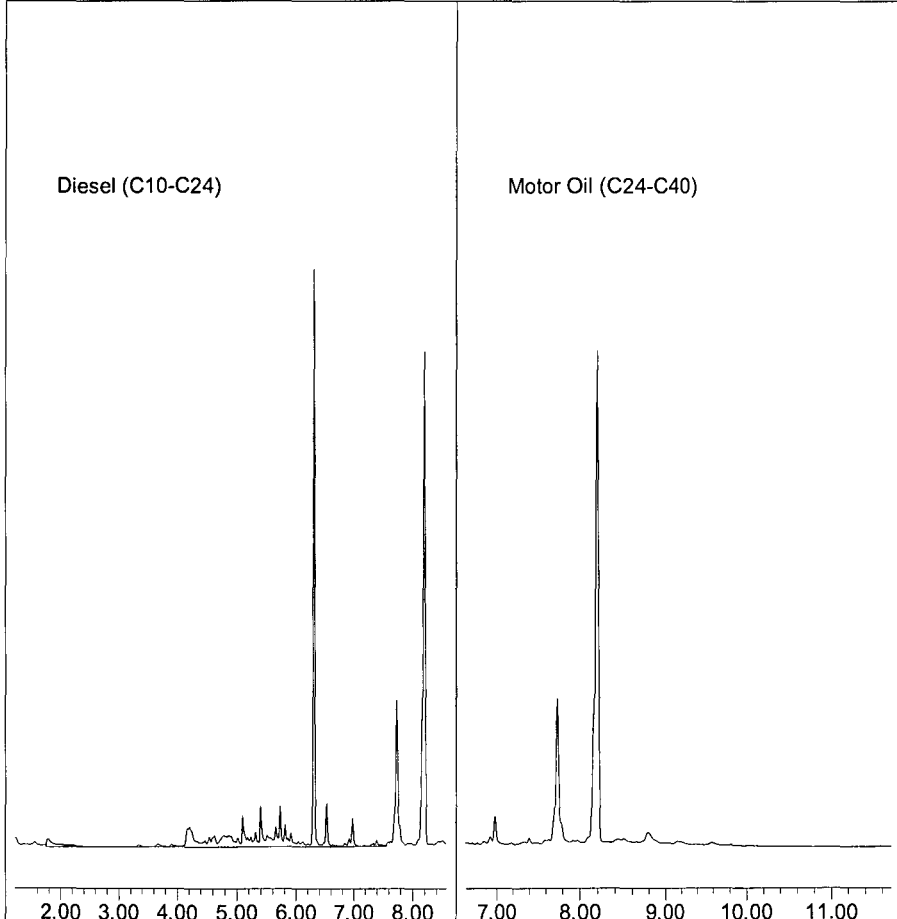
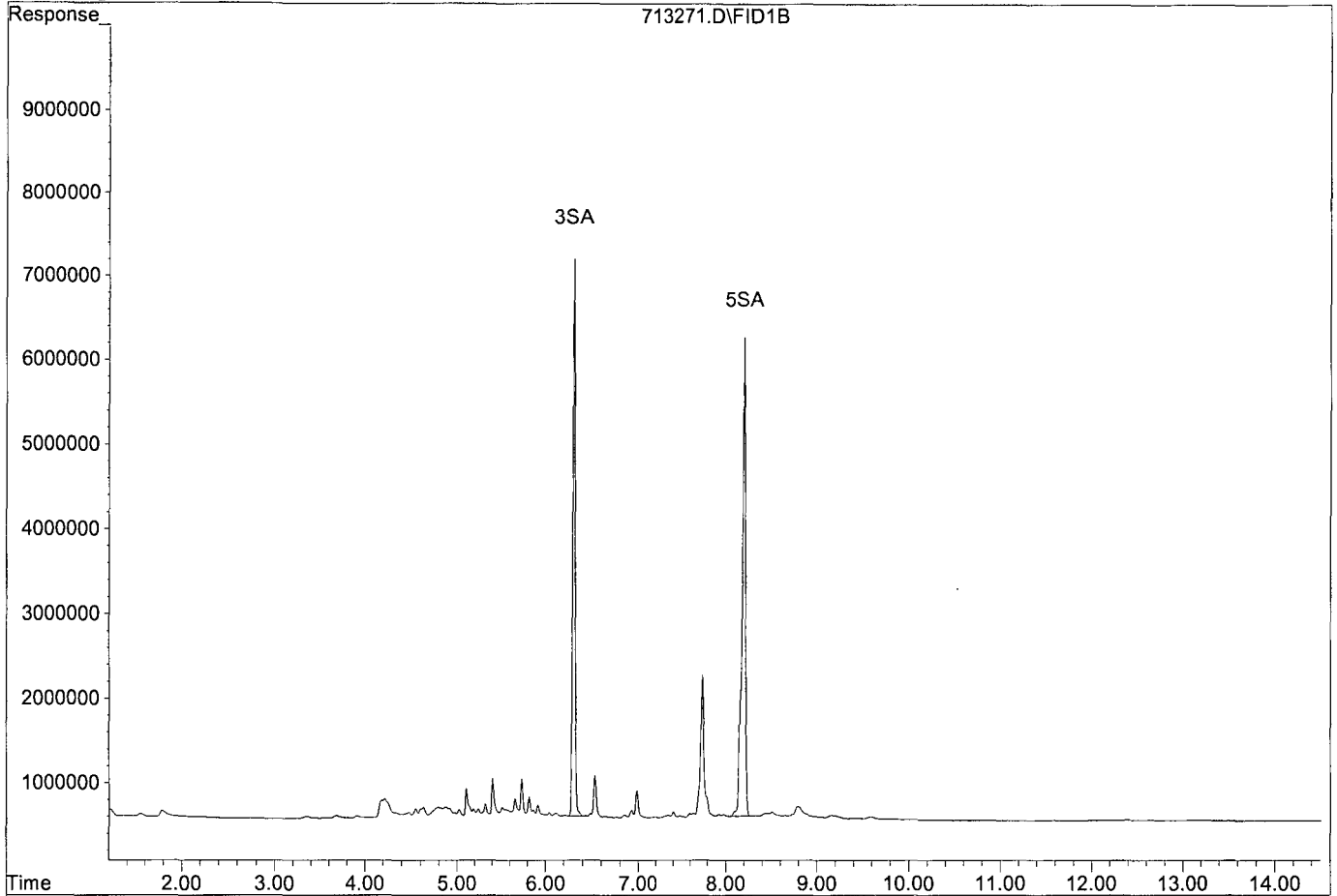
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	115672690	79.556 ppb
Surrogate Spike 93.750		Recovery =	84.86%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 60.000		Recovery =	0.00%
5) SA Octacosane(S)	8.20	144541707	98.180 ppb
Surrogate Spike 93.750		Recovery =	104.73%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	176850067	207.785 ppb
Target Compounds			
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D. ppb

Quantitation Report

Data File: G:\APOLLO\DATA\190713\713271.D
Sample : AZ95423W08 2/800



Data File : G:\APOLLO\DATA\190814\814156.D Vial: 56
 Acq On : 8-21-19 2:24:22 Operator: DP
 Sample : AZ95419W10 2/800 SGC Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 26 14:06 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190814\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Mon Aug 12 12:39:32 2019
 Response via : Multiple Level Calibration

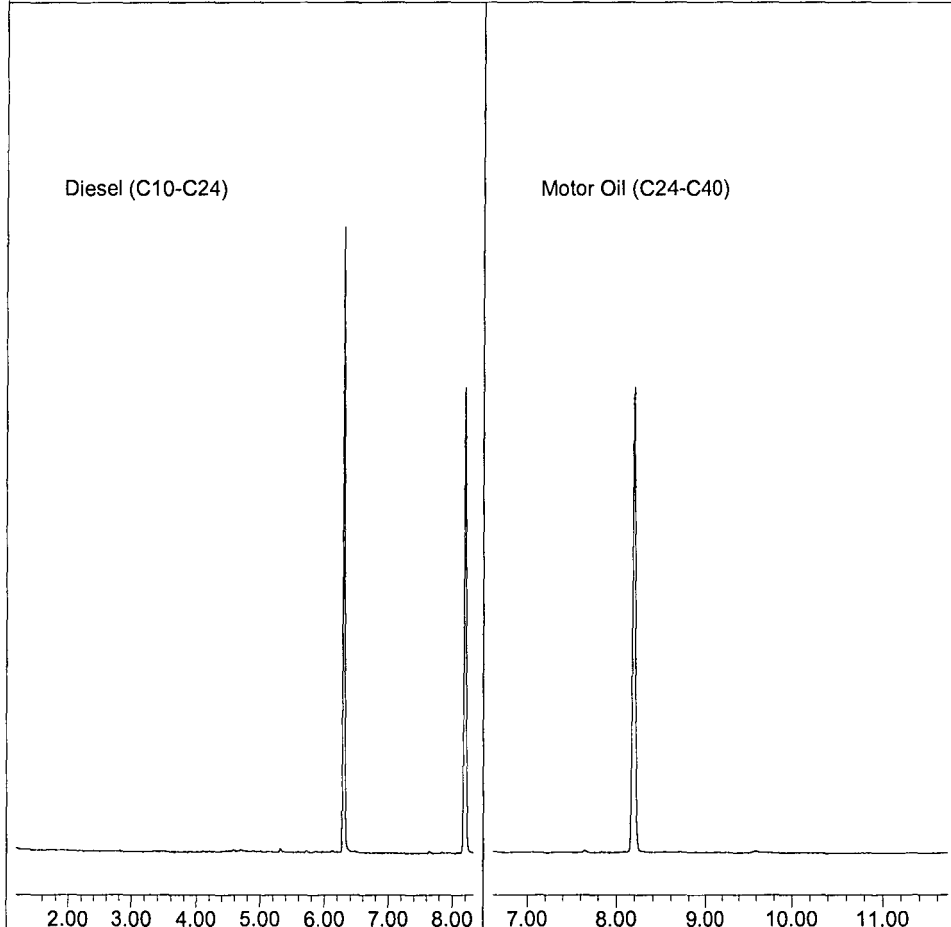
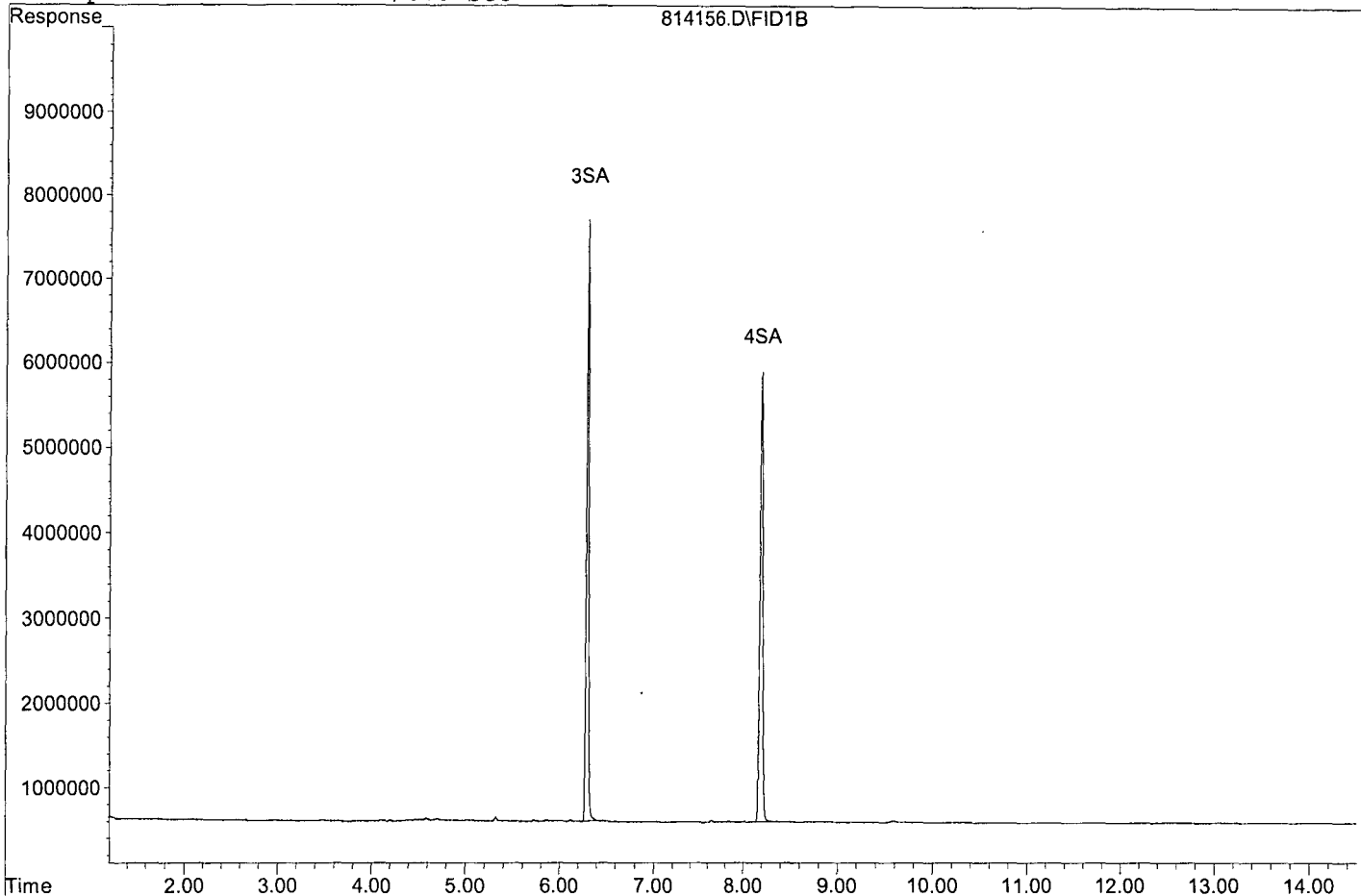
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.30	119889848	82.457 ppb
Surrogate Spike 75.000		Recovery =	109.94%
4) SA Octacosane(S)	8.19	116522591	79.148 ppb
Surrogate Spike 75.000		Recovery =	105.53%
Target Compounds			
Target Compounds			
1) HATM Diesel (C10-C24)	0.00	0	N.D. ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D. ppb

Quantitation Report

Data File: G:\APOLLO\DATA\190814\814156.D

Sample : AZ95419W10 2/800 SGC



Data File : G:\APOLLO\DATA\190814\814156.D Vial: 56
 Acq On : 8-21-19 2:24:22 Operator: DP
 Sample : AZ95419W10 2/800 SGC Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 26 14:14 2019 Quant Results File: DEC0807.RES

Method : G:\APOLLO\DATA\190814\DEC0807.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Tue Aug 20 09:03:40 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) SC Decanoic Acid(S)	0.00	0	N.D. ppb
Surrogate Spike 60.000		Recovery =	0.00%

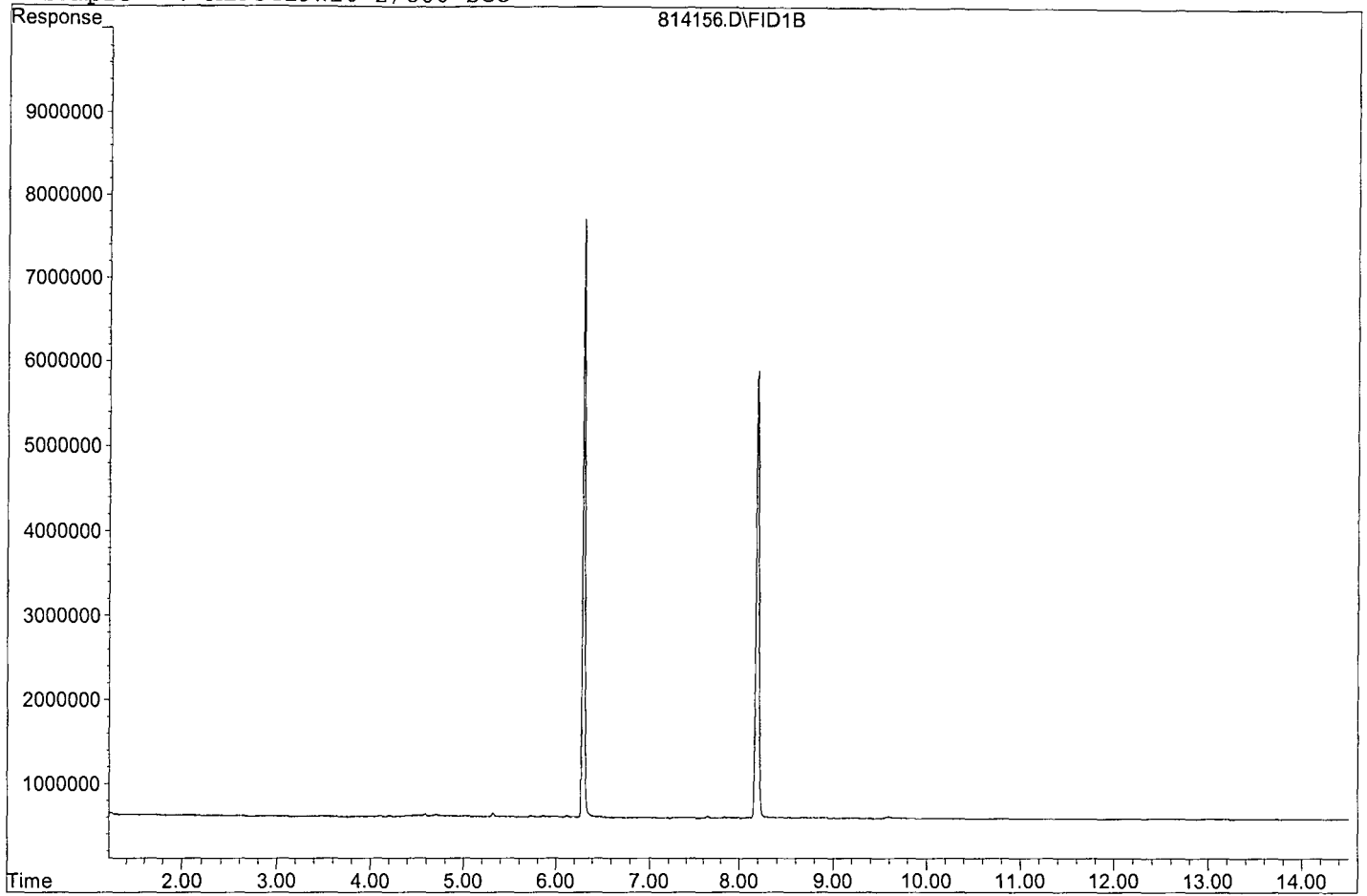
Target Compounds

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190814\814156.D

Sample : AZ95419W10 2/800 SGC



Data File : G:\APOLLO\DATA\190814\814157.D Vial: 57
 Acq On : 8-21-19 2:44:20 Operator: DP
 Sample : AZ95423W08 2/800 SGC Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 26 14:05 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190814\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Mon Aug 12 12:39:32 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

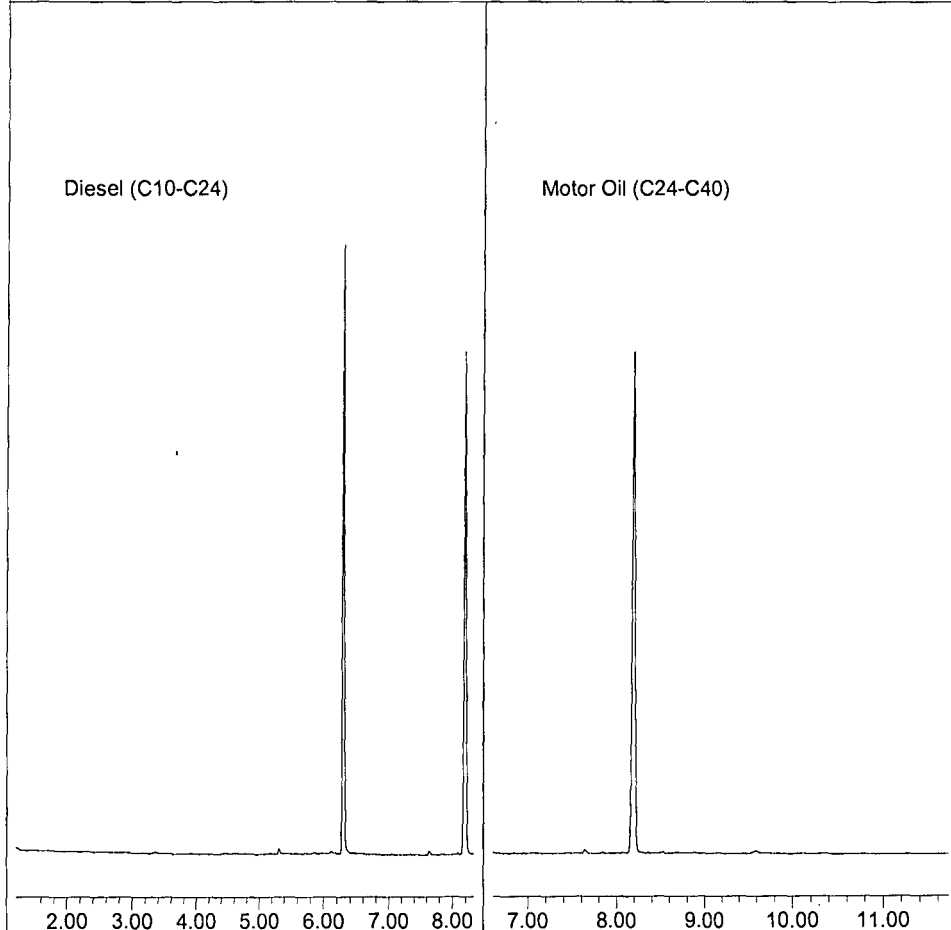
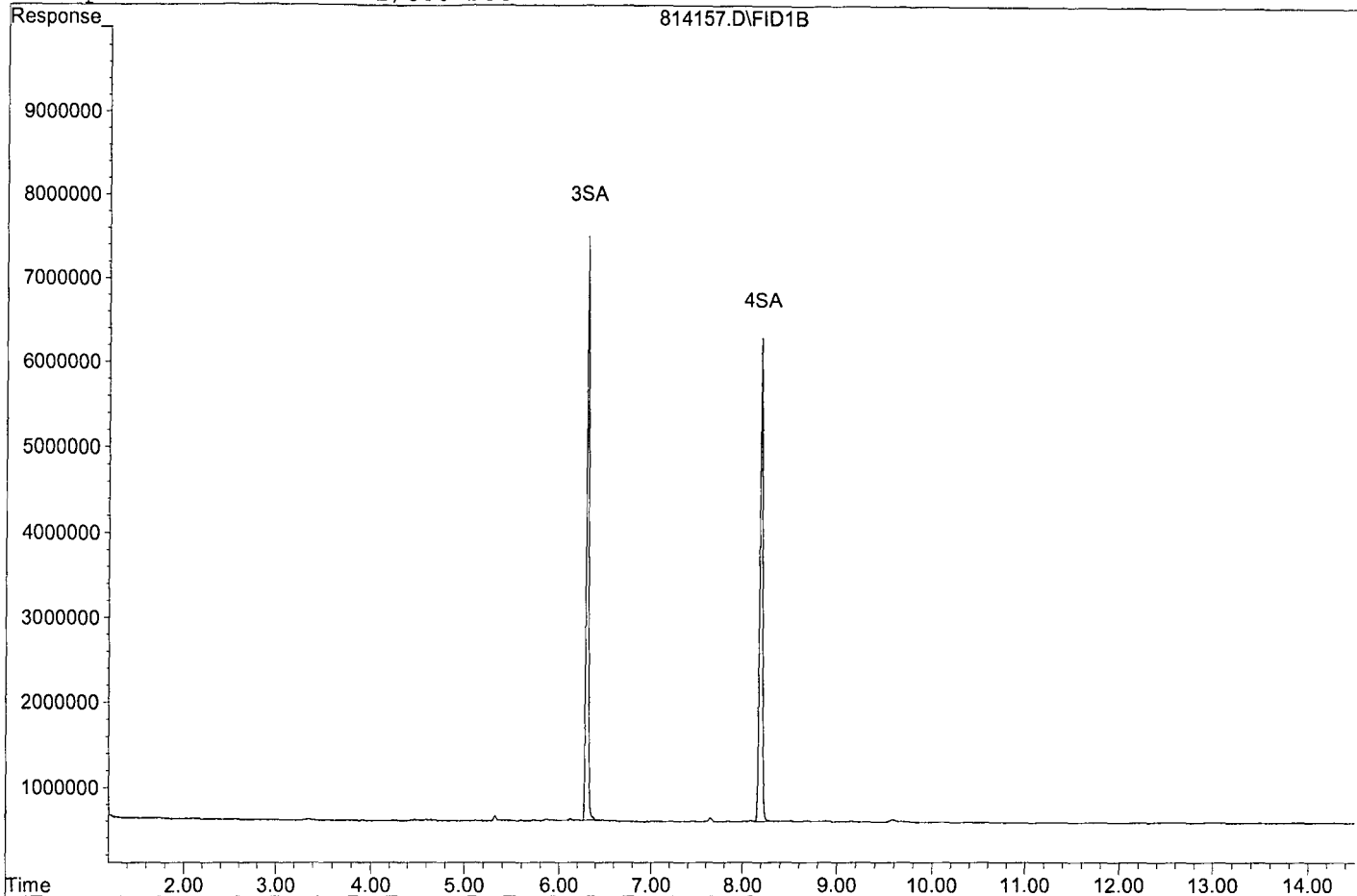
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.30	122734587	84.413 ppb
Surrogate Spike 75.000		Recovery =	112.55%
4) SA Octacosane(S)	8.19	120749959	82.019 ppb
Surrogate Spike 75.000		Recovery =	109.36%
Target Compounds			
Target Compounds			
1) HATM Diesel (C10-C24)	0.00	0	N.D. ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D. ppb

Quantitation Report

Data File: G:\APOLLO\DATA\190814\814157.D

Sample : AZ95423W08 2/800 SGC



Data File : G:\APOLLO\DATA\190814\814157.D Vial: 57
 Acq On : 8-21-19 2:44:20 Operator: DP
 Sample : AZ95423W08 2/800 SGC Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 26 14:14 2019 Quant Results File: DEC0807.RES

Method : G:\APOLLO\DATA\190814\DEC0807.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Tue Aug 20 09:03:40 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) SC Decanoic Acid(S)	0.00	0	N.D. ppb
Surrogate Spike 60.000		Recovery =	0.00%

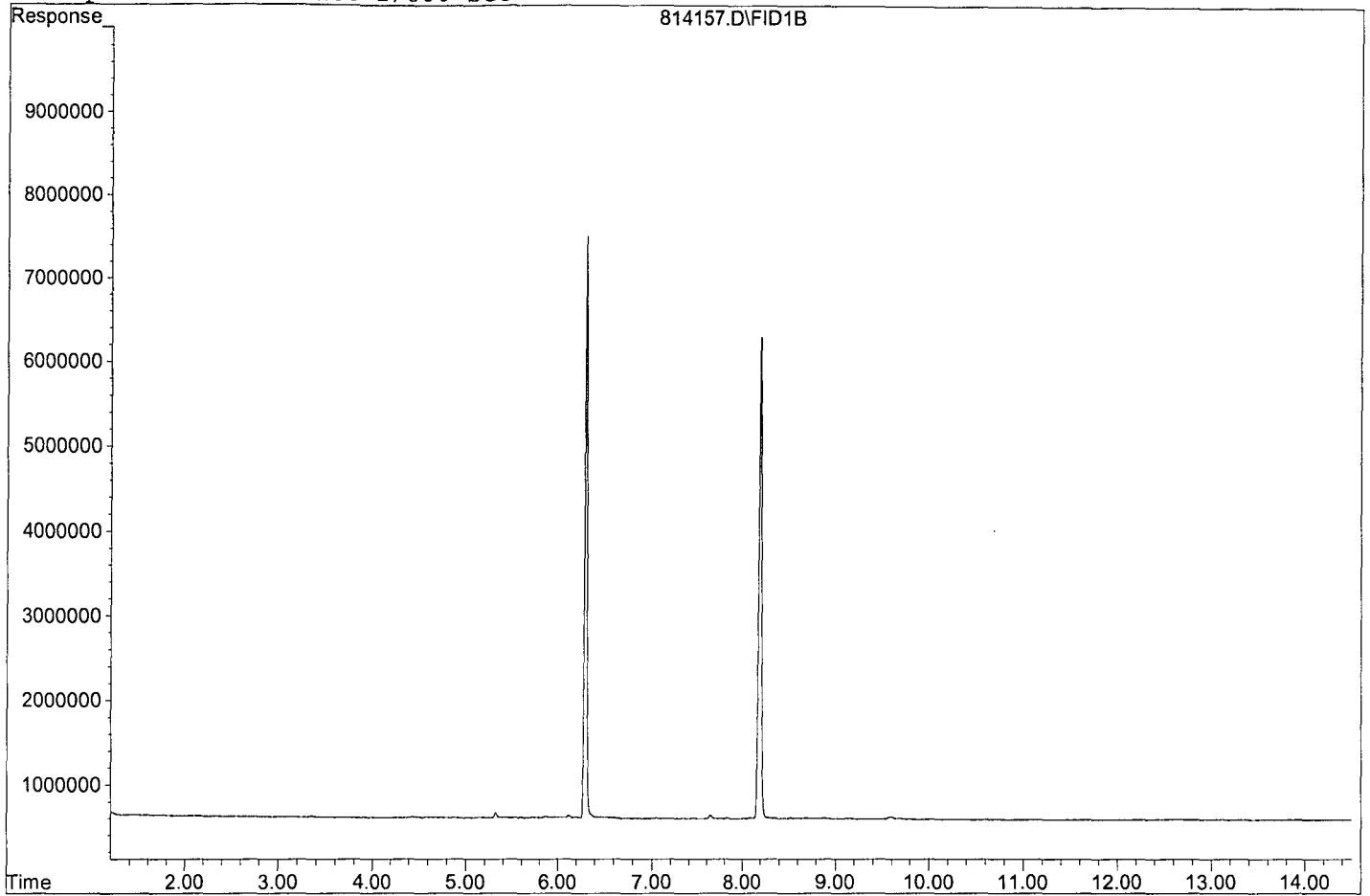
Target Compounds

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190814\814157.D

Sample : AZ95423W08 2/800 SGC



Data File : G:\APOLLO\DATA\190713\713254.D Vial: 54
 Acq On : 7-30-19 18:38:23 Operator: DP
 Sample : 190727A BLK 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 8 10:55 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

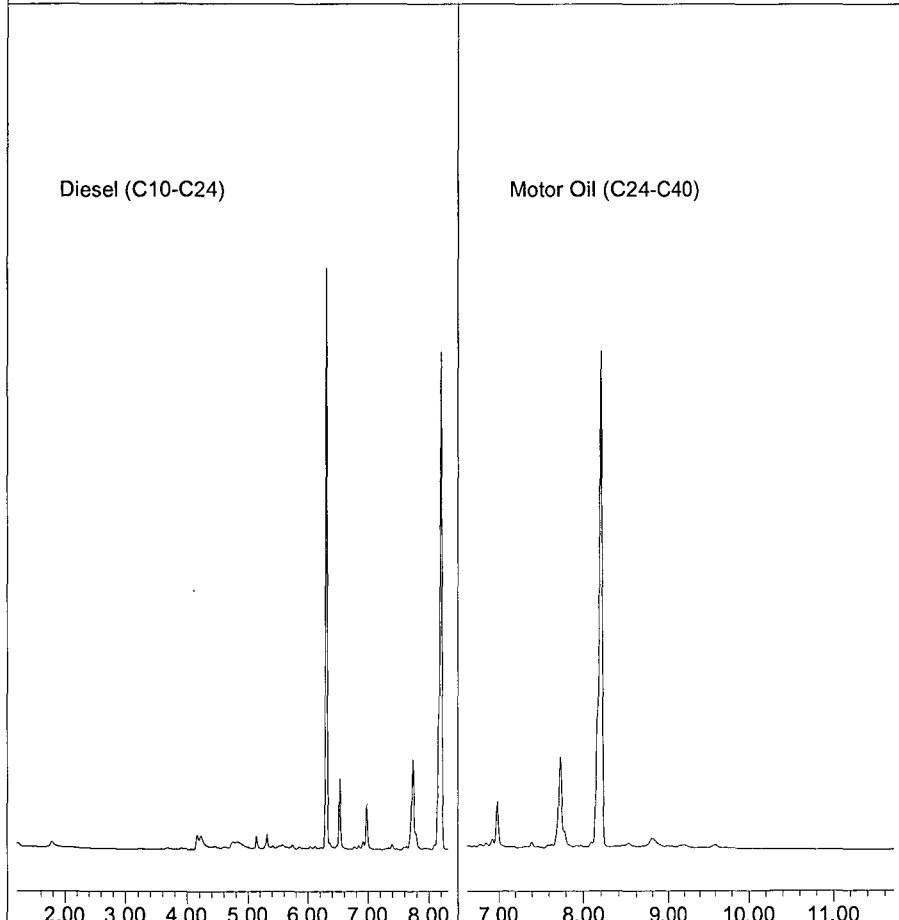
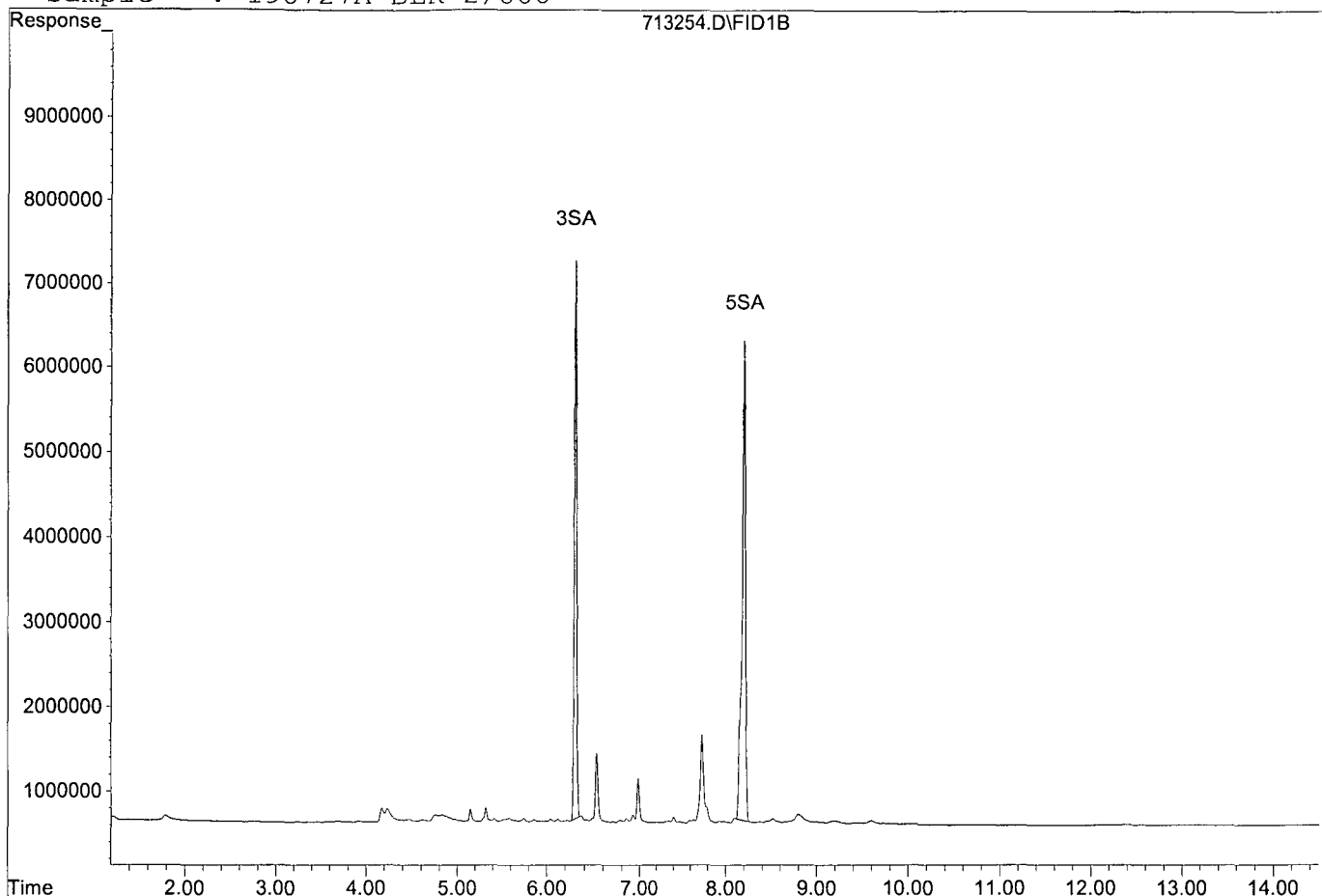
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	111415354	76.628 ppb
Surrogate Spike 93.750		Recovery =	81.74%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb
Surrogate Spike 60.000		Recovery =	0.00%
5) SA Octacosane(S)	8.20	145814209	99.044 ppb
Surrogate Spike 93.750		Recovery =	105.65%
Target Compounds			
Target Compounds			
1) HATM Diesel (C10-C24)	0.00	0	N.D. ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D. ppb

Quantitation Report

Data File: G:\APOLLO\DATA\190713\713254.D
Sample : 190727A BLK 2/800



Data File : G:\APOLLO\DATA\190713\713255.D Vial: 55
 Acq On : 7-30-19 18:58:24 Operator: DP
 Sample : 190727A LCS-1 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 8 10:01 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

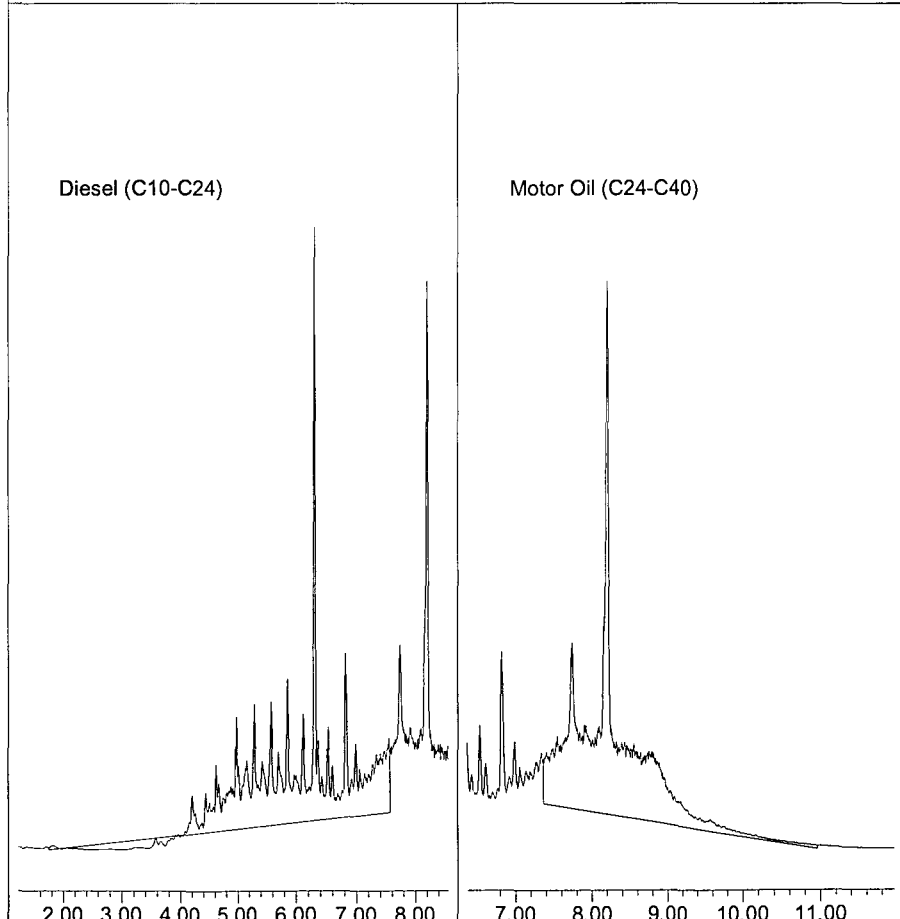
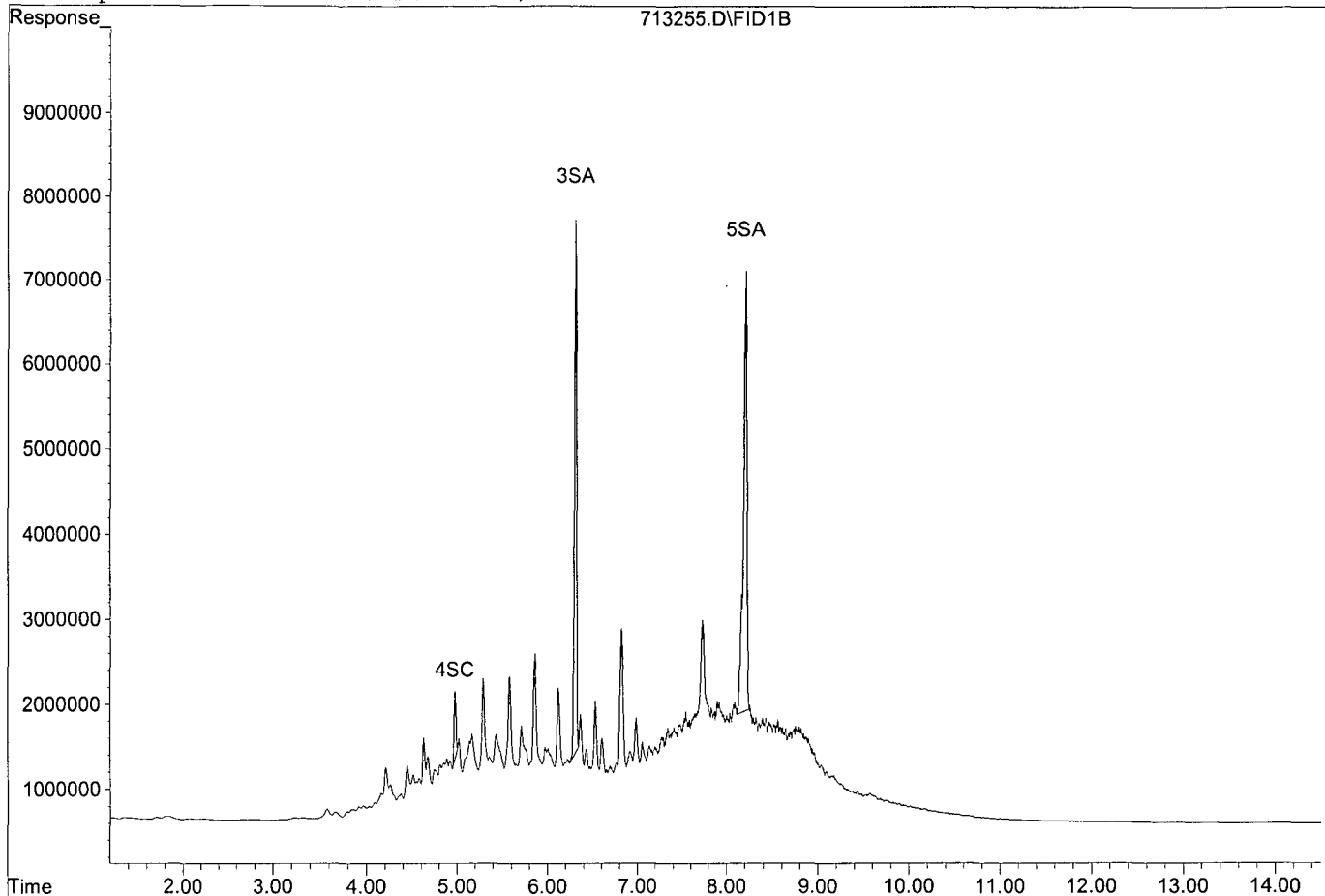
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	107674973	74.056 ppb
Surrogate Spike 93.750		Recovery =	78.99%
4) SC Decanoic Acid(S)	4.98	11444528	31.600 ppb
Surrogate Spike 60.000		Recovery =	52.67%
5) SA Octacosane(S)	8.21	136530713	92.738 ppb
Surrogate Spike 93.750		Recovery =	98.92%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	985847282	1142.149 ppb
2) HBTM Motor Oil (C24-C40)	9.16	869121260	1185.353 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190713\713255.D
Sample : 190727A LCS-1 2/800



Data File : G:\APOLLO\DATA\190713\713256.D Vial: 56
 Acq On : 7-30-19 19:17:46 Operator: DP
 Sample : 190727A LCSD-1 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 8 10:01 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190625\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

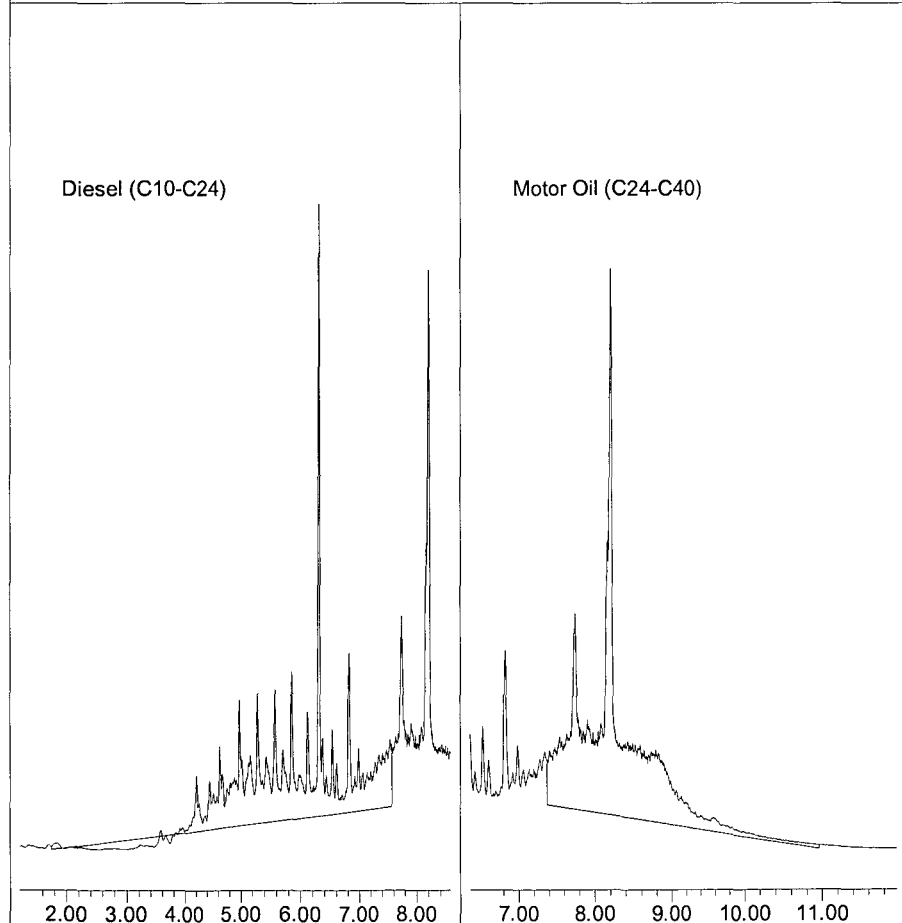
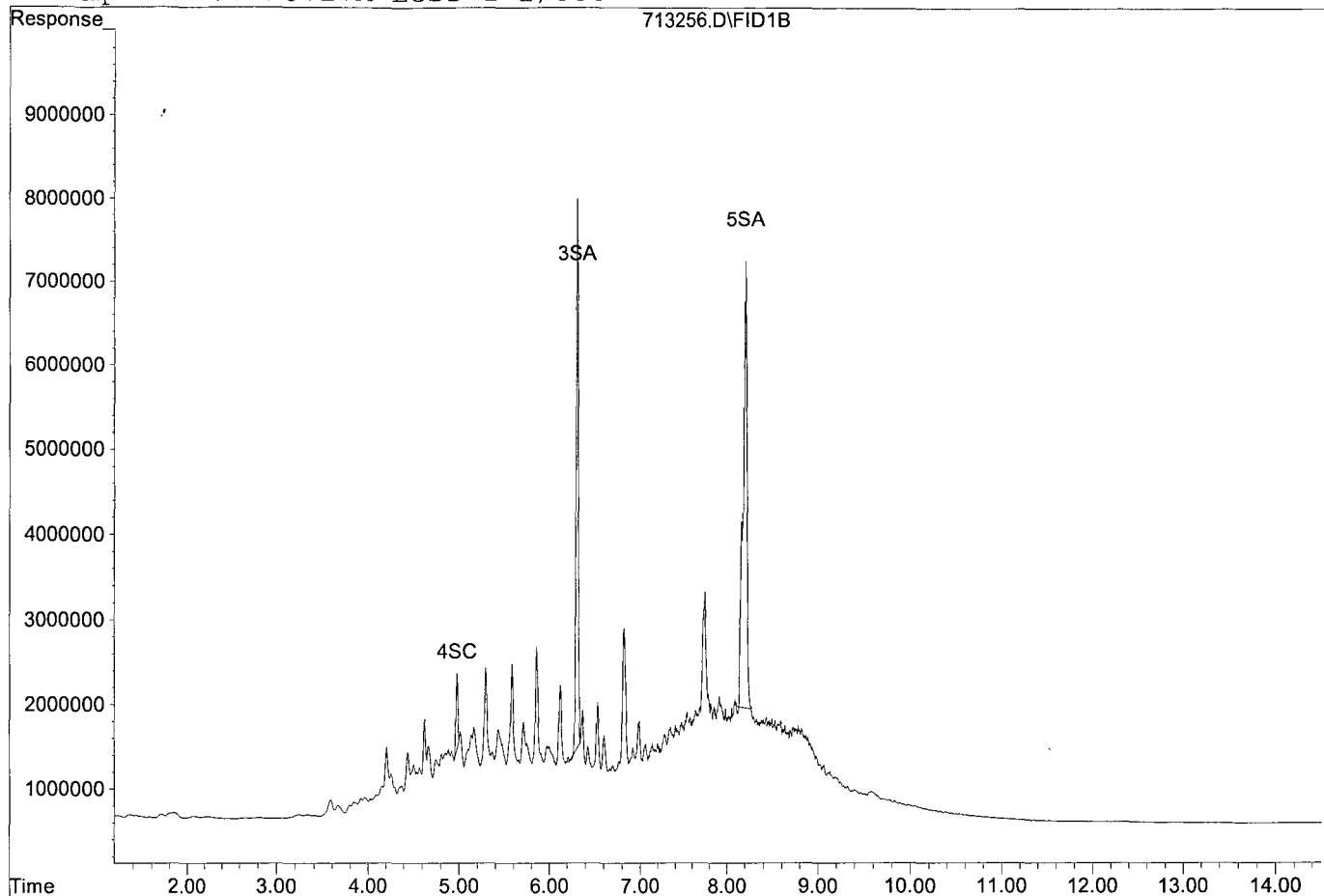
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	107939809	74.238 ppb
Surrogate Spike 93.750		Recovery =	79.19%
4) SC Decanoic Acid(S)	4.98	12811734	34.537 ppb
Surrogate Spike 60.000		Recovery =	57.56%
5) SA Octacosane(S)	8.20	154120564	104.686 ppb
Surrogate Spike 93.750		Recovery =	111.67%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	980899041	1136.434 ppb
2) HBTM Motor Oil (C24-C40)	9.16	920219150	1255.043 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190713\713256.D
Sample : 190727A LCSD-1 2/800



Data File : G:\APOLLO\DATA\190814\814150.D Vial: 50
 Acq On : 8-21-19 0:26:46 Operator: DP
 Sample : 190727A BLK 2/800 SGC Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 26 14:07 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190814\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Mon Aug 12 12:39:32 2019
 Response via : Multiple Level Calibration

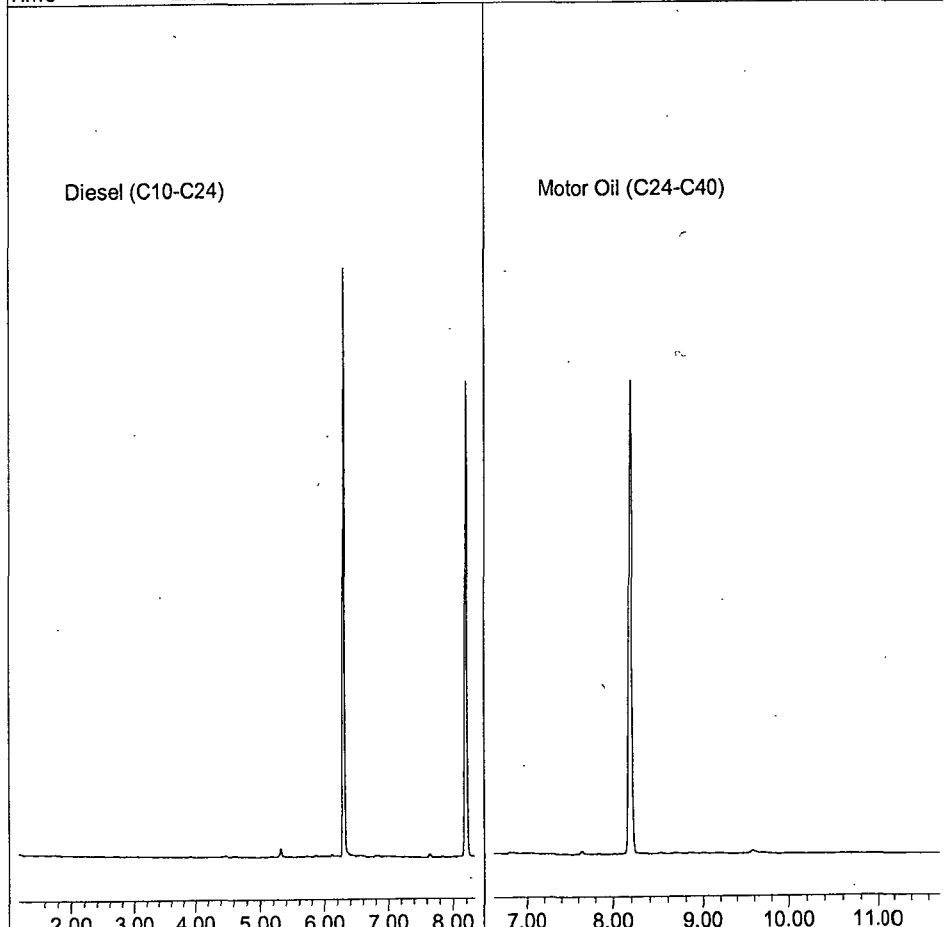
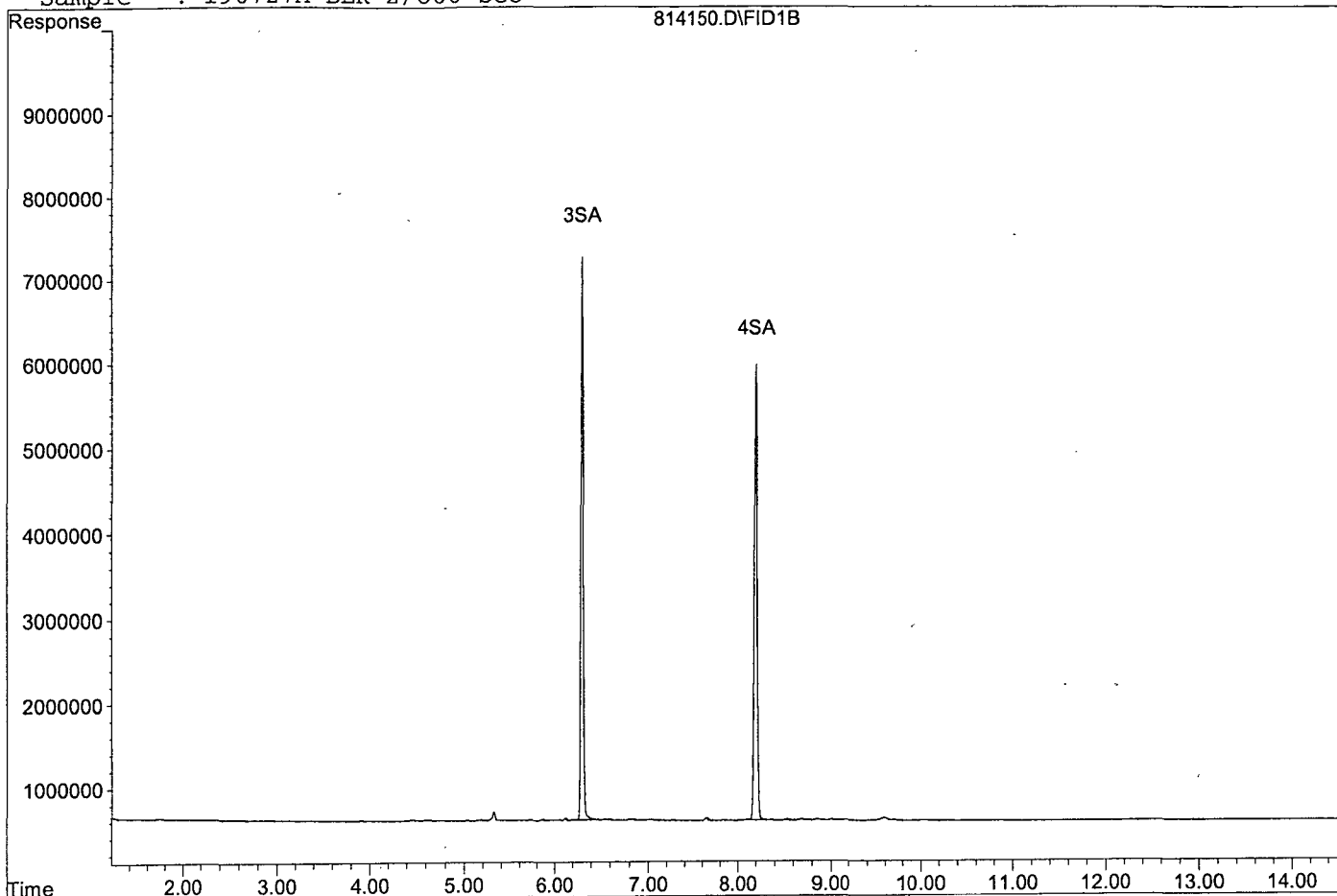
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.30	116369505	80.035 ppb
Surrogate Spike 75.000		Recovery =	106.71%
4) SA Octacosane(S)	8.20	115532663	78.475 ppb
Surrogate Spike 75.000		Recovery =	104.63%
Target Compounds			
Target Compounds			
1) HATM Diesel (C10-C24)	0.00	0	N.D. ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D. ppb

Quantitation Report

Data File: G:\APOLLO\DATA\190814\814150.D

Sample : 190727A BLK 2/800 SGC



Data File : G:\APOLLO\DATA\190814\814150.D Vial: 50
 Acq On : 8-21-19 0:26:46 Operator: DP
 Sample : 190727A BLK 2/800 SGC Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 26 14:14 2019 Quant Results File: DEC0807.RES

Method : G:\APOLLO\DATA\190814\DEC0807.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Tue Aug 20 09:03:40 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

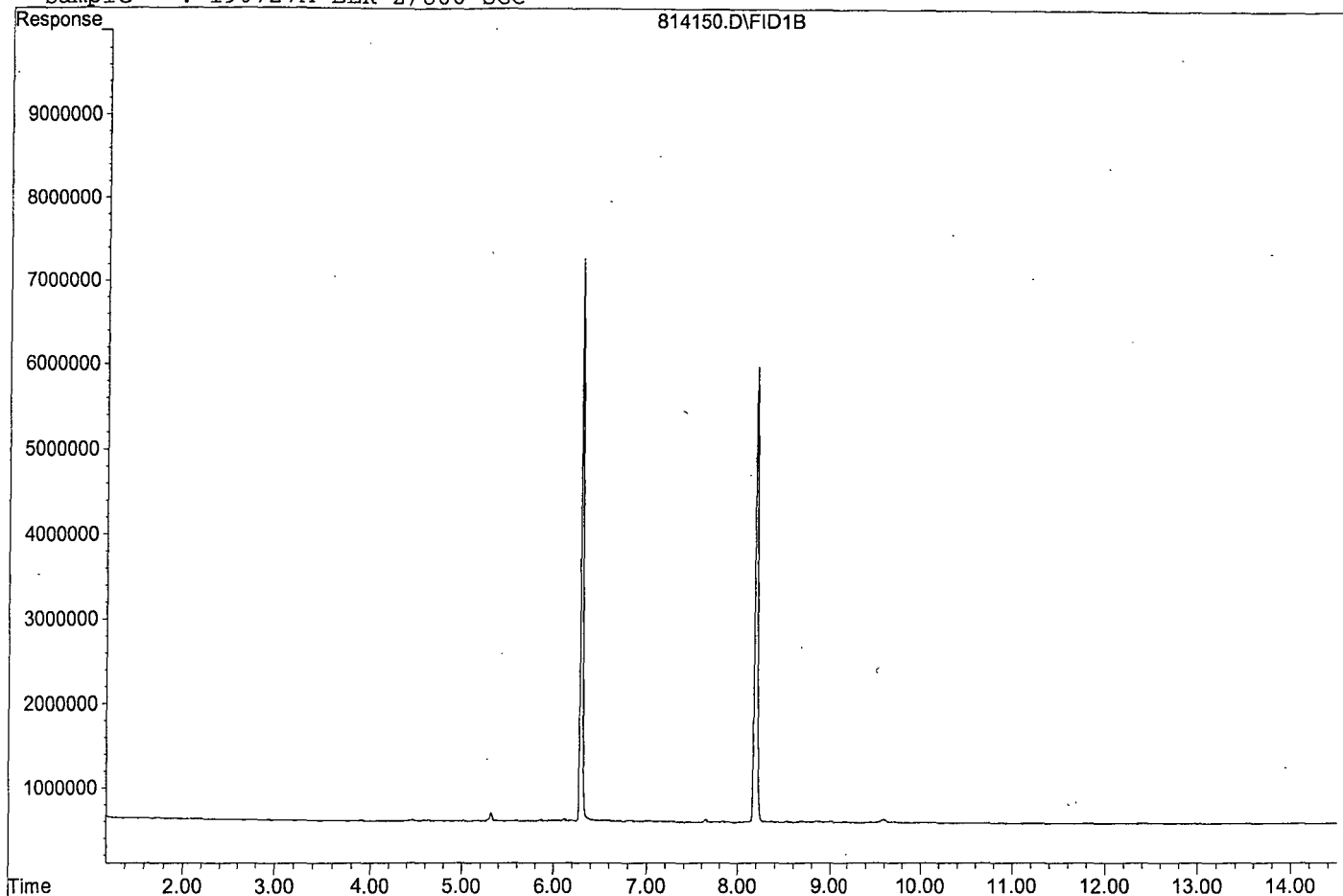
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) SC Decanoic Acid(S)	0.00	0	N.D. ppb
Surrogate Spike 60.000		Recovery =	0.00%
Target Compounds			
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\190814\814150.D

Sample : 190727A BLK 2/800 SGC



Data File : G:\APOLLO\DATA\190814\814151.D Vial: 51
 Acq On : 8-21-19 0:45:58 Operator: DP
 Sample : 190727A LCS-1 2/800 SGC Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 26 14:05 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190814\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Mon Aug 12 12:39:32 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

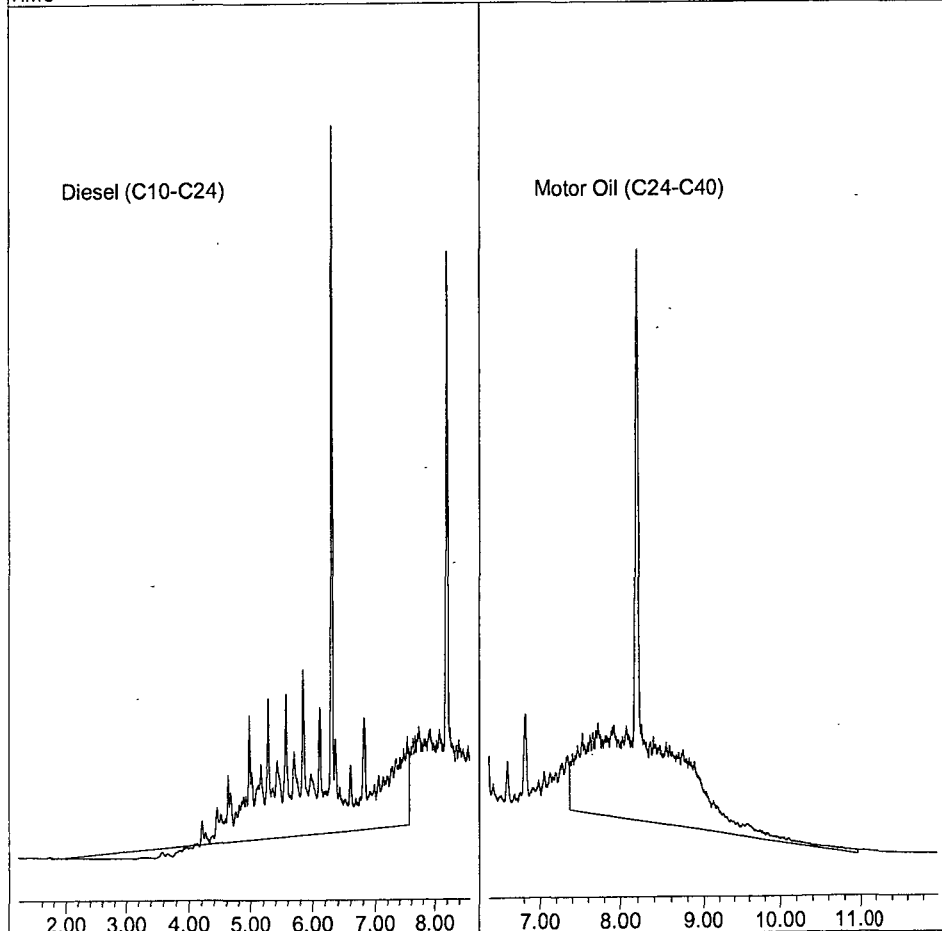
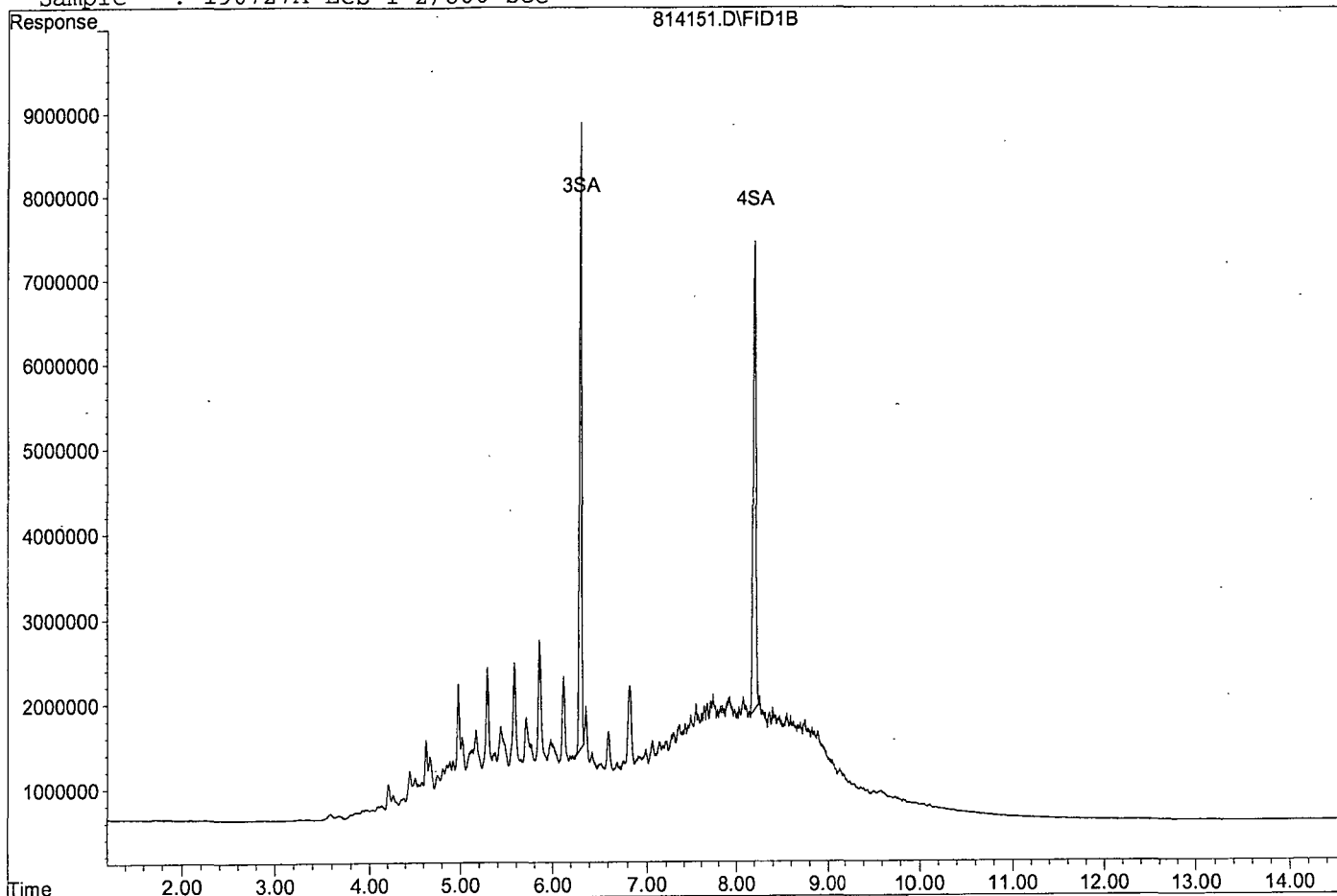
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl (S)	6.30	116047041	79.814 ppb
Surrogate Spike 75.000		Recovery =	106.42%
4) SA Octacosane (S)	8.20	116543225	79.162 ppb
Surrogate Spike 75.000		Recovery =	105.55%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	1057192594	1224.550 ppb
2) HBTM Motor Oil (C24-C40)	9.16	889121219	1212.630 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190814\814151.D

Sample : 190727A LCS-1 2/800 SGC



Data File : G:\APOLLO\DATA\190814\814151.D Vial: 51
 Acq On : 8-21-19 0:45:58 Operator: DP
 Sample : 190727A LCS-1 2/800 SGC Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 26 14:15 2019 Quant Results File: DEC0807.RES

Method : G:\APOLLO\DATA\190814\DEC0807.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Tue Aug 20 09:03:40 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

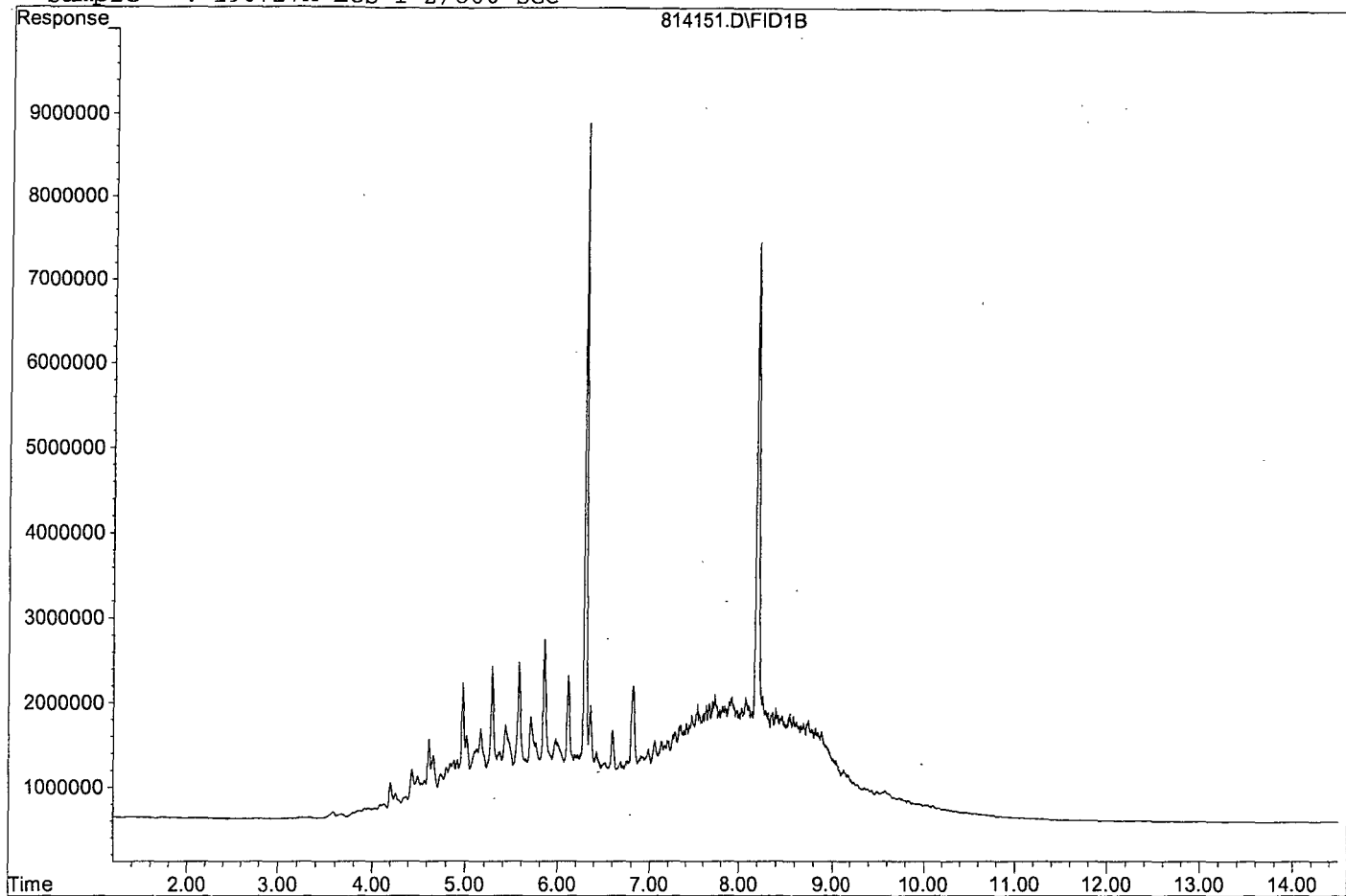
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 60.000		Recovery =	0.00%
Target Compounds			
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\190814\814151.D

Sample : 190727A LCS-1 2/800 SGC



Data File : G:\APOLLO\DATA\190814\814152.D Vial: 52
 Acq On : 8-21-19 1:05:54 Operator: DP
 Sample : 190727A LCSD-1 2/800 SGC Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 26 14:05 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190814\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Mon Aug 12 12:39:32 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

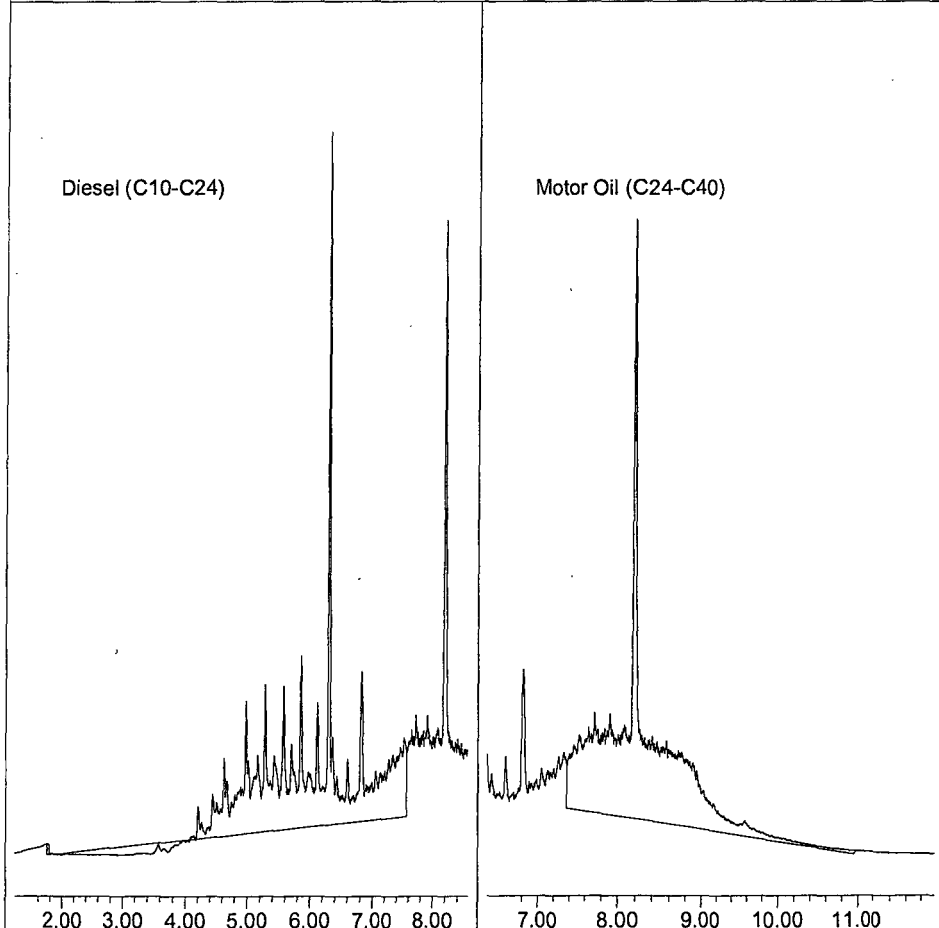
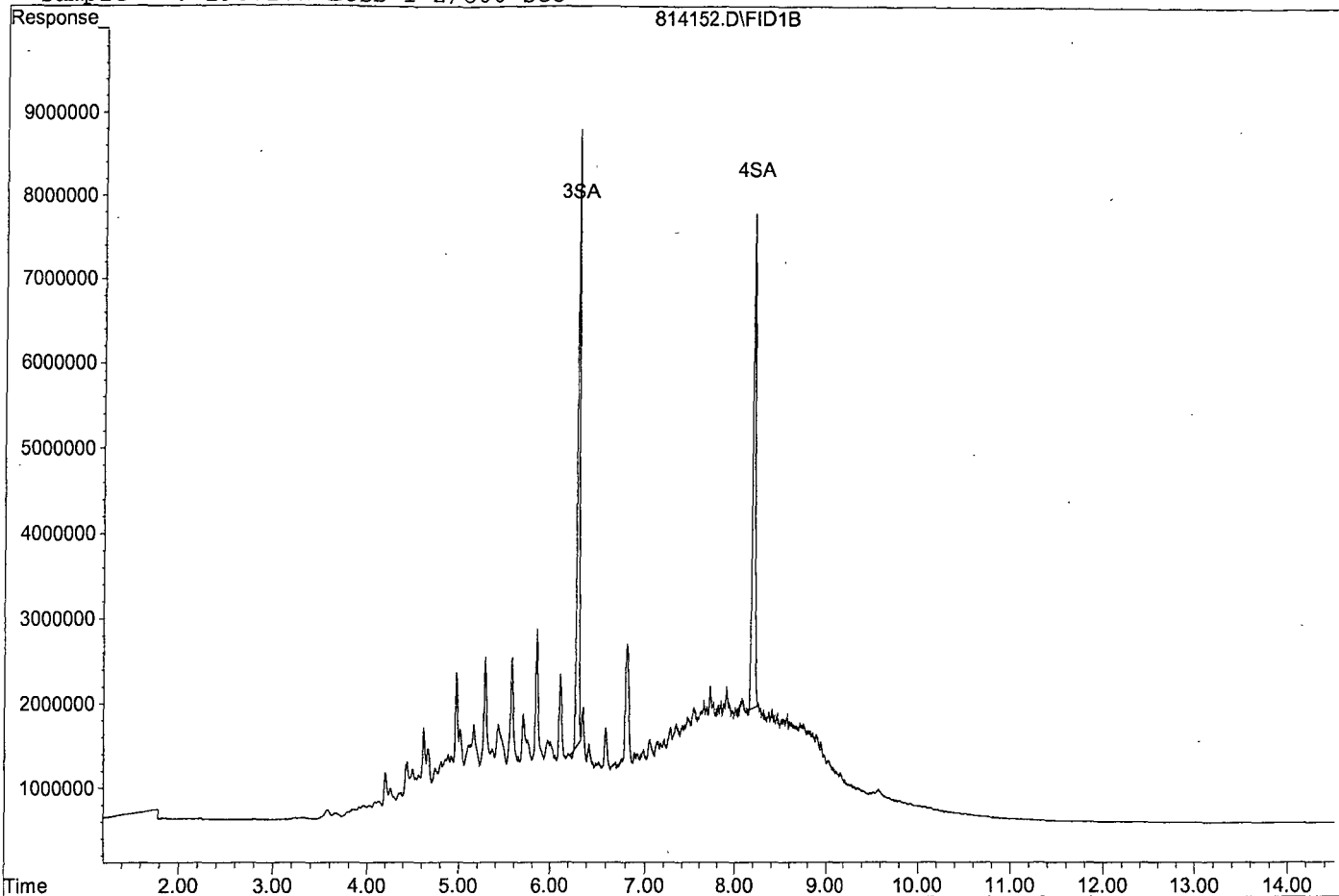
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.30	116517972	80.138 ppb
Surrogate Spike 75.000		Recovery =	106.85%
4) SA Octacosane(S)	8.20	116769703	79.316 ppb
Surrogate Spike 75.000		Recovery =	105.75%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	1072716320	1242.480 ppb
2) HBTM Motor Oil (C24-C40)	9.16	905046722	1234.350 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190814\814152.D

Sample : 190727A LCSD-1 2/800 SGC



Data File : G:\APOLLO\DATA\190814\814152.D Vial: 52
 Acq On : 8-21-19 1:05:54 Operator: DP
 Sample : 190727A LCSD-1 2/800 SGC Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 26 14:15 2019 Quant Results File: DEC0807.RES

Method : G:\APOLLO\DATA\190814\DEC0807.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Tue Aug 20 09:03:40 2019
 Response via : Multiple Level Calibration

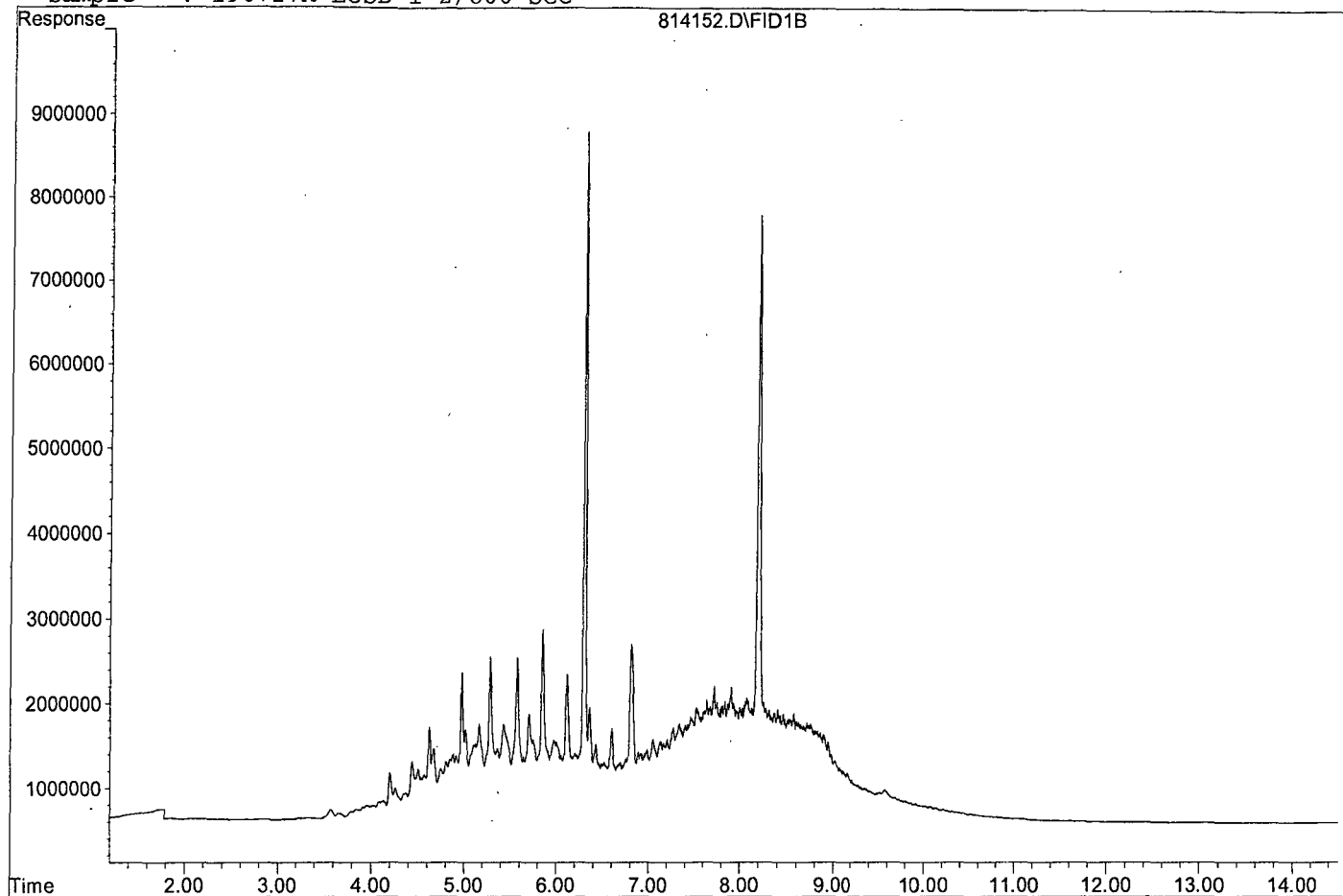
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 60.000		Recovery =	0.00%
Target Compounds			
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\190814\814152.D

Sample : 190727A LCSD-1 2/800 SGC



Diesel / Motor Oil Calibration Curve

Prepared: 06/17/19

Expires: 12/17/19

Prepared By (Initials): BT

Methylene Chloride Lot No. 5829

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference to APPL Prep Date	Exp. Date	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 1	2,000	Prepared 06/17/19	06/17/20	N/A	5uL	1mL	MC	10
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 2	2,000	Prepared 06/17/19	06/17/20	N/A	25uL	1mL	MC	50
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 3	2,000	Prepared 06/17/19	06/17/20	N/A	125uL	1mL	MC	250
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 4	2,000	Prepared 06/17/19	06/17/20	N/A	500uL	1mL	MC	1000
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 5	2,000	Prepared 06/17/19	06/17/20	N/A	750uL	1mL	MC	1500
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 6	2,000	Prepared 06/17/19	06/17/20	N/A	100uL	100uL	N/A	2,000

Diesel / Motor Oil Calibration Standard

Prepared: 06/17/19

Prepared By (Initials): BT

Expires: 06/17/20

Methylene Chloride Lot No. 5829

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel Fuel #2	Phenova	ALO-101287	50,000	CL13227-40441	06/17/20	02/31/2025	400uL	10mL	MC	2000
Motor Oil	Restek	31464	50,000	A0144044-40655	06/17/20	01/31/26	400uL			2000
THC Surrogate	Phenova	ALO-130161	600	CL13256-40366	06/17/20	02/28/24	1666uL			100

Diesel / Motor Oil Second Source (SS)

Prepared: 01/15/19

Expires: 01/15/20

Prepared By (Initials): DP

Methylene Chloride Lot No. 56278

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel Fuel #2	O2SI	G34-011598-03	50,000	G34-319187-38958	08/02/19	09/29/21	50uL	10mL	MC	250
Motor Oil Second Source	O2SI	116390-02-SS	50,000	301142-37652	07/13/19	03/05/22	50uL			

Decanoic Acid Calibration Curve

Prepared: 08/07/19

Prepared By (Initials): BT

Expires: 02/05/20

Methylene Chloride Lot No. 58059

Initial Standard Information							Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
Decanoic Acid STD	APPL	Decanoic Acid-1	60	Prepared 08/07/19	08/06/20	N/A	50uL	1mL	MC	3	
Decanoic Acid STD	APPL	Decanoic Acid-2	60	Prepared 08/07/19	08/06/20	N/A	100uL	1mL	MC	6	
Decanoic Acid STD	APPL	Decanoic Acid-3	60	Prepared 08/07/19	08/06/20	N/A	400uL	1mL	MC	24	
Decanoic Acid STD	APPL	Decanoic Acid-4	60	Prepared 08/07/19	08/06/20	N/A	600uL	1mL	MC	36	
Decanoic Acid STD	APPL	Decanoic Acid-5	60	Prepared 08/07/19	08/06/20	N/A	800uL	1mL	MC	48	
Decanoic Acid STD	APPL	Decanoic Acid-6	60	Prepared 08/07/19	08/06/20	N/A	100uL	100uL	N/A	60	

Decanoic Acid Standard

Prepared: 08/07/19

Prepared By (Initials): BT

Expires: 08/06/20

Methylene Chloride Lot No. 58059

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Decanoic Acid	O2SI	011729-01-05-5PAK	1,000	302690-37818	08/07/20	03/31/21	600uL	10mL	MC	60

Decanoic Acid CCV										
Prepared: 08/07/19						Prepared By (Initials): BT				
Expires: 02/05/20										
Methylene Chloride Lot No. 58059										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Decanoic Acid STD	APPL	Decanoic Acid CCV	60	Prepared 08/07/19	08/06/20	N/A	4mL	10mL	MC	24

Diesel / Motor Oil CCV										
Prepared: 07/19/19										
Expires: 01/19/20										
Methylene Chloride Lot No. 5829										
Prepared By (Initials): <u>BT</u>										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference to APPL Prep Date	Exp. Date	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel / Motor Oil STD	APPL	Diesel / Motor Oil CCV	2,000	Prepared 06/17/19	06/17/20	N/A	1250uL	10mL	MC	250

Organic Extraction Worksheet

Method	Continuous Liq/Liq TPH-Diesel/MO 3520C	Extraction Set	190727A	Extraction Method	LIQ005	Units	mL
Spiked ID 1	Diesel Spike 7/17/19-7/17/20	Surrogate ID 1	THC Surrogate 7/25/19-7/25/20				
Spiked ID 2	Motor Oil Spike 7/19/19-7/20/20	Surrogate ID 2					
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC: yes					
Spiked ID 7		Ext. Start Time: 07/27/19 11:10					
Spiked ID 8		Ext. End Time: 07/30/19 14:35					
		GC Requires Extract By: 07/30/19 0:00					
		pH1		Water Bath Temp 1 °C	35/34.5	EWB1 °	
		pH2		Water Bath Temp 2 °C	35/38.8	EWB2	
		pH3		Water Bath Temp 3 °C	35/34.4	EWB3 °	

Spiked By: DL

Date 07/27/19

Witnessed By: SS

Date 07/27/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1 190727A Blk				0.100	1	800	2	2	07/27/19 11:10	
						equip				
						E-HP47 E-WB1				
2 190727A LCS-1		0.020	1,2	0.100	1	800	2	2	07/27/19 11:10	
						equip				
						E-HP48 E-WB2				
3 190727A LCSD-1		0.020	1,2	0.100	1	800	2	2	07/27/19 11:10	
						equip				
						E-HP49 E-WB3				
4 AZ95187	AZ95187W13			0.100	1	800	2	2	07/27/19 11:10	89570
						equip				
						E-HP50 E-WB1				
5 AZ95189 MS-1	AZ95189W21	0.020	1,2	0.100	1	800	2	2	07/27/19 11:10	
						equip				
						E-HP42 E-WB3				
6 AZ95189 MSD-1	AZ95189W32	0.020	1,2	0.100	1	800	2	2	07/27/19 11:10	
						equip				
						E-HP41 E-WB1				
7 AZ95189	AZ95189W22			0.100	1	800	2	2	07/27/19 11:10	89570
						equip				
						E-HP51 E-WB2				
8 AZ95190	AZ95190W11			0.100	1	800	2	2	07/27/19 11:10	89570
						equip				
						E-HP39 E-WB2				
9 AZ95329	AZ95329W12			0.100	1	800	2	2	07/27/19 11:10	89593
						equip				
						E-HP37 E-WB3				
10 AZ95330	AZ95330W12			0.100	1	800	2	2	07/27/19 11:10	89593
						equip				
						E-HP25 E-WB1				
11 AZ95332	AZ95332W13			0.100	1	800	2	2	07/27/19 11:10	89593
						equip				
						E-HP26 E-WB2				
12 AZ95334	AZ95334W14			0.100	1	800	2	2	07/27/19 11:10	89593
						equip				
						E-HP27 E-WB3				
13 AZ95336	AZ95336W14			0.100	1	800	2	2	07/27/19 11:10	89593
						equip				
						E-HP28 E-WB1				
14 AZ95338	AZ95338W12			0.100	1	800	2	2	07/27/19 11:10	89593
						equip				
						E-HP29 E-WB2				
15 AZ95419	AZ95419W10			0.100	1	800	2	2	07/27/19 11:10	89607
						equip				
						E-HP30 E-WB3				
16 AZ95421	AZ95421W07			0.100	1	800	2	2	07/27/19 11:10	89607
						equip				
						E-HP6 E-WB1				

Solvent and Lot#	
1+1 HCL	6/15/19
PH Strips	HC863463
Dichloromethane (DCM)	58240
Filter Paper	400163
B. Sodium Sulfate	2019010772
Silica Gel	21111Q

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	<i>AS</i>
Date	7/30/19
Time	4:58 pm
Refrigerator	Hobart 1

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	08/04/19 9:42:25 AM

Reviewed By: SS

Date 8/3/19

Organic Extraction Worksheet

Method	Continuous Liq/Liq TPH-Diesel/MO 3520C	Extraction Set	190727A	Extraction Method	LIQ005	Units	mL
Spiked ID 1	Diesel Spike 7/17/19-7/17/20	Surrogate ID 1	THC Surrogate 7/25/19-7/25/20				
Spiked ID 2	Motor Oil Spike 7/19/19-7/20/20	Surrogate ID 2					
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:		yes			
Spiked ID 7		Ext. Start Time:		07/27/19 11:10			
Spiked ID 8		Ext. End Time:		07/30/19 14:35			
		GC Requires Extract By:		07/30/19 0:00			
		pH1		Water Bath Temp 1 °C	35/34.5 EWB1 °		
		pH2		Water Bath Temp 2 °C	35/38.8 EWB2		
		pH3		Water Bath Temp 3 °C	35/34.4 EWB3 °		

Spiked By: DL

Date 07/27/19

Witnessed By: SS

Date 07/27/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
17 AZ95423	AZ95423W08			0.100	1	800	2	2	07/27/19 11:10	89607
						equip		E-HP7 E-WB2		

SS 8/3/19

Solvent and Lot#	
1+1 HCL	6/15/19
PH Strips	HC863463
Dichloromethane (DCM)	58240
Filter Paper	400163
B. Sodium Sulfate	2019010772

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	
Date	
Time	
Refrigerator	

	Technician's Initials
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	08/04/19 9:42:25 AM

Reviewed By:

Date

Injection Log

Directory: G:\APOLLO\DATA\190617\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	3	617003.D	1	Diesel/Motor Oil - 1 6/17/19	water	6-17-19 16:40:59
2	4	617004.D	1	Diesel/Motor Oil - 2 6/17/19	water	6-17-19 17:00:17
3	5	617005.D	1	Diesel/Motor Oil - 3 6/17/19	water	6-17-19 17:20:24
4	6	617006.D	1	Diesel/Motor Oil - 4 6/17/19	water	6-17-19 17:40:33
5	7	617007.D	1	Diesel/Motor Oil - 5 6/17/19	water	6-17-19 18:00:01
6	8	617008.D	1	Diesel/Motor Oil - 6 6/17/19	water	6-17-19 18:20:06
7	9	617009.D	1	Diesel/Motor Oil Second Source 1/15/19	water	6-17-19 18:39:28
8	53	713253.D	1	Diesel/Motor Oil CCV 7/19/19	water	7-30-19 18:18:15
9	54	713254.D	2.5	190727A BLK 2/800	water	7-30-19 18:38:23
10	55	713255.D	2.5	190727A LCS-1 2/800	water	7-30-19 18:58:24
11	56	713256.D	2.5	190727A LCSD-1 2/800	water	7-30-19 19:17:46
12	67	713267.D	1	Diesel/Motor Oil CCV 7/19/19	water	7-30-19 22:57:31
13	69	713269.D	2.5	AZ95419W10 2/800	water	7-30-19 23:36:36
14	70	713270.D	2.5	AZ95421W07 2/800	water	7-30-19 23:56:25
15	71	713271.D	2.5	AZ95423W08 2/800	water	7-31-19 0:16:20
16	73	713273.D	1	Diesel/Motor Oil CCV 7/19/19	water	7-31-19 0:55:55
17	53	801053.D	1	Decanoic Acid-1 8/07/19	water	8-7-19 16:40:26
18	54	801054.D	1	Decanoic Acid-2 8/07/19	water	8-7-19 16:59:26
19	55	801055.D	1	Decanoic Acid-3 8/07/19	water	8-7-19 17:19:24
20	56	801056.D	1	Decanoic Acid-4 8/07/19	water	8-7-19 17:38:43
21	57	801057.D	1	Decanoic Acid-5 8/07/19	water	8-7-19 17:58:50
22	58	801058.D	1	Decanoic Acid-6 8/07/19	water	8-7-19 18:18:48
23	48	814148.D	1	Diesel/Motor Oil CCV 8/08/19	water	8-20-19 23:46:53
24	49	814149.D	1	Decanoic Acid CCV 8/07/19	water	8-21-19 0:06:46
25	50	814150.D	2.5	190727A BLK 2/800 SGC	water	8-21-19 0:26:46
26	51	814151.D	2.5	190727A LCS-1 2/800 SGC	water	8-21-19 0:45:58
27	52	814152.D	2.5	190727A LCSD-1 2/800 SGC	water	8-21-19 1:05:54
28	56	814156.D	2.5	AZ95419W10 2/800 SGC	water	8-21-19 2:24:22
29	57	814157.D	2.5	AZ95423W08 2/800 SGC	water	8-21-19 2:44:20
30	58	814158.D	1	Diesel/Motor Oil CCV 8/08/19	water	8-21-19 3:04:13
31	59	814159.D	1	Decanoic Acid CCV 8/07/19	water	8-21-19 3:24:06

**ORGANICS
Calibration Data**

PAH by GCMS SIM
EPA 8270 SIM

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Initial Cal. Date: 07/17/19
Instrument: Yoda

Initials: MA

		0717Y003.D	0717Y004.D	0717Y005.D	0717Y006.D	0717Y007.D	0717Y008.D	0717Y009.D	0717Y010.D							
	Compound	0.1	0.2	0.5	1	5	10	50	100		Avg	%RSD	Type	r^2	Q	MRF
1	I Naphthalene-D8(IS)															
2	SL Surrogate Recovery (NBZ)			0.1517	0.2458	0.2053	0.2373	0.3108	0.3194		0.25	26	SL	0.999		
3	TM Naphthalene	1.553	1.439	1.409	1.423	1.251	1.286	0.9952			1.3	14	TM			0.700
4	S 2-Methylnaphthalene-D10 (2M)	1.355	1.223	1.169	1.151	0.9967	1.042	1.155	1.130		1.2	9.5	S			
5	TM 2-Methylnaphthalene	0.8712	0.8109	0.8424	0.8624	0.8306	0.8597	0.6871	0.6384		0.80	11	TM			0.400
6	TM 1-Methylnaphthalene	1.117	1.084	1.017	0.9774	0.8494	0.8545				0.98	11	TM			
7	I Acenaphthene-D10(IS)															
8	S Surrogate Recovery (FBP)		1.482	1.479	1.494	1.344	1.375	1.473	1.456		1.4	4.1	S			
9	TM Acenaphthylene	5.064	4.292	4.377	4.564	4.729	4.842	3.887	3.665		4.4	11	TM			0.900
10	*TM Acenaphthene	2.037	1.809	1.779	1.739	1.603	1.610	1.297			1.7	13	*TM			0.900
11	TM Fluorene	2.171	1.944	1.947	1.998	1.890	1.953	1.546	1.418		1.9	13	TM			0.900
12	I Phenanthrene-D10(IS)															
13	TM Phenanthrene	1.732	1.558	1.551	1.588	1.428	1.448	1.101			1.5	13	TM			0.700
14	TM Anthracene	1.379	1.217	1.228	1.323	1.331	1.414	1.132	1.006		1.3	11	TM			0.700
15	S Fluoranthene-D10 (FRT)	1.337	1.034	1.012	1.059	1.002	1.195	1.189	1.147		1.1	10	S			
16	*TM Fluoranthene	2.252	1.815	1.838	1.928	1.834	1.888	1.442			1.9	13	*TM			0.600
17	I Chrysene-D12(IS)															
18	TM Pyrene	2.231	1.845	1.552	1.766	1.706	1.763	1.364			1.7	15	TM			0.600
19	S Surrogate Recovery (TPH)		1.143	0.8928	0.9491	0.8358	0.9421	0.9482	0.9507		0.95	9.9	S			
20	TM Benz (a) anthracene	1.938	1.457	1.253	1.391	1.456	1.572				1.5	15	TM			0.800
21	TM Chrysene	2.072	1.813	1.455	1.661	1.540	1.550				1.7	14	TM			0.700
22	TM Indeno (1,2,3-cd) pyrene	2.177	1.873	1.538	1.748	1.709	1.814	1.462	1.468		1.7	14	TM			0.500
23	I Perylene-D12(IS)															
24	TML Benzo (b) fluoranthene	1.811	1.253	1.193	1.501	1.601	1.697				1.5	16	TML	0.999		0.700
25	TM Benzo (k) fluoranthene	1.854	1.898	1.501	1.686	1.621	1.735	1.393	1.304		1.6	13	TM			0.700
26	*TM Benzo (a) pyrene	1.838	1.447	1.257	1.434	1.489	1.613	1.309	1.230		1.5	14	*TM			0.700
27	TM Dibenz (a,h) anthracene	1.818	1.560	1.309	1.510	1.531	1.638	1.344	1.298		1.5	12	TM			0.400
28	TM Benzo (g,h,i) perylene	1.326	1.502	1.244	1.455	1.476	1.576	1.269	1.216		1.4	9.8	TM			0.500
29																
30																
31																
32																
33																
34																
35																

Data File : M:\YODA\DATA\Y190717P\0717Y003.D Vial: 3
 Acq On : 17 Jul 19 9:51 Operator: MA, SS
 Sample : 0.1 SIM 07/10/19 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Jul 17 13:01 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 13:01:02 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.72	136	111514	2.50000	ppb	0.01
7) Acenaphthene-D10 (IS)	6.85	164	57226	2.50000	ppb	0.01
12) Phenanthrene-D10 (IS)	8.61	188	112163	2.50000	ppb	0.01
17) Chrysene-D12 (IS)	11.97	240	115994	2.50000	ppb	0.02
23) Perylene-D12 (IS)	14.49	264	117205	2.50000	ppb	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	3.79	82	219	0.64641	ppb	-0.01
Spiked Amount	5.000		Recovery	=	12.920%	
4) 2-Methylnaphthalene-D10 (2)	5.61	152	3022	0.05877	ppb	0.05
Spiked Amount	5.000		Recovery	=	1.180%	
8) Surrogate Recovery (FBP)	6.07	172	2034	0.05983	ppb	0.03
Spiked Amount	5.000		Recovery	=	1.200%	
15) Fluoranthene-D10 (FRT)	10.02	212	3000	0.05958	ppb	0.02
Spiked Amount	5.000		Recovery	=	1.200%	
19) Surrogate Recovery (TPH)	10.47	244	4308	0.09756	ppb	0.01
Spiked Amount	5.000		Recovery	=	1.960%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.75	128	6929	0.11621	ppb	98
5) 2-Methylnaphthalene	5.64	142	3886	0.10885	ppb	98
6) 1-Methylnaphthalene	5.75	142	4983	0.11361	ppb	96
9) Acenaphthylene	6.71	152	11592	0.11436	ppb	99
10) Acenaphthene	6.89	154	4662	0.12004	ppb	96
11) Fluorene	7.52	166	4970	0.11682	ppb	97
13) Phenanthrene	8.65	178	7771	0.11618	ppb	98
14) Anthracene	8.72	178	6186	0.10969	ppb	97
16) Fluoranthene	10.05	202	10104	0.12115	ppb	97
18) Pyrene	10.31	202	10352	0.12773	ppb	95
20) Benz (a) anthracene	11.94	228	8993	0.12825	ppb	99
21) Chrysene	12.02	228	9612	0.12285	ppb	97
22) Indeno (1,2,3-cd) pyrene	16.38	276	10102	0.12631	ppb	# 96
24) Benzo (b) fluoranthene	13.94	252	8488	0.20690	ppb	94
25) Benzo (k) fluoranthene	13.99	252	8692	0.11328	ppb	# 92
26) Benzo (a) pyrene	14.45	252	8616	0.12605	ppb	100
27) Dibenz (a,h) anthracene	16.33	278	8524	0.12113	ppb	97
28) Benzo (g,h,i) perylene	16.89	276	6216	0.09266	ppb	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

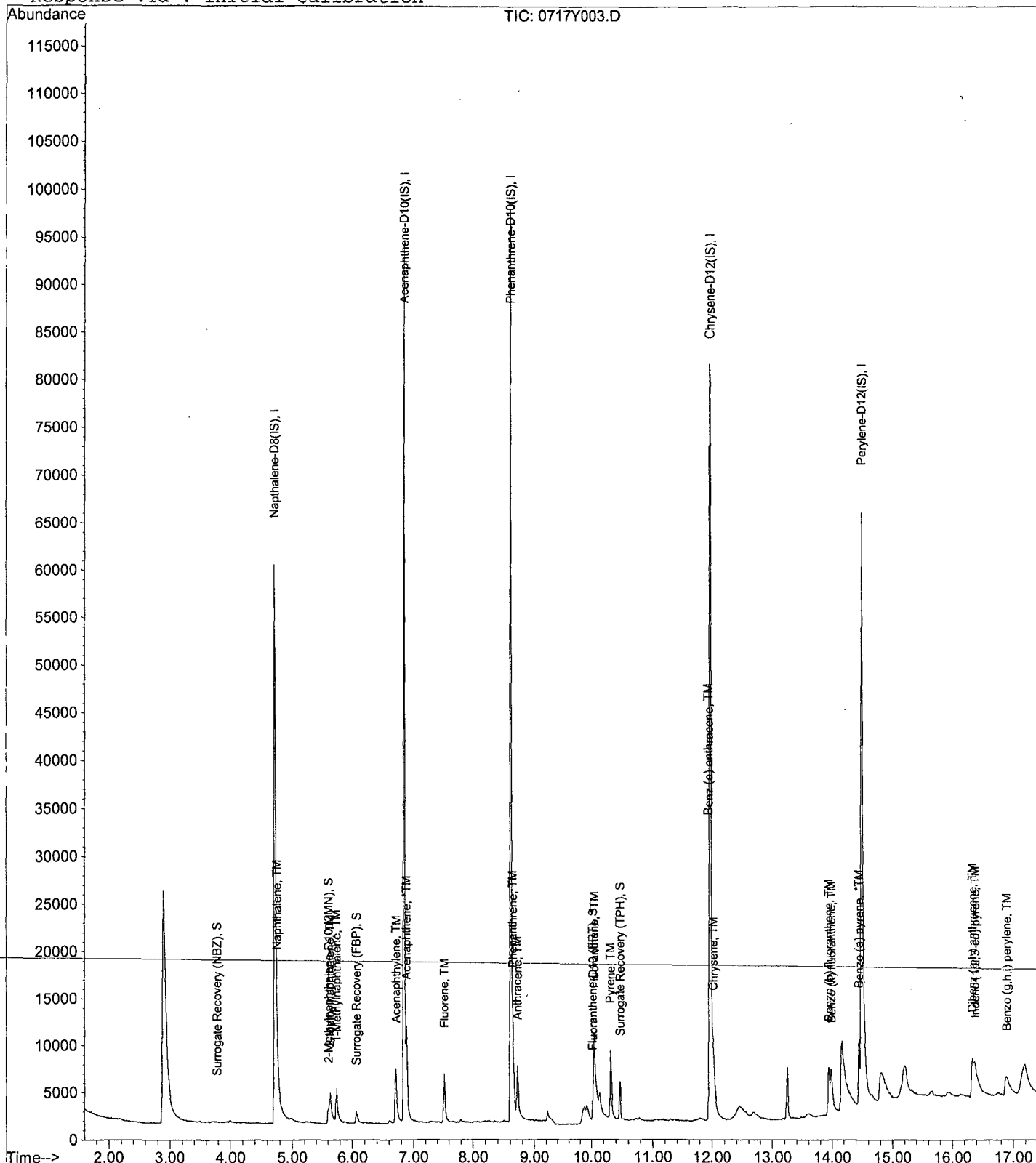
Data File : M:\YODA\DATA\Y190717P\0717Y003.D
Acq On : 17 Jul 19 9:51
Sample : 0.1 SIM 07/10/19
Misc :

Vial: 3
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 17 13:01 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Jul 17 13:35:41 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y004.D
 Acq On : 17 Jul 19 10:14
 Sample : 0.2 SIM 07/10/19
 Misc :

Vial: 4
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 17 12:36 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 12:32:05 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.72	136	104713	2.50000	ppb	0.02
7) Acenaphthene-D10 (IS)	6.84	164	54673	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	8.60	188	102660	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.96	240	103577	2.50000	ppb	0.01
23) Perylene-D12 (IS)	14.48	264	104410	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.85	82	481	0.04989	ppb	0.05
Spiked Amount	5.000		Recovery	= 1.000%		
4) 2-Methylnaphthalene-D10 (2)	5.60	152	5121	0.10576	ppb	0.04
Spiked Amount	5.000		Recovery	= 2.120%		
8) Surrogate Recovery (FBP)	6.07	172	3238	0.09941	ppb	0.03
Spiked Amount	5.000		Recovery	= 1.980%		
15) Fluoranthene-D10 (FRT)	10.01	212	4244	0.09238	ppb	0.01
Spiked Amount	5.000		Recovery	= 1.840%		
19) Surrogate Recovery (TPH)	10.46	244	4736	0.12009	ppb	0.00
Spiked Amount	5.000		Recovery	= 2.400%		
Target Compounds						
3) Naphthalene	4.75	128	12056	0.21534	ppb	99
5) 2-Methylnaphthalene	5.63	142	6793	0.19695	ppb	99
6) 1-Methylnaphthalene	5.74	142	9082	0.23052	ppb	96
9) Acenaphthylene	6.70	152	18753	0.18900	ppb	99
10) Acenaphthene	6.89	154	7905	0.21305	ppb	97
11) Fluorene	7.51	166	8496	0.20217	ppb	99
13) Phenanthrene	8.64	178	12506	0.20429	ppb	99
14) Anthracene	8.71	178	9876	0.18603	ppb	99
16) Fluoranthene	10.04	202	14846	0.19448	ppb	98
18) Pyrene	10.30	202	15206	0.21012	ppb	97
20) Benz (a) anthracene	11.95	228	12075	0.19734	ppb	97
21) Chrysene	12.01	228	14844	0.22083	ppb	98
22) Indeno (1,2,3-cd) pyrene	16.34	276	15408	0.21127	ppb #	100
24) Benzo (b) fluoranthene	13.92	252	10464	0.16889	ppb	94
25) Benzo (k) fluoranthene	13.97	252	15432	0.21941	ppb #	94
26) Benzo (a) pyrene	14.44	252	11773	0.18911	ppb	98
27) Dibenz (a,h) anthracene	16.30	278	13027	0.20387	ppb	99
28) Benzo (g,h,i) perylene	16.84	276	10603	0.17371	ppb	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

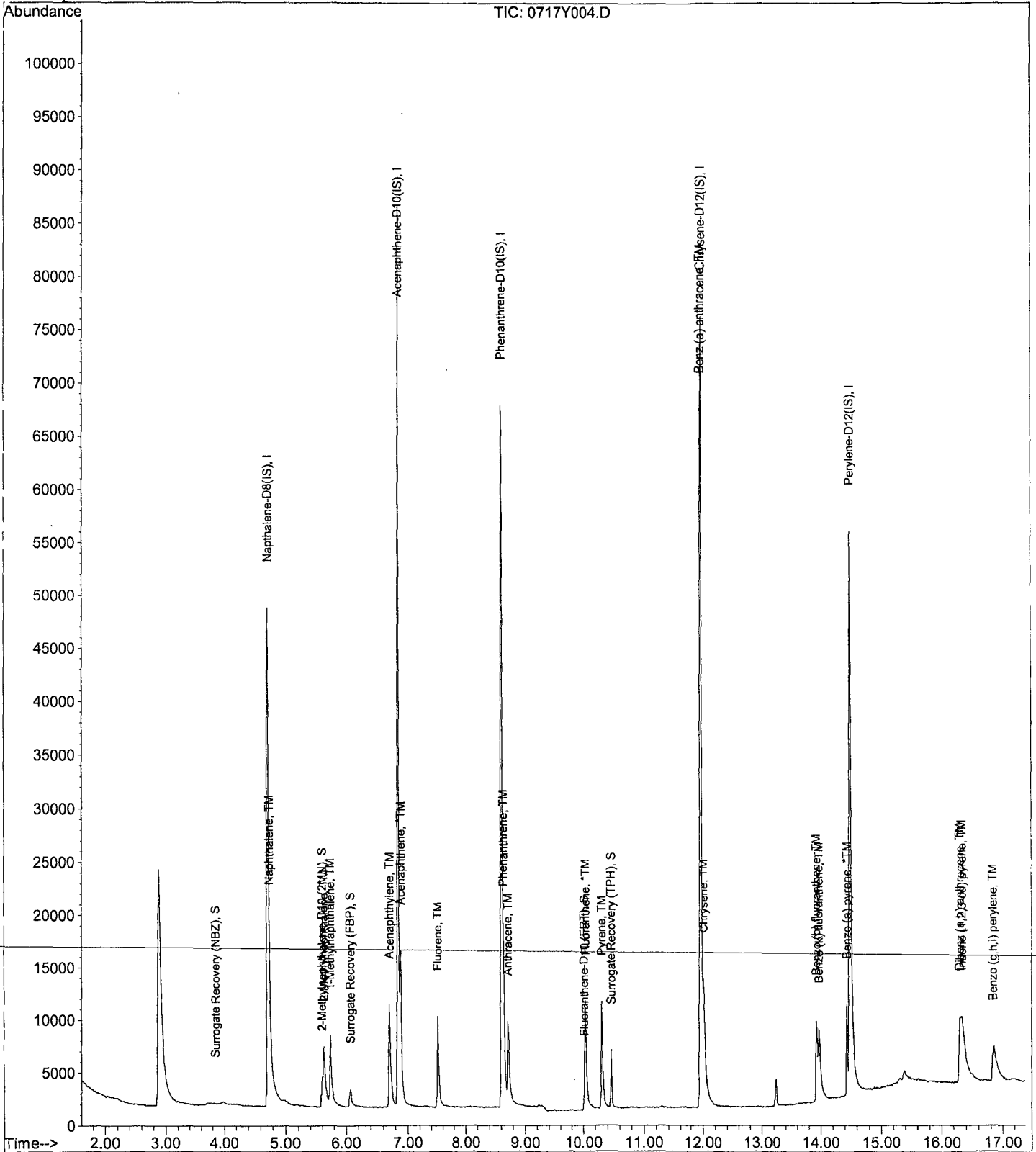
Data File : M:\YODA\DATA\Y190717P\0717Y004.D
Acq On : 17 Jul 19 10:14
Sample : 0.2 SIM 07/10/19
Misc :

Vial: 4
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 17 12:36 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Jul 17 13:35:41 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y005.D Vial: 5
 Acq On : 17 Jul 19 10:38 Operator: MA,SS
 Sample : 0.5 SIM 07/10/19 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Jul 17 10:43 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 10:43:28 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.71	136	106830	2.50000	ppb	-0.01
7) Acenaphthene-D10 (IS)	6.84	164	54954	2.50000	ppb	-0.01
12) Phenanthrene-D10 (IS)	8.60	188	104266	2.50000	ppb	-0.01
17) Chrysene-D12 (IS)	11.95	240	124552	2.50000	ppb	-0.02
23) Perylene-D12 (IS)	14.48	264	125343	2.50000	ppb	0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.93	82	1621	0.13079	ppb	0.00
Spiked Amount	5.000		Recovery	=	2.620%	
4) 2-Methylnaphthalene-D10 (2)	5.59	152	12493	0.23244	ppb	-0.01
Spiked Amount	5.000		Recovery	=	4.640%	
8) Surrogate Recovery (FBP)	6.06	172	8128	0.17844	ppb	-0.01
Spiked Amount	5.000		Recovery	=	3.560%	
15) Fluoranthene-D10 (FRT)	10.01	212	10551	0.14218	ppb	0.00
Spiked Amount	5.000		Recovery	=	2.840%	
19) Surrogate Recovery (TPH)	10.46	244	11120	0.24058	ppb	0.00
Spiked Amount	5.000		Recovery	=	4.820%	
Target Compounds						
3) Naphthalene	4.75	128	30095	0.58499	ppb	Qvalue 100
5) 2-Methylnaphthalene	5.61	142	17998	0.58022	ppb	97
6) 1-Methylnaphthalene	5.73	142	21738	0.63274	ppb	98
9) Acenaphthylene	6.69	152	48108	0.49102	ppb	99
10) Acenaphthene	6.89	154	19552	0.56031	ppb	90
11) Fluorene	7.51	166	21400	0.53166	ppb	95
13) Phenanthrene	8.64	178	32333	0.51671	ppb	98
14) Anthracene	8.71	178	25606	0.51896	ppb	98
16) Fluoranthene	10.04	202	38336	0.44177	ppb	97
18) Pyrene	10.31	202	38667	0.56813	ppb	96
20) Benz (a) anthracene	11.94	228	31214	0.55616	ppb	99
21) Chrysene	12.01	228	36246	0.52010	ppb	99
22) Indeno (1,2,3-cd) pyrene	16.29	276	38324	0.53772	ppb	# 83
24) Benzo (b) fluoranthene	13.91	252	29900	0.43563	ppb	99
25) Benzo (k) fluoranthene	13.96	252	37626	0.49232	ppb	98
26) Benzo (a) pyrene	14.43	252	31503	0.51638	ppb	97
27) Dibenz (a,h) anthracene	16.27	278	32815	0.46608	ppb	95
28) Benzo (g,h,i) perylene	16.79	276	31190	0.45491	ppb	# 92

(#) = qualifier out of range (m) = manual integration

Quantitation Report

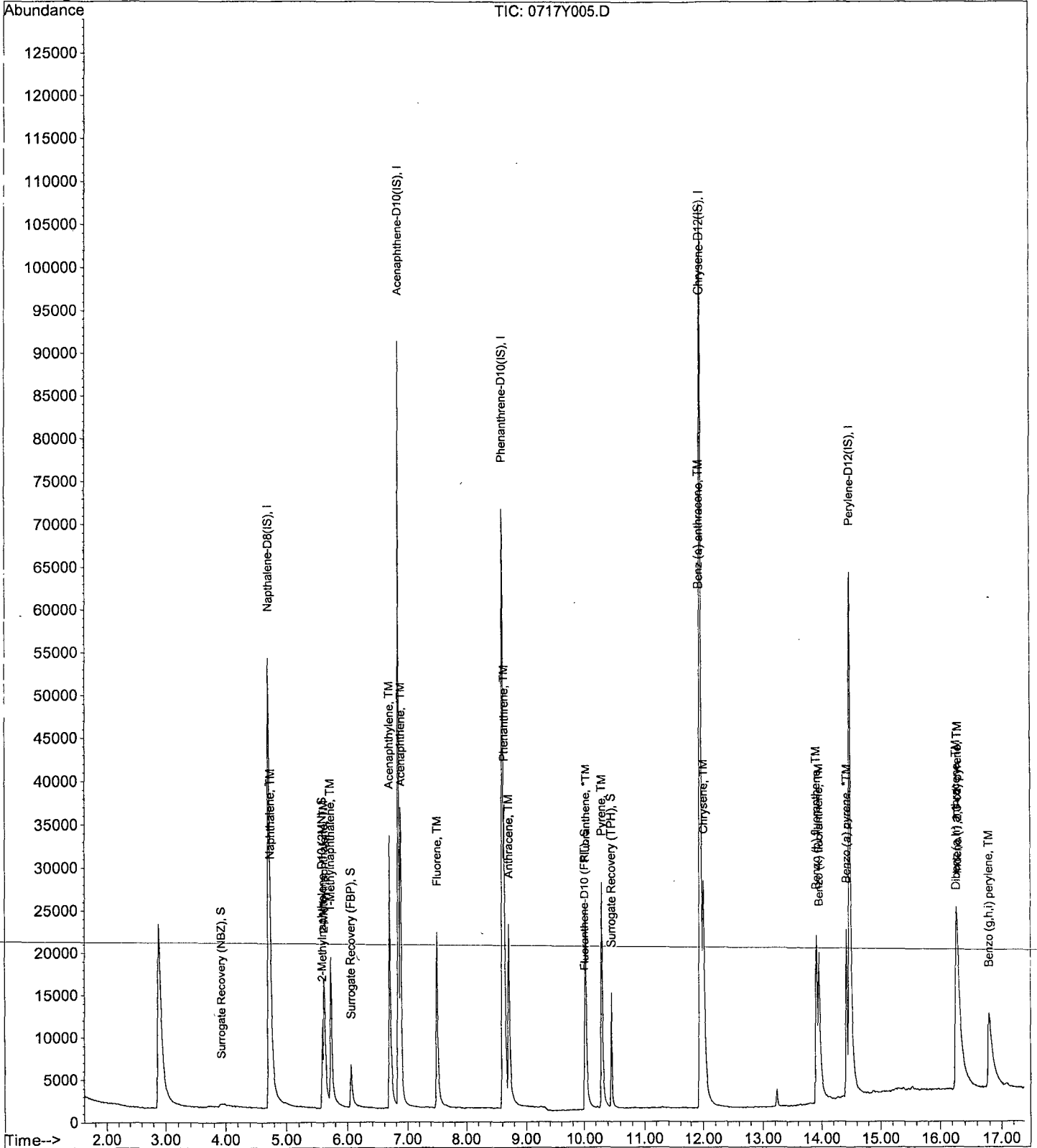
Data File : M:\YODA\DATA\Y190717P\0717Y005.D
Acq On : 17 Jul 19 10:38
Sample : 0.5 SIM 07/10/19
Misc :

Vial: 5
Operator: MA, SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 17 10:43 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Jul 17 13:35:41 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y006.D Vial: 6
 Acq On : 17 Jul 19 11:01 Operator: MA,SS
 Sample : 1.0 SIM 07/10/19 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Jul 17 11:08 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 11:08:37 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	4.72	136	111652	2.50000	ppb	0.00
7) Acenaphthene-D10(IS)	6.84	164	55853	2.50000	ppb	-0.02
12) Phenanthrene-D10(IS)	8.61	188	105324	2.50000	ppb	0.00
17) Chrysene-D12(IS)	11.95	240	115441	2.50000	ppb	-0.02
23) Perylene-D12(IS)	14.48	264	113930	2.50000	ppb	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	3.92	82	5489	0.42375	ppb	0.00
Spiked Amount	5.000		Recovery	=	8.480%	
4) 2-Methyl-naphthalene-D10 (2)	5.59	152	25712	0.45773	ppb	-0.02
Spiked Amount	5.000		Recovery	=	9.160%	
8) Surrogate Recovery (FBP)	6.06	172	16691	0.36052	ppb	-0.02
Spiked Amount	5.000		Recovery	=	7.220%	
15) Fluoranthene-D10 (FRT)	10.00	212	22298	0.29747	ppb	-0.02
Spiked Amount	5.000		Recovery	=	5.940%	
19) Surrogate Recovery (TPH)	10.46	244	21914	0.51153	ppb	-0.01
Spiked Amount	5.000		Recovery	=	10.240%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.74	128	63563	1.18218	ppb	99
5) 2-Methyl-naphthalene	5.61	142	38516	1.18806	ppb	100
6) 1-Methyl-naphthalene	5.72	142	43653	1.21575	ppb	98
9) Acenaphthylene	6.69	152	101972	1.02405	ppb	99
10) Acenaphthene	6.89	154	38853	1.09550	ppb	88
11) Fluorene	7.51	166	44627	1.09087	ppb	94
13) Phenanthrene	8.64	178	66889	1.05820	ppb	98
14) Anthracene	8.71	178	55749	1.11853	ppb	97
16) Fluoranthene	10.02	202	81228	0.92664	ppb	# 91
18) Pyrene	10.29	202	81542	1.29264	ppb	# 86
20) Benz (a) anthracene	11.93	228	64225	1.23466	ppb	99
21) Chrysene	12.00	228	76689	1.18726	ppb	98
22) Indeno (1,2,3-cd) pyrene	16.24	276	80695	1.22158	ppb	# 80
24) Benzo (b) fluoranthene	13.89	252	68390	1.09622	ppb	100
25) Benzo (k) fluoranthene	13.94	252	76839	1.10612	ppb	99
26) Benzo (a) pyrene	14.41	252	65347	1.17843	ppb	98
27) Dibenz (a,h) anthracene	16.24	278	68833	1.07558	ppb	98
28) Benzo (g,h,i) perylene	16.75	276	66316	1.06411	ppb	# 91

Quantitation Report

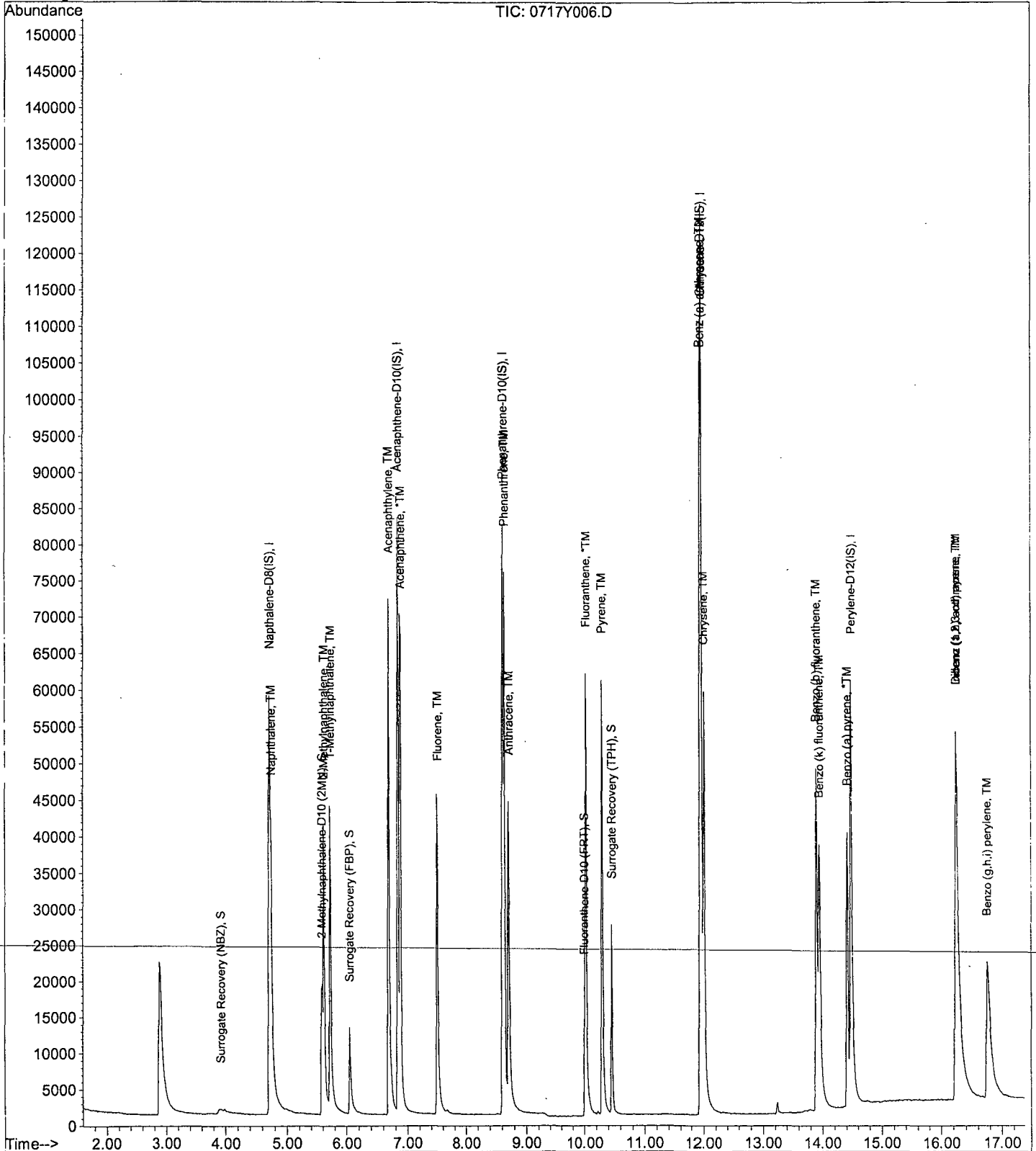
Data File : M:\YODA\DATA\Y190717P\0717Y006.D
 Acq On : 17 Jul 19 11:01
 Sample : 1.0 SIM 07/10/19
 Misc :

Vial: 6
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 17 11:08 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 13:35:41 2019
 Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y007.D Vial: 7
 Acq On : 17 Jul 19 11:25 Operator: MA, SS
 Sample : 5.0 SIM 07/10/19 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Jul 17 13:02 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 13:02:08 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.70	136	114310	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	6.84	164	57235	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	8.60	188	109744	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.94	240	119236	2.50000	ppb	0.00
23) Perylene-D12 (IS)	14.48	264	113481	2.50000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	3.80	82	23465	2.22403	ppb	0.00
Spiked Amount 5.000			Recovery =	44.480%		
4) 2-Methylnaphthalene-D10 (2)	5.56	152	113931	2.16141	ppb	0.00
Spiked Amount 5.000			Recovery =	43.220%		
8) Surrogate Recovery (FBP)	6.04	172	76794	2.25850	ppb	0.00
Spiked Amount 5.000			Recovery =	45.160%		
15) Fluoranthene-D10 (FRT)	10.00	212	110003	2.23265	ppb	0.00
Spiked Amount 5.000			Recovery =	44.660%		
19) Surrogate Recovery (TPH)	10.46	244	99653	2.19550	ppb	0.00
Spiked Amount 5.000			Recovery =	43.900%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.73	128	286024	4.67985	ppb	100
5) 2-Methylnaphthalene	5.60	142	189901	5.18928	ppb	100
6) 1-Methylnaphthalene	5.72	142	194200	4.31918	ppb	100
9) Acenaphthylene	6.68	152	540886	5.33527	ppb	100
10) Acenaphthene	6.87	154	183392	4.72137	ppb	100
11) Fluorene	7.49	166	216112	5.07897	ppb	100
13) Phenanthrene	8.62	178	313376	4.78857	ppb	100
14) Anthracene	8.70	178	291160	5.27669	ppb	100
16) Fluoranthene	10.01	202	402342	4.93037	ppb	100
18) Pyrene	10.28	202	406809	4.88304	ppb	100
20) Benz (a) anthracene	11.92	228	347245	4.81756	ppb	100
21) Chrysene	11.99	228	366452	4.55630	ppb	100
22) Indeno (1,2,3-cd) pyrene	16.20	276	407562	4.95728	ppb	100
24) Benzo (b) fluoranthene	13.87	252	363305	4.81494	ppb	100
25) Benzo (k) fluoranthene	13.92	252	369414	4.97264	ppb	100
26) Benzo (a) pyrene	14.39	252	335875	5.07483	ppb	100
27) Dibenz (a,h) anthracene	16.20	278	347519	5.10035	ppb	100
28) Benzo (g,h,i) perylene	16.69	276	330592	5.08990	ppb	100

Quantitation Report

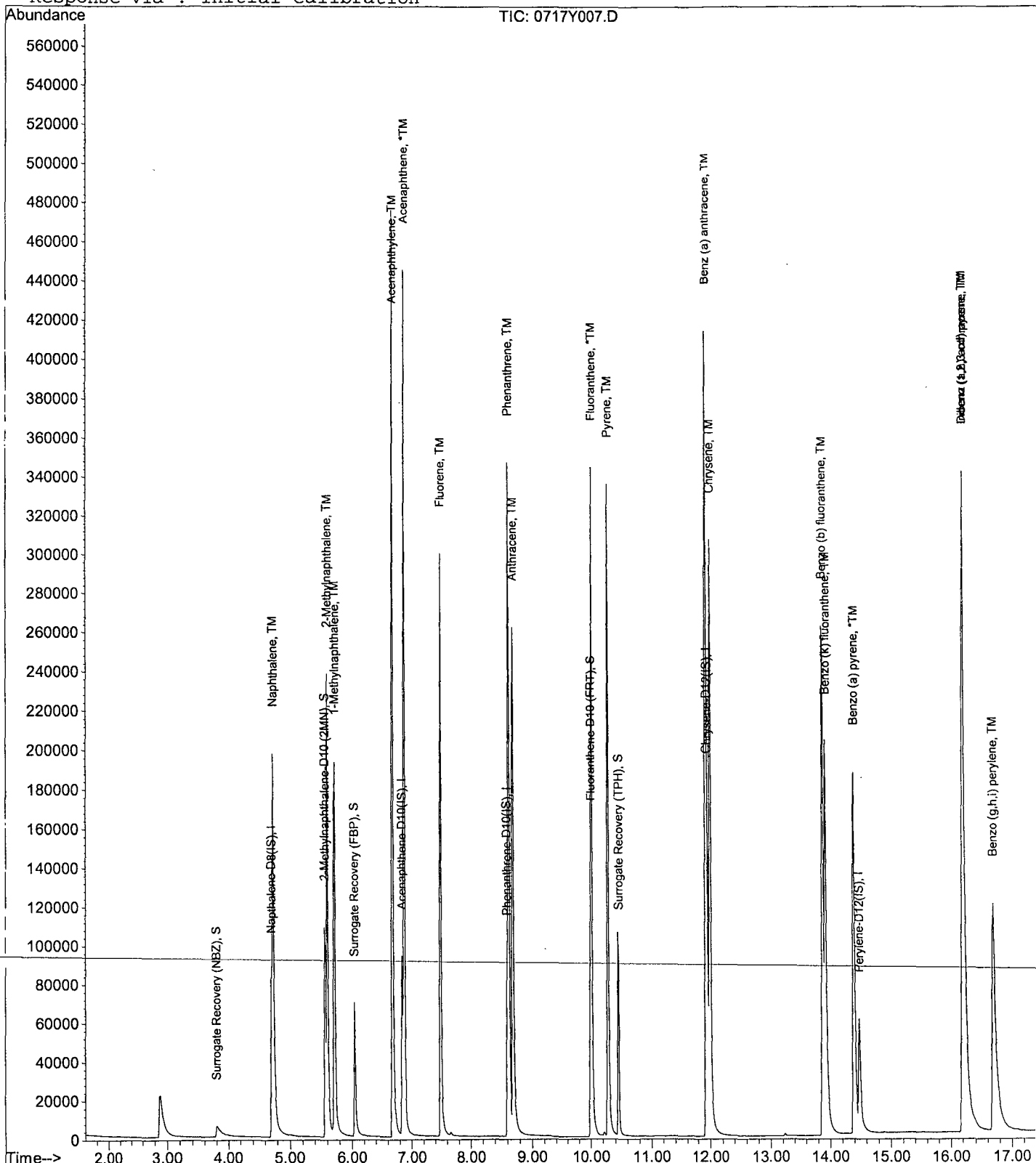
Data File : M:\YODA\DATA\Y190717P\0717Y007.D
Acq On : 17 Jul 19 11:25
Sample : 5.0 SIM 07/10/19
Misc :

Vial: 7
Operator: MA, SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 17 13:02 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Jul 17 13:35:41 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y008.D Vial: 8
 Acq On : 17 Jul 19 11:48 Operator: MA,SS
 Sample : 10 SIM 07/10/19 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Jul 17 12:17 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 12:16:55 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	4.71	136	112785	2.50000	ppb	0.00
7) Acenaphthene-D10(IS)	6.84	164	57579	2.50000	ppb	0.00
12) Phenanthrene-D10(IS)	8.60	188	110627	2.50000	ppb	0.00
17) Chrysene-D12(IS)	11.93	240	118772	2.50000	ppb	-0.01
23) Perylene-D12(IS)	14.48	264	112091	2.50000	ppb	0.00

System Monitoring Compounds

2) Surrogate Recovery (NBZ)	3.78	82	53537	4.62492	ppb	-0.02
Spiked Amount	5.000		Recovery	= 92.500%		
4) 2-Methylnaphthalene-D10 (2)	5.56	152	235122	4.34514	ppb	0.00
Spiked Amount	5.000		Recovery	= 86.900%		
8) Surrogate Recovery (FBP)	6.04	172	158308	4.21887	ppb	0.00
Spiked Amount	5.000		Recovery	= 84.380%		
15) Fluoranthene-D10 (FRT)	9.99	212	264484	4.21131	ppb	-0.01
Spiked Amount	5.000		Recovery	= 84.220%		
19) Surrogate Recovery (TPH)	10.45	244	223786	4.60444	ppb	-0.01
Spiked Amount	5.000		Recovery	= 92.080%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.73	128	580219	9.94920	ppb	99
5) 2-Methylnaphthalene	5.60	142	387867	10.69107	ppb	97
6) 1-Methylnaphthalene	5.71	142	385488	9.40770	ppb	96
9) Acenaphthylene	6.68	152	1115129	10.20838	ppb	99
10) Acenaphthene	6.88	154	370915	9.56817	ppb	96
11) Fluorene	7.48	166	449884	10.02152	ppb	94
13) Phenanthrene	8.62	178	640553	9.44535	ppb	99
14) Anthracene	8.69	178	625887	10.53009	ppb	99
16) Fluoranthene	10.01	202	835310	9.24893	ppb	96
18) Pyrene	10.28	202	837724	10.86096	ppb	93
20) Benz (a) anthracene	11.92	228	746877	10.90485	ppb	99
21) Chrysene	11.98	228	736209	10.10186	ppb	98
22) Indeno (1,2,3-cd) pyrene	16.18	276	861660	10.69768	ppb	100
24) Benzo (b) fluoranthene	13.87	252	760704	11.45890	ppb	# 95
25) Benzo (k) fluoranthene	13.91	252	777741	10.35106	ppb	99
26) Benzo (a) pyrene	14.37	252	723216	10.92796	ppb	# 96
27) Dibenz (a,h) anthracene	16.19	278	734521	10.67982	ppb	98
28) Benzo (g,h,i) perylene	16.67	276	706722	10.75207	ppb	98

Quantitation Report

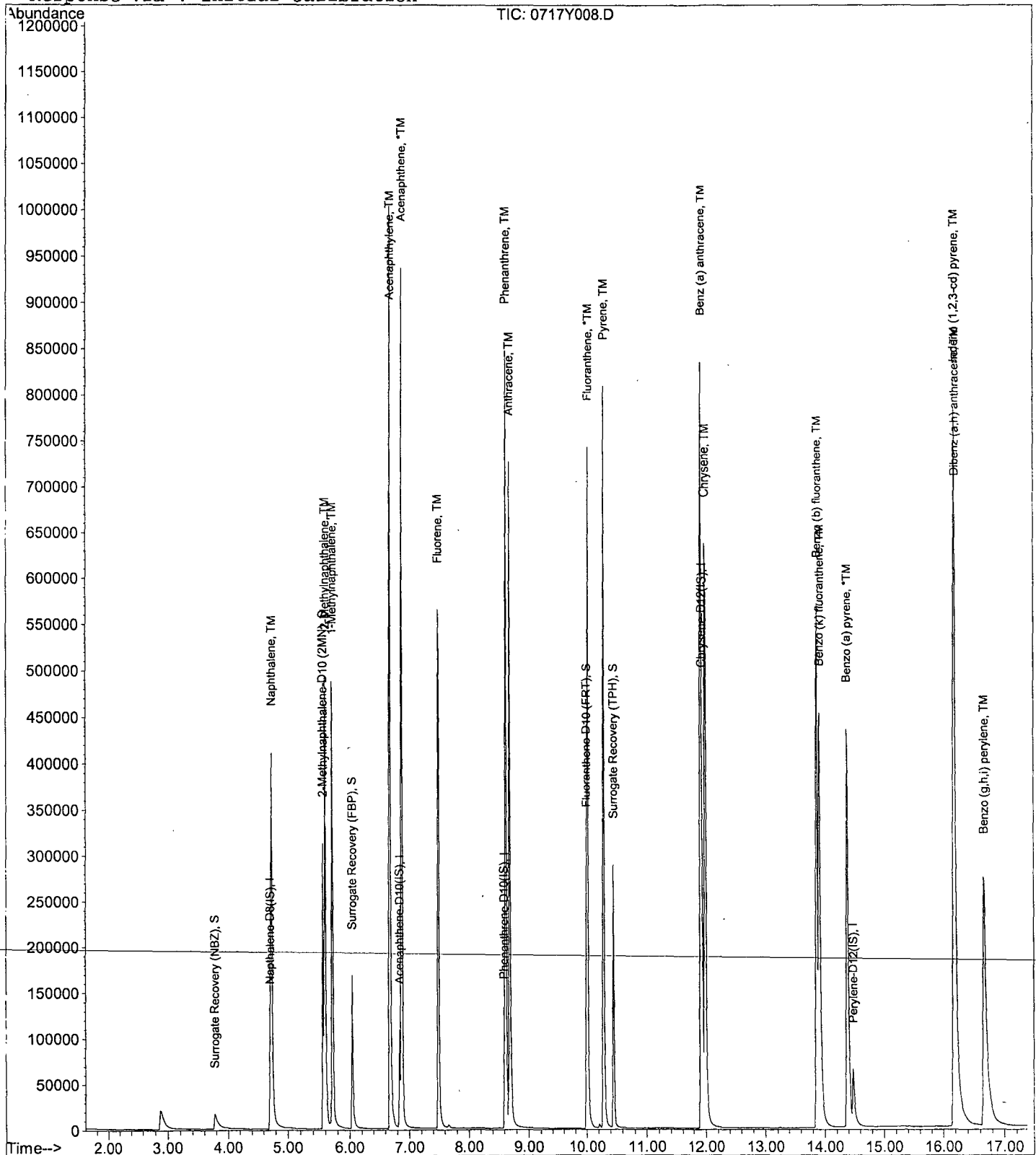
Data File : M:\YODA\DATA\Y190717P\0717Y008.D
Acq On : 17 Jul 19 11:48
Sample : 10 SIM 07/10/19
Misc :

Vial: 8
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 17 12:17 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Jul 17 13:35:41 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y009.D Vial: 9
 Acq On : 17 Jul 19 12:11 Operator: MA,SS
 Sample : 50 SIM 07/10/19 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Jul 17 12:17 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 12:16:55 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.71	136	109001	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	6.84	164	57556	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	8.60	188	111042	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.93	240	119923	2.50000	ppb	-0.01
23) Perylene-D12 (IS)	14.48	264	114306	2.50000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	3.74	82	338807	30.63060	ppb	-0.06
Spiked Amount	5.000		Recovery	= 612.620%		
4) 2-Methylnaphthalene-D10 (2)	5.55	152	1258518	24.53932	ppb	-0.01
Spiked Amount	5.000		Recovery	= 490.780%		
8) Surrogate Recovery (FBP)	6.03	172	847677	23.51675	ppb	-0.01
Spiked Amount	5.000		Recovery	= 470.340%		
15) Fluoranthene-D10 (FRT)	9.99	212	1320833	22.42688	ppb	-0.01
Spiked Amount	5.000		Recovery	= 448.540%		
19) Surrogate Recovery (TPH)	10.45	244	1137090	23.01060	ppb	-0.01
Spiked Amount	5.000		Recovery	= 460.220%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.72	128	2169505	38.27856	ppb	99
5) 2-Methylnaphthalene	5.59	142	1497930	42.35345	ppb	99
6) 1-Methylnaphthalene	5.71	142	1491974	37.42326	ppb	99
9) Acenaphthylene	6.67	152	4474703	41.76386	ppb	99
10) Acenaphthene	6.88	154	1492800	38.60402	ppb	92
11) Fluorene	7.48	166	1779419	39.92321	ppb	98
13) Phenanthrene	8.62	178	2445747	36.46600	ppb	97
14) Anthracene	8.69	178	2513890	42.88802	ppb	98
16) Fluoranthene	10.01	202	3202788	36.70567	ppb	92
18) Pyrene	10.28	202	3270777	41.29212	ppb	# 89
20) Benz (a) anthracene	11.91	228	3047141	43.28209	ppb	97
21) Chrysene	11.98	228	2972451	40.07734	ppb	98
22) Indeno (1,2,3-cd) pyrene	16.17	276	3507566	42.68766	ppb	97
24) Benzo (b) fluoranthene	13.86	252	3042168	44.61200	ppb	95
25) Benzo (k) fluoranthene	13.90	252	3184479	41.91846	ppb	96
26) Benzo (a) pyrene	14.36	252	2991745	44.23949	ppb	# 94
27) Dibenz (a,h) anthracene	16.18	278	3071475	43.89671	ppb	96
28) Benzo (g,h,i) perylene	16.64	276	2901323	43.42396	ppb	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

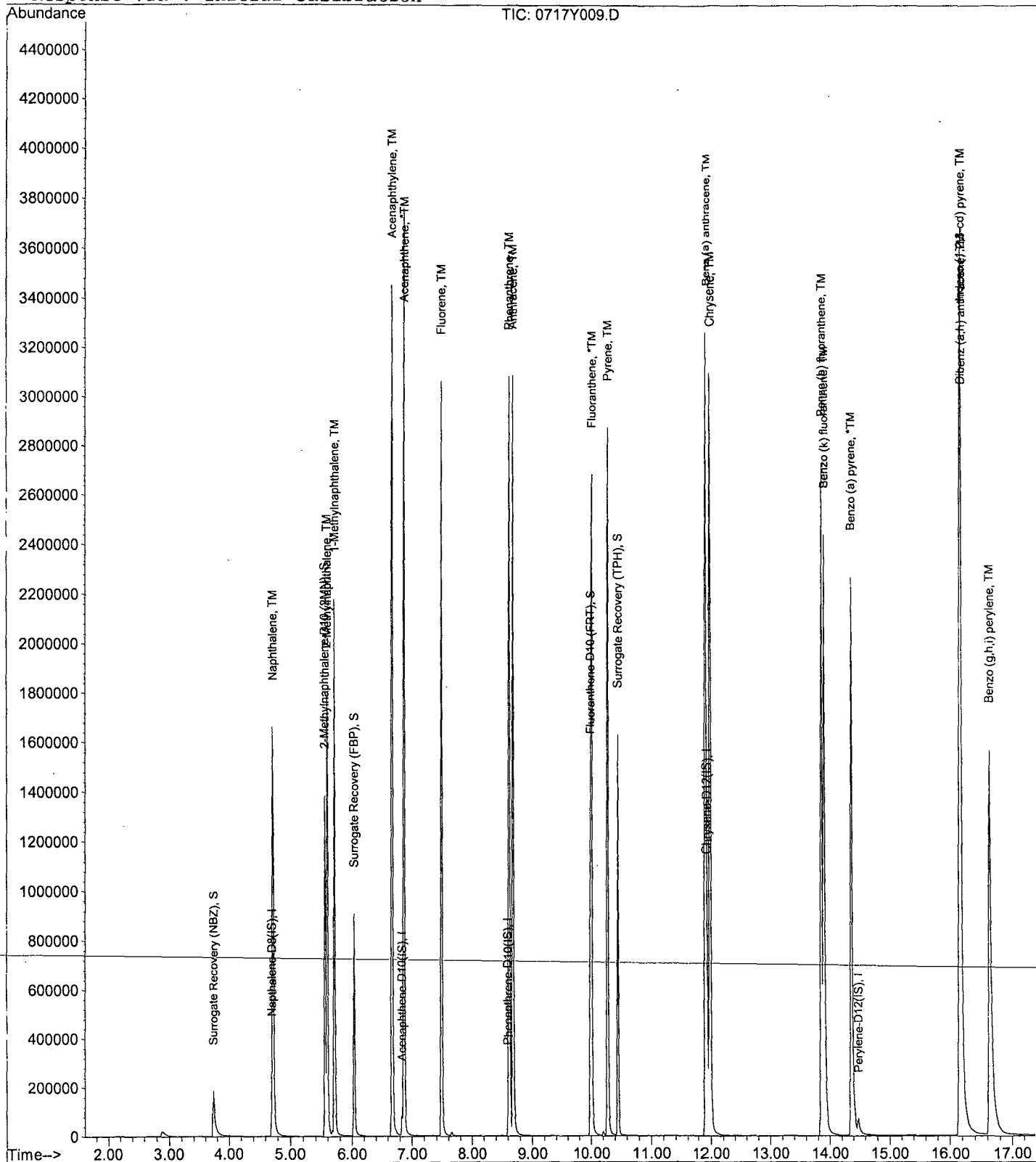
Data File : M:\YODA\DATA\Y190717P\0717Y009.D
Acq On : 17 Jul 19 12:11
Sample : 50 SIM 07/10/19
Misc :

Vial: 9
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 17 12:17 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Jul 17 13:35:41 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y010.D Vial: 10
 Acq On : 17 Jul 19 12:35 Operator: MA,SS
 Sample : 100 SIM 07/10/19 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Jul 17 12:41 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 12:40:49 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	4.70	136	114626	2.50000	ppb	0.00
7) Acenaphthene-D10(IS)	6.84	164	59383	2.50000	ppb	0.00
12) Phenanthrene-D10(IS)	8.60	188	118298	2.50000	ppb	0.00
17) Chrysene-D12(IS)	11.93	240	125343	2.50000	ppb	0.00
23) Perylene-D12(IS)	14.48	264	122799	2.50000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	3.73	82	732231	69.37506	ppb	-0.07
Spiked Amount	5.000		Recovery	= 1387.500%		
4) 2-Methylnaphthalene-D10 (2)	5.55	152	2591528	48.89332	ppb	0.00
Spiked Amount	5.000		Recovery	= 977.860%		
8) Surrogate Recovery (FBP)	6.03	172	1729303	48.88181	ppb	0.00
Spiked Amount	5.000		Recovery	= 977.640%		
15) Fluoranthene-D10 (FRT)	9.99	212	2714747	51.27848	ppb	0.00
Spiked Amount	5.000		Recovery	= 1025.560%		
19) Surrogate Recovery (TPH)	10.45	244	2383177	49.93776	ppb	0.00
Spiked Amount	5.000		Recovery	= 998.760%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Napthalene	4.72	128	4131317	67.40920	ppb	98
5) 2-Methylnaphthalene	5.59	142	2926900	77.51933	ppb	99
6) 1-Methylnaphthalene	5.71	142	2890239	67.01478	ppb	100
9) Acenaphthylene	6.67	152	8706116	80.78205	ppb	98
10) Acenaphthene	6.88	154	2806475	69.63830	ppb	97
11) Fluorene	7.48	166	3367396	73.77615	ppb	99
13) Phenanthrene	8.63	178	4676426	66.29145	ppb	96
14) Anthracene	8.69	178	4759973	77.80720	ppb	95
16) Fluoranthene	10.01	202	6112167	69.48362	ppb	98
18) Pyrene	10.28	202	6337915	72.36922	ppb	95
20) Benz (a) anthracene	11.92	228	6149247	83.04631	ppb	96
21) Chrysene	11.99	228	5731027	70.45313	ppb	97
22) Indeno (1,2,3-cd) pyrene	16.17	276	7362396	83.42239	ppb	92
24) Benzo (b) fluoranthene	13.86	252	5980790	82.07402	ppb	96
25) Benzo (k) fluoranthene	13.90	252	6406000	77.44013	ppb	# 93
26) Benzo (a) pyrene	14.37	252	6040854	82.50231	ppb	96
27) Dibenz (a,h) anthracene	16.18	278	6377024	84.85276	ppb	96
28) Benzo (g,h,i) perylene	16.64	276	5973947	83.21411	ppb	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

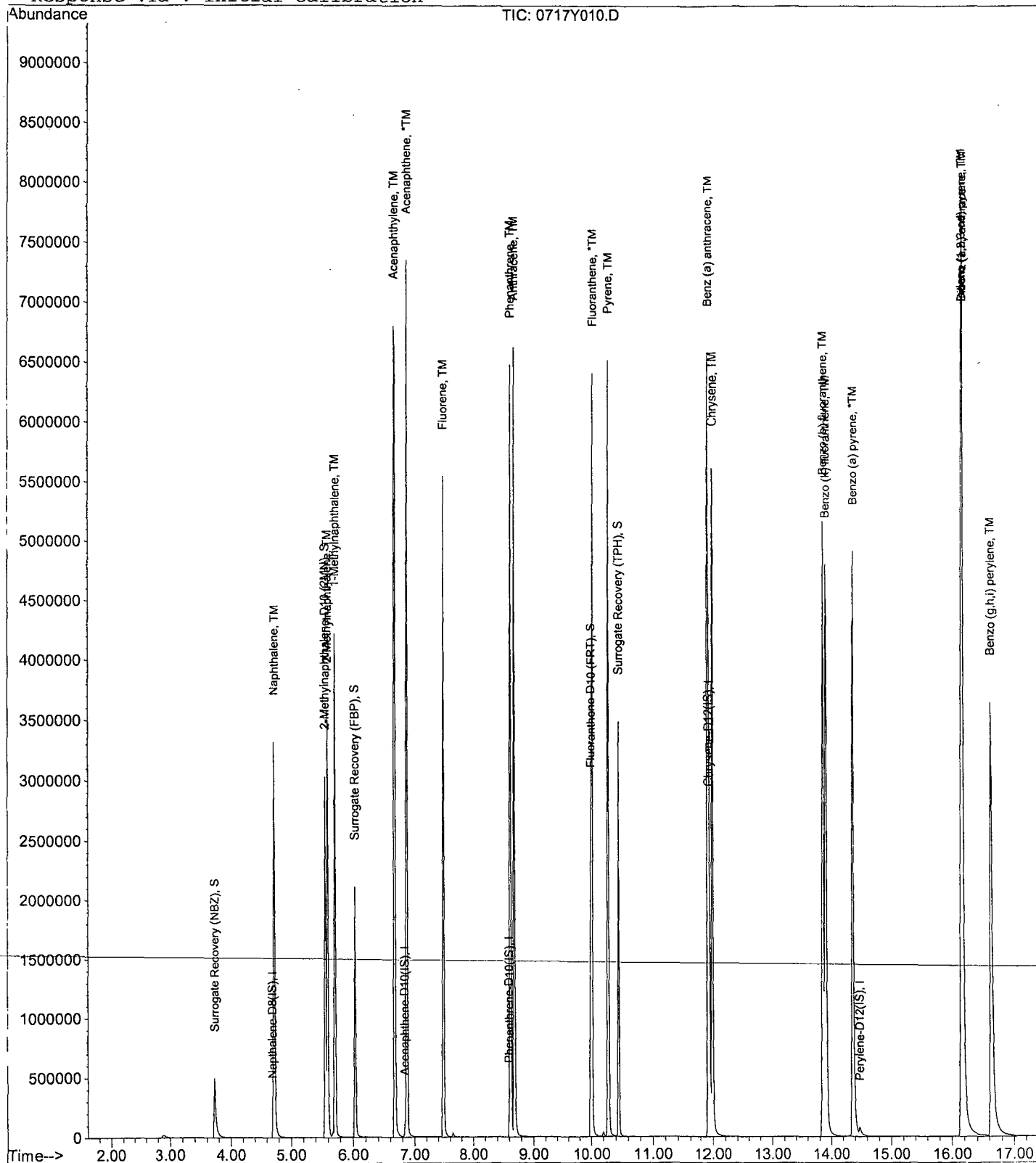
Data File : M:\YODA\DATA\Y190717P\0717Y010.D
Acq On : 17 Jul 19 12:35
Sample : 100 SIM 07/10/19
Misc :

Vial: 10
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 17 12:41 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Jul 17 13:35:41 2019
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/17/19
Instrument: Yoda
Initial Cal. Date: 07/17/19
Data File: 0717Y012.D

		Compound	MEAN	CCRF	%D	%Drift	
1	TM	Naphthalene	1.337	1.122	16	TM	
2	TM	2-Methylnaphthalene	0.8003	0.7338	8.3	TM	
3	TM	1-Methylnaphthalene	0.9833	0.8071	18	TM	
4	TM	Acenaphthylene	4.428	3.998	9.7	TM	
5	*TM	Acenaphthene	1.696	1.380	19	*TM	
6	TM	Fluorene	1.858	1.636	12	TM	
7	TM	Phenanthrene	1.486	1.297	13	TM	
8	TM	Anthracene	1.254	1.123	10	TM	
9	*TM	Fluoranthene	1.857	1.606	14	*TM	
10	TM	Pyrene	1.747	1.523	13	TM	
11	TM	Benz (a) anthracene	1.511	1.272	16	TM	
12	TM	Chrysene	1.682	1.390	17	TM	
13	TM	Indeno (1,2,3-cd) pyrene	1.724	1.471	15	TM	
14	TML	Benzo (b) fluoranthene	1.509	1.362	9.7	TML	18
15	TM	Benzo (k) fluoranthene	1.624	1.571	3.3	TM	
16	*TM	Benzo (a) pyrene	1.452	1.284	12	*TM	
17	TM	Dibenz (a,h) anthracene	1.501	1.365	9.0	TM	
18	TM	Benzo (g,h,i) perylene	1.383	1.304	5.7	TM	
19							
20							
21							
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35							
36							
37							
38							
39							
40							

Average

12.3

Data File : M:\YODA\DATA\Y190717P\0717Y012.D Vial: 12
 Acq On : 17 Jul 19 13:32 Operator: MA,SS
 Sample : SS SIM 07/10/19 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Jul 17 13:54 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 13:35:41 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	4.72	136	113489	2.50000	ppb	0.01
7) Acenaphthene-D10(IS)	6.85	164	57573	2.50000	ppb	0.01
12) Phenanthrene-D10(IS)	8.61	188	106559	2.50000	ppb	0.01
17) Chrysene-D12(IS)	11.95	240	116279	2.50000	ppb	0.00
23) Perylene-D12(IS)	14.48	264	107289	2.50000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	0.00	82	0d	0.63118	ppb	
Spiked Amount	5.000		Recovery	=	12.620%	
4) 2-Methylnapthalene-D10 (2)	0.00	152	0d	0.00000	ppb	
Spiked Amount	5.000		Recovery	=	0.000%	
8) Surrogate Recovery (FBP)	0.00	172	0d	0.00000	ppb	
Spiked Amount	5.000		Recovery	=	0.000%	
15) Fluoranthene-D10 (FRT)	0.00	212	0d	0.00000	ppb	
Spiked Amount	5.000		Recovery	=	0.000%	
19) Surrogate Recovery (TPH)	0.00	244	0d	0.00000	ppb	
Spiked Amount	5.000		Recovery	=	0.000%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.74	128	254734	4.19804	ppb	99
5) 2-Methylnapthalene	5.60	142	166552	4.58416	ppb	97
6) 1-Methylnapthalene	5.72	142	183184	4.10365	ppb	98
9) Acenaphthylene	6.68	152	460304	4.51437	ppb	99
10) Acenaphthene	6.87	154	158939	4.06847	ppb	97
11) Fluorene	7.49	166	188407	4.40247	ppb	98
13) Phenanthrene	8.63	178	276456	4.36335	ppb	98
14) Anthracene	8.70	178	239371	4.47930	ppb	99
16) Fluoranthene	10.02	202	342243	4.32429	ppb	92
18) Pyrene	10.29	202	354213	4.35984	ppb	# 88
20) Benz (a) anthracene	11.92	228	295879	4.20931	ppb	99
21) Chrysene	11.99	228	323306	4.13361	ppb	99
22) Indeno (1,2,3-cd) pyrene	16.20	276	342109	4.26698	ppb	95
24) Benzo (b) fluoranthene	13.88	252	292264	4.11192	ppb	100
25) Benzo (k) fluoranthene	13.92	252	337070	4.83639	ppb	100
26) Benzo (a) pyrene	14.39	252	275586	4.42266	ppb	99
27) Dibenz (a,h) anthracene	16.21	278	292997	4.54834	ppb	98
28) Benzo (g,h,i) perylene	16.69	276	279830	4.71433	ppb	98

Quantitation Report

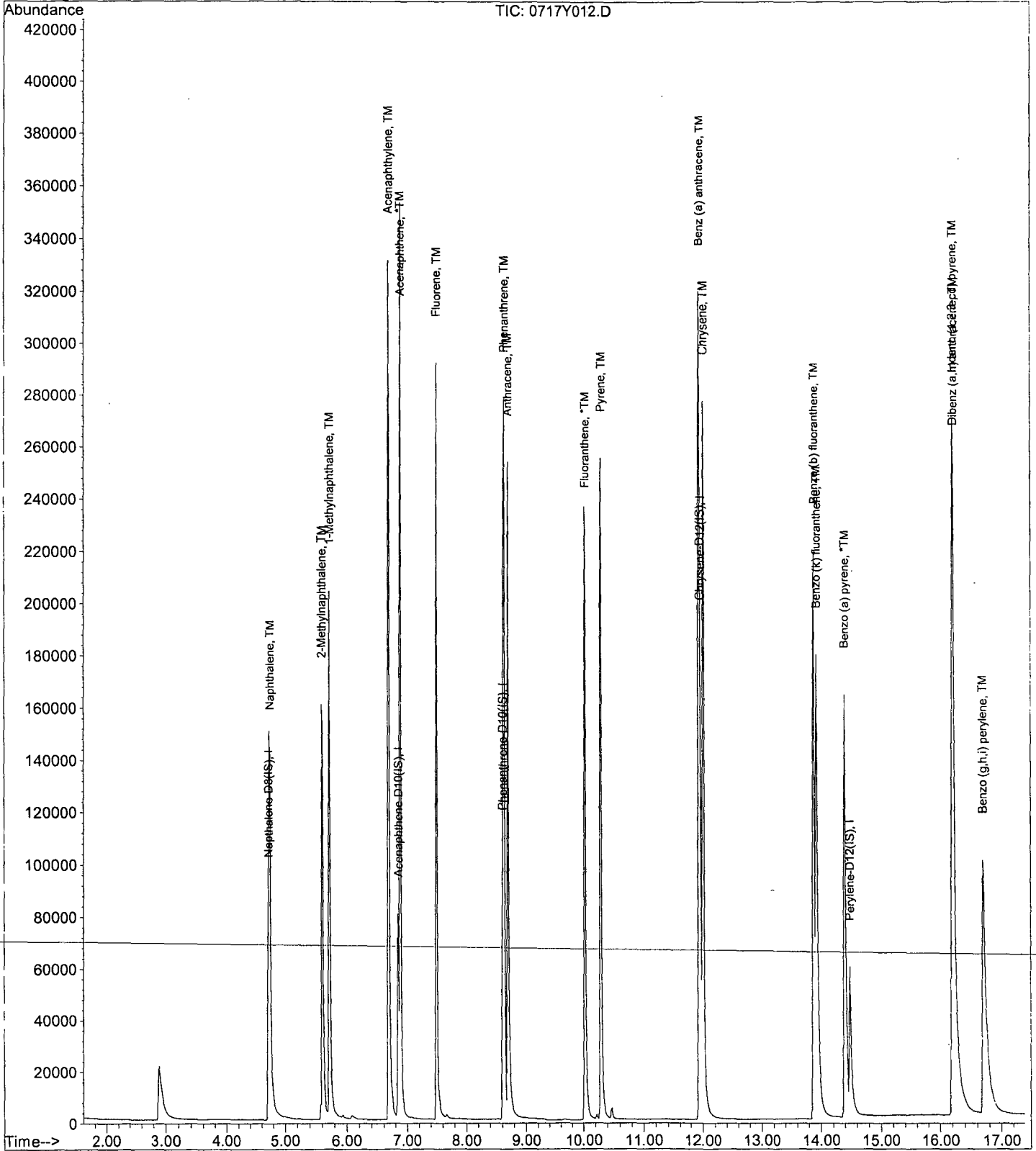
Data File : M:\YODA\DATA\Y190717P\0717Y012.D
Acq On : 17 Jul 19 13:32
Sample : SS SIM 07/10/19
Misc :

Vial: 12
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 17 13:54 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Jul 17 13:35:41 2019
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/31/19
Instrument: Yoda
Initial Cal. Date: 07/17/19
Data File: 0717Y305.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Napthalene-D8(IS)	ISTD			I	
2	SL	Surrogate Recovery (NBZ)	0.2451	0.2748	12	SL	11
3	TM	Napthalene	1.337	1.326	0.81	TM	
4	S	2-Methylnaphthalene-D10 (2MN)	1.153	1.226	6.4	S	
5	TM	2-Methylnaphthalene	0.8003	0.8817	10	TM	
6	TM	1-Methylnaphthalene	0.9833	0.8949	9.0	TM	
7	I	Acenaphthene-D10(IS)	ISTD			I	
8	S	Surrogate Recovery (FBP)	1.443	1.474	2.2	S	
9	TM	Acenaphthylene	4.428	6.002	36	TM	*
10	*TM	Acenaphthene	1.696	1.573	7.2	*TM	
11	TM	Fluorene	1.858	1.930	3.9	TM	
12	I	Phenanthrene-D10(IS)	ISTD			I	
13	TM	Phenanthrene	1.486	1.409	5.2	TM	
14	TM	Anthracene	1.254	1.367	9.0	TM	
15	S	Fluoranthene-D10 (FRT)	1.122	1.303	16	S	
16	*TM	Fluoranthene	1.857	2.028	9.2	*TM	
17	I	Chrysene-D12(IS)	ISTD			I	
18	TM	Pyrene	1.747	1.494	14	TM	
19	S	Surrogate Recovery (TPH)	0.9517	0.9595	0.83	S	
20	TM	Benz (a) anthracene	1.511	1.440	4.7	TM	
21	TM	Chrysene	1.682	1.376	18	TM	
22	TM	Indeno (1,2,3-cd) pyrene	1.724	1.778	3.2	TM	
23	I	Perylene-D12(IS)	ISTD			I	
24	TML	Benzo (b) fluoranthene	1.509	1.437	4.8	TML	13
25	TM	Benzo (k) fluoranthene	1.624	1.381	15	TM	
26	*TM	Benzo (a) pyrene	1.452	1.337	7.9	*TM	
27	TM	Dibenz (a,h) anthracene	1.501	1.393	7.2	TM	
28	TM	Benzo (g,h,i) perylene	1.383	1.300	6.0	TM	
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

Average

9.1

Data File : M:\YODA\DATA\Y190717P\0717Y305.D
 Acq On : 31 Jul 19 14:49
 Sample : 5.0 SIM 07/10/19 (2)
 Misc :

Vial: 5
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 31 14:52 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.53	136	58657	2.50000	ppb	-0.05
7) Acenaphthene-D10 (IS)	6.66	164	31984	2.50000	ppb	-0.06
12) Phenanthrene-D10 (IS)	8.42	188	63332	2.50000	ppb	-0.06
17) Chrysene-D12 (IS)	11.68	240	87323	2.50000	ppb	-0.11
23) Perylene-D12 (IS)	14.21	264	95940	2.50000	ppb	-0.11
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.61	82	16119	2.76352	ppb	-0.09
Spiked Amount	5.000		Recovery	=	55.280%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	71925	2.65913	ppb	-0.05
Spiked Amount	5.000		Recovery	=	53.180%	
8) Surrogate Recovery (FBP)	5.87	172	47159	2.55405	ppb	-0.08
Spiked Amount	5.000		Recovery	=	51.080%	
15) Fluoranthene-D10 (FRT)	9.81	212	82529	2.90357	ppb	-0.06
Spiked Amount	5.000		Recovery	=	58.080%	
19) Surrogate Recovery (TPH)	10.27	244	83790	2.52066	ppb	-0.05
Spiked Amount	5.000		Recovery	=	50.420%	
Target Compounds						
3) Naphthalene	4.56	128	155547	4.95970	ppb	Qvalue 100
5) 2-Methylnaphthalene	5.42	142	103439	5.50844	ppb	99
6) 1-Methylnaphthalene	5.54	142	104983	4.55025	ppb	93
9) Acenaphthylene	6.50	152	383935	6.77792	ppb	# 84
10) Acenaphthene	6.70	154	100650	4.63768	ppb	93
11) Fluorene	7.31	166	123469	5.19330	ppb	92
13) Phenanthrene	8.45	178	178532	4.74108	ppb	99
14) Anthracene	8.51	178	173163	5.45206	ppb	99
16) Fluoranthene	9.82	202	256831	5.46003	ppb	97
18) Pyrene	10.09	202	260978	4.27743	ppb	93
20) Benz (a) anthracene	11.67	228	251456	4.76356	ppb	98
21) Chrysene	11.72	228	240293	4.09100	ppb	# 90
22) Indeno (1,2,3-cd) pyrene	15.83	276	310561	5.15793	ppb	# 88
24) Benzo (b) fluoranthene	13.60	252	275657	4.33156	ppb	99
25) Benzo (k) fluoranthene	13.64	252	264942	4.25116	ppb	98
26) Benzo (a) pyrene	14.12	252	256482	4.60298	ppb	99
27) Dibenz (a,h) anthracene	15.83	278	267286	4.64003	ppb	95
28) Benzo (g,h,i) perylene	16.29	276	249531	4.70117	ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

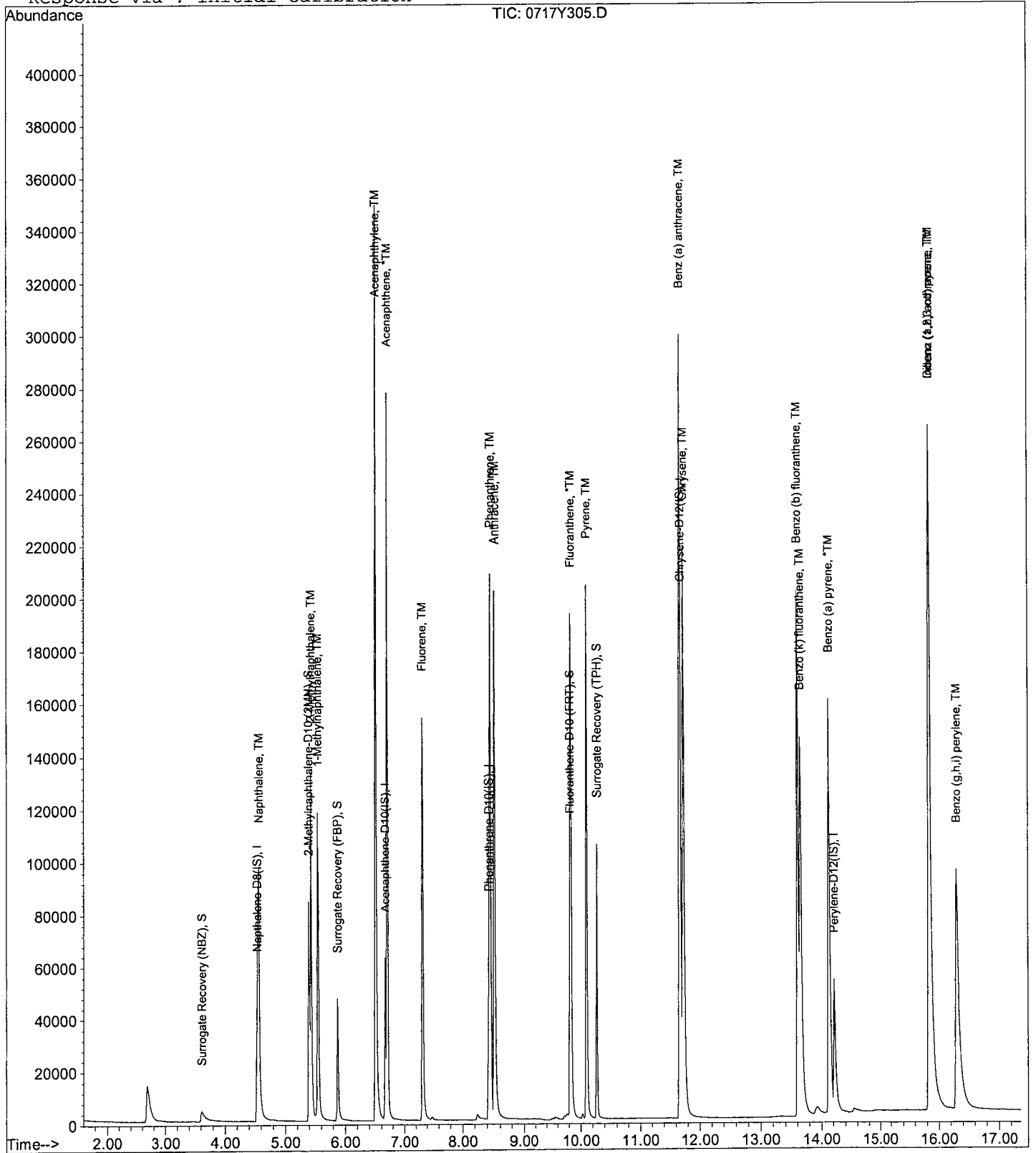
Data File : M:\YODA\DATA\Y190717P\0717Y305.D
Acq On : 31 Jul 19 14:49
Sample : 5.0 SIM 07/10/19 (2)
Misc :

Vial: 5
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 31 14:52 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 1 Aug 19 2:57
Instrument: Yoda
Initial Cal. Date: 07/17/19
Data File: 0717Y335.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Napthalene-D8(IS)	ISTD			I	
2	SL	Surrogate Recovery (NBZ)	0.2451	0.2835	16	SL	13
3	TM	Napthalene	1.337	1.222	8.6	TM	
4	S	2-Methylnapthalene-D10 (2MN)	1.153	1.505	31	S	
5	TM	2-Methylnapthalene	0.8003	0.8116	1.4	TM	
6	TM	1-Methylnapthalene	0.9833	0.8244	16	TM	
7	I	Acenaphthene-D10(IS)	ISTD			I	
8	S	Surrogate Recovery (FBP)	1.443	1.893	31	S	
9	TM	Acenaphthylene	4.428	5.619	27	TM	
10	*TM	Acenaphthene	1.696	1.497	12	*TM	
11	TM	Fluorene	1.858	1.860	0.09	TM	
12	I	Phenanthrene-D10(IS)	ISTD			I	
13	TM	Phenanthrene	1.486	1.292	13	TM	
14	TM	Anthracene	1.254	1.243	0.85	TM	
15	S	Fluoranthene-D10 (FRT)	1.122	1.599	43	S	
16	*TM	Fluoranthene	1.857	1.855	0.12	*TM	
17	I	Chrysene-D12(IS)	ISTD			I	
18	TM	Pyrene	1.747	1.356	22	TM	
19	S	Surrogate Recovery (TPH)	0.9517	1.266	33	S	
20	TM	Benz (a) anthracene	1.511	1.313	13	TM	
21	TM	Chrysene	1.682	1.296	23	TM	
22	TM	Indeno (1,2,3-cd) pyrene	1.724	1.589	7.8	TM	
23	I	Perylene-D12(IS)	ISTD			I	
24	TML	Benzo (b) fluoranthene	1.509	1.253	17	TML	24
25	TM	Benzo (k) fluoranthene	1.624	1.375	15	TM	
26	*TM	Benzo (a) pyrene	1.452	1.232	15	*TM	
27	TM	Dibenz (a,h) anthracene	1.501	1.282	15	TM	
28	TM	Benzo (g,h,i) perylene	1.383	1.205	13	TM	
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

Average

16.3

Data File : M:\YODA\DATA\Y190717P\0717Y335.D Vial: 35
 Acq On : 1 Aug 19 2:57 Operator: MA,SS
 Sample : 5.0 SIM 07/10/19 (1) Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Aug 1 8:33 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	4.53	136	82076	2.50000	ppb	-0.05
7) Acenaphthene-D10(IS)	6.66	164	43132	2.50000	ppb	-0.06
12) Phenanthrene-D10(IS)	8.41	188	90418	2.50000	ppb	-0.08
17) Chrysene-D12(IS)	11.68	240	123322	2.50000	ppb	-0.11
23) Perylene-D12(IS)	14.21	264	131754	2.50000	ppb	-0.11
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.60	82	23270	2.83116	ppb	-0.10
Spiked Amount	5.000		Recovery	=	56.620%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	123555	3.26456	ppb	-0.05
Spiked Amount	5.000		Recovery	=	65.300%	
8) Surrogate Recovery (FBP)	5.87	172	81639	3.27865	ppb	-0.08
Spiked Amount	5.000		Recovery	=	65.580%	
15) Fluoranthene-D10 (FRT)	9.80	212	144572	3.56269	ppb	-0.07
Spiked Amount	5.000		Recovery	=	71.260%	
19) Surrogate Recovery (TPH)	10.27	244	156071	3.32454	ppb	-0.05
Spiked Amount	5.000		Recovery	=	66.500%	
Target Compounds						
3) Naphthalene	4.54	128	200520	4.56936	ppb	99
5) 2-Methylnaphthalene	5.42	142	133223	5.07022	ppb	99
6) 1-Methylnaphthalene	5.54	142	135331	4.19196	ppb	95
9) Acenaphthylene	6.50	152	484755	6.34591	ppb	# 84
10) Acenaphthene	6.70	154	129150	4.41280	ppb	96
11) Fluorene	7.31	166	160454	5.00460	ppb	96
13) Phenanthrene	8.44	178	233643	4.34592	ppb	100
14) Anthracene	8.51	178	224801	4.95761	ppb	99
16) Fluoranthene	9.82	202	335379	4.99404	ppb	91
18) Pyrene	10.09	202	334335	3.88015	ppb	# 87
20) Benz (a) anthracene	11.65	228	323867	4.34435	ppb	99
21) Chrysene	11.72	228	319570	3.85249	ppb	# 89
22) Indeno (1,2,3-cd) pyrene	15.82	276	391901	4.60886	ppb	# 87
24) Benzo (b) fluoranthene	13.60	252	330122	3.79016	ppb	99
25) Benzo (k) fluoranthene	13.64	252	362345	4.23365	ppb	97
26) Benzo (a) pyrene	14.11	252	324655	4.24267	ppb	99
27) Dibenz (a,h) anthracene	15.82	278	337735	4.26930	ppb	95
28) Benzo (g,h,i) perylene	16.28	276	317641	4.35767	ppb	98

(#) = qualifier out of range (m) = manual integration
 0717Y335.D Y0717P.M Thu Aug 01 08:34:37 2019

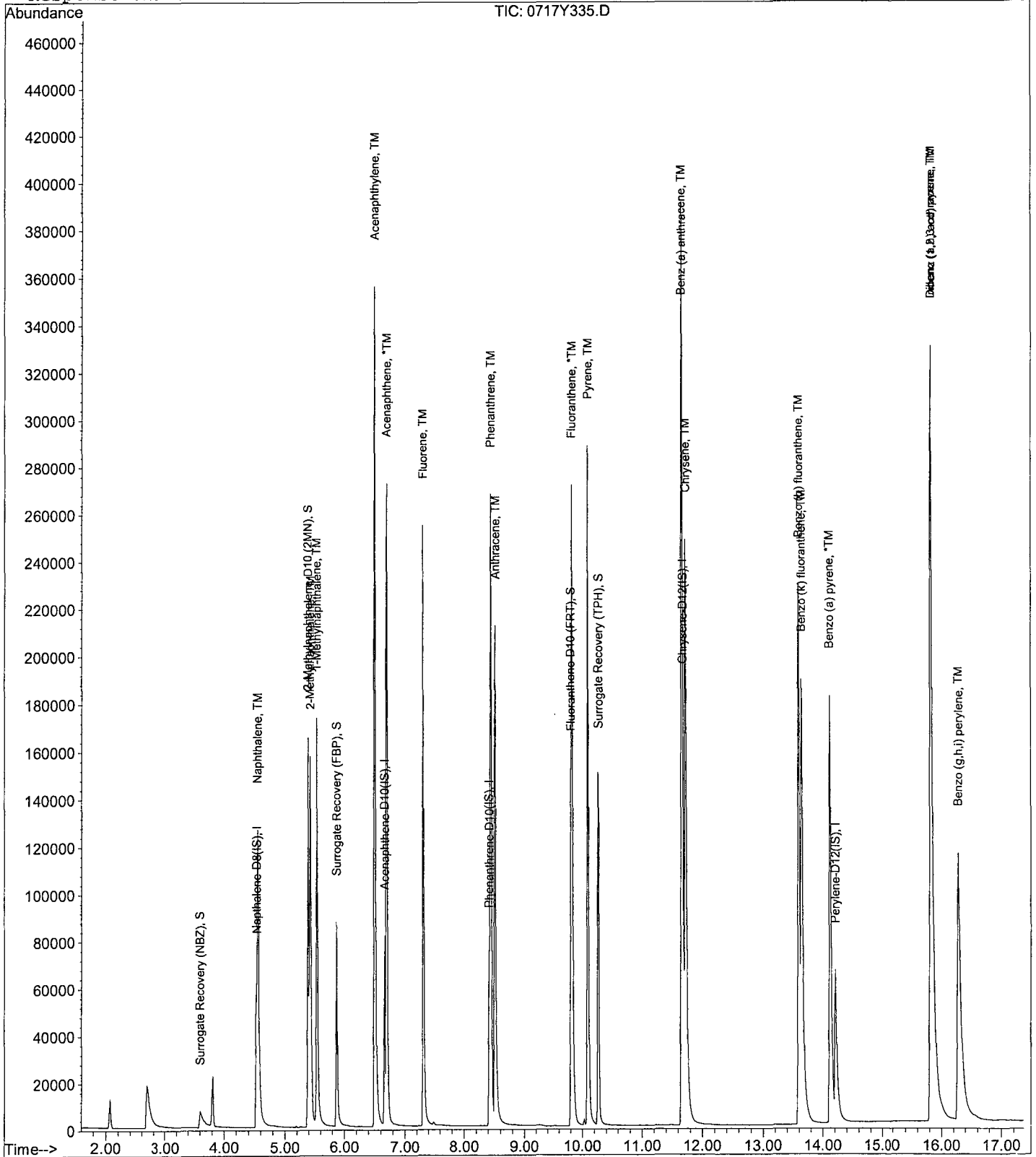
Data File : M:\YODA\DATA\Y190717P\0717Y335.D
Acq On : 1 Aug 19 2:57
Sample : 5.0 SIM 07/10/19 (1)
Misc :

Vial: 35
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Aug 1 8:33 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



ORGANICS
Raw Data

Data File : M:\YODA\DATA\Y190717P\0717Y312.D Vial: 12
 Acq On : 31 Jul 19 18:02 Operator: MA,SS
 Sample : AZ95419W08 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Aug 1 9:27 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	4.53	136	59193	2.50000	ppb	-0.05
7) Acenaphthene-D10(IS)	6.66	164	32767	2.50000	ppb	-0.06
12) Phenanthrene-D10(IS)	8.42	188	67437	2.50000	ppb	-0.06
17) Chrysene-D12(IS)	11.69	240	94603	2.50000	ppb	-0.10
23) Perylene-D12(IS)	14.21	264	101207	2.50000	ppb	-0.11
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	0.00	82	0	0.00000	ppb	
Spiked Amount	6.250					
			Recovery	=	0.000%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	137200	6.28310	ppb	-0.05
Spiked Amount	6.250					
			Recovery	=	100.528%	
8) Surrogate Recovery (FBP)	5.86	172	1587032	104.87115	ppb	-0.09
Spiked Amount	6.250					
			Recovery	=	1677.936%	
15) Fluoranthene-D10 (FRT)	9.81	212	168455	6.95735	ppb	-0.06
Spiked Amount	6.250					
			Recovery	=	111.312%	
19) Surrogate Recovery (TPH)	10.27	244	2695239	93.55187	ppb	-0.05
Spiked Amount	6.250					
			Recovery	=	1496.832%	

Target Compounds Qvalue

Quantitation Report

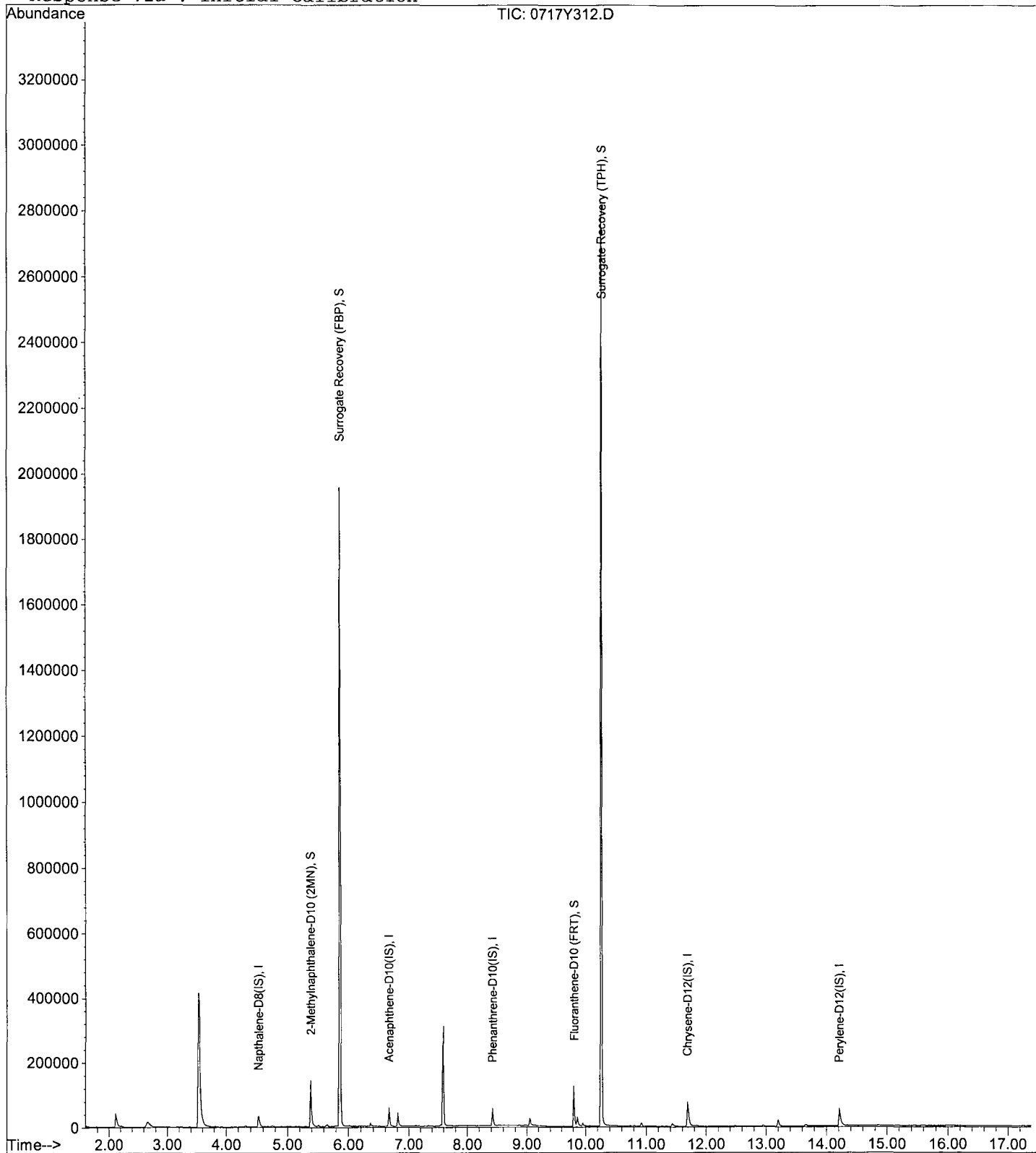
Data File : M:\YODA\DATA\Y190717P\0717Y312.D
Acq On : 31 Jul 19 18:02
Sample : AZ95419W08 1/800
Misc :

Vial: 12
Operator: MA, SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Aug 1 9:27 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y313.D Vial: 13
 Acq On : 31 Jul 19 18:25 Operator: MA, SS
 Sample : AZ95421W08 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Aug 1 9:28 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	4.52	136	61206	2.50000	ppb	-0.06
7) Acenaphthene-D10 (IS)	6.67	164	33531	2.50000	ppb	-0.06
12) Phenanthrene-D10 (IS)	8.43	188	67492	2.50000	ppb	-0.06
17) Chrysene-D12 (IS)	11.69	240	95239	2.50000	ppb	-0.10
23) Perylene-D12 (IS)	14.21	264	103086	2.50000	ppb	-0.11

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	0.00	82	0	0.00000	ppb	
Spiked Amount	6.250					
Recovery				=	0.000%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	128741	5.70181	ppb	-0.05
Spiked Amount	6.250					
Recovery				=	91.232%	
8) Surrogate Recovery (FBP)	5.86	172	1507687	97.35801	ppb	-0.09
Spiked Amount	6.250					
Recovery				=	1557.728%	
15) Fluoranthene-D10 (FRT)	9.81	212	157674	6.50678	ppb	-0.06
Spiked Amount	6.250					
Recovery				=	104.112%	
19) Surrogate Recovery (TPH)	10.26	244	2570476	88.62553	ppb	-0.06
Spiked Amount	6.250					
Recovery				=	1418.016%	

Target Compounds Qvalue

Quantitation Report

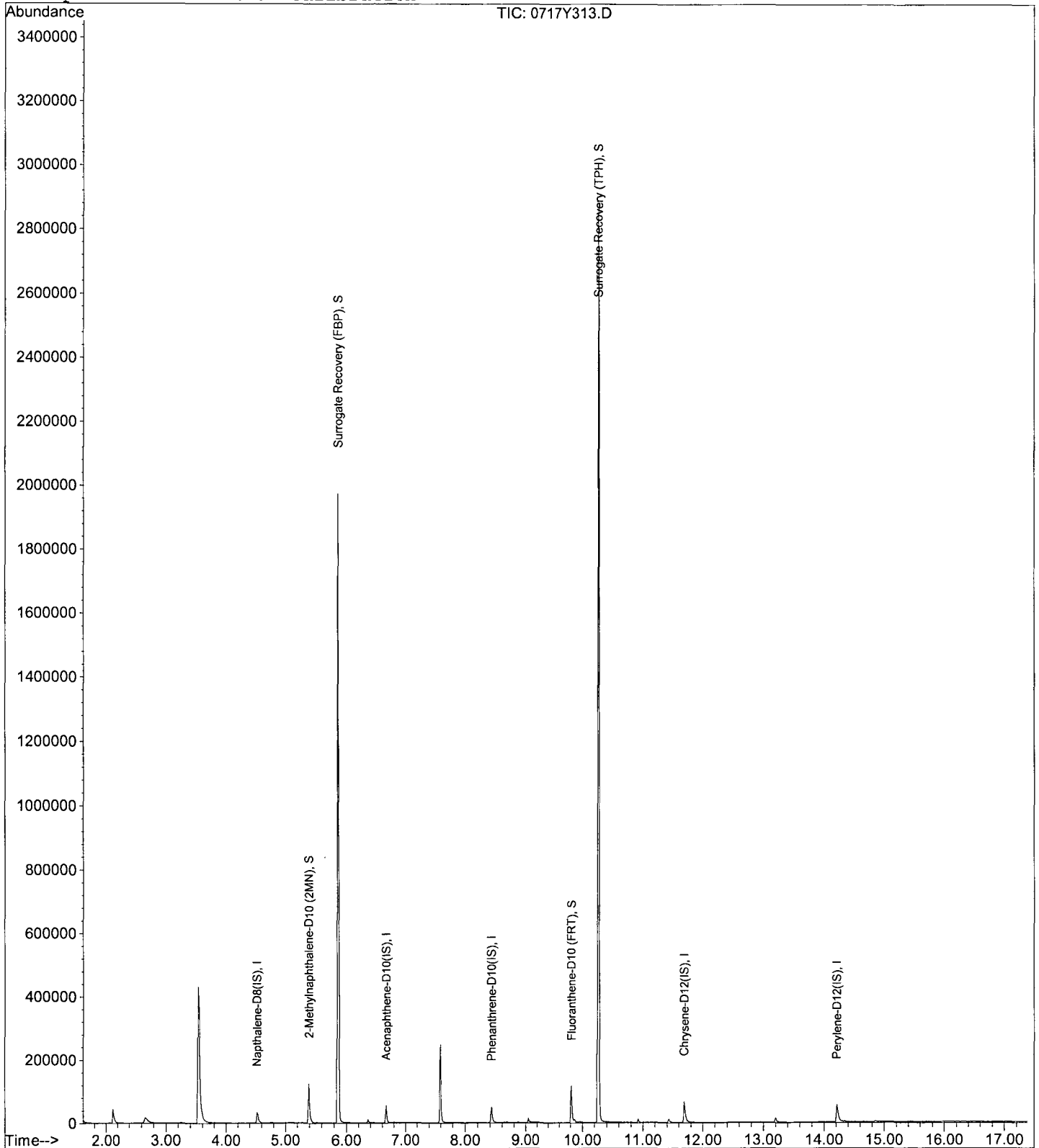
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Acq On : 31 Jul 19 18:25
Sample : AZ95421W08 1/800
Misc :

Vial: 13
Operator: MA, SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Aug 1 9:28 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y314.D Vial: 14
 Acq On : 31 Jul 19 18:49 Operator: MA,SS
 Sample : AZ95423W10 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Aug 1 9:28 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	4.53	136	61856	2.50000	ppb	-0.05
7) Acenaphthene-D10 (IS)	6.66	164	33426	2.50000	ppb	-0.06
12) Phenanthrene-D10 (IS)	8.42	188	68171	2.50000	ppb	-0.06
17) Chrysene-D12 (IS)	11.69	240	95478	2.50000	ppb	-0.10
23) Perylene-D12 (IS)	14.21	264	104297	2.50000	ppb	-0.11

System Monitoring Compounds

2) Surrogate Recovery (NBZ)	0.00	82	0	0.00000	ppb	
Spiked Amount	6.250		Recovery	=	0.000%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	130018	5.69786	ppb	-0.05
Spiked Amount	6.250		Recovery	=	91.168%	
8) Surrogate Recovery (FBP)	5.86	172	1545199	100.09377	ppb	-0.09
Spiked Amount	6.250		Recovery	=	1601.504%	
15) Fluoranthene-D10 (FRT)	9.81	212	160570	6.56029	ppb	-0.06
Spiked Amount	6.250		Recovery	=	104.960%	
19) Surrogate Recovery (TPH)	10.26	244	2489693	85.62540	ppb	-0.07
Spiked Amount	6.250		Recovery	=	1370.000%	

Target Compounds

Qvalue

Quantitation Report

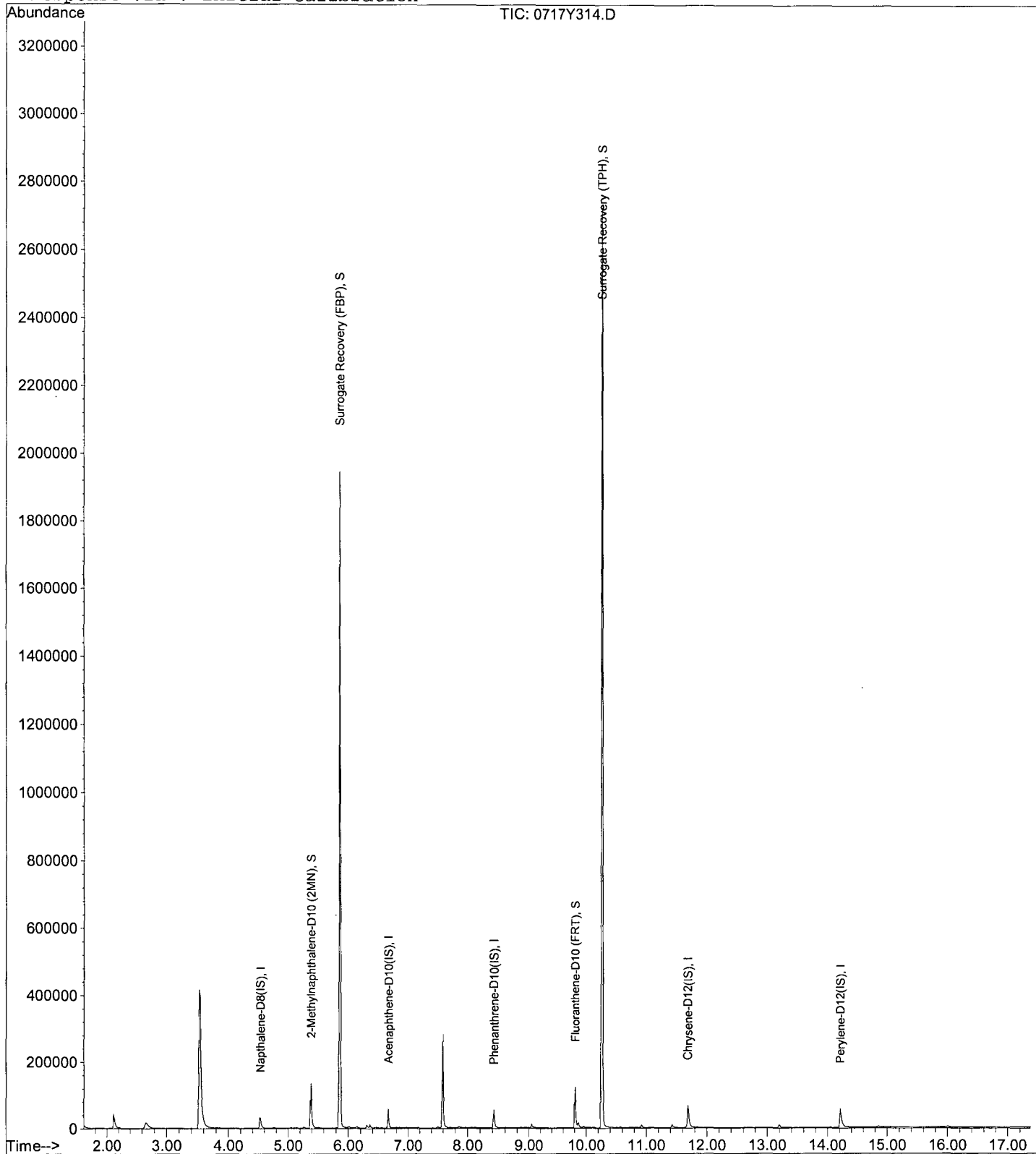
Data File : M:\YODA\DATA\Y190717P\0717Y314.D
Acq On : 31 Jul 19 18:49
Sample : AZ95423W10 1/800
Misc :

Vial: 14
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Aug 1 9:28 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y309.D
 Acq On : 31 Jul 19 16:52
 Sample : 190729A BLK 1/800
 Misc :

Vial: 9
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Aug 1 9:27 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	4.53	136	64703	2.50000	ppb	-0.05
7) Acenaphthene-D10 (IS)	6.68	164	36203	2.50000	ppb	-0.05
12) Phenanthrene-D10 (IS)	8.44	188	74104	2.50000	ppb	-0.05
17) Chrysene-D12 (IS)	11.70	240	101497	2.50000	ppb	-0.09
23) Perylene-D12 (IS)	14.22	264	111953	2.50000	ppb	-0.10
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	0.00	82	0	0.00000	ppb	
Spiked Amount	6.250					
			Recovery	=	0.000%	
4) 2-Methylnaphthalene-D10 (2)	5.40	152	137408	5.75675	ppb	-0.04
Spiked Amount	6.250					
			Recovery	=	92.112%	
8) Surrogate Recovery (FBP)	5.87	172	1599963	95.69129	ppb	-0.08
Spiked Amount	6.250					
			Recovery	=	1531.056%	
15) Fluoranthene-D10 (FRT)	9.81	212	165347	6.21460	ppb	-0.06
Spiked Amount	6.250					
			Recovery	=	99.440%	
19) Surrogate Recovery (TPH)	10.27	244	2573160	83.24798	ppb	-0.05
Spiked Amount	6.250					
			Recovery	=	1331.968%	

Target Compounds

Qvalue

Quantitation Report

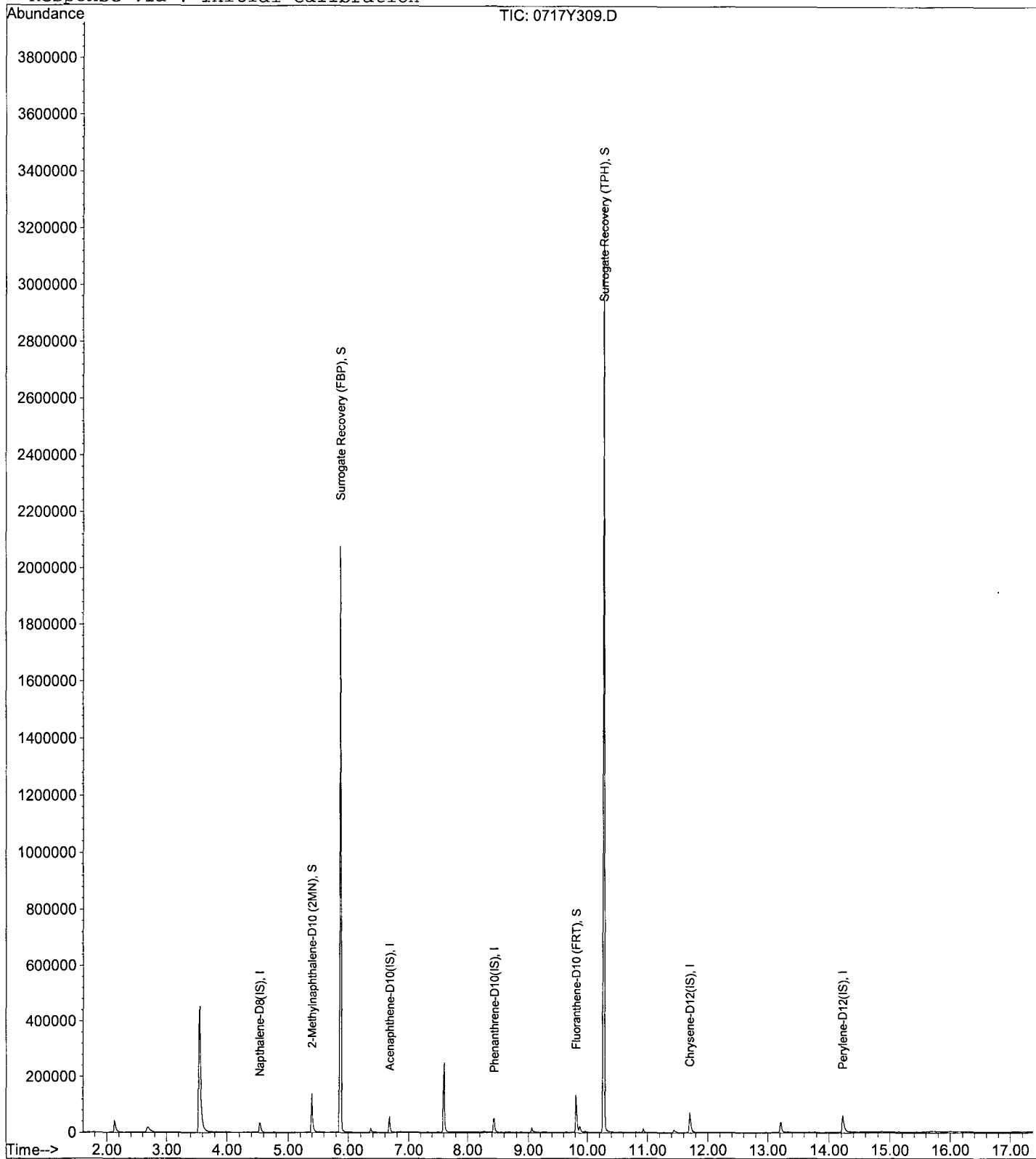
Data File : M:\YODA\DATA\Y190717P\0717Y309.D
Acq On : 31 Jul 19 16:52
Sample : 190729A BLK 1/800
Misc :

Vial: 9
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Aug 1 9:27 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y310.D
 Acq On : 31 Jul 19 17:15
 Sample : 190729A LCS-2 1/800
 Misc :

Vial: 10
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Jul 31 17:32 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.52	136	63429	2.50000	ppb	-0.06
7) Acenaphthene-D10 (IS)	6.66	164	34007	2.50000	ppb	-0.06
12) Phenanthrene-D10 (IS)	8.42	188	67782	2.50000	ppb	-0.06
17) Chrysene-D12 (IS)	11.68	240	95613	2.50000	ppb	-0.11
23) Perylene-D12 (IS)	14.21	264	103596	2.50000	ppb	-0.11
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.68	82	707	0.89708	ppb	-0.03
Spiked Amount	6.250		Recovery	=	14.352%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	134448	5.74588	ppb	-0.05
Spiked Amount	6.250		Recovery	=	91.936%	
8) Surrogate Recovery (FBP)	5.88	172	725	0.04616	ppb	-0.06
Spiked Amount	6.250		Recovery	=	0.736%	
15) Fluoranthene-D10 (FRT)	9.80	212	166448	6.83947	ppb	-0.08
Spiked Amount	6.250		Recovery	=	109.424%	
19) Surrogate Recovery (TPH)	10.28	244	2006	0.06889	ppb	-0.04
Spiked Amount	6.250		Recovery	=	1.104%	
Target Compounds						
3) Naphthalene	4.54	128	101366	3.73618	ppb	99
5) 2-Methylnaphthalene	5.42	142	68869	4.23945	ppb	99
6) 1-Methylnaphthalene	5.54	142	68619	3.43797	ppb	94
9) Acenaphthylene	6.50	152	260697	5.41065	ppb #	84
10) Acenaphthene	6.70	154	68610	3.71662	ppb	95
11) Fluorene	7.31	166	91330	4.51620	ppb	94
13) Phenanthrene	8.45	178	135960	4.21688	ppb	99
14) Anthracene	8.51	178	130096	4.78397	ppb	99
16) Fluoranthene	9.82	202	197052	4.89268	ppb	96
18) Pyrene	10.09	202	200073	3.74360	ppb	94
20) Benz (a) anthracene	11.67	228	186324	4.02958	ppb	98
21) Chrysene	11.72	228	178153	3.46260	ppb #	90
22) Indeno (1,2,3-cd) pyrene	15.84	276	221013	4.19053	ppb #	86
24) Benzo (b) fluoranthene	13.60	252	196510	3.61717	ppb	98
25) Benzo (k) fluoranthene	13.65	252	202936	3.76949	ppb	97
26) Benzo (a) pyrene	14.12	252	172779	3.58955	ppb	99
27) Dibenz (a,h) anthracene	15.84	278	176463	3.54622	ppb #	93
28) Benzo (g,h,i) perylene	16.31	276	154608	3.37194	ppb	97

Quantitation Report

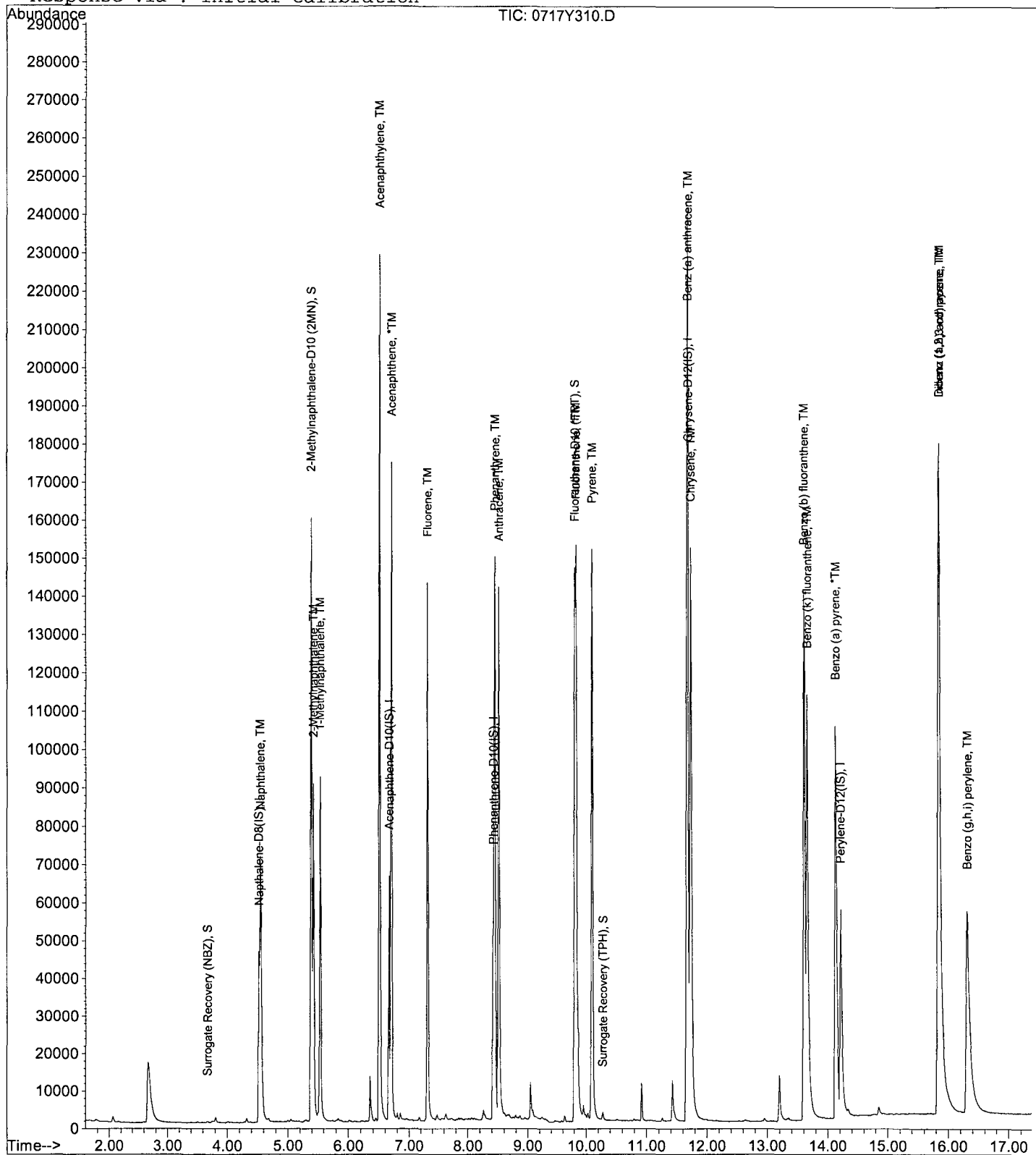
Data File : M:\YODA\DATA\Y190717P\0717Y310.D
Acq On : 31 Jul 19 17:15
Sample : 190729A LCS-2 1/800
Misc :

Vial: 10
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 31 17:32 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y311.D
 Acq On : 31 Jul 19 17:39
 Sample : 190729A LCSD-2 1/800
 Misc :

Vial: 11
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Aug 1 8:54 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

1) Naphthalene-D8 (IS)	4.52	136	62289	2.50000	ppb	-0.06
7) Acenaphthene-D10 (IS)	6.66	164	32921	2.50000	ppb	-0.06
12) Phenanthrene-D10 (IS)	8.41	188	69173	2.50000	ppb	-0.08
17) Chrysene-D12 (IS)	11.68	240	92693	2.50000	ppb	-0.11
23) Perylene-D12 (IS)	14.21	264	100080	2.50000	ppb	-0.11
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.66	82	688	0.89610	ppb	-0.04
Spiked Amount	6.250		Recovery	=	14.336%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	132356	5.76000	ppb	-0.05
Spiked Amount	6.250		Recovery	=	92.160%	
8) Surrogate Recovery (FBP)	5.88	172	361	0.02374	ppb	-0.06
Spiked Amount	6.250		Recovery	=	0.384%	
15) Fluoranthene-D10 (FRT)	9.80	212	168204	6.77264	ppb	-0.07
Spiked Amount	6.250		Recovery	=	108.368%	
19) Surrogate Recovery (TPH)	10.28	244	966	0.03422	ppb	-0.04
Spiked Amount	6.250		Recovery	=	0.544%	
Target Compounds						Qvalue
3) Naphthalene	4.54	128	97238	3.64963	ppb	99
5) 2-Methylnaphthalene	5.43	142	66332	4.15801	ppb	99
6) 1-Methylnaphthalene	5.54	142	65992	3.36687	ppb	95
9) Acenaphthylene	6.50	152	252368	5.41057	ppb	# 84
10) Acenaphthene	6.70	154	67093	3.75434	ppb	95
11) Fluorene	7.31	166	90140	4.60440	ppb	97
13) Phenanthrene	8.44	178	134947	4.10129	ppb	99
14) Anthracene	8.51	178	129873	4.67973	ppb	99
16) Fluoranthene	9.82	202	198151	4.82104	ppb	94
18) Pyrene	10.09	202	200296	3.86583	ppb	91
20) Benz (a) anthracene	11.67	228	191461	4.27112	ppb	98
21) Chrysene	11.72	228	182870	3.66625	ppb	# 90
22) Indeno (1,2,3-cd) pyrene	15.83	276	229833	4.49503	ppb	92
24) Benzo (b) fluoranthene	13.60	252	205584	3.90675	ppb	99
25) Benzo (k) fluoranthene	13.65	252	204876	3.93922	ppb	# 96
26) Benzo (a) pyrene	14.12	252	177797	3.82357	ppb	98
27) Dibenz (a,h) anthracene	15.83	278	189321	3.93828	ppb	96
28) Benzo (g,h,i) perylene	16.30	276	170630	3.85212	ppb	97

(#) = qualifier out of range (m) = manual integration
 0717Y311.D Y0717P.M Fri Aug 23 12:19:24 2019

Quantitation Report

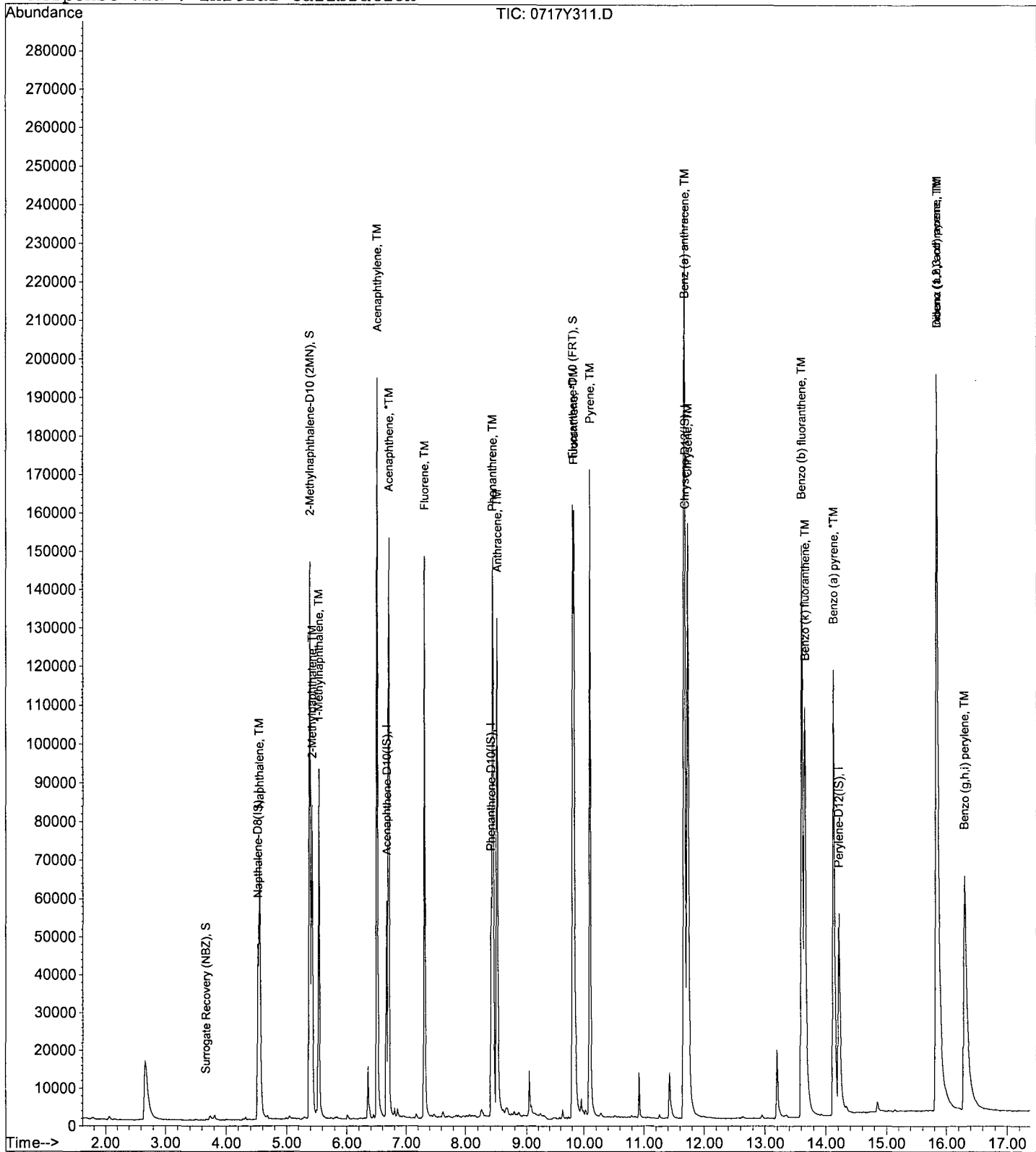
Data File : M:\YODA\DATA\Y190717P\0717Y311.D
Acq On : 31 Jul 19 17:39
Sample : 190729A LCSD-2 1/800
Misc :

Vial: 11
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Aug 1 8:54 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



Data File Name: 0717Y002.D
Data File Path: M:\YODA\DATA\Y190717P\
Operator: MA,SS
Date Acquired: 17 Jul 2019 09:34
Method File: DFTPP2.M
Sample Name: SV TUNE 07/11/19
Vial Number: 2
Instrument Name: Yoda

#	Name	Ret Time	Target Response
1)	DDT	6.94	53172800
2)	DDD	6.71	294434
3)	DDE	6.80	131871

Breakdown 0.80

Data File Name: 0717Y304.D
Data File Path: M:\YODA\DATA\Y190717P\
Operator: MA,SS
Date Acquired: 31 Jul 2019 14:35
Method File: DFTPP2.M
Sample Name: SV TUNE 07/11/19
Vial Number: 4
Instrument Name: Yoda

#	Name	Ret Time	Target Response
1)	DDT	6.84	23629900
2)	DDD	6.63	925531
3)	DDE	6.69	0

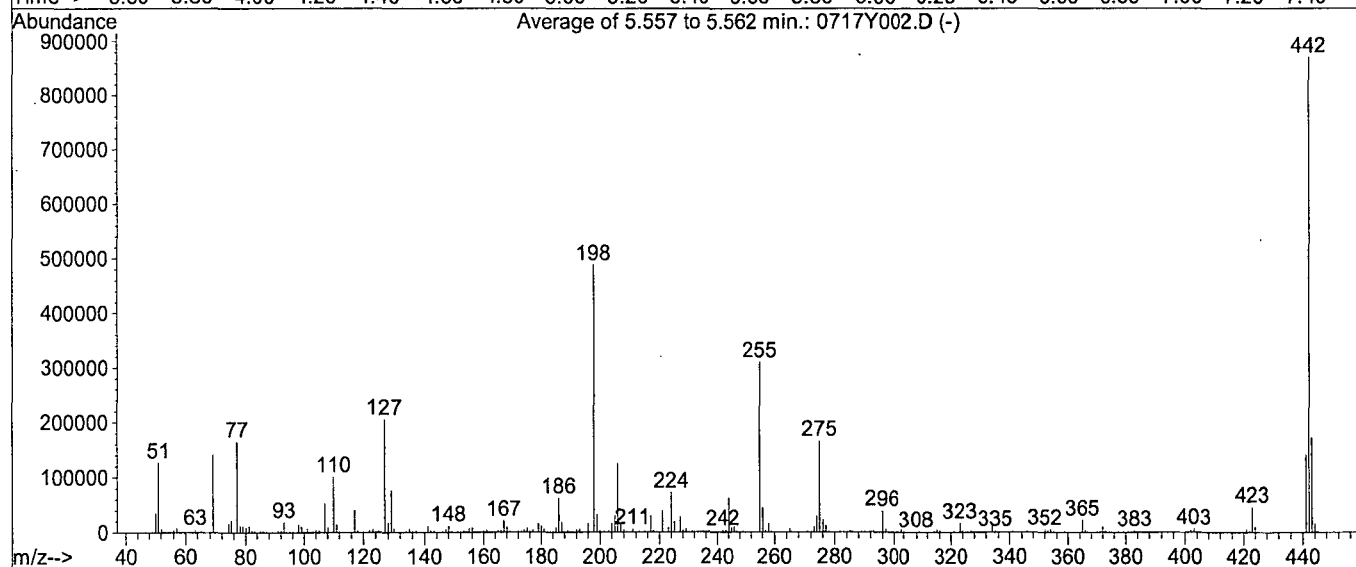
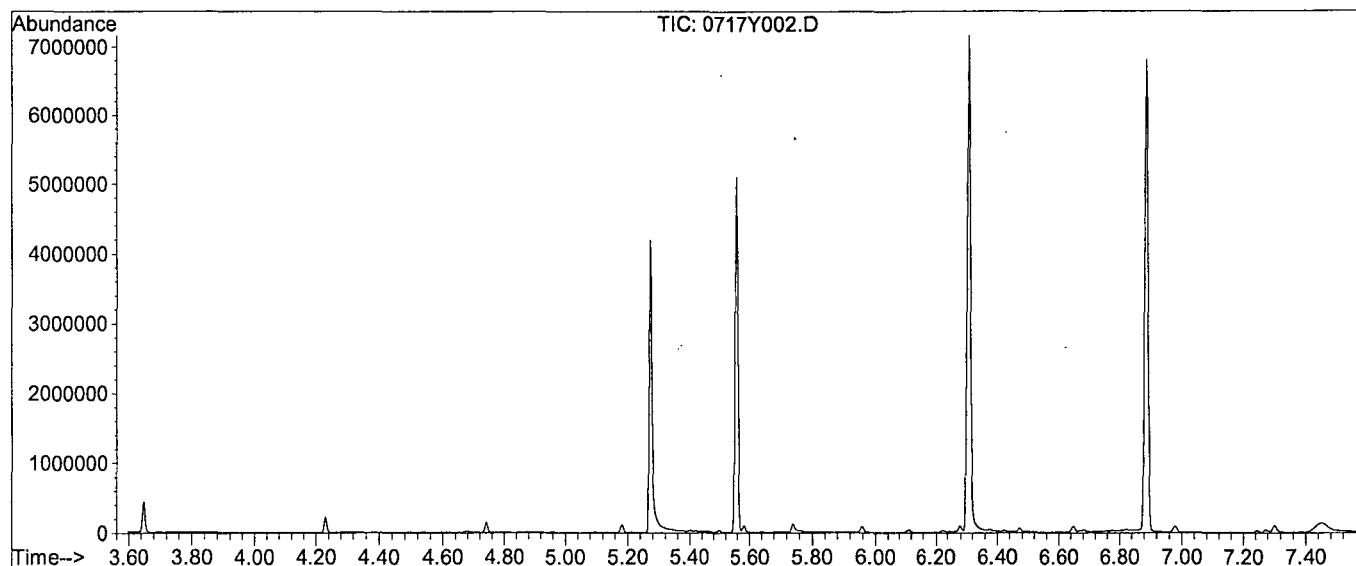
Breakdown 3.77

DFTPP

Data File : M:\YODA\DATA\Y190717P\0717Y002.D
 Acq On : 17 Jul 19 9:34
 Sample : SV TUNE 07/11/19
 Misc :

Vial: 2
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Method : M:\YODA\DATA\Y190717P\DFTPP2.M (Chemstation Integrator)
 Title :



Spectrum Information: Average of 5.557 to 5.562 min.

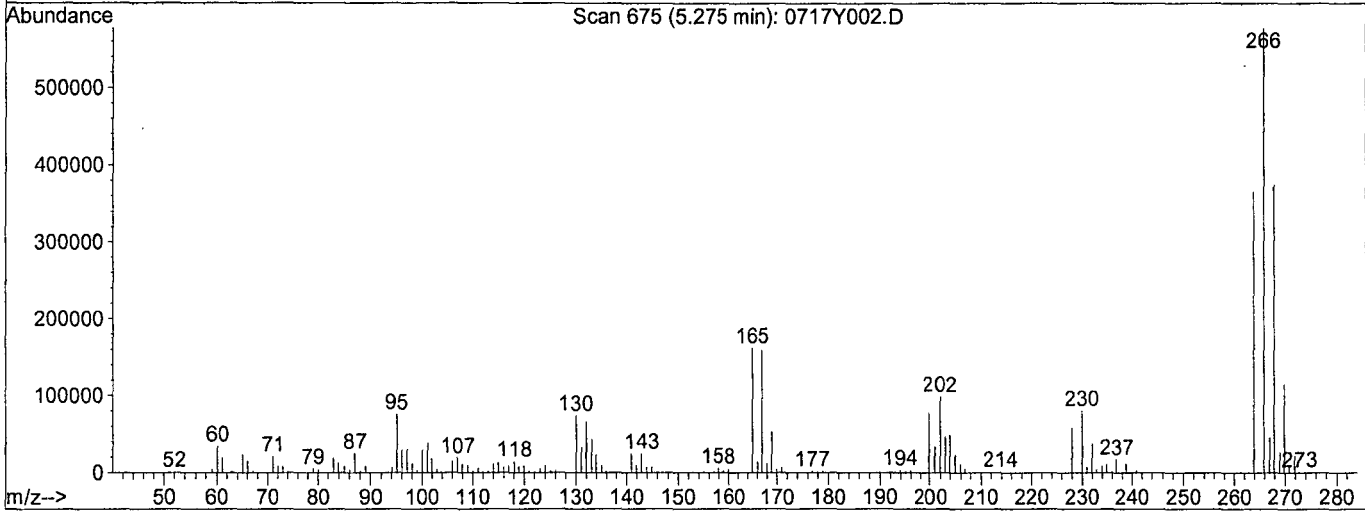
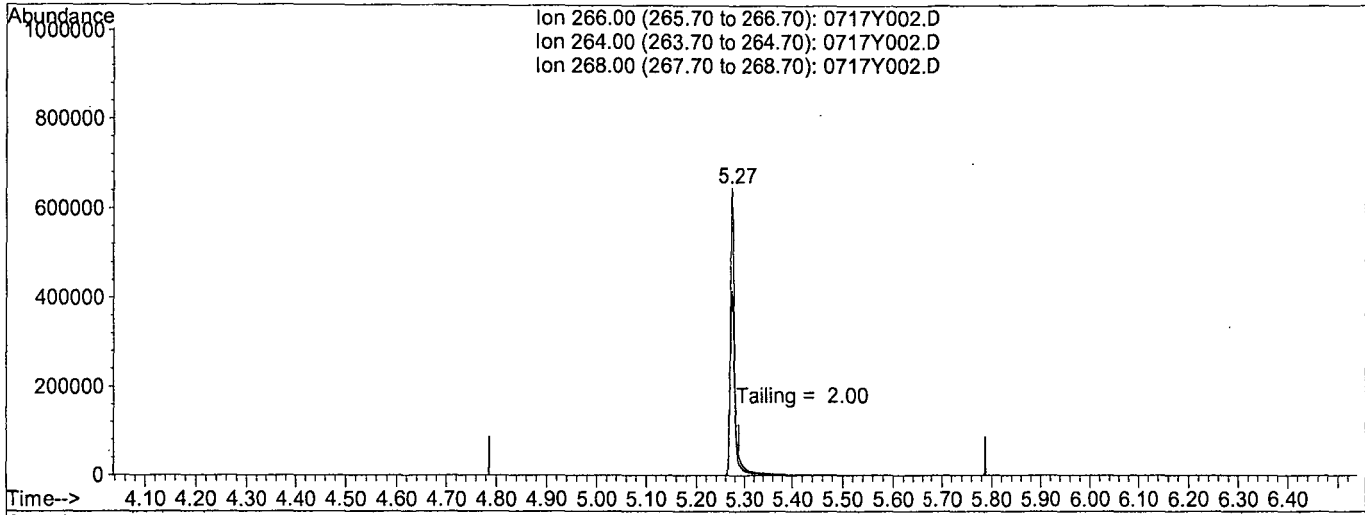
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	25.9	126393	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.5	670	PASS
127	198	10	80	42.1	205333	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	487445	PASS
199	198	5	9	6.7	32565	PASS
275	198	10	60	34.0	165504	PASS
365	198	1	100	4.6	22304	PASS
441	442	0.01	24	16.2	141016	PASS
442	198	50	500	178.7	870955	PASS
443	442	17	23	19.8	172459	PASS

Quantitation Report

Data File : M:\YODA\DATA\Y190717P\0717Y002.D
 Acq On : 17 Jul 19 9:34
 Sample : SV TUNE 07/11/19
 Misc :
 Quant Time: Jul 17 9:31 2019

Vial: 2
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190717P\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Thu Jul 04 10:59:55 2019
 Response via : Single Level Calibration



TIC: 0717Y002.D

(5) Pentachlorophenol

5.27min 0.0000

response 4357739

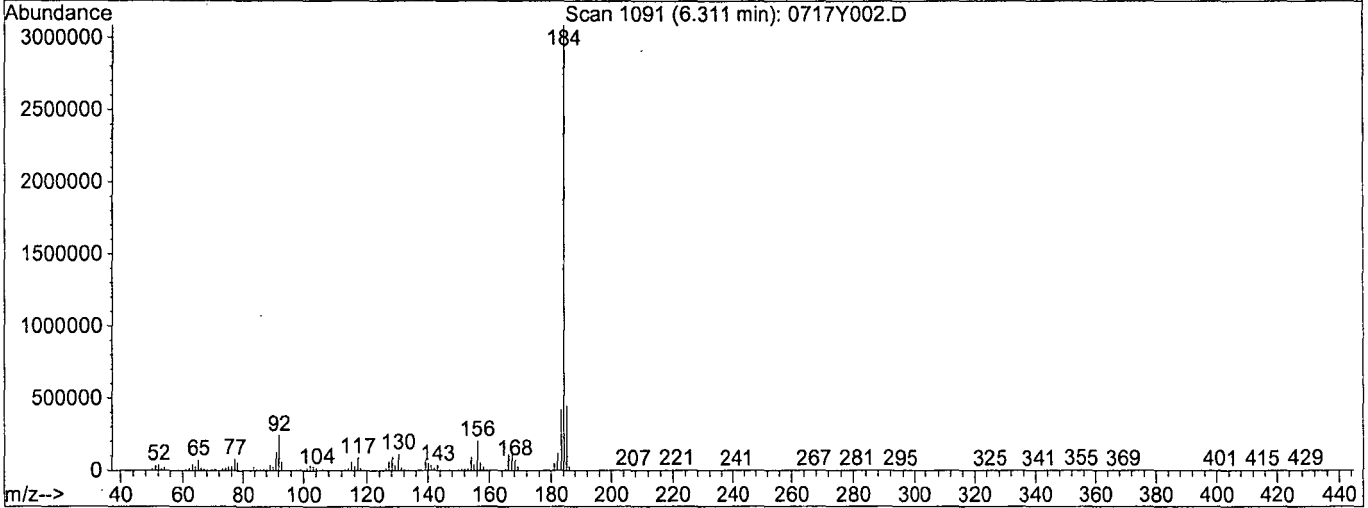
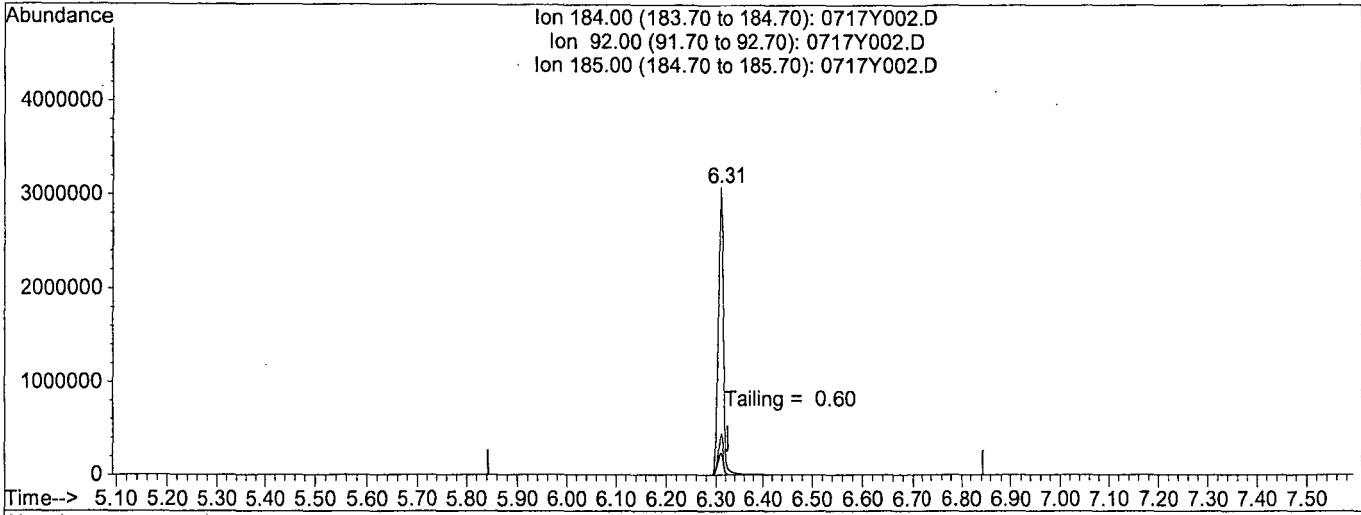
Ion	Exp%	Act%
266.00	100	100
264.00	58.70	62.68
268.00	59.20	62.80
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190717P\0717Y002.D
 Acq On : 17 Jul 19 9:34
 Sample : SV TUNE 07/11/19
 Misc :
 Quant Time: Jul 17 9:31 2019

Vial: 2
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190717P\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Thu Jul 04 10:59:55 2019
 Response via : Single Level Calibration



TIC: 0717Y002.D

(6) Benzidine

6.31min 0.0000

response 23796780

Ion Exp% Act%

184.00 100 100

92.00 6.60 8.03

185.00 14.60 14.63

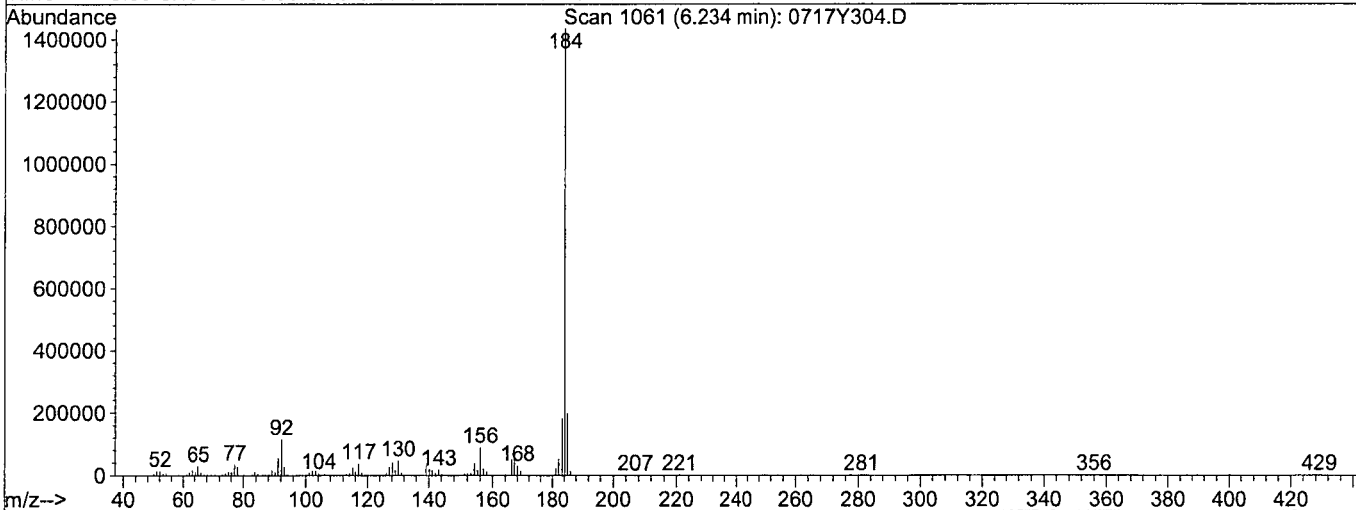
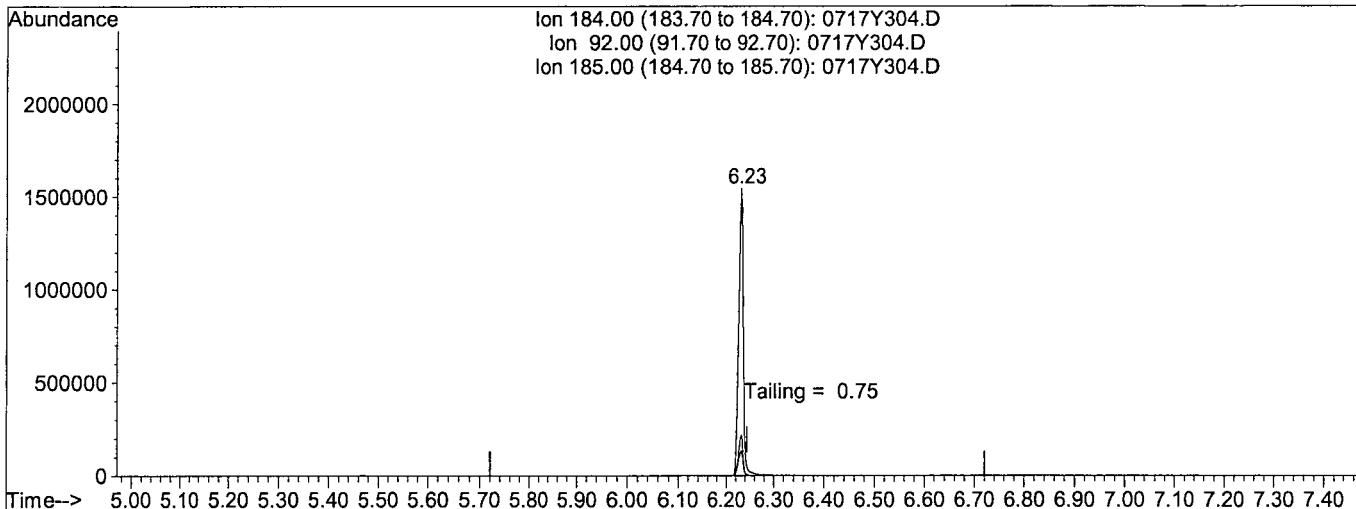
0.00 0.00 0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190717P\0717Y304.D
 Acq On : 31 Jul 19 14:35
 Sample : SV TUNE 07/11/19
 Misc :
 Quant Time: Jul 31 14:29 2019

Vial: 4
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190717P\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Sat Jul 27 13:57:25 2019
 Response via : Single Level Calibration



TIC: 0717Y304.D

(6) Benzidine

6.23min 0.0000

response 11224781

Ion	Exp%	Act%
184.00	100	100
92.00	7.80	8.58
185.00	14.00	14.08
0.00	0.00	0.00

Name of Final Standard SIM Curve
 Prep Date 07/10/19
 Exp Date 12/28/19

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc. (range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
1.0 ug/mL SIM	Phenova	1.0 ug/mL SIM	1.0 ug/mL	07/10/19	12/28/19	10 uL	100uL	MC 56258 90uL	0.1 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	2 uL			2.5ug/mL
1.0 ug/mL SIM	Phenova	1.0 ug/mL SIM	1.0 ug/mL	07/10/19	12/28/19	20 uL	100uL	MC 56258 80uL	0.2 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	2 uL			2.5ug/mL
5.0 ug/mL SIM	Phenova	5.0 ug/mL SIM	5.0 ug/mL	07/10/19	12/28/19	10 uL	100uL	MC 56258 90uL	0.5 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	2 uL			2.5ug/mL
5.0 ug/mL SIM	APPL	5.0 ug/mL SIM	5.0 ug/mL	07/10/19	12/28/19	20 uL	100uL	MC 56258 80 uL	1.0 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	2 uL			2.5ug/mL
PAH SIM STOCK	Phenova	PAH SIM STOCK	200 ug/mL	12/28/18	12/28/19	5 uL	200uL	MC 56258 190 uL	5.0 ug/mL
Sim 2S Surrogate	Restek	SIM 2S SURR.	100 ug/mL	05/17/19	01/24/20	5 uL			2.5 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	4 uL			2.5ug/mL
PAH SIM STOCK	Phenova	PAH SIM STOCK	200 ug/mL	12/28/18	12/28/19	5 uL	100 uL	MC 56258 90 uL	10 ug/mL
Sim 2S Surrogate	APPL	SIM 2S SURR.	100 ug/mL	05/17/19	01/24/20	5 uL			5 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	2 uL			2.5ug/mL
PAH SIM STOCK	Phenova	PAH SIM STOCK	200 ug/mL	12/28/18	12/28/19	25 uL	100uL	MC 56258 50 uL	50 ug/mL
Sim 2S Surrogate	Restek	SIM 2S SURR.	100 ug/mL	05/17/19	01/24/20	25 uL			25 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	2 uL			2.5ug/mL
PAH SIM STOCK	Phenova	PAH SIM STOCK	200 ug/mL	12/28/18	12/28/19	50 uL	100uL	na	100 ug/mL
Sim 2S Surrogate	Restek	SIM 2S SURR.	100 ug/mL	05/17/19	01/24/20	50 uL			50 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	2 uL			2.5ug/mL

Name of Final Standard 8270 PAH SIM Second Source
 Prep Date 07/10/19
 Exp Date 12/28/19

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N#(or APPL Mix Name)	Conc. (range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
PAH SIM SS Stock	Phenova	AL0-130490	200 ug/mL	12/28/18	12/28/19	5 uL	200uL	MC 56258 195uL	5 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	4 uL			2.5ug/mL

Name of Final Standard PAH SIM Stock (Ampule)
 Prep Date 12/28/18
 Exp Date 12/28/19

Prep'd By (I GA)

Initial Standard Information					Final Standard Information				
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Custom PAH SIM Mix	Phenova	AL0-130490	200 ug/mL	CL13117-40078	12/28/19	1000 uL	1mL	NA	200ug/mL

Name of Final Standard PAH SIM 2nd Source Stock (Ampule)
 Prep Date 12/28/18
 Exp Date 12/28/19

Prep'd By (Initials) GA

Initial Standard Information					Final Standard Information				
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Custom PAH SIM Mix	Phenova	AL0-130490	200 ug/mL	CL13121 - 40082	12/28/19	1 mL	na	na	200 ug/mL

Name of Final

Standard

SIM 2S Surrogate

Prep'd By (Initials)

GA

Prep Date **05/17/19**

Exp Date **01/24/20**

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
SIM Surrogate Mix	Restek	33913	2000 ug/mL	A0137718 - 39318	01/24/20	250 uL	5 mL	Acetone #030817A	100 ug/mL
8270 B/N surrog mix	Restek	31086	5000 ug/mL	A0141697 - 40112	04/10/20	100 uL			

Name of Final Standard 8270 SIM PAH Internal Standard
 Prep Date 07/10/19
 Exp Date 07/10/20

Prep'd By (Initials) GA

Initial Standard Information					Final Standard Information				
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc. (range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
SV Internal Standard	Restek	31206	2000 ug/mL	A0144261-40464	07/10/19	350 uL	5,600 uL	MC 56258 5,250 uL	125 ug/mL

Name of Final Standard Semivolatile (SV) Tuning Solution
 Prep Date 07/11/19
 Exp Date 09/30/19

Prep'd By (Initials)

JP

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Semivolatile GC/MS Tuning Standard	Ultra Scientific	GCM-150-1	1,000 ug/mL	CR3789-38879	09/30/19	1,250 uL	25 mL	MC #58240	50 ug/mL

Name of Final Standard SIM Spike
 Prep Date 06/24/19
 Exp Date 06/24/20

Prep'd By (Initials) JP

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Custom PAH Sim Mix	Phenova	AL0-130490	200 ug/mL	CL13117 - 40080	12/31/22	1 mL	5 mL	Methanol	40 ug/mL

Name of Final Standard **SIM Surrogate**
 Prep Date **07/01/19**
 Exp Date **01/24/20**

Prep'd By (Initials) **GA**

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Sim Surrogate Deuterated	Restek	33913	2000 ug/mL	A0137718-39318 A0145699- 40667	01/24/20 07/01/20	1250 uL	25 mL	Acetone #1017171...	100 ug/mL

Organic Extraction Worksheet

Method	Continuous Liquid/Liquid SVOC 3520C	Extraction Set	190729A	Extraction Method	LIQ003	Units	mL
Spiked ID 1	8270T Spike 6/19/19-12/19/19	Surrogate ID 1	8270 Surrogate 6/24/19-4/10/20				
Spiked ID 2	Sim Spike 7/24/19-7/9/20	Surrogate ID 2	SIM Surrogate 7/19/19-7/1/20				
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC: no					
Spiked ID 7		Ext. Start Time: 07/29/19 13:50					
Spiked ID 8		Ext. End Time: 07/31/19 12:05					
		GC Requires Extract By: 08/01/19 0:00					
		pH1	2	07/29/19 13:55	Water Bath Temp 1 °C	75/74.9	EWB6 °
		pH2	14	07/30/19 12:35	Water Bath Temp 2 °C		
		pH3			Water Bath Temp 3 °C		

Spiked By: DL

Date 07/29/19

Witnessed By: CFM

Date 07/29/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1 190729A Blk				1,0.050	1,2	800	1	2/1	07/29/19 13:50	
					equip	E-HP51 E-WB6				
2 190729A LCS-1		1	1	1	1	800	1	2/1	07/29/19 13:50	
					equip	E-HP50 E-WB6				
3 190729A LCS-2		0.125	2	0.050	2	800	1	2/1	07/29/19 13:50	
					equip	E-HP49 E-WB6				
4 190729A LCSD-1		1	1	1	1	800	1	2/1	07/29/19 13:50	
					equip	E-HP48 E-WB6				
5 190729A LCSD-2		0.125	2	0.050	2	800	1	2/1	07/29/19 13:50	
					equip	E-HP47 E-WB6				
6 AZ95419	AZ95419W08			1,0.050	1,2	800	1	2/1	07/29/19 13:50	89607
					equip	E-HP25 E-WB6				
7 AZ95421	AZ95421W08			1,0.050	1,2	800	1	2/1	07/29/19 13:50	89607
					equip	E-HP26 E-WB6				
8 AZ95423	AZ95423W10			1,0.050	1,2	800	1	2/1	07/29/19 13:50	89607
					equip	E-HP27 E-WB6				
9 AZ95511	AZ95511W15			1,0.050	1,2	800	1	2/1	07/29/19 13:50	89624
					equip	E-HP28 E-WB6				
10 AZ95513	AZ95513W13			1,0.050	1,2	800	1	2/1	07/29/19 13:50	89624
					equip	E-HP29 E-WB6				

Solvent and Lot#	
PH Strips	HC863463
Dichloromethane (DCM)	58240
1+1 H2SO4	7/2/19
10N NaOH	7/16/19
Filter Paper	400163
Acidified Na2SO4	2/28/19
B. Na2SO4	2019010772

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	
Date	
Time	
Refrigerator	

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	08/04/19 9:45:38 AM

Reviewed By: Date
Page 288 of 723

Injection Log

Directory: M:\YODA\DATA\Y190717P

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	2	0717Y002.D	1	SV TUNE 07/11/19		07/17/2019 09:34
2	3	0717Y003.D	1	0.1 SIM 07/10/19		07/17/2019 09:51
3	4	0717Y004.D	1	0.2 SIM 07/10/19		07/17/2019 10:14
4	5	0717Y005.D	1	0.5 SIM 07/10/19		07/17/2019 10:38
5	6	0717Y006.D	1	1.0 SIM 07/10/19		07/17/2019 11:01
6	7	0717Y007.D	1	5.0 SIM 07/10/19		07/17/2019 11:25
7	8	0717Y008.D	1	10 SIM 07/10/19		07/17/2019 11:48
8	9	0717Y009.D	1	50 SIM 07/10/19		07/17/2019 12:11
9	10	0717Y010.D	1	100 SIM 07/10/19		07/17/2019 12:35
10	12	0717Y012.D	1	SS SIM 07/10/19		07/17/2019 13:32
11	4	0717Y304.D	1	SV TUNE 07/11/19		07/31/2019 14:35
12	5	0717Y305.D	1	5.0 SIM 07/10/19 (2)		07/31/2019 14:49
13	9	0717Y309.D	1.25	190729A BLK 1/800		07/31/2019 16:52
14	10	0717Y310.D	1.25	190729A LCS-2 1/800		07/31/2019 17:15
15	11	0717Y311.D	1.25	190729A LCSD-2 1/800		07/31/2019 17:39
16	14	0717Y314.D	1.25	AZ95423W10 1/800		07/31/2019 18:49
17	15	0717Y315.D	1.25	AZ95511W15 1/800		07/31/2019 19:12
18	16	0717Y316.D	1.25	AZ95513W13 1/800		07/31/2019 19:35
19	35	0717Y335.D	1	5.0 SIM 07/10/19 (1)		08/01/2019 02:57

Injection Log

Directory: M:\YODA\DATA\Y190717P

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	2	0717Y002.D	1	SV TUNE 07/11/19		07/17/2019 09:34
2	3	0717Y003.D	1	0.1 SIM 07/10/19		07/17/2019 09:51
3	4	0717Y004.D	1	0.2 SIM 07/10/19		07/17/2019 10:14
4	5	0717Y005.D	1	0.5 SIM 07/10/19		07/17/2019 10:38
5	6	0717Y006.D	1	1.0 SIM 07/10/19		07/17/2019 11:01
6	7	0717Y007.D	1	5.0 SIM 07/10/19		07/17/2019 11:25
7	8	0717Y008.D	1	10 SIM 07/10/19		07/17/2019 11:48
8	9	0717Y009.D	1	50 SIM 07/10/19		07/17/2019 12:11
9	10	0717Y010.D	1	100 SIM 07/10/19		07/17/2019 12:35
10	12	0717Y012.D	1	SS SIM 07/10/19		07/17/2019 13:32
11	4	0717Y304.D	1	SV TUNE 07/11/19		07/31/2019 14:35
12	5	0717Y305.D	1	5.0 SIM 07/10/19 (2)		07/31/2019 14:49
13	9	0717Y309.D	1.25	190729A BLK 1/800		07/31/2019 16:52
14	10	0717Y310.D	1.25	190729A LCS-2 1/800		07/31/2019 17:15
15	11	0717Y311.D	1.25	190729A LCSD-2 1/800		07/31/2019 17:39
16	12	0717Y312.D	1.25	AZ95419W08 1/800		07/31/2019 18:02
17	13	0717Y313.D	1.25	AZ95421W08 1/800		07/31/2019 18:25
18	14	0717Y314.D	1.25	AZ95423W10 1/800		07/31/2019 18:49
19	35	0717Y335.D	1	5.0 SIM 07/10/19 (1)		08/01/2019 02:57

**ORGANICS
Calibration Data**

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/22/19
Instrument: Yoda

Initials: 

0722Y003.D 0722Y004.D 0722Y005.D 0722Y006.D 0722Y007.D 0722Y008.D 0722Y009.D 0722Y010.D 0722Y011.D

	Compound	4	5	10	20	40	50	60	80	100	Avg	%RSD	Type	r ²	Q	MRF
1	I 1,4-dichlorobenzene-D4(1S)	ISTD														
2	1,4-Dioxane			0.1117	0.0733	0.1044	0.1141	0.1057	0.1012	0.1075	0.10	13				
3	TM n-Nitrosodimethylamine		0.1792	0.1777	0.1909	0.1763	0.1691	0.1844	0.1919	0.1881	0.18	4.4	TM			
4	TM Pyridine		0.4437	0.4356	0.4386	0.4508	0.4462	0.4332	0.4774	0.4673	0.45	3.5	TM			
5	S 2-Fluorophenol (S)		1.545	1.449	1.381	1.287	1.285	1.228	1.222	1.211	1.3	9.2	S			
6	S Phenol-D6 (S)			1.688	1.581	1.377	1.374	1.289	1.254	1.192	1.4	13	S			
7	*TM Phenol		2.029	2.025	1.986	1.801	1.860	1.745	1.641	1.587	1.8	9.3	*TM			0.800
8	TM Aniline		1.857	1.948	1.960	1.766	1.792	1.708	1.687	1.617	1.8	6.9	TM			
9	TM Bis (2-chloroethyl) ether		0.8531	0.8548	0.8180	0.7543	0.7703	0.7486	0.7443	0.7269	0.78	6.5	TM			0.700
10	TM 2-Chlorophenol		1.591	1.583	1.530	1.423	1.481	1.403	1.399	1.396	1.5	5.6	TM			0.800
11	TM 1,3-DCB		1.861	1.796	1.731	1.610	1.641	1.572	1.573	1.529	1.7	7.2	TM			
12	*TM 1,4-DCB		1.843	1.810	1.741	1.603	1.658	1.589	1.577	1.529	1.7	7.0	*TM			
13	TM Benzyl alcohol		0.7967	0.8471	0.8688	0.7975	0.8325	0.7952	0.7953	0.7892	0.82	3.7	TM			
14	TM 1,2-DCB		1.720	1.667	1.633	1.494	1.526	1.452	1.439	1.398	1.5	7.7	TM			
15	TM 2-Methylphenol		1.256	1.256	1.256	1.115	1.160	1.111	1.116	1.092	1.2	6.3	TM			0.700
16	TM Bis (2-chloroisopropyl) ether		1.450	1.400	1.340	1.167	1.194	1.120	1.099	1.063	1.2	12	TM			0.010
17	TM Acetophenone		1.923	1.892	1.853	1.634	1.713	1.625	1.628	1.606	1.7	7.7	TM			0.010
18	TM 3&4-Methylphenol		1.552	1.554	1.496	1.338	1.374	1.300	1.272	1.217	1.4	9.4	TM			0.600
19	**TM n-Nitrosodi-n-propylamine		0.9462	0.9388	0.9069	0.8052	0.8411	0.7903	0.7893	0.6296	0.83	12	**TM			0.500
20	TM Hexachloroethane		0.6170	0.6129	0.5902	0.5378	0.5506	0.5254	0.5277	0.5095	0.56	7.5	TM			0.300
21	I Naphthalene-D8(1S)	ISTD														
22	S Nitrobenzene-D5(S)		0.3911	0.3510	0.3260	0.2965	0.2904	0.2783	0.2766	0.2781	0.31	13	S			
23	TM Nitrobenzene		0.3523	0.3451	0.3442	0.3164	0.3204	0.3115	0.3095	0.3115	0.33	5.4	TM			0.200
24	TM Isophorone		0.6032	0.6029	0.6050	0.5526	0.5679	0.5505	0.5585	0.5695	0.58	4.1	TM			0.400
25	*TM 2-Nitrophenol		0.1594	0.2171	0.2205	0.2133	0.2149	0.2123	0.2131	0.2166	0.21	9.6	*TM			0.100
26	TM 2,4-Dimethylphenol		0.3459	0.3390	0.3385	0.3122	0.3200	0.3079	0.3104	0.3097	0.32	4.8	TM			0.200
27	TM Benzoic acid			0.1686	0.2090	0.2224	0.2319	0.1934	0.1988	0.2172	0.21	10	TM			
28	TM Bis (2-chloroethoxy) methane		0.4264	0.4100	0.3970	0.3600	0.3689	0.3557	0.3558	0.3543	0.38	7.5	TM			0.300
29	*TM 2,4-Dichlorophenol		0.3208	0.3238	0.3220	0.2985	0.3080	0.2969	0.2965	0.2974	0.31	4.0	*TM			0.200
30	TM 1,2,4-Trichlorobenzene		0.3799	0.3701	0.3533	0.3275	0.3326	0.3229	0.3239	0.3180	0.34	6.9	TM			
31	TM 3,4-Dimethylphenol		0.4603	0.4450	0.4367	0.3969	0.4048	0.3934	0.3914	0.3826	0.41	7.0	TM			
32	TM Naphthalene		1.190	1.156	1.087	1.013	0.9975	0.9716	0.9598	0.9343	1.0	9.1	TM			0.700
33	TM 4-Chloroaniline		0.4453	0.4502	0.4333	0.3881	0.3827	0.3627	0.3369	0.3020	0.39	14	TM			0.010
34	TM 2,6-Dichlorophenol		0.3433	0.3277	0.3115	0.2826	0.2818	0.2683	0.2617	0.2529	0.29	11	TM			
35	TM Hexachloropropene		0.1899	0.2022	0.2012	0.1924	0.1928	0.1872	0.1864	0.1828	0.19	3.6	TM			

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/22/19
Instrument: Yoda

Initials: _____

		Compound	4	5	10	20	40	50	60	80	100		Avg	%RSD	Type		Q
36	*TM	Hexachlorobutadiene		0.2044	0.2009	0.1926	0.1808	0.1836	0.1789	0.1792	0.1777		0.19	5.7	*TM		0.010
37	TM	Caprolactum		0.1132	0.1221	0.1281	0.1184	0.1189	0.1166	0.1199	0.1215		0.12	3.7	TM		0.010
38	*TM	4-Chloro-3-methylphenol		0.3039	0.3098	0.3100	0.2924	0.2970	0.2876	0.2936	0.2962		0.30	2.8	*TM		0.200
39	TM	2-Methylnaphthalene		0.7811	0.7561	0.7283	0.6800	0.6831	0.6618	0.6472	0.6396		0.70	7.5	TM		0.400
40	TM	1-Methylnaphthalene		0.8477	0.7838	0.7554	0.6877	0.7001	0.6704	0.6622	0.6513		0.72	9.6	TM		
41	I	Acenaphthene-D10(IS)	ISTD														
42	**TMQ	Hexachlorocyclopentadiene				0.0415	0.0835	0.1056	0.1236	0.1545	0.1866		0.12	44	**TMQ	1.000	0.050
43	TM	1,2,4,5-Tetrachlorobenzene		0.6963	0.6776	0.6474	0.6007	0.6034	0.5827	0.5883	0.5789		0.62	7.3	TM		0.010
44	*TM	2,4,6-Trichlorophenol		0.3871	0.4006	0.4066	0.3772	0.3826	0.3746	0.3848	0.3829		0.39	2.9	*TM		0.200
45	TM	2,4,5-Trichlorophenol		0.4292	0.4290	0.4256	0.3920	0.4071	0.3971	0.4040	0.4020		0.41	3.6	TM		0.200
46	S	2-Fluorobiphenyl(S)			1.780	1.584	1.391	1.369	1.281	1.243	1.183		1.4	15	S		
47	TM	1,1'-Biphenyl		1.963	1.876	1.791	1.628	1.638	1.555	1.531	1.464		1.7	11	TM		0.010
48	TM	2-Chloronaphthalene		1.482	1.423	1.377	1.263	1.251	1.196	1.199	1.164		1.3	9.1	TM		0.800
49	TM	2-Nitroaniline		0.2993	0.3233	0.3335	0.3088	0.3086	0.3001	0.3038	0.2996		0.31	4.0	TM		0.010
50	TM	Dimethyl phthalate		1.667	1.602	1.601	1.459	1.470	1.414	1.437	1.412		1.5	6.6	TM		0.010
51	TM	2,6-DNT		0.3446	0.3646	0.3779	0.3571	0.3623	0.3569	0.3598	0.3591		0.36	2.6	TM		0.200
52	TM	Acenaphthylene		2.250	2.211	2.159	1.961	1.972	1.912	1.887	1.817		2.0	8.1	TM		0.900
53	TM	3-Nitroaniline		0.3625	0.3940	0.3981	0.3762	0.3834	0.3627	0.3633	0.3544		0.37	4.3	TM		0.010
54	*TM	Acenaphthene		1.507	1.450	1.373	1.222	1.226	1.170	1.167	1.122		1.3	11	*TM		0.900
55	**TML	2,4-Dinitrophenol				0.1216	0.1551	0.1762	0.1733	0.1980	0.2185		0.17	19	**TML	0.990	0.010
56	**TM	4-Nitrophenol		0.1459	0.1535	0.1696	0.1589	0.1635	0.1580	0.1605	0.1665		0.16	4.7	**TM		0.010
57	TM	Dibenzofuran		2.128	2.069	1.993	1.799	1.805	1.739	1.729	1.655		1.9	9.4	TM		0.800
58	TM	2,4-DNT		0.4401	0.4913	0.5120	0.4779	0.4894	0.4712	0.4795	0.4838		0.48	4.2	TM		0.200
59	TM	2,3,4,6-Tetrachlorophenol		0.2975	0.3126	0.3236	0.3138	0.3236	0.3175	0.3295	0.3340		0.32	3.6	TM		0.010
60	TM	Diethyl phthalate		1.582	1.527	1.514	1.367	1.394	1.326	1.325	1.321		1.4	7.4	TM		0.010
61	TM	4-Chlorophenyl phenyl ether		0.8866	0.8482	0.8236	0.7254	0.7198	0.6821	0.6697	0.6418		0.75	12	TM		0.400
62	TM	Fluorene		1.738	1.642	1.593	1.408	1.392	1.306	1.283	1.218		1.4	13	TM		0.900
63	TM	4-Nitroaniline		0.3674	0.3624	0.3782	0.3510	0.3562	0.3494	0.3548	0.3570		0.36	2.7	TM		0.010
64	S	2,4,6-Tribromophenol(S)		0.2451	0.2352	0.2225	0.2063	0.2082	0.2001	0.2018	0.2055		0.22	7.8	S		
65	I	Phenanthrene-D10(IS)	ISTD														
66	TM	4,6-Dinitro-2-methylphenol			0.1252	0.1430	0.1461	0.1526	0.1502	0.1560	0.1552		0.15	7.2	TM		0.010
67	TM	Diphenyl amine		0.6963	0.6489	0.6290	0.5602	0.5521	0.5299	0.5066	0.4761		0.57	13	TM		
68	*TM	n-Nitrosodiphenylamine		0.6963	0.6489	0.6290	0.5602	0.5521	0.5299	0.5066	0.4761		0.57	13	*TM		0.010
69	TM	1,2-Diphenylhydrazine		0.7045	0.6798	0.6478	0.5894	0.6813	0.6666	0.6315	0.5978		0.65	6.3	TM		
70	TM	4-Bromophenyl phenyl ether		0.2471	0.2401	0.2417	0.2209	0.2273	0.2243	0.2190	0.2176		0.23	5.0	TM		0.100

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/22/19
Instrument: Yoda

Initials: _____

		Compound	4	5	10	20	40	50	60	80	100	Avg	%RSD	Type	Q
71	TM	Hexachlorobenzene		0.2601	0.2501	0.2477	0.2314	0.2350	0.2290	0.2305	0.2256	0.24	5.2	TM	0.100
72	TM	Atrazine		0.2183	0.2222	0.2204	0.2084	0.2133	0.2099	0.2105	0.2065	0.21	2.8	TM	0.010
73	*TM	Pentachlorophenol			0.0643	0.0711	0.0739	0.0791	0.0787	0.0836	0.0900	0.08	11	*TM	0.050
74	TM	Phenanthrene		1.292	1.238	1.181	1.069	1.075	1.019	0.9956	0.9499	1.1	11	TM	0.700
75	TM	Anthracene		1.279	1.263	1.215	1.119	1.118	1.063	1.029	0.9736	1.1	9.8	TM	0.700
76	TM	Carbazol		1.183	1.154	1.141	1.022	1.039	0.9935	0.9669	0.9191	1.1	9.2	TM	0.010
77	TM	Di-n-butylphthalate		1.213	1.269	1.310	1.188	1.170	1.144	1.112	1.038	1.2	7.3	TM	0.010
78	*TM	Fluoranthene		1.342	1.332	1.316	1.185	1.187	1.152	1.104	1.041	1.2	9.3	*TM	0.600
79	I	Chrysene-D12(ISTD)	ISTD												
80	TM	Benzydine				0.3272	0.3380	0.3635	0.3680	0.3721	0.3823	0.36	5.9	TM	
81	TM	Pyrene		1.517	1.492	1.463	1.393	1.427	1.354	1.356	1.307	1.4	5.2	TM	0.600
82	S	Terphenyl-D14(S)		1.244	1.126	1.030	0.9560	0.9641	0.9093	0.9101	0.8867	1.0	12	S	
83	TM	Butyl benzylphthalate		0.5300	0.5827	0.6059	0.6021	0.6253	0.5920	0.5952	0.5859	0.59	4.7	TM	0.010
84	TM	3,3'-Dichlorobenzidine		0.3756	0.4091	0.4270	0.4114	0.4230	0.4059	0.4089	0.4054	0.41	3.8	TM	0.010
85	TM	Benz (a) anthracene		1.462	1.427	1.359	1.268	1.289	1.234	1.216	1.166	1.3	8.0	TM	0.800
86	TM	Bis (2-ethylhexyl) phthalate		0.7564	0.7956	0.7867	0.7432	0.7559	0.7037	0.6708	0.6236	0.73	8.1	TM	0.010
87	TM	Chrysene		1.407	1.349	1.348	1.259	1.289	1.200	1.226	1.202	1.3	6.0	TM	0.700
88	*TM	Di-n-octylphthalate		1.103	1.303	1.389	1.406	1.443	1.395	1.377	1.347	1.3	7.9	*TM	0.010
89	I	Perylene-D12(ISTD)	ISTD												
90	TM	Benzo (b) fluoranthene		1.138	1.316	1.267	1.154	1.199	1.149	1.248	1.218	1.2	5.2	TM	0.700
91	TM	Benzo (k) fluoranthene		1.384	1.247	1.275	1.252	1.243	1.150	1.055	0.9963	1.2	11	TM	0.700
92	*TM	Benzo (a) pyrene	1.051	1.193	1.207	1.185	1.138	1.155	1.100	1.107	1.076	1.1	4.8	*TM	0.700
93	TM	Indeno (1,2,3-cd) pyrene		1.274	1.337	1.343	1.305	1.339	1.273	1.285	1.250	1.3	2.7	TM	0.500
94	TM	Dibenz (a,h) anthracene	0.9710	1.128	1.172	1.178	1.141	1.171	1.114	1.112	1.082	1.1	5.7	TM	0.400
95	TM	Benzo (g,h,i) perylene		0.9912	1.036	1.049	1.026	1.059	1.005	1.025	1.018	1.0	2.2	TM	0.500
96															
97															
98															
99															
100															
101															
102															
103															
104															
105															

Data File : M:\YODA\DATA\Y190722\0722Y003.D
 Acq On : 22 Jul 19 14:01
 Sample : 4ug/ml 8270 07/12/19
 Misc :

Vial: 3
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 14:24 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 16 08:54:23 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	440945	40.00000	ppb	-0.12
21) Napthalene-D8 (IS)	6.47	136	1828972	40.00000	ppb	-0.12
41) Acenaphthene-D10 (IS)	8.51	164	955144	40.00000	ppb	-0.12
65) Phenanthrene-D10 (IS)	10.26	188	1851498	40.00000	ppb	-0.13
79) Chrysene-D12 (IS)	13.38	240	1736228	40.00000	ppb	-0.13
89) Perylene-D12 (IS)	15.12	264	1784940	40.00000	ppb	-0.18
System Monitoring Compounds						
5) 2-Fluorophenol (S)	0.00	112	0d	0.00000	ppb	
Spiked Amount	200.000		Recovery	=	0.000%	
6) Phenol-D6 (S)	0.00	99	0d	0.00000	ppb	
Spiked Amount	200.000		Recovery	=	0.000%	
22) Nitrobenzene-D5 (S)	0.00	82	0d	0.00000	ppb	
Spiked Amount	100.000		Recovery	=	0.000%	
46) 2-Fluorobiphenyl (S)	0.00	172	0d	0.00000	ppb	
Spiked Amount	100.000		Recovery	=	0.000%	
64) 2,4,6-Tribromophenol (S)	0.00	330	0d	0.00000	ppb	
Spiked Amount	200.000		Recovery	=	0.000%	
82) Terphenyl-D14 (S)	0.00	244	0d	0.00000	ppb	
Spiked Amount	100.000		Recovery	=	0.000%	
Target Compounds						
92) Benzo (a) pyrene	15.07	252	187613	3.83990	ppb	99
94) Dibenz (a,h) anthracene	16.91	278	173311	3.60349	ppb	98

Quantitation Report

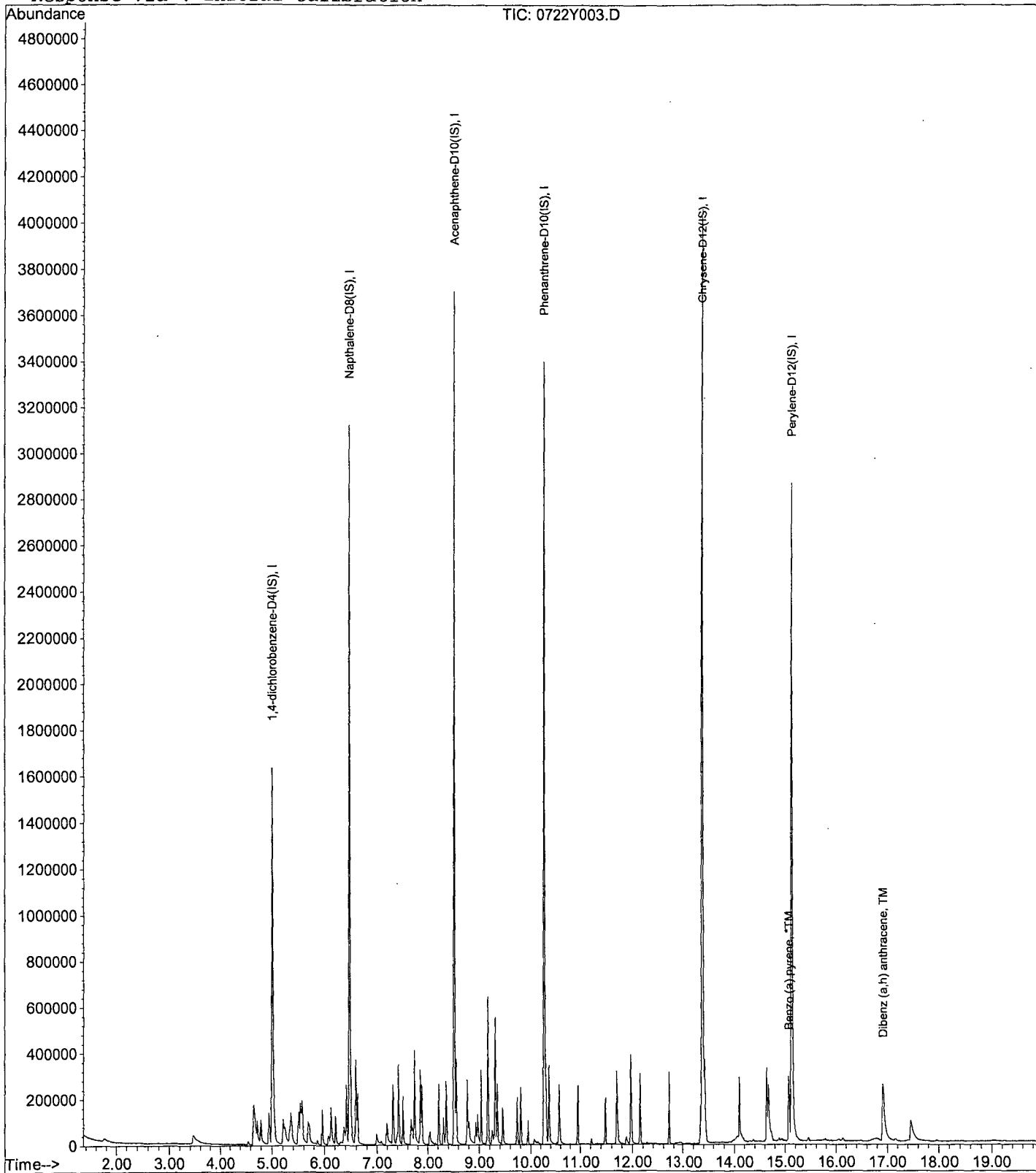
Data File : M:\YODA\DATA\Y190722\0722Y003.D
Acq On : 22 Jul 19 14:01
Sample : 4ug/ml 8270 07/12/19
Misc :

Vial: 3
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 22 14:24 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y004.D
 Acq On : 22 Jul 19 14:29
 Sample : 5ug/ml 8270 07/12/19
 Misc :

Vial: 4
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 15:40 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 15:40:36 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	439617	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.47	136	1780662	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.51	164	941418	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1820185	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.38	240	1721437	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.13	264	1799909	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.42	112	169794	11.84169	ppb	0.00
Spiked Amount 200.000			Recovery =	5.921%		
6) Phenol-D6 (S)	4.64	99	200650	11.10931	ppb	0.00
Spiked Amount 200.000			Recovery =	5.555%		
22) Nitrobenzene-D5 (S)	5.68	82	87053	5.49120	ppb	0.00
Spiked Amount 100.000			Recovery =	5.491%		
46) 2-Fluorobiphenyl (S)	7.73	172	238253	7.14110	ppb	0.00
Spiked Amount 100.000			Recovery =	7.141%		
64) 2,4,6-Tribromophenol (S)	9.46	330	57680	12.14484	ppb	0.01
Spiked Amount 200.000			Recovery =	6.073%		
82) Terphenyl-D14 (S)	12.14	244	267606	6.78454	ppb	0.00
Spiked Amount 100.000			Recovery =	6.785%		

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.48	58	310	0.16684		# 1
3) n-Nitrosodimethylamine	1.72	42	9847	3.42861	ppb	87
4) Pyridine	1.74	79	24380	3.41809	ppb	96
7) Phenol	4.66	94	111511	5.21256	ppb	79
8) Aniline	4.66	93	102039	4.87983	ppb	91
9) Bis (2-chloroethyl) ether	4.72	63	46879	5.12894	ppb	90
10) 2-Chlorophenol	4.79	128	87456	5.67964	ppb	93
11) 1,3-DCB	4.95	146	102246	5.82611	ppb	96
12) 1,4-DCB	5.03	146	101294	5.61331	ppb	97
13) Benzyl alcohol	5.22	108	43783	4.84804	ppb	99
14) 1,2-DCB	5.21	146	94512	5.60069	ppb	99
15) 2-Methylphenol	5.35	107	69015	5.29979	ppb	95
16) Bis (2-chloroisopropyl) et	5.34	45	79683	5.82786	ppb	# 64
17) Acetophenone	5.50	105	105669	5.22907	ppb	100
18) 3&4-Methylphenol	5.53	107	170611	10.56461	ppb	100
19) n-Nitrosodi-n-propylamine	5.49	70	51994	4.66721	ppb	97
20) Hexachloroethane	5.57	117	33903	5.24195	ppb	95
23) Nitrobenzene	5.70	77	78416	5.00549	ppb	98
24) Isophorone	5.96	82	134253	5.00246	ppb	98
25) 2-Nitrophenol	6.07	139	35469	4.19062	ppb	98
26) 2,4-Dimethylphenol	6.12	122	76999	5.65093	ppb	97
27) Benzoic acid	6.30	105	26733	3.03214	ppb	95
28) Bis (2-chloroethoxy) metha	6.21	93	94906	5.55245	ppb	100
29) 2,4-Dichlorophenol	6.37	162	71396	5.53564	ppb	98
30) 1,2,4-Trichlorobenzene	6.41	180	84562	5.92490	ppb	96
31) 3,4-Dimethylphenol	6.47	107	102460	5.45069	ppb	97
32) Napthalene	6.50	128	264804	5.86348	ppb	100
33) 4-Chloroaniline	6.59	127	99119	5.66495	ppb	97
34) 2,6-Dichlorophenol	6.59	162	76420	5.68116	ppb	99
35) Hexachloropropene	6.59	213	42263	4.65469	ppb	97
36) Hexachlorobutadiene	6.63	225	45485	5.49442	ppb	97
37) Caprolactum	6.99	55	25199	4.80618	ppb	94

Data File : M:\YODA\DATA\Y190722\0722Y004.D
 Acq On : 22 Jul 19 14:29
 Sample : 5ug/ml 8270 07/12/19
 Misc :

Vial: 4
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 15:40 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 15:40:36 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.18	107	67633	5.35837	ppb	94
39) 2-Methylnaphthalene	7.30	142	173851	5.87295	ppb	99
40) 1-Methylnaphthalene	7.42	142	188687	6.09252	ppb	100
42) Hexachlorocyclopentadiene	7.47	237	179	-40.00000	ppb #	91
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	81939	6.09018	ppb	99
44) 2,4,6-Trichlorophenol	7.66	196	45549	5.25409	ppb	97
45) 2,4,5-Trichlorophenol	7.73	196	50509	5.72438	ppb	91
47) 1,1'-Biphenyl	7.85	154	231037	6.45109	ppb	96
48) 2-Chloronaphthalene	7.88	162	174431	6.21041	ppb	96
49) 2-Nitroaniline	8.03	65	35223	4.92091	ppb	84
50) Dimethyl phthalate	8.21	163	196175	6.14970	ppb	98
51) 2,6-DNT	8.31	165	40552	5.63342	ppb	91
52) Acenaphthylene	8.35	152	264745	6.04675	ppb	99
53) 3-Nitroaniline	8.52	138	42661	5.39381	ppb #	80
54) Acenaphthene	8.56	154	177362	6.41463	ppb	98
55) 2,4-Dinitrophenol	8.73	184	2169	1.78318	ppb	94
56) 4-Nitrophenol	8.82	65	17168	4.26606	ppb	93
57) Dibenzofuran	8.76	168	250418	6.25571	ppb	95
58) 2,4-DNT	8.80	165	51795	5.27126	ppb	95
59) 2,3,4,6-Tetrachlorophenol	8.93	232	35006	5.20295	ppb	95
60) Diethyl phthalate	9.03	149	186121	5.95827	ppb	100
61) 4-Chlorophenyl phenyl ethe	9.16	204	104332	6.32042	ppb	97
62) Fluorene	9.16	166	204503	6.09528	ppb	98
63) 4-Nitroaniline	9.24	138	43238	5.89579	ppb	92
66) 4,6-Dinitro-2-methylphenol	9.28	198	21188	9.08540	ppb #	86
67) Diphenyl amine	9.31	169	316857	11.10923	ppb	99
68) n-Nitrosodiphenylamine	9.31	169	316857	11.10923	ppb	99
69) 1,2-Diphenylhydrazine	9.35	77	160282	4.59370	ppb	98
70) 4-Bromophenyl phenyl ether	9.74	248	56214	5.22755	ppb	95
71) Hexachlorobenzene	9.80	284	59188	5.29075	ppb	97
72) Atrazine	9.94	200	24834	2.62700	ppb	95
73) Pentachlorophenol	10.07	266	11979	3.21451	ppb	99
74) Phenanthrene	10.29	178	293847	5.67124	ppb	99
75) Anthracene	10.36	178	290906	5.41986	ppb	100
76) Carbazol	10.56	167	269170	5.50616	ppb	97
77) Di-n-butylphthalate	10.95	149	275967	4.85930	ppb	99
78) Fluoranthene	11.70	202	305247	5.51943	ppb	97
80) Benzidine	11.88	184	52041	4.77705	ppb	97
81) Pyrene	11.96	202	326488	6.41288	ppb	100
83) Butyl benzylphthalate	12.71	149	114042	5.13532	ppb	89
84) 3,3'-Dichlorobenzidine	13.35	252	80832	5.43176	ppb	97
85) Benz (a) anthracene	13.37	228	314487	5.62193	ppb	100
86) Bis (2-ethylhexyl) phthala	13.38	149	162758	5.02768	ppb	95
87) Chrysene	13.41	228	302719	6.14953	ppb	100
88) Di-n-octylphthalate	14.10	149	237395	4.66053	ppb	96
90) Benzo (b) fluoranthene	14.63	252	256076	4.75488	ppb	98
91) Benzo (k) fluoranthene	14.67	252	311351	5.89326	ppb	100
92) Benzo (a) pyrene	15.07	252	268510	5.44993	ppb	97
93) Indeno (1,2,3-cd) pyrene	16.90	276	286549	5.08249	ppb	97
94) Dibenz (a,h) anthracene	16.91	278	253893	5.23506	ppb	99
95) Benzo (g,h,i) perylene	17.45	276	222998	5.16993	ppb	95

Quantitation Report

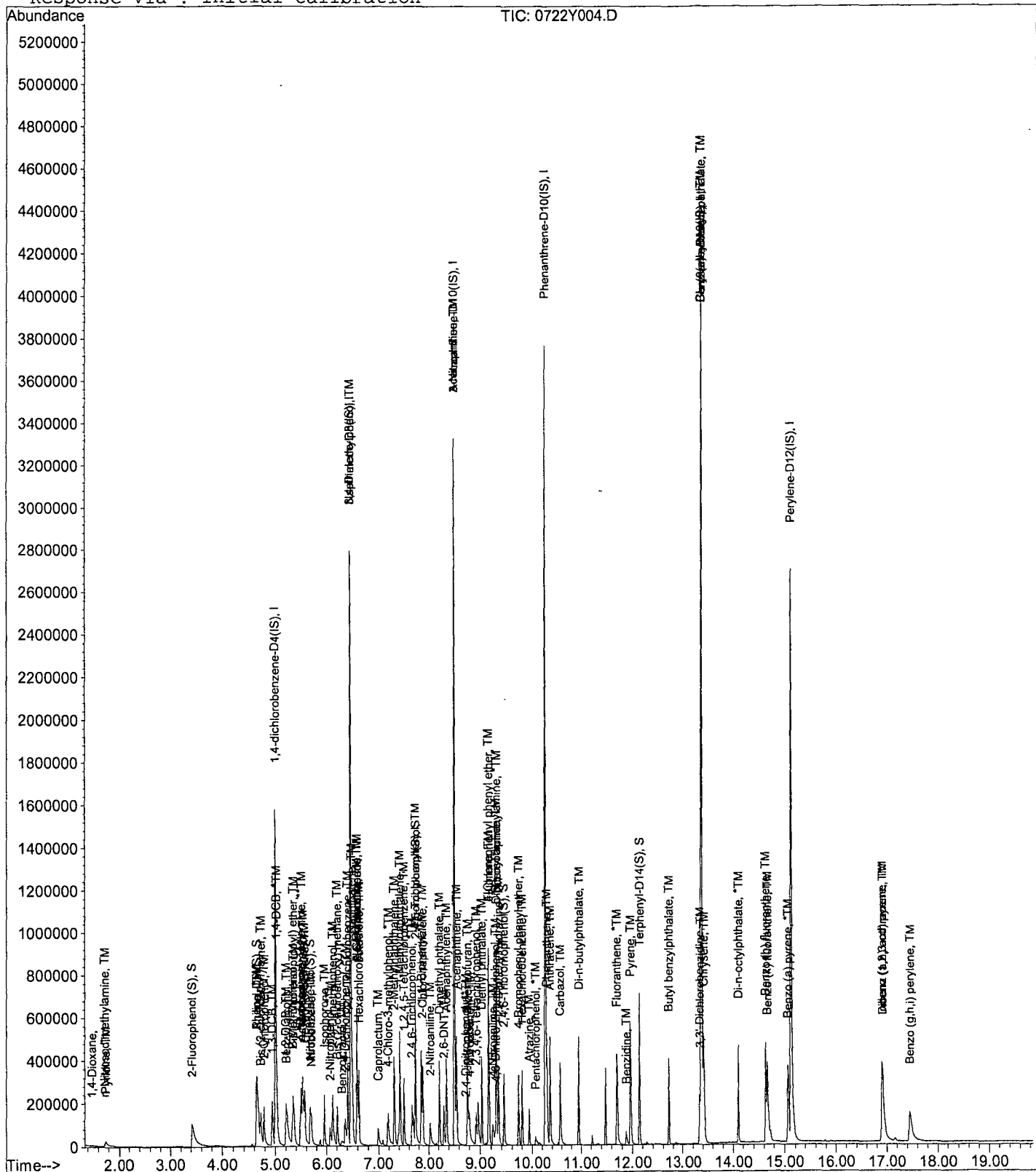
Data File : M:\YODA\DATA\Y190722\0722Y004.D
Acq On : 22 Jul 19 14:29
Sample : 5ug/ml 8270 07/12/19
Misc :

Vial: 4
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 22 15:40 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y005.D
 Acq On : 22 Jul 19 14:57
 Sample : 10ug/ml 8270 07/12/19
 Misc :

Vial: 5
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:32:36 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	494862	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.47	136	1977082	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.51	164	1040818	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.26	188	2035484	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.38	240	1894706	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.13	264	1984381	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.40	112	358492	22.22414	ppb	0.02
Spiked Amount 200.000			Recovery =	11.112%		
6) Phenol-D6 (S)	4.63	99	417767	20.78065	ppb	0.00
Spiked Amount 200.000			Recovery =	10.391%		
22) Nitrobenzene-D5 (S)	5.67	82	173507	9.92501	ppb	0.00
Spiked Amount 100.000			Recovery =	9.925%		
46) 2-Fluorobiphenyl (S)	7.73	172	463218	12.57100	ppb	0.00
Spiked Amount 100.000			Recovery =	12.571%		
64) 2,4,6-Tribromophenol (S)	9.45	330	122393	22.82155	ppb	0.00
Spiked Amount 200.000			Recovery =	11.411%		
82) Terphenyl-D14 (S)	12.14	244	533349	12.10006	ppb	0.00
Spiked Amount 100.000			Recovery =	12.100%		

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.48	58	1382	0.67324		81
3) n-Nitrosodimethylamine	1.71	42	21988	6.96639	ppb	98
4) Pyridine	1.72	79	53893	6.85757	ppb	100
7) Phenol	4.65	94	250482	10.51846	ppb	90
8) Aniline	4.64	93	240981	10.38838	ppb	# 87
9) Bis (2-chloroethyl) ether	4.71	63	105754	10.48865	ppb	97
10) 2-Chlorophenol	4.78	128	195815	11.29814	ppb	98
11) 1,3-DCB	4.94	146	222252	11.22338	ppb	99
12) 1,4-DCB	5.03	146	223877	11.01791	ppb	100
13) Benzyl alcohol	5.21	108	104802	10.39089	ppb	97
14) 1,2-DCB	5.21	146	206238	10.87348	ppb	98
15) 2-Methylphenol	5.34	107	155412	10.70991	ppb	97
16) Bis (2-chloroisopropyl) et	5.34	45	173163	11.63742	ppb	# 88
17) Acetophenone	5.49	105	234120	10.44007	ppb	95
18) 3&4-Methylphenol	5.52	107	384586	21.45807	ppb	99
19) n-Nitrosodi-n-propylamine	5.48	70	116145	9.47300	ppb	96
20) Hexachloroethane	5.57	117	75826	10.51398	ppb	81
23) Nitrobenzene	5.69	77	170582	9.89462	ppb	97
24) Isophorone	5.96	82	298008	10.07146	ppb	95
25) 2-Nitrophenol	6.06	139	107318	11.30918	ppb	99
26) 2,4-Dimethylphenol	6.12	122	167563	11.05925	ppb	99
27) Benzoic acid	6.26	105	83337	8.46946	ppb	96
28) Bis (2-chloroethoxy) metha	6.21	93	202658	10.72609	ppb	99
29) 2,4-Dichlorophenol	6.35	162	160030	11.06528	ppb	100
30) 1,2,4-Trichlorobenzene	6.41	180	182933	11.43968	ppb	99
31) 3,4-Dimethylphenol	6.46	107	219944	10.59004	ppb	98
32) Naphthalene	6.50	128	571280	11.40869	ppb	100
33) 4-Chloroaniline	6.59	127	222510	11.53806	ppb	97
34) 2,6-Dichlorophenol	6.59	162	161963	10.89378	ppb	99
35) Hexachloropropene	6.59	213	99937	9.90244	ppb	98
36) Hexachlorobutadiene	6.63	225	99309	10.69913	ppb	98
37) Caprolactum	6.99	55	60350	10.54999	ppb	92

Data File : M:\YODA\DATA\Y190722\0722Y005.D
 Acq On : 22 Jul 19 14:57
 Sample : 10ug/ml 8270 07/12/19
 Misc :

Vial: 5
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:32:36 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	153114	10.93286	ppb	93
39) 2-Methylnaphthalene	7.30	142	373735	11.34952	ppb	99
40) 1-Methylnaphthalene	7.41	142	387403	11.27475	ppb	99
42) Hexachlorocyclopentadiene	7.47	237	4136	1.72454	ppb	98
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	176321	11.75744	ppb	100
44) 2,4,6-Trichlorophenol	7.66	196	104250	10.80084	ppb	99
45) 2,4,5-Trichlorophenol	7.71	196	111616	11.37921	ppb	# 93
47) 1,1'-Biphenyl	7.84	154	488170	12.34435	ppb	# 98
48) 2-Chloronaphthalene	7.87	162	370340	11.94582	ppb	100
49) 2-Nitroaniline	8.02	65	84128	10.83411	ppb	85
50) Dimethyl phthalate	8.21	163	416968	11.82222	ppb	99
51) 2,6-DNT	8.31	165	94879	11.84877	ppb	97
52) Acenaphthylene	8.35	152	575395	11.91664	ppb	100
53) 3-Nitroaniline	8.51	138	102521	11.76288	ppb	# 88
54) Acenaphthene	8.56	154	377311	12.39989	ppb	98
55) 2,4-Dinitrophenol	8.70	184	14038	4.68342	ppb	98
56) 4-Nitrophenol	8.78	65	39935	9.20265	ppb	80
57) Dibenzofuran	8.76	168	538398	12.20496	ppb	94
58) 2,4-DNT	8.79	165	127838	11.72944	ppb	88
59) 2,3,4,6-Tetrachlorophenol	8.93	232	81339	10.72911	ppb	96
60) Diethyl phthalate	9.03	149	397222	11.54365	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.16	204	220710	12.14078	ppb	97
62) Fluorene	9.16	166	427356	11.63675	ppb	100
63) 4-Nitroaniline	9.23	138	94293	11.57289	ppb	98
66) 4,6-Dinitro-2-methylphenol	9.27	198	63725	13.26532	ppb	96
67) Diphenyl amine	9.31	169	660461	20.92637	ppb	99
68) n-Nitrosodiphenylamine	9.31	169	660461	20.92637	ppb	99
69) 1,2-Diphenylhydrazine	9.35	77	345930	8.89163	ppb	97
70) 4-Bromophenyl phenyl ether	9.74	248	122158	10.08917	ppb	98
71) Hexachlorobenzene	9.80	284	127261	10.06275	ppb	97
72) Atrazine	9.94	200	56541	5.33914	ppb	96
73) Pentachlorophenol	10.06	266	32737	7.74673	ppb	96
74) Phenanthrene	10.29	178	630028	10.91833	ppb	99
75) Anthracene	10.36	178	642848	10.74560	ppb	99
76) Carbazol	10.56	167	587286	10.77676	ppb	99
77) Di-n-butylphthalate	10.95	149	645730	10.26866	ppb	99
78) Fluoranthene	11.69	202	677855	10.96689	ppb	98
80) Benzidine	11.87	184	134874	11.03349	ppb	# 98
81) Pyrene	11.96	202	706700	12.47354	ppb	100
83) Butyl benzylphthalate	12.71	149	276019	11.28610	ppb	82
84) 3,3'-Dichlorobenzidine.	13.34	252	193787	11.53281	ppb	98
85) Benz (a) anthracene	13.37	228	675902	11.00459	ppb	100
86) Bis (2-ethylhexyl) phthala	13.37	149	376834	10.80604	ppb	98
87) Chrysene	13.41	228	638925	11.66556	ppb	100
88) Di-n-octylphthalate	14.10	149	617175	11.00300	ppb	# 95
90) Benzo (b) fluoranthene	14.62	252	652864	11.02209	ppb	98
91) Benzo (k) fluoranthene	14.66	252	618688	10.63284	ppb	99
92) Benzo (a) pyrene	15.06	252	598712	11.02449	ppb	99
93) Indeno (1,2,3-cd) pyrene	16.89	276	663063	10.66455	ppb	99
94) Dibenz (a,h) anthracene	16.89	278	581544	10.86152	ppb	97
95) Benzo (g,h,i) perylene	17.42	276	513851	10.72960	ppb	97

(#) = qualifier out of range (m) = manual integration

0722Y005.D Y0722NC.M

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Quantitation Report

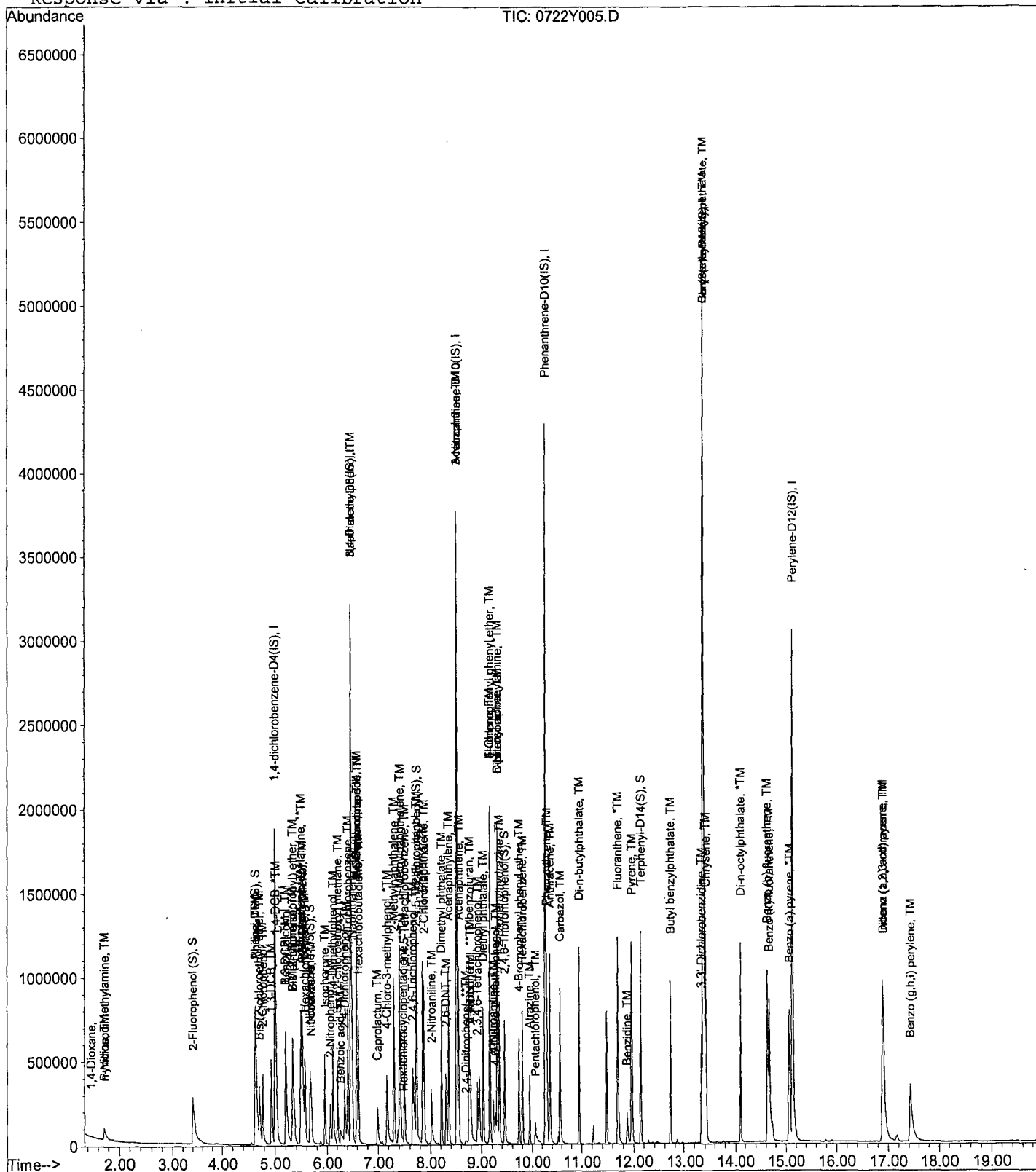
Data File : M:\YODA\DATA\Y190722\0722Y005.D
Acq On : 22 Jul 19 14:57
Sample : 10ug/ml 8270 07/12/19
Misc :

Vial: 5
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y006.D
 Acq On : 22 Jul 19 15:25
 Sample : 20ug/ml 8270 07/12/19
 Misc :

Vial: 6
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:24 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:35:45 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	449552	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.47	136	1802981	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.51	164	964305	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1897463	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.38	240	1747780	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.13	264	1861922	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.39	112	621052	42.38162	ppb	0.00
Spiked Amount 200.000			Recovery =	21.191%		
6) Phenol-D6 (S)	4.62	99	710958	38.92898	ppb	0.00
Spiked Amount 200.000			Recovery =	19.465%		
22) Nitrobenzene-D5 (S)	5.66	82	293880	18.43391	ppb	0.00
Spiked Amount 100.000			Recovery =	18.434%		
46) 2-Fluorobiphenyl (S)	7.72	172	763550	22.36569	ppb	0.00
Spiked Amount 100.000			Recovery =	22.366%		
64) 2,4,6-Tribromophenol (S)	9.45	330	214535	43.17647	ppb	0.00
Spiked Amount 200.000			Recovery =	21.588%		
82) Terphenyl-D14 (S)	12.13	244	900378	22.14400	ppb	0.00
Spiked Amount 100.000			Recovery =	22.144%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.48	58	1648m	0.88374		80
3) n-Nitrosodimethylamine	1.71	42	42917	14.96771	ppb	100
4) Pyridine	1.72	79	98578	13.80773	ppb	99
7) Phenol	4.64	94	446508	20.63998	ppb	90
8) Aniline	4.64	93	440648	20.91034	ppb	93
9) Bis (2-chloroethyl) ether	4.72	63	183864	20.07352	ppb	93
10) 2-Chlorophenol	4.77	128	343946	21.84518	ppb	99
11) 1,3-DCB	4.94	146	389026	21.62523	ppb	99
12) 1,4-DCB	5.02	146	391367	21.20206	ppb	98
13) Benzyl alcohol	5.20	108	195279	21.31291	ppb	99
14) 1,2-DCB	5.20	146	367155	21.30852	ppb	100
15) 2-Methylphenol	5.34	107	282308	21.41553	ppb	99
16) Bis (2-chloroisopropyl) et	5.33	45	301306	22.29018	ppb	100
17) Acetophenone	5.50	105	416480	20.44387	ppb	99
18) 3&4-Methylphenol	5.51	107	672559	41.30778	ppb	96
19) n-Nitrosodi-n-propylamine	5.49	70	203852	18.30232	ppb	98
20) Hexachloroethane	5.57	117	132666	20.24942	ppb	87
23) Nitrobenzene	5.69	77	310328	19.73878	ppb	100
24) Isophorone	5.96	82	545427	20.21318	ppb	93
25) 2-Nitrophenol	6.05	139	198818	22.97458	ppb	98
26) 2,4-Dimethylphenol	6.11	122	305159	22.08551	ppb	96
27) Benzoic acid	6.28	105	188388	20.99445	ppb	99
28) Bis (2-chloroethoxy) metha	6.21	93	357892	20.77128	ppb	99
29) 2,4-Dichlorophenol	6.34	162	290242	22.00669	ppb	99
30) 1,2,4-Trichlorobenzene	6.41	180	318460	21.83786	ppb	99
31) 3,4-Dimethylphenol	6.46	107	393672	20.78517	ppb	100
32) Naphthalene	6.50	128	980235	21.46596	ppb	99
33) 4-Chloroaniline	6.58	127	390582	22.20900	ppb	98
34) 2,6-Dichlorophenol	6.58	162	280825	20.71247	ppb	95
35) Hexachloropropene	6.59	213	181367	19.70641	ppb	98
36) Hexachlorobutadiene	6.63	225	173617	20.51095	ppb	98
37) Caprolactum	7.00	55	115507	22.14199	ppb	97

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y190722\0722Y006.D
 Acq On : 22 Jul 19 15:25
 Sample : 20ug/ml 8270 07/12/19
 Misc :

Vial: 6
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:24 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:35:45 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	279488	21.88345	ppb	96
39) 2-Methylnaphthalene	7.31	142	656540	21.86293	ppb	100
40) 1-Methylnaphthalene	7.42	142	680952	21.73171	ppb	99
42) Hexachlorocyclopentadiene	7.47	237	20014	9.00713	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	312157	22.46685	ppb	99
44) 2,4,6-Trichlorophenol	7.65	196	196020	21.92008	ppb	98
45) 2,4,5-Trichlorophenol	7.71	196	205225	22.58273	ppb	# 92
47) 1,1'-Biphenyl	7.84	154	863483	23.56739	ppb	99
48) 2-Chloronaphthalene	7.87	162	664035	23.11887	ppb	98
49) 2-Nitroaniline	8.01	65	160806	22.35194	ppb	75
50) Dimethyl phthalate	8.22	163	771706	23.61613	ppb	99
51) 2,6-DNT	8.30	165	182224	24.56230	ppb	87
52) Acenaphthylene	8.35	152	1041135	23.27316	ppb	99
53) 3-Nitroaniline	8.50	138	191925	23.76800	ppb	# 94
54) Acenaphthene	8.55	154	661848	23.47669	ppb	99
55) 2,4-Dinitrophenol	8.69	184	58621	21.10917	ppb	99
56) 4-Nitrophenol	8.76	65	81765	20.33701	ppb	99
57) Dibenzofuran	8.76	168	961022	23.51400	ppb	99
58) 2,4-DNT	8.78	165	246842	24.44539	ppb	92
59) 2,3,4,6-Tetrachlorophenol	8.92	232	156036	22.21520	ppb	95
60) Diethyl phthalate	9.04	149	729998	22.89770	ppb	96
61) 4-Chlorophenyl phenyl ethe	9.16	204	397101	23.57686	ppb	95
62) Fluorene	9.16	166	767871	22.56788	ppb	100
63) 4-Nitroaniline	9.23	138	182373	24.15923	ppb	99
66) 4,6-Dinitro-2-methylphenol	9.26	198	135701	23.14173	ppb	90
67) Diphenyl amine	9.31	169	1193523	40.56691	ppb	99
68) n-Nitrosodiphenylamine	9.31	169	1193523	40.56691	ppb	99
69) 1,2-Diphenylhydrazine	9.35	77	614556	16.94529	ppb	92
70) 4-Bromophenyl phenyl ether	9.73	248	229332	20.31854	ppb	# 89
71) Hexachlorobenzene	9.80	284	235010	19.93434	ppb	91
72) Atrazine	9.94	200	104560	10.59176	ppb	97
73) Pentachlorophenol	10.06	266	67449	17.12180	ppb	98
74) Phenanthrene	10.30	178	1120875	20.83761	ppb	99
75) Anthracene	10.35	178	1152872	20.67272	ppb	99
76) Carbazol	10.56	167	1082419	21.30729	ppb	99
77) Di-n-butylphthalate	10.95	149	1242593	21.19757	ppb	98
78) Fluoranthene	11.70	202	1248728	21.67249	ppb	99
80) Benzidine	11.87	184	285936	25.35762	ppb	100
81) Pyrene	11.96	202	1278897	24.47063	ppb	100
83) Butyl benzylphthalate	12.71	149	529453	23.46862	ppb	90
84) 3,3'-Dichlorobenzidine	13.34	252	373113	24.07165	ppb	98
85) Benz (a) anthracene	13.37	228	1187579	20.96079	ppb	99
86) Bis (2-ethylhexyl) phthala	13.37	149	687482	21.37139	ppb	# 94
87) Chrysene	13.41	228	1177980	23.31570	ppb	99
88) Di-n-octylphthalate	14.10	149	1213653	23.45593	ppb	96
90) Benzo (b) fluoranthene	14.62	252	1179913	21.23023	ppb	99
91) Benzo (k) fluoranthene	14.66	252	1187138	21.74414	ppb	99
92) Benzo (a) pyrene	15.06	252	1103210	21.65022	ppb	100
93) Indeno (1,2,3-cd) pyrene	16.88	276	1249836	21.42418	ppb	99
94) Dibenz (a,h) anthracene	16.90	278	1096810	21.83247	ppb	99
95) Benzo (g,h,i) perylene	17.41	276	976213	21.72473	ppb	97

Quantitation Report

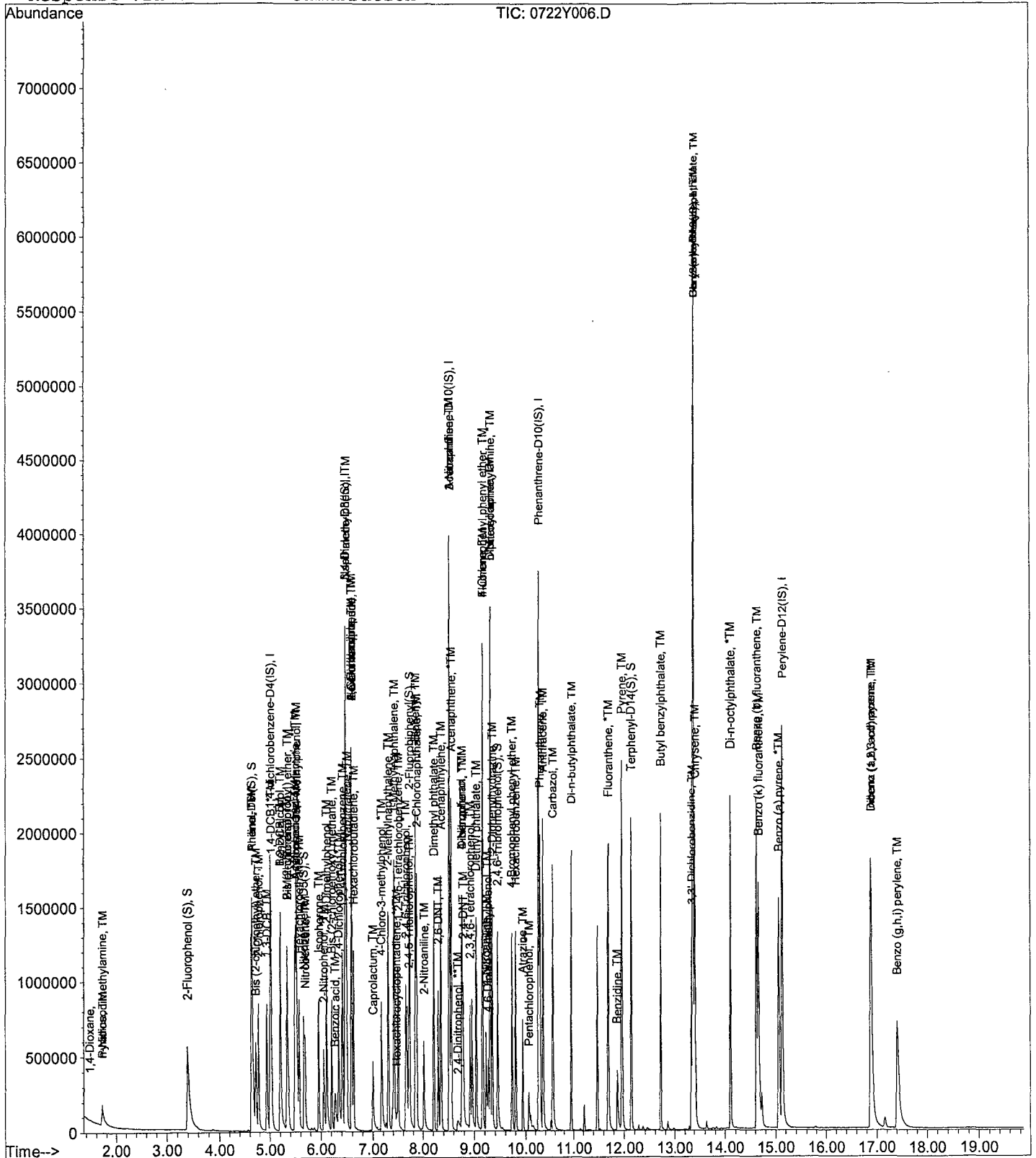
Data File : M:\YODA\DATA\Y190722\0722Y006.D
Acq On : 22 Jul 19 15:25
Sample : 20ug/ml 8270 07/12/19
Misc :

Vial: 6
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 23 8:24 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y007.D
 Acq On : 22 Jul 19 15:53
 Sample : 40ug/ml 8270 07/12/19
 Misc :

Vial: 7
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:35:45 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.01	152	434901	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.48	136	1695022	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	914739	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.26	188	1808689	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.38	240	1597421	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.13	264	1728792	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.39	112	1119111	78.94276	ppb	0.00
Spiked Amount 200.000			Recovery =	39.472%		
6) Phenol-D6 (S)	4.63	99	1197551	67.78173	ppb	0.00
Spiked Amount 200.000			Recovery =	33.891%		
22) Nitrobenzene-D5 (S)	5.67	82	502567	33.53182	ppb	0.00
Spiked Amount 100.000			Recovery =	33.532%		
46) 2-Fluorobiphenyl (S)	7.73	172	1272238	39.28534	ppb	0.00
Spiked Amount 100.000			Recovery =	39.285%		
64) 2,4,6-Tribromophenol (S)	9.46	330	377413	80.07245	ppb	0.00
Spiked Amount 200.000			Recovery =	40.036%		
82) Terphenyl-D14 (S)	12.14	244	1527109	41.09307	ppb	0.00
Spiked Amount 100.000			Recovery =	41.093%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.47	58	4540	2.51660		65
3) n-Nitrosodimethylamine	1.70	42	76662	27.63731	ppb	97
4) Pyridine	1.71	79	196073	28.38897	ppb	100
7) Phenol	4.64	94	783151	37.42097	ppb	96
8) Aniline	4.64	93	768066	37.67536	ppb	97
9) Bis (2-chloroethyl) ether	4.71	63	328033	37.01978	ppb	100
10) 2-Chlorophenol	4.77	128	618839	40.62866	ppb	98
11) 1,3-DCB	4.94	146	700322	40.24107	ppb	99
12) 1,4-DCB	5.03	146	697138	39.03931	ppb	99
13) Benzyl alcohol	5.20	108	346844	39.13009	ppb	98
14) 1,2-DCB	5.20	146	649790	38.98221	ppb	99
15) 2-Methylphenol	5.34	107	485009	38.03163	ppb	99
16) Bis (2-chloroisopropyl) et	5.34	45	507545	38.81235	ppb #	76
17) Acetophenone	5.49	105	710778	36.06555	ppb	99
18) 3&4-Methylphenol	5.52	107	1163600	73.87452	ppb	100
19) n-Nitrosodi-n-propylamine	5.49	70	350166	32.49785	ppb	99
20) Hexachloroethane	5.58	117	233873	36.89968	ppb	98
23) Nitrobenzene	5.69	77	536348	36.28789	ppb	100
24) Isophorone	5.96	82	936672	36.92336	ppb	100
25) 2-Nitrophenol	6.05	139	361620	44.44882	ppb	98
26) 2,4-Dimethylphenol	6.12	122	529260	40.74423	ppb	99
27) Benzoic acid	6.30	105	376966	44.68576	ppb	99
28) Bis (2-chloroethoxy) metha	6.21	93	610238	37.67266	ppb	99
29) 2,4-Dichlorophenol	6.34	162	505958	40.80606	ppb	99
30) 1,2,4-Trichlorobenzene	6.41	180	555093	40.48897	ppb	100
31) 3,4-Dimethylphenol	6.46	107	672769	37.78339	ppb	99
32) Naphthalene	6.51	128	1716939	39.99363	ppb	99
33) 4-Chloroaniline	6.59	127	657855	39.78899	ppb	95
34) 2,6-Dichlorophenol	6.59	162	478938	37.57433	ppb	99
35) Hexachloropropene	6.59	213	326106	37.68980	ppb	98
36) Hexachlorobutadiene	6.63	225	306496	38.51538	ppb	99
37) Caprolactum	7.02	55	200683	40.91992	ppb	99

Data File : M:\YODA\DATA\Y190722\0722Y007.D
 Acq On : 22 Jul 19 15:53
 Sample : 40ug/ml 8270 07/12/19
 Misc :

Vial: 7
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:35:45 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	495664	41.28153	ppb	87
39) 2-Methylnaphthalene	7.30	142	1152682	40.82936	ppb	99
40) 1-Methylnaphthalene	7.41	142	1165727	39.57220	ppb	99
42) Hexachlorocyclopentadiene	7.47	237	76358	36.22632	ppb	97
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	549442	41.68773	ppb	99
44) 2,4,6-Trichlorophenol	7.66	196	345048	40.67603	ppb	99
45) 2,4,5-Trichlorophenol	7.71	196	358588	41.59672	ppb	99
47) 1,1'-Biphenyl	7.85	154	1489253	42.84926	ppb	100
48) 2-Chloronaphthalene	7.87	162	1154950	42.38927	ppb	99
49) 2-Nitroaniline	8.02	65	282501	41.39521	ppb	95
50) Dimethyl phthalate	8.22	163	1334879	43.06415	ppb	100
51) 2,6-DNT	8.31	165	326631	46.41282	ppb	99
52) Acenaphthylene	8.35	152	1793911	42.27332	ppb	100
53) 3-Nitroaniline	8.51	138	344090	44.92110	ppb	# 86
54) Acenaphthene	8.56	154	1117569	41.78979	ppb	99
55) 2,4-Dinitrophenol	8.66	184	141841	53.84396	ppb	91
56) 4-Nitrophenol	8.76	65	145397	38.12346	ppb	98
57) Dibenzofuran	8.76	168	1645161	42.43447	ppb	97
58) 2,4-DNT	8.79	165	437148	45.63768	ppb	84
59) 2,3,4,6-Tetrachlorophenol	8.92	232	287070	43.08542	ppb	96
60) Diethyl phthalate	9.04	149	1250583	41.35233	ppb	100
61) 4-Chlorophenyl phenyl ethe	9.16	204	663552	41.53145	ppb	97
62) Fluorene	9.16	166	1287866	39.90160	ppb	99
63) 4-Nitroaniline	9.23	138	321115	44.84359	ppb	97
66) 4,6-Dinitro-2-methylphenol	9.27	198	264226	41.45764	ppb	96
67) Diphenyl amine	9.32	169	2026579	72.26269	ppb	99
68) n-Nitrosodiphenylamine	9.32	169	2026579	72.26269	ppb	99
69) 1,2-Diphenylhydrazine	9.36	77	1066020	30.83630	ppb	# 86
70) 4-Bromophenyl phenyl ether	9.74	248	399585	37.14038	ppb	96
71) Hexachlorobenzene	9.81	284	418506	37.24146	ppb	# 85
72) Atrazine	9.95	200	188506	20.03259	ppb	99
73) Pentachlorophenol	10.06	266	133571	35.57096	ppb	98
74) Phenanthrene	10.29	178	1932971	37.69861	ppb	100
75) Anthracene	10.36	178	2024333	38.08097	ppb	100
76) Carbazol	10.56	167	1847970	38.16254	ppb	99
77) Di-n-butylphthalate	10.95	149	2149590	38.47001	ppb	100
78) Fluoranthene	11.69	202	2142695	39.01313	ppb	98
80) Benzidine	11.87	184	539867	52.38342	ppb	99
81) Pyrene	11.96	202	2224463	46.56956	ppb	100
83) Butyl benzylphthalate	12.72	149	961739	46.64281	ppb	97
84) 3,3'-Dichlorobenzidine	13.34	252	657231	46.39284	ppb	99
85) Benz (a) anthracene	13.37	228	2025192	39.10918	ppb	100
86) Bis (2-ethylhexyl) phthala	13.37	149	1187159	40.37828	ppb	98
87) Chrysene	13.41	228	2010912	43.54828	ppb	100
88) Di-n-octylphthalate	14.11	149	2246023	47.49410	ppb	99
90) Benzo (b) fluoranthene	14.62	252	1994855	38.65759	ppb	99
91) Benzo (k) fluoranthene	14.66	252	2164247	42.69398	ppb	100
92) Benzo (a) pyrene	15.06	252	1968144	41.59870	ppb	99
93) Indeno (1,2,3-cd) pyrene	16.88	276	2256782	41.66386	ppb	99
94) Dibenz (a,h) anthracene	16.89	278	1972383	42.28453	ppb	98
95) Benzo (g,h,i) perylene	17.40	276	1774127	42.52196	ppb	99

(#) = qualifier out of range (m) = manual integration
 0722Y007.D Y0722NC.M Tue Jul 23 09:12:35 2019

Quantitation Report

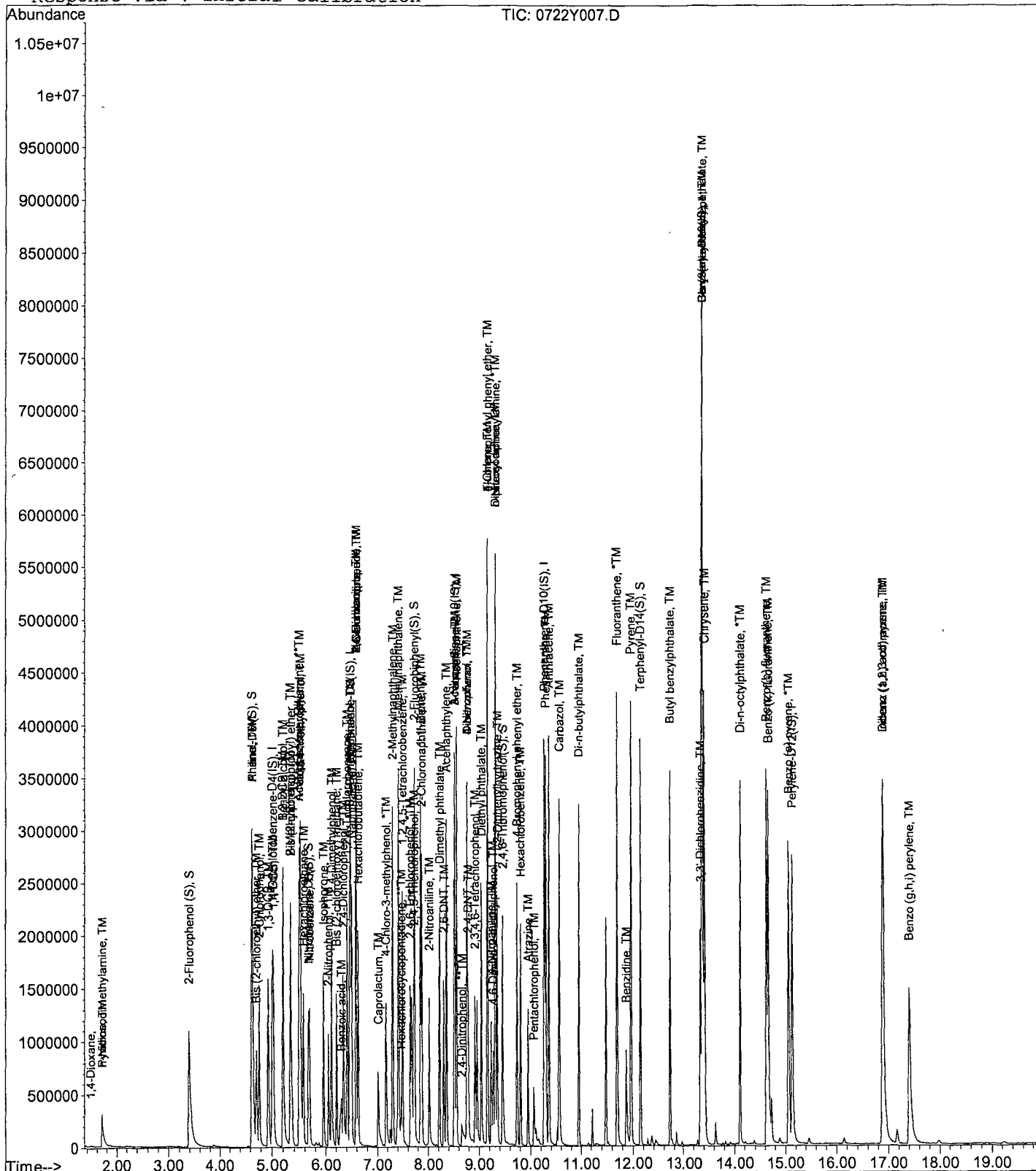
Data File : M:\YODA\DATA\Y190722\0722Y007.D
 Acq On : 22 Jul 19 15:53
 Sample : 40ug/ml 8270 07/12/19
 Misc :

Vial: 7
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y008.D Vial: 8
 Acq On : 22 Jul 19 16:21 Operator: MA, SS
 Sample : 50ug/ml 8270 07/12/19 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:35:45 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.01	152	416163	40.00000	ppb	0.00
21) Naphthalene-D8 (IS)	6.48	136	1667918	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	906758	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1797614	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.38	240	1541141	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.13	264	1693655	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.39	112	1336934	98.55440	ppb	0.00
Spiked Amount 200.000			Recovery =	49.277%		
6) Phenol-D6 (S)	4.63	99	1429162	84.53315	ppb	0.00
Spiked Amount 200.000			Recovery =	42.267%		
22) Nitrobenzene-D5 (S)	5.67	82	605450	41.05274	ppb	0.00
Spiked Amount 100.000			Recovery =	41.053%		
46) 2-Fluorobiphenyl (S)	7.73	172	1551277	48.32338	ppb	0.00
Spiked Amount 100.000			Recovery =	48.323%		
64) 2,4,6-Tribromophenol (S)	9.46	330	472040	101.03012	ppb	0.00
Spiked Amount 200.000			Recovery =	50.515%		
82) Terphenyl-D14 (S)	12.14	244	1857213	51.80090	ppb	0.00
Spiked Amount 100.000			Recovery =	51.801%		

Target Compounds

					Qvalue
2) 1,4-Dioxane	1.47	58	5936	3.43857	100
3) n-Nitrosodimethylamine	1.70	42	87948	33.13359	ppb 100
4) Pyridine	1.71	79	232128	35.12257	ppb 100
7) Phenol	4.64	94	967072	48.28978	ppb 100
8) Aniline	4.64	93	932390	47.79511	ppb 100
9) Bis (2-chloroethyl) ether	4.71	63	404530	47.70830	ppb 100
10) 2-Chlorophenol	4.77	128	770270	52.84754	ppb 100
11) 1,3-DCB	4.94	146	853552	51.25410	ppb 100
12) 1,4-DCB	5.03	146	862586	50.47923	ppb 100
13) Benzyl alcohol	5.20	108	433088	51.05988	ppb 100
14) 1,2-DCB	5.20	146	793816	49.76685	ppb 100
15) 2-Methylphenol	5.34	107	603605	49.46237	ppb 100
16) Bis (2-chloroisopropyl) et	5.33	45	620953	49.62277	ppb 100
17) Acetophenone	5.49	105	891156	47.25407	ppb 100
18) 3&4-Methylphenol	5.52	107	1430006	94.87586	ppb 100
19) n-Nitrosodi-n-propylamine	5.49	70	437552	42.43627	ppb 100
20) Hexachloroethane	5.58	117	286440	47.22839	ppb 100
23) Nitrobenzene	5.69	77	668853	45.98820	ppb 100
24) Isophorone	5.96	82	1184028	47.43253	ppb 100
25) 2-Nitrophenol	6.05	139	448046	55.96687	ppb 100
26) 2,4-Dimethylphenol	6.12	122	667102	52.19031	ppb 100
27) Benzoic acid	6.31	105	483571	58.25429	ppb 100
28) Bis (2-chloroethoxy) metha	6.21	93	769152	48.25472	ppb 100
29) 2,4-Dichlorophenol	6.34	162	642141	52.63096	ppb 100
30) 1,2,4-Trichlorobenzene	6.41	180	693411	51.39991	ppb 100
31) 3,4-Dimethylphenol	6.46	107	843939	48.16667	ppb 100
32) Naphthalene	6.50	128	2079691	49.23063	ppb 100
33) 4-Chloroaniline	6.58	127	797949	49.04655	ppb 100
34) 2,6-Dichlorophenol	6.59	162	587514	46.84150	ppb 100
35) Hexachloropropene	6.59	213	401911	47.20583	ppb 100
36) Hexachlorobutadiene	6.63	225	382861	48.89350	ppb 100
37) Caprolactum	7.03	55	247891	51.36717	ppb 100

(#) = qualifier out of range (m) = manual integration

0722Y008.D Y0722NC.M

Tue Jul 23 09:12:41 2019

Data File : M:\YODA\DATA\Y190722\0722Y008.D
 Acq On : 22 Jul 19 16:21
 Sample : 50ug/ml 8270 07/12/19
 Misc :

Vial: 8
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:35:45 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.16	107	619188	52.40727	ppb	100
39) 2-Methylnaphthalene	7.30	142	1424143	51.26456	ppb	100
40) 1-Methylnaphthalene	7.42	142	1459621	50.35401	ppb	100
42) Hexachlorocyclopentadiene	7.47	237	119645	57.26246	ppb	100
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	683965	52.35113	ppb	100
44) 2,4,6-Trichlorophenol	7.65	196	433619	51.56715	ppb	100
45) 2,4,5-Trichlorophenol	7.71	196	461388	53.99275	ppb	100
47) 1,1'-Biphenyl	7.85	154	1856166	53.87627	ppb	100
48) 2-Chloronaphthalene	7.87	162	1418291	52.51265	ppb	100
49) 2-Nitroaniline	8.02	65	349763	51.70229	ppb	100
50) Dimethyl phthalate	8.22	163	1666226	54.22677	ppb	100
51) 2,6-DNT	8.31	165	410703	58.87274	ppb	100
52) Acenaphthylene	8.35	152	2235476	53.14241	ppb	100
53) 3-Nitroaniline	8.50	138	434614	57.23845	ppb	100
54) Acenaphthene	8.56	154	1390142	52.43978	ppb	100
55) 2,4-Dinitrophenol	8.66	184	198431	75.98897	ppb	100
56) 4-Nitrophenol	8.75	65	185306	49.01536	ppb	100
57) Dibenzofuran	8.76	168	2046345	53.24699	ppb	100
58) 2,4-DNT	8.78	165	554698	58.41945	ppb	100
59) 2,3,4,6-Tetrachlorophenol	8.92	232	366798	55.53609	ppb	100
60) Diethyl phthalate	9.04	149	1579664	52.69361	ppb	100
61) 4-Chlorophenyl phenyl ethe	9.16	204	815907	51.51677	ppb	100
62) Fluorene	9.16	166	1578062	49.32301	ppb	100
63) 4-Nitroaniline	9.24	138	403717	56.87516	ppb	100
66) 4,6-Dinitro-2-methylphenol	9.27	198	342958	52.43640	ppb	100
67) Diphenyl amine	9.32	169	2480968	89.01008	ppb	100
68) n-Nitrosodiphenylamine	9.32	169	2480968	89.01008	ppb	100
69) 1,2-Diphenylhydrazine	9.35	77	1530807	44.55380	ppb	100
70) 4-Bromophenyl phenyl ether	9.74	248	510638	47.75488	ppb	100
71) Hexachlorobenzene	9.80	284	528160	47.28876	ppb	100
72) Atrazine	9.95	200	239643	25.62383	ppb	100
73) Pentachlorophenol	10.06	266	177793	47.63931	ppb	100
74) Phenanthrene	10.29	178	2415787	47.40522	ppb	100
75) Anthracene	10.36	178	2512868	47.56233	ppb	100
76) Carbazol	10.56	167	2335501	48.52771	ppb	100
77) Di-n-butylphthalate	10.95	149	2629794	47.35391	ppb	100
78) Fluoranthene	11.70	202	2668320	48.88277	ppb	100
80) Benzidine	11.87	184	700290	70.43070	ppb	100
81) Pyrene	11.96	202	2748798	59.64812	ppb	100
83) Butyl benzylphthalate	12.72	149	1204617	60.55548	ppb	100
84) 3,3'-Dichlorobenzidine	13.34	252	814912	59.62393	ppb	100
85) Benz (a) anthracene	13.37	228	2482336	49.68783	ppb	100
86) Bis (2-ethylhexyl) phthala	13.38	149	1456149	51.33597	ppb	100
87) Chrysene	13.41	228	2483977	55.75741	ppb	100
88) Di-n-octylphthalate	14.11	149	2780018	60.93265	ppb	100
90) Benzo (b) fluoranthene	14.62	252	2538404	50.21136	ppb	100
91) Benzo (k) fluoranthene	14.66	252	2627814	52.91419	ppb	100
92) Benzo (a) pyrene	15.06	252	2445138	52.75262	ppb	100
93) Indeno (1,2,3-cd) pyrene	16.88	276	2828859	53.30882	ppb	100
94) Dibenz (a,h) anthracene	16.89	278	2475329	54.16778	ppb	100
95) Benzo (g,h,i) perylene	17.40	276	2242403	54.86054	ppb	100

Quantitation Report

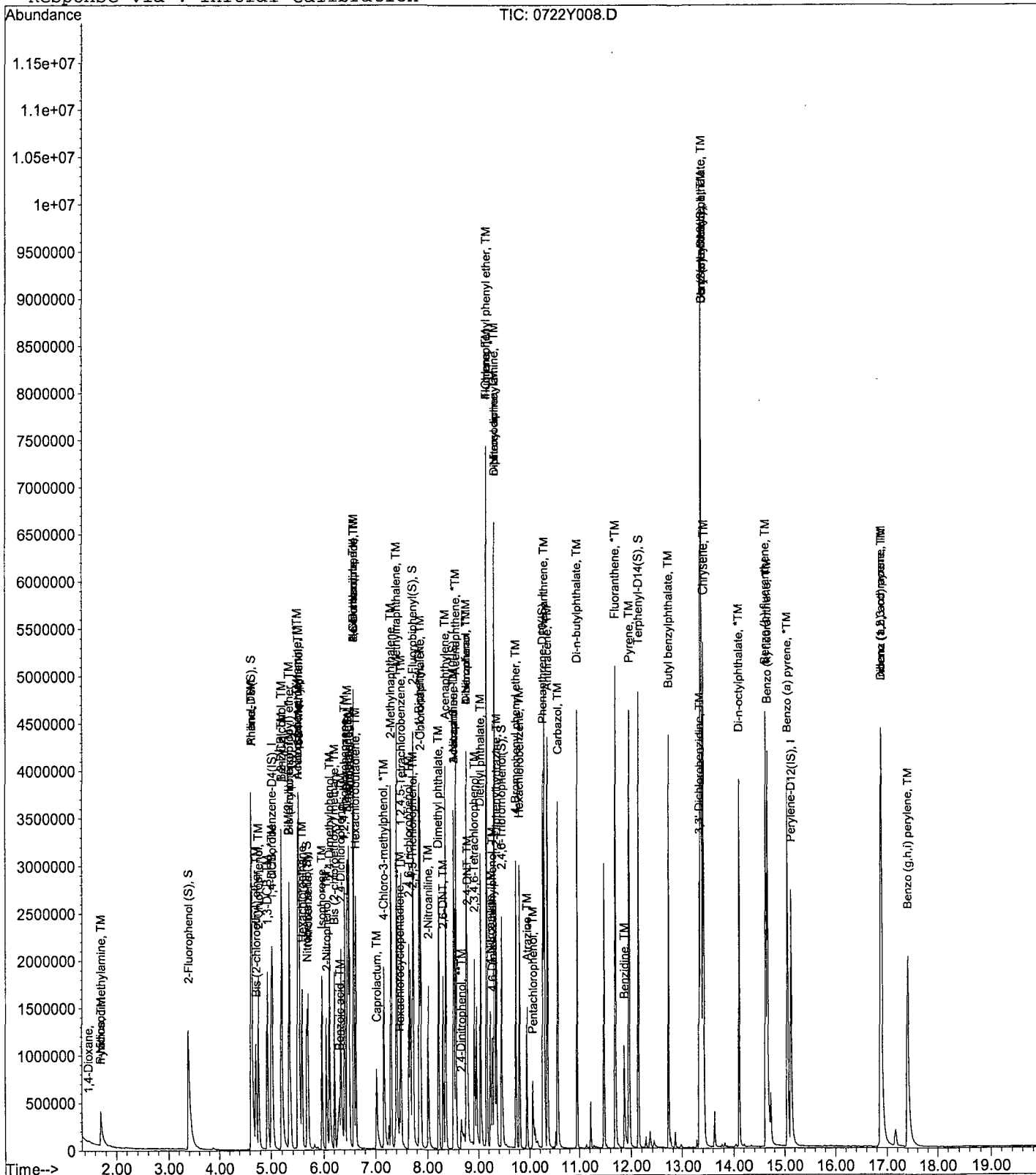
Data File : M:\YODA\DATA\Y190722\0722Y008.D
Acq On : 22 Jul 19 16:21
Sample : 50ug/ml 8270 07/12/19
Misc :

Vial: 8
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y190722\0722Y009.D Vial: 9
 Acq On : 22 Jul 19 16:49 Operator: MA,SS
 Sample : 60ug/ml 8270 07/12/19 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Jul 23 8:45 2019 Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:38:07 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	437675	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.48	136	1720406	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.51	164	937619	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1842343	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.39	240	1607541	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.13	264	1780829	40.00000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol (S)	3.38	112	1612028	107.20956	ppb	0.00
Spiked Amount 200.000			Recovery =	53.605%		
6) Phenol-D6 (S)	4.62	99	1692233	95.57774	ppb	0.00
Spiked Amount 200.000			Recovery =	47.789%		
22) Nitrobenzene-D5 (S)	5.66	82	718067	49.13574	ppb	0.00
Spiked Amount 100.000			Recovery =	49.136%		
46) 2-Fluorobiphenyl (S)	7.73	172	1802151	49.66287	ppb	0.00
Spiked Amount 100.000			Recovery =	49.663%		
64) 2,4,6-Tribromophenol (S)	9.46	330	562766	109.26102	ppb	0.00
Spiked Amount 200.000			Recovery =	54.630%		
82) Terphenyl-D14 (S)	12.14	244	2192539	53.48439	ppb	0.00
Spiked Amount 100.000			Recovery =	53.484%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.48	58	6942m	4.52687		45
3) n-Nitrosodimethylamine	1.70	42	121038	54.00330	ppb	97
4) Pyridine	1.71	79	284393	52.07852	ppb	100
7) Phenol	4.64	94	1145828	54.28248	ppb	94
8) Aniline	4.63	93	1121005	54.05728	ppb	# 85
9) Bis (2-chloroethyl) ether	4.72	63	491483	55.21180	ppb	97
10) 2-Chlorophenol	4.77	128	920952	57.12711	ppb	99
11) 1,3-DCB	4.93	146	1031789	56.69173	ppb	98
12) 1,4-DCB	5.02	146	1043327	56.83571	ppb	98
13) Benzyl alcohol	5.20	108	522063	56.90191	ppb	100
14) 1,2-DCB	5.20	146	953510	55.39926	ppb	99
15) 2-Methylphenol	5.34	107	729397	55.43086	ppb	99
16) Bis (2-chloroisopropyl) et	5.33	45	735058	52.52482	ppb	# 87
17) Acetophenone	5.49	105	1066834	53.66137	ppb	99
18) 3&4-Methylphenol	5.52	107	1706286	105.76202	ppb	100
19) n-Nitrosodi-n-propylamine	5.49	70	518839	50.77146	ppb	99
20) Hexachloroethane	5.57	117	344927	54.23276	ppb	84
23) Nitrobenzene	5.69	77	803975	55.25210	ppb	98
24) Isophorone	5.97	82	1420690	56.16339	ppb	92
25) 2-Nitrophenol	6.05	139	547766	63.45967	ppb	96
26) 2,4-Dimethylphenol	6.12	122	794617	57.53359	ppb	98
27) Benzoic acid	6.32	105	499109	58.23316	ppb	100
28) Bis (2-chloroethoxy) metha	6.21	93	917851	55.36882	ppb	99
29) 2,4-Dichlorophenol	6.34	162	766243	58.46976	ppb	99
30) 1,2,4-Trichlorobenzene	6.41	180	833371	57.56733	ppb	99
31) 3,4-Dimethylphenol	6.46	107	1015102	55.90949	ppb	99
32) Naphthalene	6.50	128	2507244	55.67213	ppb	100
33) 4-Chloroaniline	6.58	127	935945	53.74350	ppb	99
34) 2,6-Dichlorophenol	6.58	162	692417	52.76459	ppb	97
35) Hexachloropropene	6.59	213	482994	55.43696	ppb	98
36) Hexachlorobutadiene	6.63	225	461712	56.99151	ppb	99
37) Caprolactum	7.04	55	300817	58.55575	ppb	99

Data File : M:\YODA\DATA\Y190722\0722Y009.D
 Acq On : 22 Jul 19 16:49
 Sample : 60ug/ml 8270 07/12/19
 Misc :

Vial: 9
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:45 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:38:07 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	742100	58.38930	ppb	99
39) 2-Methylnaphthalene	7.31	142	1707887	56.78975	ppb	99
40) 1-Methylnaphthalene	7.42	142	1730112	55.23433	ppb	99
42) Hexachlorocyclopentadiene	7.47	237	173882	95.99836	ppb	98
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	819581	57.17759	ppb	99
44) 2,4,6-Trichlorophenol	7.65	196	526860	58.86615	ppb	99
45) 2,4,5-Trichlorophenol	7.70	196	558447	59.42769	ppb	# 93
47) 1,1'-Biphenyl	7.84	154	2186516	55.88384	ppb	# 98
48) 2-Chloronaphthalene	7.87	162	1682772	55.78230	ppb	100
49) 2-Nitroaniline	8.02	65	422122	57.57672	ppb	98
50) Dimethyl phthalate	8.22	163	1988353	57.42611	ppb	98
51) 2,6-DNT	8.31	165	501942	62.17338	ppb	99
52) Acenaphthylene	8.35	152	2688545	57.25804	ppb	100
53) 3-Nitroaniline	8.50	138	510176	59.56709	ppb	100
54) Acenaphthene	8.56	154	1645420	54.98872	ppb	99
55) 2,4-Dinitrophenol	8.65	184	243776m	92.48619	ppb	91
56) 4-Nitrophenol	8.75	65	222218	57.12374	ppb	96
57) Dibenzofuran	8.76	168	2446444	56.48580	ppb	100
58) 2,4-DNT	8.78	165	662711	60.96695	ppb	98
59) 2,3,4,6-Tetrachlorophenol	8.92	232	446533	62.13068	ppb	98
60) Diethyl phthalate	9.04	149	1864739	56.43276	ppb	100
61) 4-Chlorophenyl phenyl ethe	9.16	204	959331	53.53220	ppb	97
62) Fluorene	9.16	166	1836197	52.14519	ppb	99
63) 4-Nitroaniline	9.24	138	491416	60.93816	ppb	99
66) 4,6-Dinitro-2-methylphenol	9.27	198	414952	59.90914	ppb	98
67) Diphenyl amine	9.32	169	2928675	102.65355	ppb	100
68) n-Nitrosodiphenylamine	9.32	169	2928675	102.65355	ppb	100
69) 1,2-Diphenylhydrazine	9.35	77	1842256	55.72450	ppb	98
70) 4-Bromophenyl phenyl ether	9.74	248	619861	56.96373	ppb	96
71) Hexachlorobenzene	9.80	284	632881	56.24004	ppb	96
72) Atrazine	9.95	200	289997	29.32240	ppb	100
73) Pentachlorophenol	10.06	266	217511	61.88485	ppb	99
74) Phenanthrene	10.29	178	2816064	53.11010	ppb	100
75) Anthracene	10.36	178	2937033	53.72686	ppb	100
76) Carbazol	10.56	167	2745559	54.36181	ppb	100
77) Di-n-butylphthalate	10.95	149	3160640	55.24913	ppb	100
78) Fluoranthene	11.70	202	3182581	55.18420	ppb	99
80) Benzidine	11.86	184	887325	75.68119	ppb	98
81) Pyrene	11.97	202	3263914	60.00730	ppb	100
83) Butyl benzylphthalate	12.72	149	1427380	62.33458	ppb	99
84) 3,3'-Dichlorobenzidine	13.34	252	978772	63.06674	ppb	99
85) Benz (a) anthracene	13.37	228	2974744	55.31685	ppb	100
86) Bis (2-ethylhexyl) phthala	13.38	149	1696787	55.39657	ppb	99
87) Chrysene	13.41	228	2893904	57.15954	ppb	99
88) Di-n-octylphthalate	14.10	149	3364339	64.39260	ppb	# 94
90) Benzo (b) fluoranthene	14.62	252	3070425	56.24455	ppb	99
91) Benzo (k) fluoranthene	14.66	252	3073129	56.50474	ppb	100
92) Benzo (a) pyrene	15.06	252	2939565	57.96905	ppb	99
93) Indeno (1,2,3-cd) pyrene	16.89	276	3399948	58.81639	ppb	100
94) Dibenz (a,h) anthracene	16.90	278	2976911	59.57297	ppb	99
95) Benzo (g,h,i) perylene	17.41	276	2685608	59.89385	ppb	99

Quantitation Report

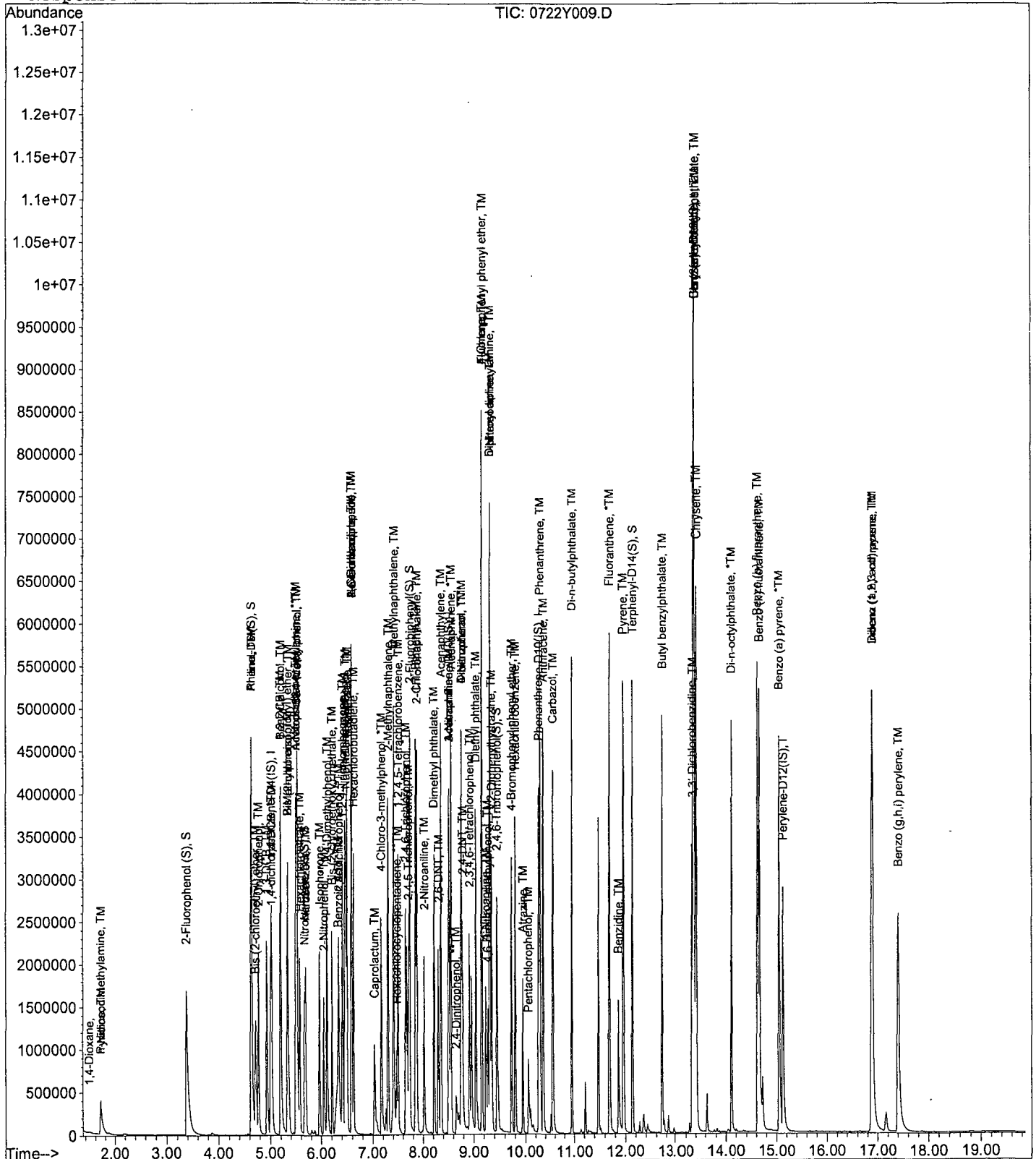
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Acq On : 22 Jul 19 16:49
Sample : 60ug/ml 8270 07/12/19
Misc :

Vial: 9
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 23 8:45 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y010.D
 Acq On : 22 Jul 19 17:17
 Sample : 80ug/ml 8270 07/12/19
 Misc :

Vial: 10
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:46 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 17:50:09 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.01	152	422671	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.48	136	1669353	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	905246	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1837346	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.39	240	1538156	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.14	264	1745092	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.38	112	2066331	146.98991	ppb	0.00
Spiked Amount 200.000			Recovery =	73.495%		
6) Phenol-D6 (S)	4.63	99	2120145	136.12499	ppb	0.00
Spiked Amount 200.000			Recovery =	68.063%		
22) Nitrobenzene-D5 (S)	5.67	82	923542	70.77873	ppb	0.00
Spiked Amount 100.000			Recovery =	70.779%		
46) 2-Fluorobiphenyl (S)	7.73	172	2251275	70.51067	ppb	0.00
Spiked Amount 100.000			Recovery =	70.511%		
64) 2,4,6-Tribromophenol (S)	9.46	330	730628	152.07906	ppb	0.00
Spiked Amount 200.000			Recovery =	76.040%		
82) Terphenyl-D14 (S)	12.14	244	2799653	72.89144	ppb	0.00
Spiked Amount 100.000			Recovery =	72.891%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.47	58	8554	6.67820		91
3) n-Nitrosodimethylamine	1.69	42	162191	82.53792	ppb	87
4) Pyridine	1.70	79	403533	84.37735	ppb	96
7) Phenol	4.65	94	1387486	69.85551	ppb	84
8) Aniline	4.64	93	1426432	73.85061	ppb	# 96
9) Bis (2-chloroethyl) ether	4.72	63	629192	74.33303	ppb	93
10) 2-Chlorophenol	4.77	128	1182620	75.48069	ppb	99
11) 1,3-DCB	4.94	146	1330066	75.32748	ppb	100
12) 1,4-DCB	5.03	146	1333436	75.22611	ppb	100
13) Benzyl alcohol	5.21	108	672312	76.93627	ppb	95
14) 1,2-DCB	5.20	146	1216306	74.02032	ppb	99
15) 2-Methylphenol	5.34	107	943686	75.20546	ppb	99
16) Bis (2-chloroisopropyl) et	5.33	45	928661	69.09613	ppb	96
17) Acetophenone	5.50	105	1375888	73.75039	ppb	97
18) 3&4-Methylphenol	5.52	107	2151118	143.51527	ppb	96
19) n-Nitrosodi-n-propylamine	5.50	70	667264	72.34755	ppb	99
20) Hexachloroethane	5.58	117	446102	74.39339	ppb	100
23) Nitrobenzene	5.69	77	1033417	75.27100	ppb	97
24) Isophorone	5.97	82	1864699	77.32981	ppb	99
25) 2-Nitrophenol	6.05	139	711440	82.41463	ppb	98
26) 2,4-Dimethylphenol	6.12	122	1036273	76.90910	ppb	98
27) Benzoic acid	6.34	105	663728	80.71664	ppb	98
28) Bis (2-chloroethoxy) metha	6.22	93	1187960	74.87666	ppb	97
29) 2,4-Dichlorophenol	6.34	162	989795	77.42557	ppb	99
30) 1,2,4-Trichlorobenzene	6.41	180	1081322	76.44216	ppb	99
31) 3,4-Dimethylphenol	6.46	107	1306929	75.13868	ppb	98
32) Naphthalene	6.51	128	3204627	73.84697	ppb	99
33) 4-Chloroaniline	6.59	127	1124848	68.68776	ppb	96
34) 2,6-Dichlorophenol	6.59	162	873852	71.34942	ppb	98
35) Hexachloropropene	6.59	213	622217	77.34861	ppb	99
36) Hexachlorobutadiene	6.63	225	598302	77.18330	ppb	99
37) Caprolactum	7.05	55	400377	79.22139	ppb	99

Data File : M:\YODA\DATA\Y190722\0722Y010.D
 Acq On : 22 Jul 19 17:17
 Sample : 80ug/ml 8270 07/12/19
 Misc :

Vial: 10
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:46 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 17:50:09 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	980242	78.62503	ppb	92
39) 2-Methylnaphthalene	7.30	142	2160923	74.31757	ppb	99
40) 1-Methylnaphthalene	7.42	142	2210853	73.48526	ppb	99
42) Hexachlorocyclopentadiene	7.47	237	279754	82.81229	ppb	100
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	1065201	76.30187	ppb	99
44) 2,4,6-Trichlorophenol	7.66	196	696744	80.10084	ppb	99
45) 2,4,5-Trichlorophenol	7.71	196	731505	79.10127	ppb	99
47) 1,1'-Biphenyl	7.85	154	2771620	72.56990	ppb	98
48) 2-Chloronaphthalene	7.88	162	2170777	74.02629	ppb	97
49) 2-Nitroaniline	8.02	65	550085	77.24621	ppb	91
50) Dimethyl phthalate	8.22	163	2601608	76.30355	ppb	99
51) 2,6-DNT	8.31	165	651434	80.34710	ppb	87
52) Acenaphthylene	8.35	152	3415852	74.51654	ppb	100
53) 3-Nitroaniline	8.51	138	657807	77.55445	ppb	93
54) Acenaphthene	8.56	154	2112619	72.61464	ppb	100
55) 2,4-Dinitrophenol	8.66	184	358399m	105.36927	ppb	97
56) 4-Nitrophenol	8.75	65	290526	78.78486	ppb	94
57) Dibenzofuran	8.76	168	3130346	74.00607	ppb	95
58) 2,4-DNT	8.79	165	868084	80.28114	ppb	89
59) 2,3,4,6-Tetrachlorophenol	8.92	232	596505	84.18512	ppb	98
60) Diethyl phthalate	9.05	149	2398508	74.55840	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.16	204	1212449	70.99473	ppb	96
62) Fluorene	9.17	166	2322746	70.29886	ppb	98
63) 4-Nitroaniline	9.25	138	642323	79.55641	ppb	100
66) 4,6-Dinitro-2-methylphenol	9.28	198	573201	88.99629	ppb	98
67) Diphenyl amine	9.32	169	3722897	138.64184	ppb	100
68) n-Nitrosodiphenylamine	9.32	169	3722897	138.64184	ppb	100
69) 1,2-Diphenylhydrazine	9.36	77	2320560	74.95643	ppb	# 89
70) 4-Bromophenyl phenyl ether	9.74	248	804711	76.13385	ppb	95
71) Hexachlorobenzene	9.81	284	847147	77.57710	ppb	# 86
72) Atrazine	9.95	200	386725	39.34956	ppb	96
73) Pentachlorophenol	10.06	266	307047	91.51224	ppb	97
74) Phenanthrene	10.29	178	3658631	71.50259	ppb	100
75) Anthracene	10.36	178	3780700	71.82454	ppb	99
76) Carbazol	10.56	167	3553229	72.57597	ppb	98
77) Di-n-butylphthalate	10.95	149	4087803	74.14917	ppb	99
78) Fluoranthene	11.70	202	4058534	72.53278	ppb	98
80) Benzidine	11.87	184	1144628	90.77728	ppb	100
81) Pyrene	11.97	202	4171708	76.89439	ppb	99
83) Butyl benzylphthalate	12.72	149	1831013	80.18500	ppb	93
84) 3,3'-Dichlorobenzidine	13.35	252	1258051	80.93991	ppb	# 98
85) Benz (a) anthracene	13.38	228	3740129	74.00832	ppb	100
86) Bis (2-ethylhexyl) phthala	13.38	149	2063704	71.62398	ppb	99
87) Chrysene	13.41	228	3770245	76.35309	ppb	99
88) Di-n-octylphthalate	14.11	149	4235223	80.94007	ppb	98
90) Benzo (b) fluoranthene	14.63	252	4354959	81.71693	ppb	98
91) Benzo (k) fluoranthene	14.67	252	3680501	70.55089	ppb	98
92) Benzo (a) pyrene	15.07	252	3864242	78.12166	ppb	98
93) Indeno (1,2,3-cd) pyrene	16.89	276	4483596	79.28853	ppb	99
94) Dibenz (a,h) anthracene	16.91	278	3879445	79.55640	ppb	98
95) Benzo (g,h,i) perylene	17.41	276	3578990	80.76459	ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

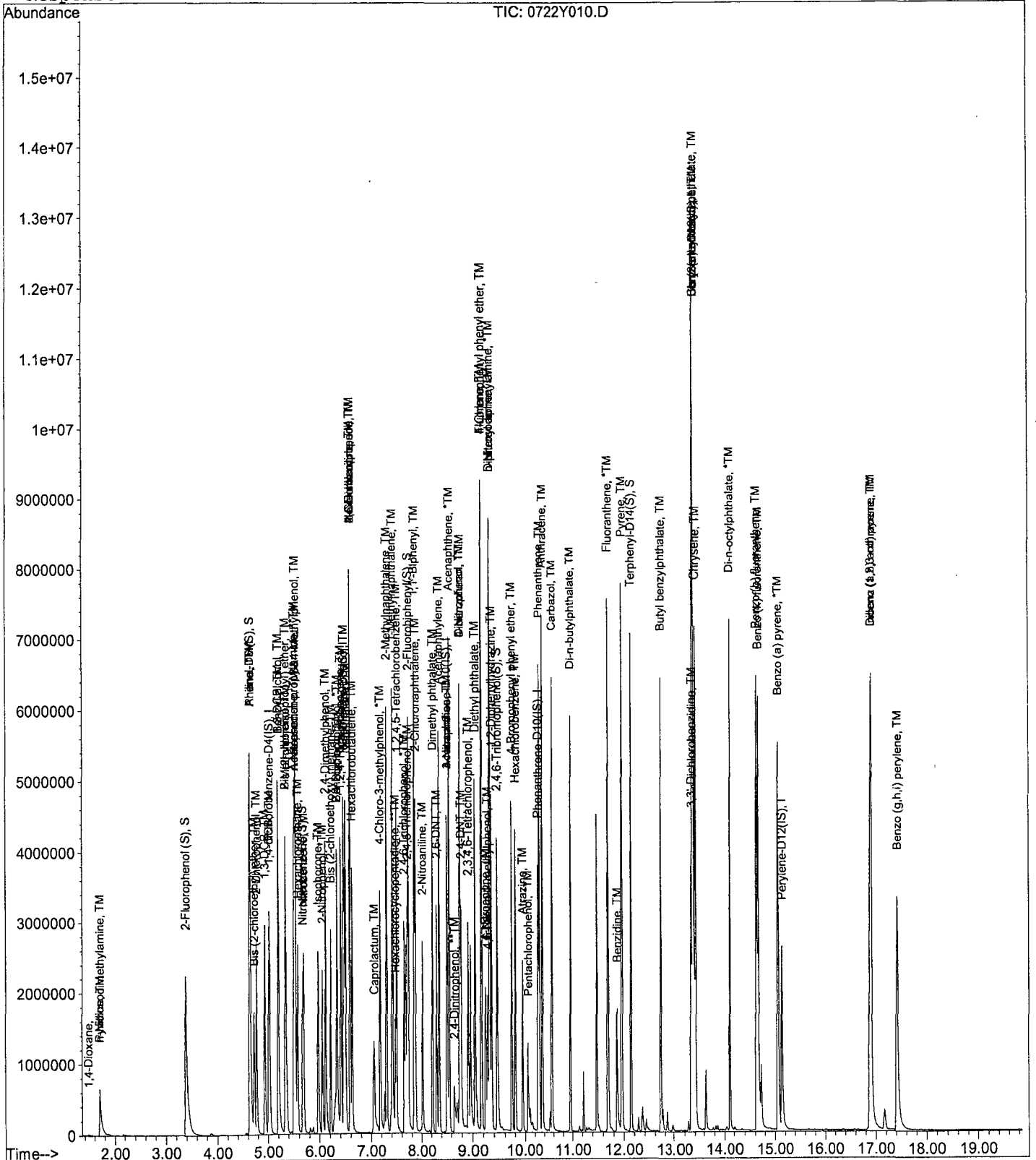
Data File : M:\YODA\DATA\Y190722\0722Y010.D
 Acq On : 22 Jul 19 17:17
 Sample : 80ug/ml 8270 07/12/19
 Misc :

Vial: 10
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:46 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y011.D
 Acq On : 22 Jul 19 17:45
 Sample : 100ug/ml 8270 07/12/19
 Misc :

Vial: 11
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:47 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 17:50:09 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.01	152	462838	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.48	136	1798921	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	994363	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	2065221	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.39	240	1675670	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.15	264	1951293	40.00000	ppb	0.02

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.39	112	2801865	182.01547	ppb	0.00
Spiked Amount 200.000			Recovery =	91.007%		
6) Phenol-D6 (S)	4.64	99	2757691	161.69305	ppb	0.00
Spiked Amount 200.000			Recovery =	80.847%		
22) Nitrobenzene-D5 (S)	5.68	82	1250807	88.95543	ppb	0.00
Spiked Amount 100.000			Recovery =	88.955%		
46) 2-Fluorobiphenyl (S)	7.74	172	2941483	83.87147	ppb	0.00
Spiked Amount 100.000			Recovery =	83.871%		
64) 2,4,6-Tribromophenol (S)	9.47	330	1021627	193.59187	ppb	0.00
Spiked Amount 200.000			Recovery =	96.796%		
82) Terphenyl-D14 (S)	12.15	244	3714695	88.77841	ppb	0.00
Spiked Amount 100.000			Recovery =	88.778%		

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.47	58	12433	8.86420		75
3) n-Nitrosodimethylamine	1.70	42	217647	101.14698	ppb	100
4) Pyridine	1.71	79	540705	103.24777	ppb	98
7) Phenol	4.66	94	1836616	84.44304	ppb	80
8) Aniline	4.64	93	1870543	88.43907	ppb	# 79
9) Bis (2-chloroethyl) ether	4.73	63	841111	90.74557	ppb	92
10) 2-Chlorophenol	4.78	128	1615119	94.13878	ppb	98
11) 1,3-DCB	4.94	146	1768812	91.48194	ppb	98
12) 1,4-DCB	5.03	146	1768858	91.13031	ppb	99
13) Benzyl alcohol	5.21	108	913145	95.42748	ppb	99
14) 1,2-DCB	5.20	146	1617682	89.90311	ppb	98
15) 2-Methylphenol	5.34	107	1263329	91.94154	ppb	98
16) Bis (2-chloroisopropyl) et	5.34	45	1229980	83.57339	ppb	# 82
17) Acetophenone	5.50	105	1858400	90.96910	ppb	99
18) 3&4-Methylphenol	5.53	107	2817041	171.63288	ppb	97
19) n-Nitrosodi-n-propylamine	5.51	70	728509	72.13308	ppb	99
20) Hexachloroethane	5.58	117	589503	89.77587	ppb	92
23) Nitrobenzene	5.70	77	1400860	94.68538	ppb	100
24) Isophorone	5.99	82	2561188	98.56342	ppb	94
25) 2-Nitrophenol	6.06	139	974060	104.70992	ppb	95
26) 2,4-Dimethylphenol	6.12	122	1392839	95.92694	ppb	99
27) Benzoic acid	6.36	105	976965	110.25239	ppb	97
28) Bis (2-chloroethoxy) metha	6.22	93	1593579	93.20825	ppb	99
29) 2,4-Dichlorophenol	6.35	162	1337451	97.08522	ppb	98
30) 1,2,4-Trichlorobenzene	6.42	180	1430027	93.81196	ppb	99
31) 3,4-Dimethylphenol	6.47	107	1720490	91.79094	ppb	100
32) Naphthalene	6.51	128	4201904	89.85400	ppb	100
33) 4-Chloroaniline	6.60	127	1358084	76.95702	ppb	94
34) 2,6-Dichlorophenol	6.59	162	1137395	86.17871	ppb	97
35) Hexachloropropene	6.59	213	822198	94.84691	ppb	97
36) Hexachlorobutadiene	6.64	225	799165	95.66992	ppb	99
37) Caprolactum	7.08	55	546327	100.31412	ppb	95

(#) = qualifier out of range (m) = manual integration

Data File : M:\YODA\DATA\Y190722\0722Y011.D
 Acq On : 22 Jul 19 17:45
 Sample : 100ug/ml 8270 07/12/19
 Misc :

Vial: 11
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:47 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 17:50:09 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.18	107	1332114	99.15280	ppb	93
39) 2-Methylnaphthalene	7.30	142	2876492	91.80186	ppb	99
40) 1-Methylnaphthalene	7.42	142	2929016	90.34376	ppb	100
42) Hexachlorocyclopentadiene	7.48	237	463958	107.91561	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.51	216	1439079	93.84473	ppb	99
44) 2,4,6-Trichlorophenol	7.66	196	951976	99.63490	ppb	100
45) 2,4,5-Trichlorophenol	7.72	196	999274	98.37221	ppb	99
47) 1,1'-Biphenyl	7.86	154	3638478	86.72899	ppb	99
48) 2-Chloronaphthalene	7.88	162	2892828	89.80801	ppb	99
49) 2-Nitroaniline	8.03	65	744695	95.20230	ppb	95
50) Dimethyl phthalate	8.23	163	3509158	93.69739	ppb	99
51) 2,6-DNT	8.32	165	892658	100.23204	ppb	91
52) Acenaphthylene	8.36	152	4516447	89.69583	ppb	99
53) 3-Nitroaniline	8.52	138	881092	94.56951	ppb	90
54) Acenaphthene	8.57	154	2789731	87.29452	ppb	100
55) 2,4-Dinitrophenol	8.66	184	543188m	145.38480	ppb	94
56) 4-Nitrophenol	8.76	65	413874	102.17568	ppb	92
57) Dibenzofuran	8.77	168	4115204	88.57028	ppb	96
58) 2,4-DNT	8.80	165	1202620	101.25159	ppb	84
59) 2,3,4,6-Tetrachlorophenol	8.93	232	830315	106.68068	ppb	98
60) Diethyl phthalate	9.06	149	3282647	92.89690	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.17	204	1595502	85.05144	ppb	100
62) Fluorene	9.17	166	3026835	83.39826	ppb	99
63) 4-Nitroaniline	9.26	138	887397	100.06019	ppb	99
66) 4,6-Dinitro-2-methylphenol	9.29	198	801387	110.69594	ppb	96
67) Diphenyl amine	9.34	169	4916676	162.89558	ppb	98
68) n-Nitrosodiphenylamine	9.34	169	4916676	162.89558	ppb	98
69) 1,2-Diphenylhydrazine	9.36	77	3086544	88.69783	ppb	# 83
70) 4-Bromophenyl phenyl ether	9.75	248	1123231	94.54343	ppb	99
71) Hexachlorobenzene	9.82	284	1164684	94.88712	ppb	# 84
72) Atrazine	9.96	200	533051	48.25372	ppb	96
73) Pentachlorophenol	10.07	266	464788	123.24056	ppb	100
74) Phenanthrene	10.30	178	4904500	85.27511	ppb	100
75) Anthracene	10.37	178	5026536	84.95596	ppb	99
76) Carbazol	10.57	167	4745182	86.22773	ppb	98
77) Di-n-butylphthalate	10.96	149	5359696	86.49299	ppb	99
78) Fluoranthene	11.70	202	5373587	85.43854	ppb	98
80) Benzidine	11.87	184	1601348	116.57634	ppb	# 97
81) Pyrene	11.97	202	5475195	92.63866	ppb	99
83) Butyl benzylphthalate	12.73	149	2454618	98.67281	ppb	98
84) 3,3'-Dichlorobenzidine	13.36	252	1698474	100.30793	ppb	# 97
85) Benz (a) anthracene	13.37	228	4885979	88.74776	ppb	99
86) Bis (2-ethylhexyl) phthala	13.38	149	2612510	83.23020	ppb	98
87) Chrysene	13.43	228	5036880	93.63334	ppb	99
88) Di-n-octylphthalate	14.12	149	5643837	99.00877	ppb	98
90) Benzo (b) fluoranthene	14.64	252	5944100	99.74931	ppb	99
91) Benzo (k) fluoranthene	14.67	252	4860324	83.32141	ppb	98
92) Benzo (a) pyrene	15.07	252	5246564	94.85887	ppb	98
93) Indeno (1,2,3-cd) pyrene	16.91	276	6095397	96.40104	ppb	99
94) Dibenz (a,h) anthracene	16.93	278	5279293	96.82269	ppb	98
95) Benzo (g,h,i) perylene	17.43	276	4963616	100.17389	ppb	99

Quantitation Report

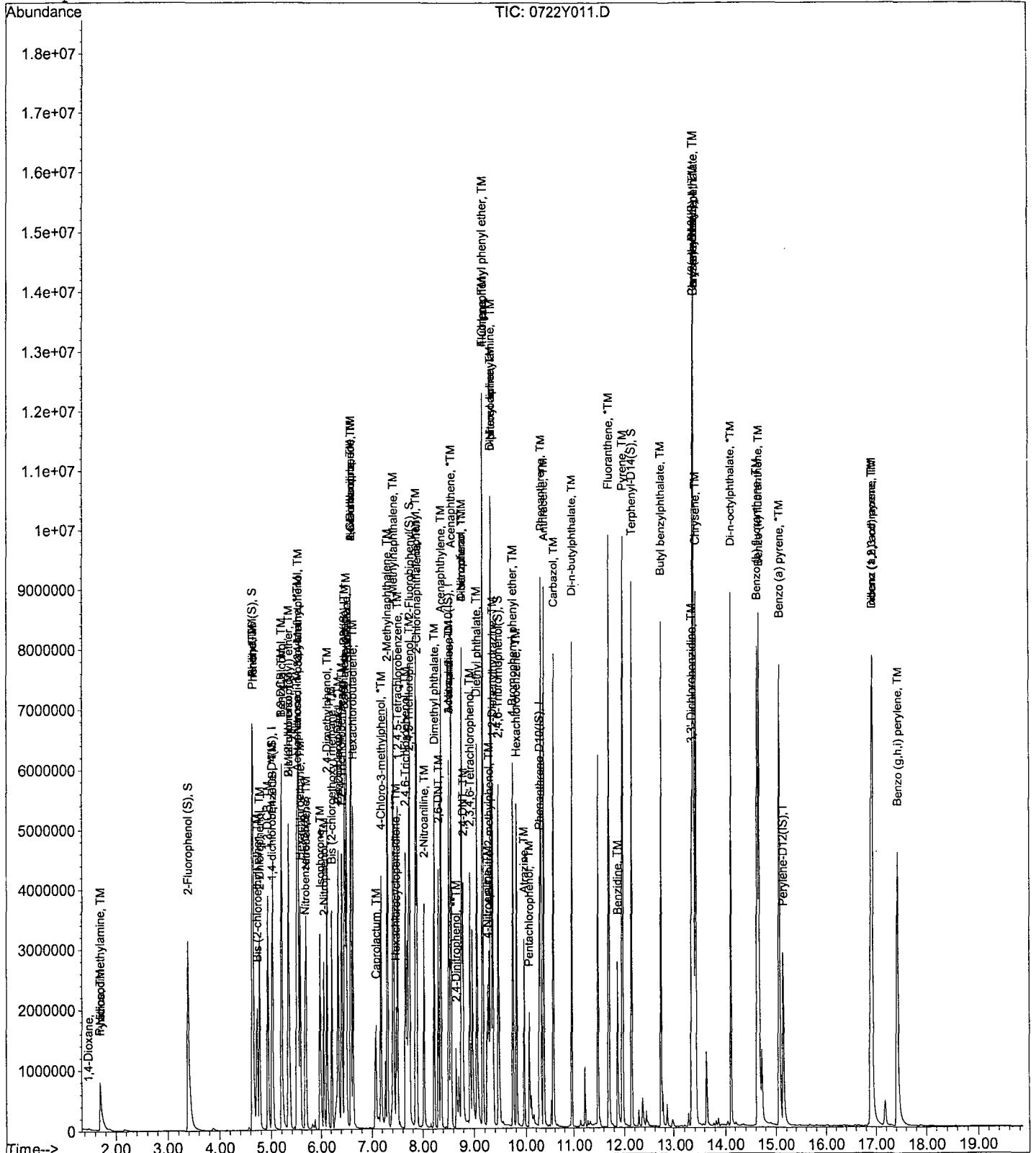
Data File : M:\YODA\DATA\Y190722\0722Y011.D
 Acq On : 22 Jul 19 17:45
 Sample : 100ug/ml 8270 07/12/19
 Misc :

Vial: 11
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:47 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration



Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/22/19
Instrument: Yoda
Initial Cal. Date: 07/22/19
Data File: 0722Y012.D

		Compound	MEAN	CCRF	%D	%Drift
1		1,4-Dioxane	0.1026	0.1187	16	
2	TM	n-Nitrosodimethylamine	0.1822	0.1783	2.1	TM
3	TM	Pyridine	0.4491	0.4549	1.3	TM
4	*TM	Phenol	1.834	1.787	2.6	*TM
5	TM	Aniline	1.792	1.766	1.5	TM
6	TM	Bis (2-chloroethyl) ether	0.7838	0.7329	6.5	TM
7	TM	2-Chlorophenol	1.476	1.411	4.4	TM
8	TM	1,3-DCB	1.664	1.602	3.7	TM
9	*TM	1,4-DCB	1.669	1.609	3.6	*TM
10	TM	Benzyl alcohol	0.8153	0.7742	5.0	TM
11	TM	1,2-DCB	1.541	1.489	3.4	TM
12	TM	2-Methylphenol	1.170	1.104	5.7	TM
13	TM	Bis (2-chloroisopropyl) ether	1.229	1.132	7.9	TM
14	TM	Acetophenone	1.734	1.642	5.3	TM
15	TM	3&4-Methylphenol	1.388	1.338	3.6	TM
16	**TM	n-Nitrosodi-n-propylamine	0.8309	0.8000	3.7	**TM
17	TM	Hexachloroethane	0.5589	0.5299	5.2	TM
18	TM	Nitrobenzene	0.3264	0.3093	5.2	TM
19	TM	Isophorone	0.5763	0.5510	4.4	TM
20	*TM	2-Nitrophenol	0.2084	0.2022	3.0	*TM
21	TM	2,4-Dimethylphenol	0.3230	0.3049	5.6	TM
22	TM	Benzoic acid	0.2059	0.2204	7.0	TM
23	TM	Bis (2-chloroethoxy) methane	0.3785	0.3473	8.2	TM
24	*TM	2,4-Dichlorophenol	0.3080	0.2921	5.2	*TM
25	TM	1,2,4-Trichlorobenzene	0.3410	0.3179	6.8	TM
26	TM	3,4-Dimethylphenol	0.4139	0.3814	7.9	TM
27	TM	Naphthalene	1.039	0.9689	6.7	TM
28	TM	4-Chloroaniline	0.3876	0.3645	6.0	TM
29	TM	2,6-Dichlorophenol	0.2912	0.2685	7.8	TM
30	TM	Hexachloropropene	0.1918	0.1871	2.5	TM
31	*TM	Hexachlorobutadiene	0.1873	0.1766	5.7	*TM
32	TM	Caprolactam	0.1198	0.1123	6.3	TM
33	*TM	4-Chloro-3-methylphenol	0.2988	0.2816	5.8	*TM
34	TM	2-Methylnaphthalene	0.6972	0.6480	7.0	TM
35	TM	1-Methylnaphthalene	0.7198	0.6567	8.8	TM
36	**TMQ	Hexachlorocyclopentadiene	0.1159	0.1025	12	**TMQ 1.2
37	TM	1,2,4,5-Tetrachlorobenzene	0.6219	0.5683	8.6	TM
38	*TM	2,4,6-Trichlorophenol	0.3871	0.3643	5.9	*TM
39	TM	2,4,5-Trichlorophenol	0.4107	0.3840	6.5	TM
40	TM	1,1'-Biphenyl	1.681	1.532	8.9	TM

Average

5.8

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 07/22/19
Instrument: Yoda
Cal. Date: 07/22/19
Data File: 0722Y012.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	2-Chloronaphthalene	1.294	1.222	5.6	TM
42	TM	2-Nitroaniline	0.3096	0.2944	4.9	TM
43	TM	Dimethyl phthalate	1.508	1.381	8.4	TM
44	TM	2,6-DNT	0.3603	0.3483	3.3	TM
45	TM	Acenaphthylene	2.021	1.901	6.0	TM
46	TM	3-Nitroaniline	0.3743	0.3600	3.8	TM
47	*TM	Acenaphthene	1.280	1.177	8.0	*TM
48	**TML	2,4-Dinitrophenol	0.1738	0.1616	7.0	**TML 6.8
49	**TM	4-Nitrophenol	0.1595	0.1551	2.8	**TM
50	TM	Dibenzofuran	1.865	1.708	8.4	TM
51	TM	2,4-DNT	0.4806	0.4686	2.5	TM
52	TM	2,3,4,6-Tetrachlorophenol	0.3190	0.3176	0.44	TM
53	TM	Diethyl phthalate	1.419	1.301	8.4	TM
54	TM	4-Chlorophenyl phenyl ether	0.7497	0.6828	8.9	TM
55	TM	Fluorene	1.447	1.338	7.6	TM
56	TM	4-Nitroaniline	0.3596	0.3331	7.3	TM
57	TM	4,6-Dinitro-2-methylphenol	0.1469	0.1431	2.6	TM
58	TM	Diphenyl amine	0.5749	0.5329	7.3	TM
59	*TM	n-Nitrosodiphenylamine	0.5749	0.5329	7.3	*TM
60	TM	1,2-Diphenylhydrazine	0.6498	0.6635	2.1	TM
61	TM	4-Bromophenyl phenyl ether	0.2297	0.2121	7.7	TM
62	TM	Hexachlorobenzene	0.2387	0.2309	3.3	TM
63	TM	Atrazine	0.2137	0.2028	5.1	TM
64	*TM	Pentachlorophenol	0.0772	0.0724	6.3	*TM
65	TM	Phenanthrene	1.102	1.044	5.3	TM
66	TM	Anthracene	1.132	1.049	7.4	TM
67	TM	Carbazol	1.052	0.9902	5.9	TM
68	TM	Di-n-butylphthalate	1.181	1.128	4.4	TM
69	*TM	Fluoranthene	1.207	1.152	4.6	*TM
70	TM	Benzidine	0.3585	0.4215	18	TM
71	TM	Pyrene	1.414	1.323	6.4	TM
72	TM	Butyl benzylphthalate	0.5899	0.5689	3.6	TM
73	TM	3,3'-Dichlorobenzidine	0.4083	0.4447	8.9	TM
74	TM	Benz (a) anthracene	1.302	1.197	8.1	TM
75	TM	Bis (2-ethylhexyl) phthalate	0.7295	0.6984	4.3	TM
76	TM	Chrysene	1.285	1.225	4.7	TM
77	*TM	Di-n-octylphthalate	1.345	1.322	1.8	*TM
78	TM	Benzo (b) fluoranthene	1.211	1.168	3.6	TM
79	TM	Benzo (k) fluoranthene	1.200	1.158	3.5	TM
80	*TM	Benzo (a) pyrene	1.135	1.093	3.7	*TM

Average

5.7

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 07/22/19

Matrix: 0

Instrument: Yoda

Cal. Date: 07/22/19

Data File: 0722Y012.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Indeno (1,2,3-cd) pyrene	1.300	1.261	3.0	TM
82	TM	Dibenz (a,h) anthracene	1.119	1.096	2.1	TM
83	TM	Benzo (g,h,i) perylene	1.026	0.9709	5.4	TM
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119						
120						

Average

3.5

Data File : M:\YODA\DATA\Y190722\0722Y012.D
 Acq On : 22 Jul 19 18:13
 Sample : SS 8270 07/12/19
 Misc :

Vial: 12
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:51 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.01	152	400759	40.00000	ppb	0.00
21) Naphthalene-D8 (IS)	6.48	136	1606893	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	873084	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.26	188	1720103	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.38	240	1524774	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.14	264	1641605	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	0.00	112	0	0.00000	ppb	
Spiked Amount	200.000		Recovery	=	0.000%	
6) Phenol-D6 (S)	0.00	99	0	0.00000	ppb	
Spiked Amount	200.000		Recovery	=	0.000%	
22) Nitrobenzene-D5 (S)	5.58	82	51484	4.12079	ppb	-0.09
Spiked Amount	100.000		Recovery	=	4.121%	
46) 2-Fluorobiphenyl (S)	7.73	172	1647	0.05373	ppb	0.00
Spiked Amount	100.000		Recovery	=	0.054%	
64) 2,4,6-Tribromophenol (S)	9.47	330	581	0.12348	ppb	0.02
Spiked Amount	200.000		Recovery	=	0.062%	
82) Terphenyl-D14 (S)	12.15	244	3446	0.09011	ppb	0.00
Spiked Amount	100.000		Recovery	=	0.090%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.48	58	5945	5.78574		66
3) n-Nitrosodimethylamine	1.70	42	89331	48.93887	ppb	98
4) Pyridine	1.70	79	227893	50.64892	ppb	99
7) Phenol	4.65	94	895203	48.70855	ppb	86
8) Aniline	4.64	93	884610	49.27417	ppb	# 87
9) Bis (2-chloroethyl) ether	4.71	63	367166	46.75600	ppb	97
10) 2-Chlorophenol	4.78	128	707024	47.81847	ppb	98
11) 1,3-DCB	4.94	146	802470	48.13171	ppb	99
12) 1,4-DCB	5.03	146	805820	48.19554	ppb	100
13) Benzyl alcohol	5.20	108	387858	47.48240	ppb	96
14) 1,2-DCB	5.20	146	745839	48.30130	ppb	99
15) 2-Methylphenol	5.33	107	552983	47.16001	ppb	98
16) Bis (2-chloroisopropyl) et	5.33	45	567166	46.06069	ppb	# 73
17) Acetophenone	5.49	105	822363	47.32797	ppb	99
18) 3&4-Methylphenol	5.52	107	1340449	96.39021	ppb	99
19) n-Nitrosodi-n-propylamine	5.49	70	400775	48.14100	ppb	99
20) Hexachloroethane	5.58	117	265451	47.40694	ppb	97
23) Nitrobenzene	5.69	77	621234	47.38159	ppb	97
24) Isophorone	5.97	82	1106827	47.81098	ppb	93
25) 2-Nitrophenol	6.05	139	406118	48.50955	ppb	94
26) 2,4-Dimethylphenol	6.11	122	612378	47.20043	ppb	100
27) Benzoic acid	6.31	105	442622	53.50978	ppb	97
28) Bis (2-chloroethoxy) metha	6.22	93	697630	45.87849	ppb	98
29) 2,4-Dichlorophenol	6.34	162	586634	47.41683	ppb	98
30) 1,2,4-Trichlorobenzene	6.41	180	638582	46.61372	ppb	98
31) 3,4-Dimethylphenol	6.46	107	766042	46.07320	ppb	98
32) Naphthalene	6.50	128	1946116	46.64261	ppb	99
33) 4-Chloroaniline	6.59	127	732101	47.01205	ppb	95
34) 2,6-Dichlorophenol	6.59	162	539232	46.09079	ppb	98
35) Hexachloropropene	6.59	213	375869	48.77062	ppb	98
36) Hexachlorobutadiene	6.62	225	354790	47.16110	ppb	100
37) Caprolactum	7.02	55	225543	46.84997	ppb	99

(#) = qualifier out of range (m) = manual integration
 0722Y012.D Y0722NC.M Tue Jul 23 09:13:08 2019

Data File : M:\YODA\DATA\Y190722\0722Y012.D
 Acq On : 22 Jul 19 18:13
 Sample : SS 8270 07/12/19
 Misc :

Vial: 12
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:51 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	565579	47.11704	ppb	89
39) 2-Methylnaphthalene	7.30	142	1301674	46.47777	ppb	99
40) 1-Methylnaphthalene	7.41	142	1319004	45.61343	ppb	99
42) Hexachlorocyclopentadiene	7.47	237	111916	49.38448	ppb	100
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	620199	45.68722	ppb	98
44) 2,4,6-Trichlorophenol	7.66	196	397569	47.05919	ppb	98
45) 2,4,5-Trichlorophenol	7.71	196	419125	46.74915	ppb	99
47) 1,1'-Biphenyl	7.85	154	1671676	45.57011	ppb	99
48) 2-Chloronaphthalene	7.88	162	1333244	47.18645	ppb	97
49) 2-Nitroaniline	8.02	65	321291	47.53884	ppb	88
50) Dimethyl phthalate	8.22	163	1507514	45.80835	ppb	99
51) 2,6-DNT	8.31	165	380110	48.33379	ppb	88
52) Acenaphthylene	8.35	152	2074200	47.01785	ppb	100
53) 3-Nitroaniline	8.51	138	392837	48.07868	ppb	90
54) Acenaphthene	8.56	154	1284740	45.99698	ppb	99
55) 2,4-Dinitrophenol	8.66	184	176322m	46.61220	ppb	91
56) 4-Nitrophenol	8.76	65	169223	48.59429	ppb	97
57) Dibenzofuran	8.76	168	1864363	45.80467	ppb	96
58) 2,4-DNT	8.79	165	511462	48.75236	ppb	87
59) 2,3,4,6-Tetrachlorophenol	8.93	232	346621	49.77939	ppb	96
60) Diethyl phthalate	9.05	149	1419515	45.82227	ppb	96
61) 4-Chlorophenyl phenyl ethe	9.16	204	745214	45.54304	ppb	94
62) Fluorene	9.17	166	1459708	46.20465	ppb	98
63) 4-Nitroaniline	9.23	138	363577	46.32704	ppb	96
66) 4,6-Dinitro-2-methylphenol	9.27	198	307695	48.70687	ppb	93
67) Diphenyl amine	9.32	169	2291433	92.68835	ppb	99
68) n-Nitrosodiphenylamine	9.32	169	2291433	92.68835	ppb	99
69) 1,2-Diphenylhydrazine	9.35	77	1426711	51.05555	ppb	91
70) 4-Bromophenyl phenyl ether	9.73	248	456026	46.16052	ppb	93
71) Hexachlorobenzene	9.81	284	496373	48.35974	ppb	# 87
72) Atrazine	9.95	200	218048	23.72858	ppb	98
73) Pentachlorophenol	10.06	266	155617	46.85052	ppb	98
74) Phenanthrene	10.29	178	2244381	47.34255	ppb	100
75) Anthracene	10.36	178	2255263	46.31009	ppb	100
76) Carbazol	10.56	167	2129002	47.04663	ppb	98
77) Di-n-butylphthalate	10.96	149	2425520	47.77655	ppb	99
78) Fluoranthene	11.69	202	2477572	47.72253	ppb	97
80) Benzidine	11.87	184	803378	58.78756	ppb	99
81) Pyrene	11.96	202	2521631	46.79629	ppb	100
83) Butyl benzylphthalate	12.71	149	1084346	48.22370	ppb	90
84) 3,3'-Dichlorobenzidine	13.35	252	847524	54.45254	ppb	99
85) Benz (a) anthracene	13.37	228	2281534	45.95399	ppb	99
86) Bis (2-ethylhexyl) phthala	13.37	149	1331051	47.86706	ppb	# 95
87) Chrysene	13.42	228	2334506	47.65919	ppb	100
88) Di-n-octylphthalate	14.11	149	2519215	49.12065	ppb	# 95
90) Benzo (b) fluoranthene	14.63	252	2396061	48.19985	ppb	99
91) Benzo (k) fluoranthene	14.66	252	2375891	48.23090	ppb	99
92) Benzo (a) pyrene	15.06	252	2241812	48.13736	ppb	100
93) Indeno (1,2,3-cd) pyrene	16.89	276	2587882	48.48869	ppb	100
94) Dibenz (a,h) anthracene	16.90	278	2248596	48.96689	ppb	99
95) Benzo (g,h,i) perylene	17.41	276	1992268	47.30672	ppb	98

(#) = qualifier out of range (m) = manual integration
 0722Y012.D Y0722NC.M Tue Jul 23 09:13:09 2019

Quantitation Report

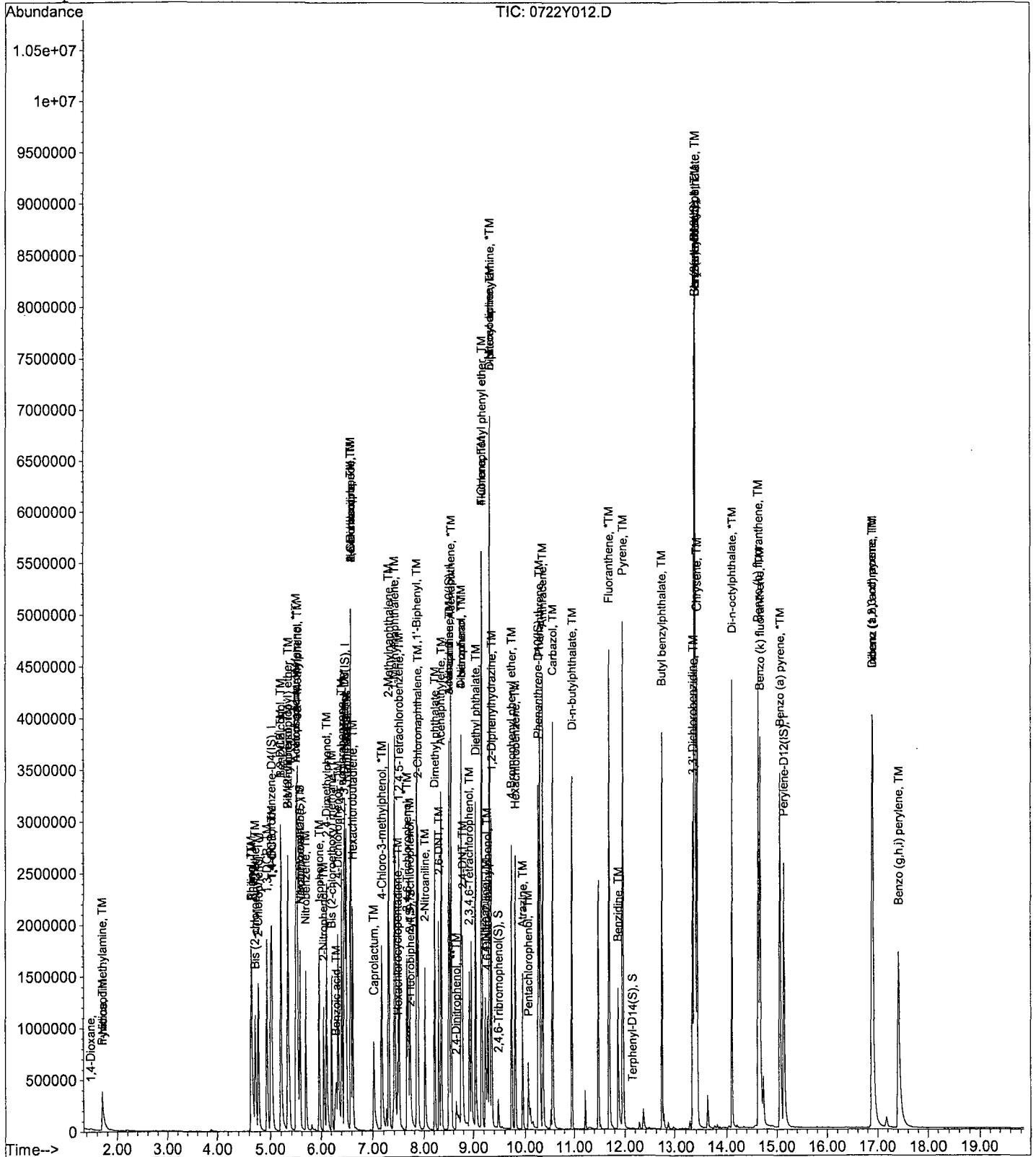
Data File : M:\YODA\DATA\Y190722\0722Y012.D
 Acq On : 22 Jul 19 18:13
 Sample : SS 8270 07/12/19
 Misc :

Vial: 12
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:51 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration



Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 1 Aug 19 10:00
Instrument: Yoda
Initial Cal. Date: 07/22/19
Data File: 0722Y155.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I
2		1,4-Dioxane	0.1026	0.2006	96	
3	TM	n-Nitrosodimethylamine	0.1822	0.2204	21	TM
4	TM	Pyridine	0.4491	0.6328	41	TM
5	S	2-Fluorophenol (S)	1.326	1.261	4.9	S
6	S	Phenol-D6 (S)	1.394	1.328	4.7	S
7	*TM	Phenol	1.834	1.739	5.2	*TM
8	TM	Aniline	1.792	1.637	8.7	TM
9	TM	Bis (2-chloroethyl) ether	0.7838	0.6761	14	TM
10	TM	2-Chlorophenol	1.476	1.449	1.8	TM
11	TM	1,3-DCB	1.664	1.622	2.5	TM
12	*TM	1,4-DCB	1.669	1.624	2.7	*TM
13	TM	Benzyl alcohol	0.8153	0.8144	0.11	TM
14	TM	1,2-DCB	1.541	1.512	1.9	TM
15	TM	2-Methylphenol	1.170	1.138	2.8	TM
16	TM	Bis (2-chloroisopropyl) ether	1.229	0.9831	20	TM
17	TM	Acetophenone	1.734	1.695	2.3	TM
18	TM	3&4-Methylphenol	1.388	1.365	1.7	TM
19	**TM	n-Nitrosodi-n-propylamine	0.8309	0.7874	5.2	**TM
20	TM	Hexachloroethane	0.5589	0.5307	5.0	TM
21	I	Napthalene-D8(IS)	ISTD			I
22	S	Nitrobenzene-D5(S)	0.3110	0.2813	9.5	S
23	TM	Nitrobenzene	0.3264	0.2997	8.2	TM
24	TM	Isophorone	0.5763	0.5491	4.7	TM
25	*TM	2-Nitrophenol	0.2084	0.2220	6.5	*TM
26	TM	2,4-Dimethylphenol	0.3230	0.3245	0.47	TM
27	TM	Benzoic acid	0.2059	0.2050	0.43	TM
28	TM	Bis (2-chloroethoxy) methane	0.3785	0.3607	4.7	TM
29	*TM	2,4-Dichlorophenol	0.3080	0.3155	2.5	*TM
30	TM	1,2,4-Trichlorobenzene	0.3410	0.3463	1.6	TM
31	TM	3,4-Dimethylphenol	0.4139	0.4200	1.5	TM
32	TM	Napthalene	1.039	1.032	0.68	TM
33	TM	4-Chloroaniline	0.3876	0.3853	0.62	TM
34	TM	2,6-Dichlorophenol	0.2912	0.2954	1.4	TM
35	TM	Hexachloropropene	0.1918	0.2059	7.3	TM
36	*TM	Hexachlorobutadiene	0.1873	0.1978	5.6	*TM
37	TM	Caprolactum	0.1198	0.1078	10	TM
38	*TM	4-Chloro-3-methylphenol	0.2988	0.3078	3.0	*TM
39	TM	2-Methylnapthalene	0.6972	0.7020	0.69	TM
40	TM	1-Methylnapthalene	0.7198	0.7212	0.19	TM

*NT
*NT
*NT
m/12/15

Average

8.2

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 1 Aug 19 10:00
Instrument: Yoda
Cal. Date: 07/22/19
Data File: 0722Y155.D

	Compound	MEAN	CCRF	%D	%Drift
41	I Acenaphthene-D10(IS)	ISTD			I
42	**TMQ Hexachlorocyclopentadiene	0.1159	0.1101	5.0	**TMQ 2.7
43	TM 1,2,4,5-Tetrachlorobenzene	0.6219	0.6295	1.2	TM
44	*TM 2,4,6-Trichlorophenol	0.3871	0.4056	4.8	*TM
45	TM 2,4,5-Trichlorophenol	0.4107	0.4184	1.9	TM
46	S 2-Fluorobiphenyl(S)	1.404	1.367	2.7	S
47	TM 1,1'-Biphenyl	1.681	1.612	4.1	TM
48	TM 2-Chloronaphthalene	1.294	1.277	1.4	TM
49	TM 2-Nitroaniline	0.3096	0.2871	7.3	TM
50	TM Dimethyl phthalate	1.508	1.508	0.00	TM
51	TM 2,6-DNT	0.3603	0.3744	3.9	TM
52	TM Acenaphthylene	2.021	2.002	0.93	TM
53	TM 3-Nitroaniline	0.3743	0.3665	2.1	TM
54	*TM Acenaphthene	1.280	1.247	2.6	*TM
55	**TML 2,4-Dinitrophenol	0.1738	0.1899	9.3	**TML 4.9
56	**TM 4-Nitrophenol	0.1595	0.1483	7.1	**TM
57	TM Dibenzofuran	1.865	1.827	2.0	TM
58	TM 2,4-DNT	0.4806	0.5098	6.1	TM
59	TM 2,3,4,6-Tetrachlorophenol	0.3190	0.3493	9.5	TM
60	TM Diethyl phthalate	1.419	1.417	0.17	TM
61	TM 4-Chlorophenyl phenyl ether	0.7497	0.7574	1.0	TM
62	TM Fluorene	1.447	1.431	1.2	TM
63	TM 4-Nitroaniline	0.3596	0.3681	2.4	TM
64	S 2,4,6-Tribromophenol(S)	0.2156	0.2543	18	S
65	I Phenanthrene-D10(IS)	ISTD			I
66	TM 4,6-Dinitro-2-methylphenol	0.1469	0.1601	9.0	TM
67	TM Diphenyl amine	0.5749	0.5588	2.8	TM
68	*TM n-Nitrosodiphenylamine	0.5749	0.5588	2.8	*TM
69	TM 1,2-Diphenylhydrazine	0.6498	0.6092	6.2	TM
70	TM 4-Bromophenyl phenyl ether	0.2297	0.2426	5.6	TM
71	TM Hexachlorobenzene	0.2387	0.2651	11	TM
72	TM Atrazine	0.2137	0.2035	4.8	TM
73	*TM Pentachlorophenol	0.0772	0.0947	23	*TM
74	TM Phenanthrene	1.102	1.063	3.6	TM
75	TM Anthracene	1.132	1.125	0.70	TM
76	TM Carbazol	1.052	1.046	0.58	TM
77	TM Di-n-butylphthalate	1.181	1.182	0.08	TM
78	*TM Fluoranthene	1.207	1.222	1.2	*TM
79	I Chrysene-D12(IS)	ISTD			I
80	TM Benzidine	0.3585	0.2322	35	TM

Average

5.4

**NT
at 8/19/19*

*NT

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 1 Aug 19 10:00
Instrument: Yoda
Cal. Date: 07/22/19
Data File: 0722Y155.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Pyrene	1.414	1.365	3.4	TM
82	S	Terphenyl-D14(S)	1.003	0.9746	2.9	S
83	TM	Butyl benzylphthalate	0.5899	0.5898	0.01	TM
84	TM	3,3'-Dichlorobenzidine	0.4083	0.4637	14	TM
85	TM	Benz (a) anthracene	1.302	1.271	2.4	TM
86	TM	Bis (2-ethylhexyl) phthalate	0.7295	0.7301	0.09	TM
87	TM	Chrysene	1.285	1.284	0.08	TM
88	*TM	Di-n-octylphthalate	1.345	1.418	5.4	*TM
89	I	Perylene-D12(IS)	ISTD			I
90	TM	Benzo (b) fluoranthene	1.211	1.239	2.3	TM
91	TM	Benzo (k) fluoranthene	1.200	1.095	8.8	TM
92	*TM	Benzo (a) pyrene	1.135	1.121	1.2	*TM
93	TM	Indeno (1,2,3-cd) pyrene	1.300	1.335	2.7	TM
94	TM	Dibenz (a,h) anthracene	1.119	1.168	4.4	TM
95	TM	Benzo (g,h,i) perylene	1.026	1.096	6.8	TM
96						
97						
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117						
118						
119						
120						

Average

3.9

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y190722\0722Y155.D Vial: 55
 Acq On : 1 Aug 19 10:00 Operator: MA,SS
 Sample : 50ug/ml 8270 07/12/19 (6) Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Aug 1 10:15 2019 Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.98	152	306943	40.00000	ppb	-0.04
21) Napthalene-D8 (IS)	6.44	136	1210023	40.00000	ppb	-0.04
41) Acenaphthene-D10 (IS)	8.47	164	678921	40.00000	ppb	-0.05
65) Phenanthrene-D10 (IS)	10.21	188	1382136	40.00000	ppb	-0.05
79) Chrysene-D12 (IS)	13.32	240	1270723	40.00000	ppb	-0.06
89) Perylene-D12 (IS)	15.05	264	1509282	40.00000	ppb	-0.08

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.35	112	967740	95.11211	ppb	-0.04
Spiked Amount 200.000			Recovery =	47.556%		
6) Phenol-D6 (S)	4.59	99	1019166	95.30717	ppb	-0.04
Spiked Amount 200.000			Recovery =	47.654%		
22) Nitrobenzene-D5 (S)	5.63	82	425481	45.22537	ppb	-0.04
Spiked Amount 100.000			Recovery =	45.225%		
46) 2-Fluorobiphenyl (S)	7.69	172	1160032	48.66247	ppb	-0.04
Spiked Amount 100.000			Recovery =	48.662%		
64) 2,4,6-Tribromophenol (S)	9.40	330	431693m	117.98271	ppb	-0.05
Spiked Amount 200.000			Recovery =	58.991%		
82) Terphenyl-D14 (S)	12.08	244	1548011	48.57029	ppb	-0.06
Spiked Amount 100.000			Recovery =	48.570%		

Target Compounds

					Qvalue	
2) 1,4-Dioxane	1.46	58	7697	9.78034	#	10
3) n-Nitrosodimethylamine	1.68	42	84577m	60.49641	ppb	90
4) Pyridine	1.69	79	242800	70.45526	ppb	95
7) Phenol	4.61	94	667397	47.41257	ppb	91
8) Aniline	4.60	93	628017	45.67351	ppb	# 84
9) Bis (2-chloroethyl) ether	4.69	63	259417	43.13193	ppb	87
10) 2-Chlorophenol	4.74	128	555906	49.08948	ppb	95
11) 1,3-DCB	4.90	146	622474	48.74715	ppb	98
12) 1,4-DCB	4.99	146	623190	48.66478	ppb	99
13) Benzyl alcohol	5.17	108	312460	49.94360	ppb	96
14) 1,2-DCB	5.16	146	580185	49.05754	ppb	99
15) 2-Methylphenol	5.31	107	436621	48.61746	ppb	97
16) Bis (2-chloroisopropyl) et	5.30	45	377195	39.99555	ppb	# 69
17) Acetophenone	5.46	105	650216	48.85821	ppb	99
18) 3&4-Methylphenol	5.49	107	1047367	98.33476	ppb	96
19) n-Nitrosodi-n-propylamine	5.47	70	302107	47.38063	ppb	93
20) Hexachloroethane	5.53	117	203633	47.48224	ppb	82
23) Nitrobenzene	5.65	77	453319	45.91469	ppb	99
24) Isophorone	5.93	82	830530	47.64272	ppb	91
25) 2-Nitrophenol	6.02	139	335825	53.26984	ppb	97
26) 2,4-Dimethylphenol	6.08	122	490760	50.23297	ppb	98
27) Benzoic acid	6.28	105	310096	49.78399	ppb	98
28) Bis (2-chloroethoxy) metha	6.17	93	545529	47.64257	ppb	99
29) 2,4-Dichlorophenol	6.30	162	477235	51.22606	ppb	100
30) 1,2,4-Trichlorobenzene	6.38	180	523814	50.77705	ppb	100
31) 3,4-Dimethylphenol	6.42	107	635337	50.74500	ppb	98
32) Naphthalene	6.46	128	1560220	49.65847	ppb	100
33) 4-Chloroaniline	6.54	127	582718	49.69240	ppb	98
34) 2,6-Dichlorophenol	6.54	162	446789	50.71475	ppb	95
35) Hexachloropropene	6.55	213	311449	53.66635	ppb	99
36) Hexachlorobutadiene	6.59	225	299189	52.81430	ppb	99
37) Caprolactum	6.99	55	163046	44.97627	ppb	92

(#) = qualifier out of range (m) = manual integration

Data File : M:\YODA\DATA\Y190722\0722Y155.D
 Acq On : 1 Aug 19 10:00
 Sample : 50ug/ml 8270 07/12/19 (6)
 Misc :

Vial: 55
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 1 10:15 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.13	107	465500	51.49887	ppb	99
39) 2-Methylnaphthalene	7.26	142	1061759	50.34570	ppb	98
40) 1-Methylnaphthalene	7.37	142	1090862	50.09677	ppb	99
42) Hexachlorocyclopentadiene	7.43	237	93447	51.32956	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.45	216	534216	50.60778	ppb	99
44) 2,4,6-Trichlorophenol	7.61	196	344220	52.39680	ppb	99
45) 2,4,5-Trichlorophenol	7.67	196	355035	50.92583	ppb	99
47) 1,1'-Biphenyl	7.81	154	1367954	47.95525	ppb	99
48) 2-Chloronaphthalene	7.83	162	1083576	49.31782	ppb	99
49) 2-Nitroaniline	7.97	65	243656	46.36219	ppb	99
50) Dimethyl phthalate	8.18	163	1279482	49.99818	ppb	100
51) 2,6-DNT	8.26	165	317743	51.95823	ppb	98
52) Acenaphthylene	8.31	152	1699352	49.53729	ppb	100
53) 3-Nitroaniline	8.46	138	311049	48.95598	ppb	99
54) Acenaphthene	8.51	154	1058198	48.72118	ppb	99
55) 2,4-Dinitrophenol	8.61	184	161185	52.45916	ppb	97
56) 4-Nitrophenol	8.71	65	125825	46.46539	ppb	93
57) Dibenzofuran	8.72	168	1550553	48.98946	ppb	99
58) 2,4-DNT	8.74	165	432644	53.03344	ppb	93
59) 2,3,4,6-Tetrachlorophenol	8.87	232	296429	54.74597	ppb	97
60) Diethyl phthalate	9.00	149	1202432	49.91533	ppb	98
61) 4-Chlorophenyl phenyl ethe	9.12	204	642773	50.51676	ppb	95
62) Fluorene	9.12	166	1214077	49.42000	ppb	98
63) 4-Nitroaniline	9.19	138	312424	51.19403	ppb	93
66) 4,6-Dinitro-2-methylphenol	9.23	198	276581	54.48736	ppb	95
67) Diphenyl amine	9.26	169	1930856	97.20118	ppb	99
68) n-Nitrosodiphenylamine	9.26	169	1930856	97.20118	ppb	99
69) 1,2-Diphenylhydrazine	9.30	77	1052577	46.87750	ppb #	86
70) 4-Bromophenyl phenyl ether	9.68	248	419185	52.80688	ppb	95
71) Hexachlorobenzene	9.76	284	457920	55.52251	ppb #	85
72) Atrazine	9.90	200	175756	23.80310	ppb	99
73) Pentachlorophenol	10.01	266	163623m	61.30634	ppb	99
74) Phenanthrene	10.24	178	1836795	48.21914	ppb	100
75) Anthracene	10.30	178	1942885	49.65114	ppb	100
76) Carbazol	10.51	167	1807589	49.71138	ppb	99
77) Di-n-butylphthalate	10.90	149	2041235	50.03876	ppb	100
78) Fluoranthene	11.64	202	2111506	50.61662	ppb	97
80) Benzidine	11.81	184	368759	32.37895	ppb	98
81) Pyrene	11.90	202	2168139	48.28048	ppb	99
83) Butyl benzylphthalate	12.65	149	936916	49.99745	ppb	99
84) 3,3'-Dichlorobenzidine	13.28	252	736469	56.77736	ppb #	97
85) Benz (a) anthracene	13.30	228	2018903	48.79399	ppb	99
86) Bis (2-ethylhexyl) phthala	13.31	149	1159739	50.04457	ppb	99
87) Chrysene	13.35	228	2039370	49.95768	ppb	99
88) Di-n-octylphthalate	14.04	149	2251661	52.68130	ppb	100
90) Benzo (b) fluoranthene	14.55	252	2336677	51.12635	ppb	97
91) Benzo (k) fluoranthene	14.58	252	2065315	45.60195	ppb	97
92) Benzo (a) pyrene	14.97	252	2114222	49.37782	ppb	97
93) Indeno (1,2,3-cd) pyrene	16.76	276	2519271	51.34157	ppb	95
94) Dibenz (a,h) anthracene	16.77	278	2203095	52.18222	ppb	96
95) Benzo (g,h,i) perylene	17.26	276	2067085	53.38653	ppb	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

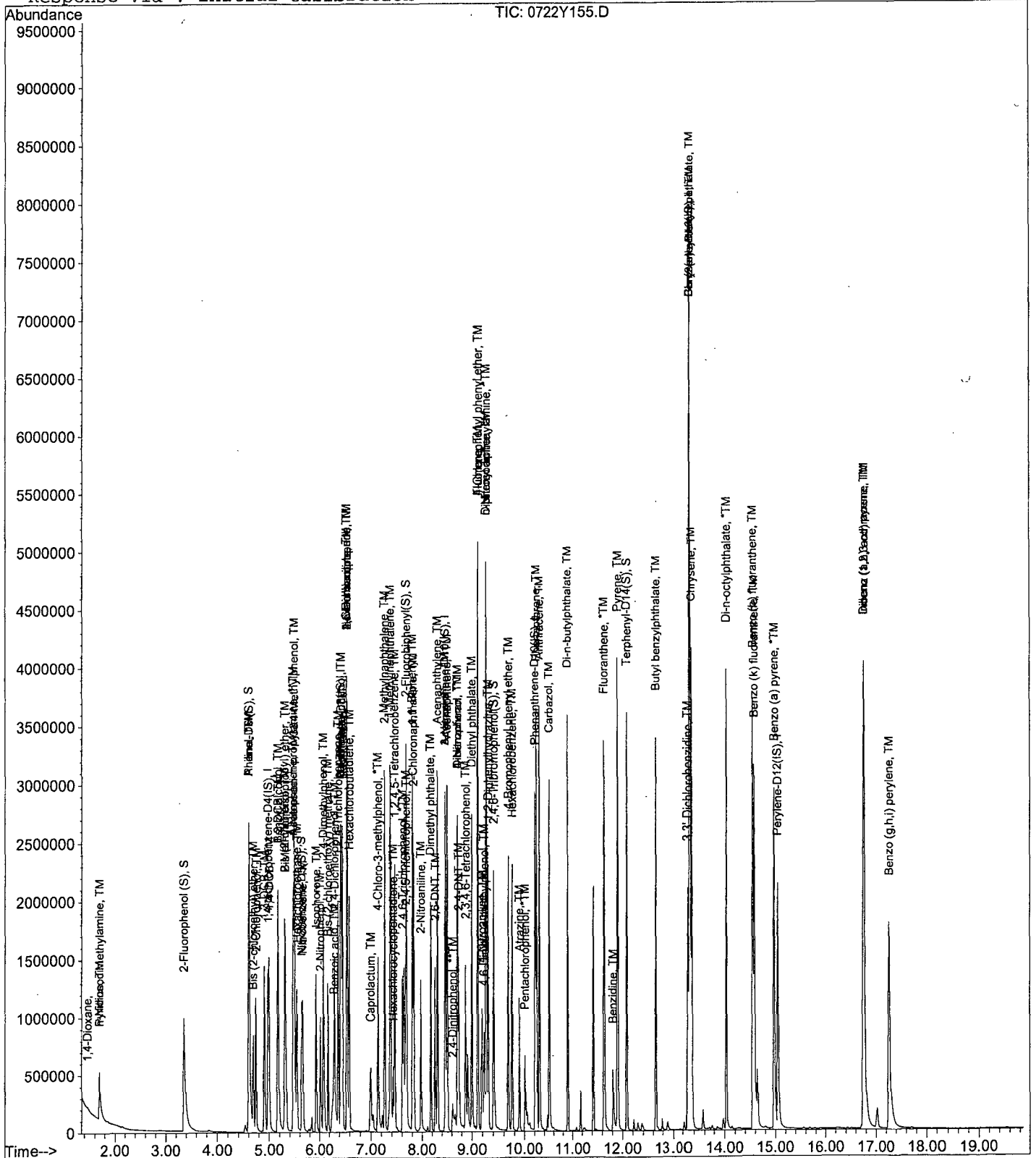
Data File : M:\YODA\DATA\Y190722\0722Y155.D
Acq On : 1 Aug 19 10:00
Sample : 50ug/ml 8270 07/12/19 (6)
Misc :

Vial: 55
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Aug 1 10:15 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration

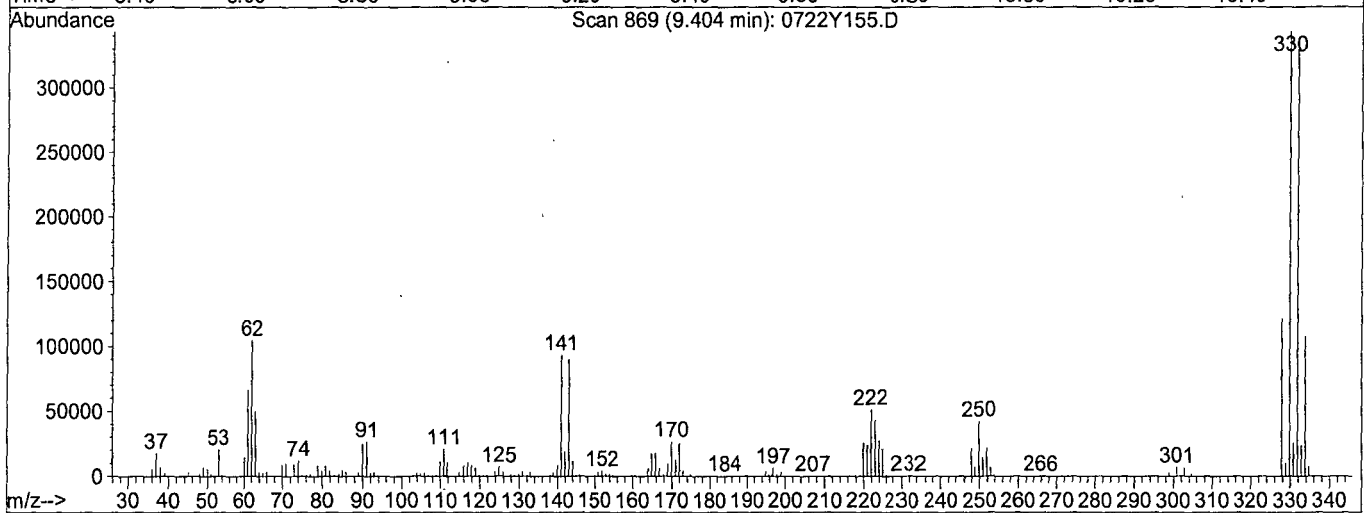
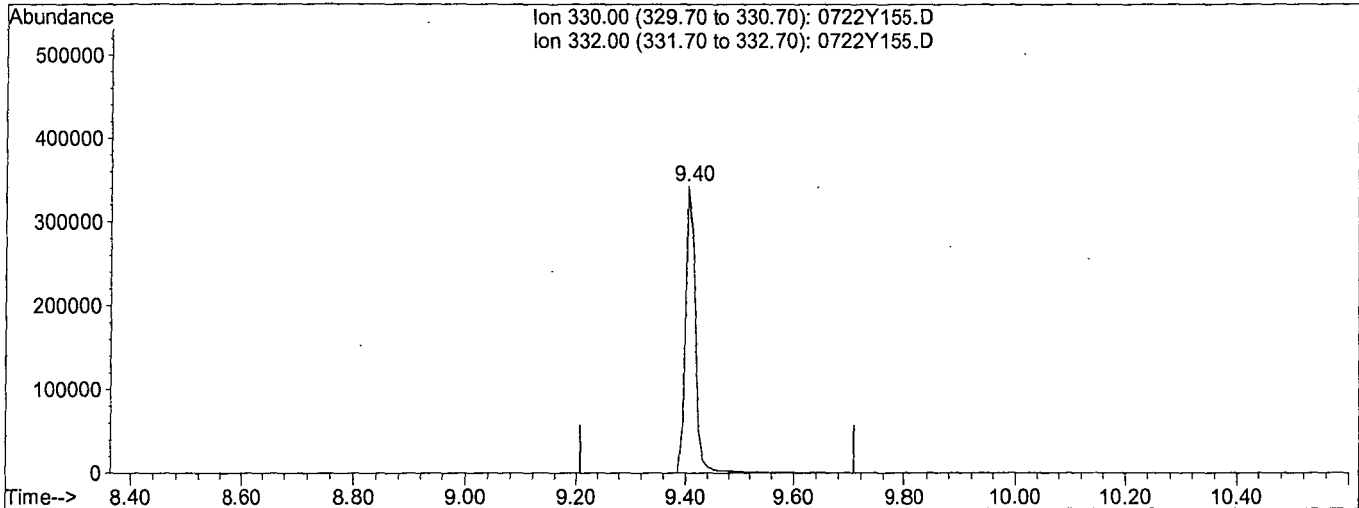


Quantitation Report

Data File : M:\YODA\DATA\Y190722\0722Y155.D
 Acq On : 1 Aug 19 10:00
 Sample : 50ug/ml 8270 07/12/19 (6)
 Misc :
 Quant Time: Aug 1 10:06 2019

Vial: 55
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Multiple Level Calibration



TIC: 0722Y155.D

(64) 2,4,6-Tribromophenol(S) (S)

9.40min 120.6764ppb

response 441549

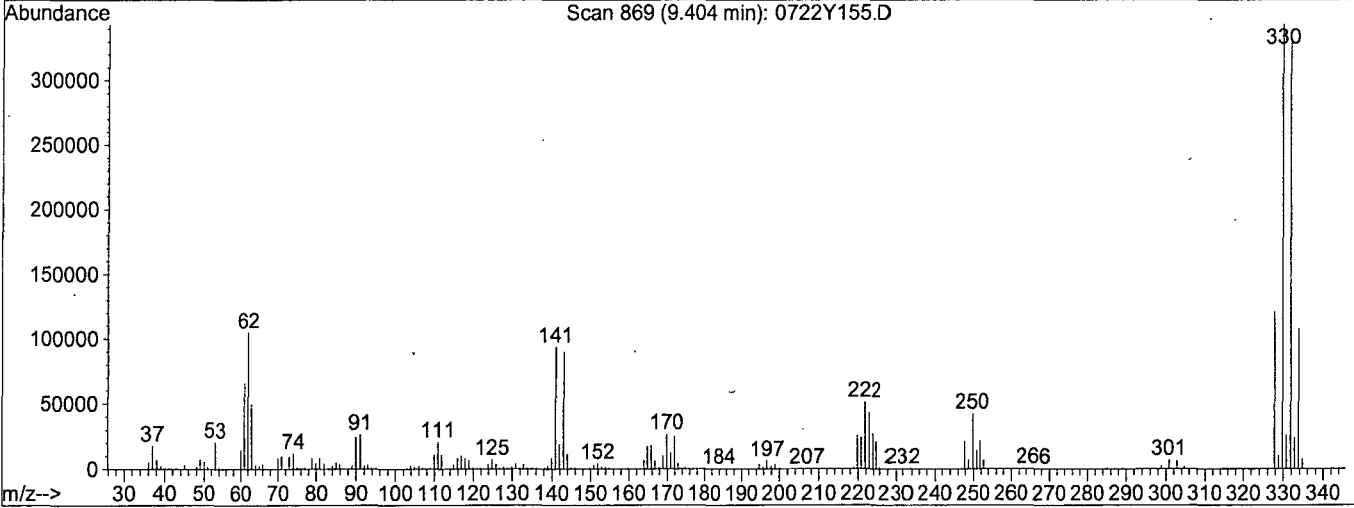
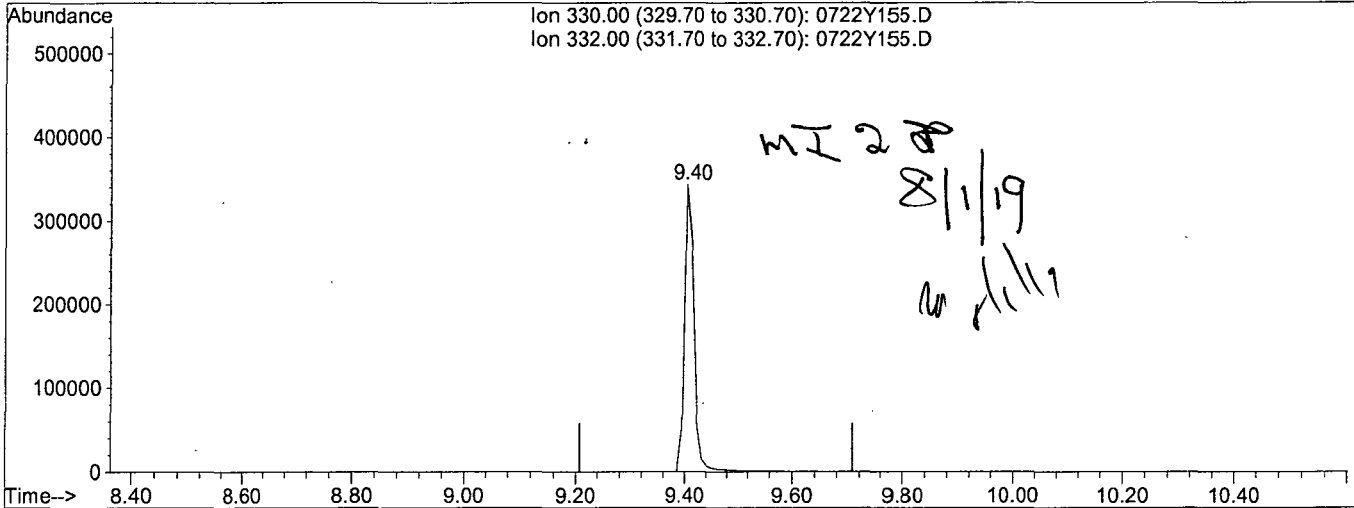
Ion	Exp%	Act%
330.00	100	100
332.00	96.40	96.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190722\0722Y155.D
 Acq On : 1 Aug 19 10:00
 Sample : 50ug/ml 8270 07/12/19 (6)
 Misc :
 Quant Time: Aug 1 10:14 2019

Vial: 55
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Multiple Level Calibration



TIC: 0722Y155.D

(64) 2,4,6-Tribromophenol(S) (S)

9.40min 117.9827ppb m

response 431693

Ion	Exp%	Act%
330.00	100	100
332.00	96.40	96.49
0.00	0.00	0.00
0.00	0.00	0.00

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 1 Aug 19 15:50
Instrument: Yoda
Initial Cal. Date: 07/22/19
Data File: 0722Y167.D

	Compound	MEAN	CCRF	%D	%Drift
1	I 1,4-dichlorobenzene-D4(IS)	ISTD			I
2	1,4-Dioxane	0.1026	0.2107	105	
3	TM n-Nitrosodimethylamine	0.1822	0.2678	47	TM
4	TM Pyridine	0.4491	0.7342	63	TM
5	S 2-Fluorophenol (S)	1.326	1.290	2.7	S
6	S Phenol-D6 (S)	1.394	1.346	3.4	S
7	*TM Phenol	1.834	1.764	3.9	*TM
8	TM Aniline	1.792	1.611	10	TM
9	TM Bis (2-chloroethyl) ether	0.7838	0.6779	14	TM
10	TM 2-Chlorophenol	1.476	1.487	0.79	TM
11	TM 1,3-DCB	1.664	1.624	2.4	TM
12	*TM 1,4-DCB	1.669	1.625	2.6	*TM
13	TM Benzyl alcohol	0.8153	0.8270	1.4	TM
14	TM 1,2-DCB	1.541	1.510	2.0	TM
15	TM 2-Methylphenol	1.170	1.162	0.70	TM
16	TM Bis (2-chloroisopropyl) ether	1.229	0.9900	19	TM
17	TM Acetophenone	1.734	1.708	1.5	TM
18	TM 3&4-Methylphenol	1.388	1.370	1.3	TM
19	**TM n-Nitrosodi-n-propylamine	0.8309	0.7987	3.9	**TM
20	TM Hexachloroethane	0.5589	0.5242	6.2	TM
21	I Napthalene-D8(IS)	ISTD			I
22	S Nitrobenzene-D5(S)	0.3110	0.2835	8.8	S
23	TM Nitrobenzene	0.3264	0.3062	6.2	TM
24	TM Isophorone	0.5763	0.5660	1.8	TM
25	*TM 2-Nitrophenol	0.2084	0.2283	9.6	*TM
26	TM 2,4-Dimethylphenol	0.3230	0.3380	4.7	TM
27	TM Benzoic acid	0.2059	0.2273	10	TM
28	TM Bis (2-chloroethoxy) methane	0.3785	0.3658	3.4	TM
29	*TM 2,4-Dichlorophenol	0.3080	0.3322	7.9	*TM
30	TM 1,2,4-Trichlorobenzene	0.3410	0.3483	2.1	TM
31	TM 3,4-Dimethylphenol	0.4139	0.4279	3.4	TM
32	TM Napthalene	1.039	1.054	1.4	TM
33	TM 4-Chloroaniline	0.3876	0.3797	2.1	TM
34	TM 2,6-Dichlorophenol	0.2912	0.2949	1.3	TM
35	TM Hexachloropropene	0.1918	0.2097	9.3	TM
36	*TM Hexachlorobutadiene	0.1873	0.2021	7.9	*TM
37	TM Caprolactum	0.1198	0.1119	6.6	TM
38	*TM 4-Chloro-3-methylphenol	0.2988	0.3225	7.9	*TM
39	TM 2-Methylnapthalene	0.6972	0.7207	3.4	TM
40	TM 1-Methylnapthalene	0.7198	0.7357	2.2	TM

Average

10.3

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 1 Aug 19 15:50
Instrument: Yoda
Cal. Date: 07/22/19
Data File: 0722Y167.D

		Compound	MEAN	CCRF	%D	%Drift
41	I	Acenaphthene-D10(IS)	ISTD			I
42	**TMQ	Hexachlorocyclopentadiene	0.1159	0.1346	16	**TMQ 15
43	TM	1,2,4,5-Tetrachlorobenzene	0.6219	0.6411	3.1	TM
44	*TM	2,4,6-Trichlorophenol	0.3871	0.4118	6.4	*TM
45	TM	2,4,5-Trichlorophenol	0.4107	0.4320	5.2	TM
46	S	2-Fluorobiphenyl(S)	1.404	1.371	2.4	S
47	TM	1,1'-Biphenyl	1.681	1.632	2.9	TM
48	TM	2-Chloronaphthalene	1.294	1.276	1.4	TM
49	TM	2-Nitroaniline	0.3096	0.2876	7.1	TM
50	TM	Dimethyl phthalate	1.508	1.535	1.8	TM
51	TM	2,6-DNT	0.3603	0.3808	5.7	TM
52	TM	Acenaphthylene	2.021	2.027	0.30	TM
53	TM	3-Nitroaniline	0.3743	0.3747	0.10	TM
54	*TM	Acenaphthene	1.280	1.255	1.9	*TM
55	**TML	2,4-Dinitrophenol	0.1738	0.1714	1.4	**TML 2.7
56	**TM	4-Nitrophenol	0.1595	0.1543	3.3	**TM
57	TM	Dibenzofuran	1.865	1.850	0.77	TM
58	TM	2,4-DNT	0.4806	0.5135	6.8	TM
59	TM	2,3,4,6-Tetrachlorophenol	0.3190	0.3719	17	TM
60	TM	Diethyl phthalate	1.419	1.434	1.1	TM
61	TM	4-Chlorophenyl phenyl ether	0.7497	0.7503	0.08	TM
62	TM	Fluorene	1.447	1.401	3.2	TM
63	TM	4-Nitroaniline	0.3596	0.3853	7.2	TM
64	S	2,4,6-Tribromophenol(S)	0.2156	0.2679	24	S
65	I	Phenanthrene-D10(IS)	ISTD			I
66	TM	4,6-Dinitro-2-methylphenol	0.1469	0.1683	15	TM
67	TM	Diphenyl amine	0.5749	0.5594	2.7	TM
68	*TM	n-Nitrosodiphenylamine	0.5749	0.5594	2.7	*TM
69	TM	1,2-Diphenylhydrazine	0.6498	0.6083	6.4	TM
70	TM	4-Bromophenyl phenyl ether	0.2297	0.2474	7.7	TM
71	TM	Hexachlorobenzene	0.2387	0.2717	14	TM
72	TM	Atrazine	0.2137	0.1897	11	TM
73	*TM	Pentachlorophenol	0.0772	0.1015	31	*TM
74	TM	Phenanthrene	1.102	1.064	3.5	TM
75	TM	Anthracene	1.132	1.113	1.7	TM
76	TM	Carbazol	1.052	1.043	0.85	TM
77	TM	Di-n-butylphthalate	1.181	1.186	0.47	TM
78	*TM	Fluoranthene	1.207	1.217	0.81	*TM
79	I	Chrysene-D12(IS)	ISTD			I
80	TM	Benzidine	0.3585	0.2183	39	TM

Average

6.9

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 1 Aug 19 15:50
Instrument: Yoda
Cal. Date: 07/22/19
Data File: 0722Y167.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Pyrene	1.414	1.361	3.7	TM
82	S	Terphenyl-D14(S)	1.003	0.9622	4.1	S
83	TM	Butyl benzylphthalate	0.5899	0.5838	1.0	TM
84	TM	3,3'-Dichlorobenzidine	0.4083	0.4786	17	TM
85	TM	Benz (a) anthracene	1.302	1.255	3.7	TM
86	TM	Bis (2-ethylhexyl) phthalate	0.7295	0.7128	2.3	TM
87	TM	Chrysene	1.285	1.263	1.7	TM
88	*TM	Di-n-octylphthalate	1.345	1.408	4.6	*TM
89	I	Perylene-D12(IS)	ISTD			I
90	TM	Benzo (b) fluoranthene	1.211	1.129	6.8	TM
91	TM	Benzo (k) fluoranthene	1.200	1.188	1.1	TM
92	*TM	Benzo (a) pyrene	1.135	1.132	0.28	*TM
93	TM	Indeno (1,2,3-cd) pyrene	1.300	1.332	2.4	TM
94	TM	Dibenz (a,h) anthracene	1.119	1.162	3.9	TM
95	TM	Benzo (g,h,i) perylene	1.026	1.096	6.8	TM
96						
97						
98						
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114						
115						
116						
117						
118						
119						
120						

Average

4.2

Data File : M:\YODA\DATA\Y190722\0722Y167.D
 Acq On : 1 Aug 19 15:50
 Sample : 50ug/ml 8270 07/12/19 (3)
 Misc :

Vial: 67
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 1 15:55 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.97	152	362954	40.00000	ppb	-0.05
21) Napthalene-D8 (IS)	6.43	136	1425263	40.00000	ppb	-0.05
41) Acenaphthene-D10 (IS)	8.47	164	817480	40.00000	ppb	-0.05
65) Phenanthrene-D10 (IS)	10.21	188	1670400	40.00000	ppb	-0.05
79) Chrysene-D12 (IS)	13.32	240	1556999	40.00000	ppb	-0.06
89) Perylene-D12 (IS)	15.04	264	1850218	40.00000	ppb	-0.09

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.34	112	1170536	97.28996	ppb	-0.05
Spiked Amount	200.000		Recovery	=	48.645%	
6) Phenol-D6 (S)	4.59	99	1220937	96.55617	ppb	-0.04
Spiked Amount	200.000		Recovery	=	48.278%	
22) Nitrobenzene-D5 (S)	5.63	82	505093	45.57974	ppb	-0.04
Spiked Amount	100.000		Recovery	=	45.580%	
46) 2-Fluorobiphenyl (S)	7.69	172	1401201	48.81651	ppb	-0.05
Spiked Amount	100.000		Recovery	=	48.817%	
64) 2,4,6-Tribromophenol (S)	9.40	330	547513	124.27389	ppb	-0.05
Spiked Amount	200.000		Recovery	=	62.137%	
82) Terphenyl-D14 (S)	12.08	244	1872657	47.95318	ppb	-0.06
Spiked Amount	100.000		Recovery	=	47.953%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.46	58	9559	10.27190		80
3) n-Nitrosodimethylamine	1.67	42	121520	73.50743	ppb	88
4) Pyridine	1.68	79	333121	81.74720	ppb	98
7) Phenol	4.61	94	800087	48.06762	ppb	83
8) Aniline	4.60	93	730963	44.95671	ppb	# 93
9) Bis (2-chloroethyl) ether	4.69	63	307540	43.24224	ppb	82
10) 2-Chlorophenol	4.73	128	674812	50.39368	ppb	97
11) 1,3-DCB	4.90	146	736761	48.79337	ppb	99
12) 1,4-DCB	4.99	146	737344	48.69346	ppb	99
13) Benzyl alcohol	5.17	108	375199	50.71697	ppb	96
14) 1,2-DCB	5.16	146	685284	49.00225	ppb	99
15) 2-Methylphenol	5.30	107	527270	49.65087	ppb	99
16) Bis (2-chloroisopropyl) et	5.30	45	449171	40.27760	ppb	# 56
17) Acetophenone	5.46	105	774726	49.23049	ppb	99
18) 3&4-Methylphenol	5.49	107	1243088	98.69978	ppb	97
19) n-Nitrosodi-n-propylamine	5.47	70	362362	48.06056	ppb	94
20) Hexachloroethane	5.53	117	237813	46.89481	ppb	94
23) Nitrobenzene	5.65	77	545512	46.90840	ppb	97
24) Isophorone	5.93	82	1008408	49.11070	ppb	92
25) 2-Nitrophenol	6.01	139	406813	54.78501	ppb	94
26) 2,4-Dimethylphenol	6.08	122	602185	52.32970	ppb	100
27) Benzoic acid	6.29	105	404896	55.18685	ppb	99
28) Bis (2-chloroethoxy) metha	6.17	93	651722	48.32127	ppb	99
29) 2,4-Dichlorophenol	6.30	162	591923	53.94143	ppb	98
30) 1,2,4-Trichlorobenzene	6.38	180	620526	51.06802	ppb	99
31) 3,4-Dimethylphenol	6.42	107	762348	51.69410	ppb	100
32) Napthalene	6.46	128	1877055	50.72045	ppb	100
33) 4-Chloroaniline	6.54	127	676388	48.96954	ppb	98
34) 2,6-Dichlorophenol	6.54	162	525345	50.62616	ppb	96
35) Hexachloropropene	6.54	213	373648	54.66085	ppb	99
36) Hexachlorobutadiene	6.59	225	360063	53.96138	ppb	99
37) Caprolactum	7.01	55	199448	46.70911	ppb	# 86

(#) = qualifier out of range (m) = manual integration

Data File : M:\YODA\DATA\Y190722\0722Y167.D
 Acq On : 1 Aug 19 15:50
 Sample : 50ug/ml 8270 07/12/19 (3)
 Misc :

Vial: 67
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 1 15:55 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.13	107	574507	53.96000	ppb	99
39) 2-Methylnaphthalene	7.26	142	1283998	51.68915	ppb	100
40) 1-Methylnaphthalene	7.37	142	1310712	51.10293	ppb	99
42) Hexachlorocyclopentadiene	7.43	237	137526	57.26202	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.45	216	655111	51.54154	ppb	100
44) 2,4,6-Trichlorophenol	7.60	196	420787	53.19528	ppb	98
45) 2,4,5-Trichlorophenol	7.67	196	441400	52.58252	ppb	99
47) 1,1'-Biphenyl	7.81	154	1667789	48.55656	ppb	98
48) 2-Chloronaphthalene	7.82	162	1303899	49.28679	ppb	99
49) 2-Nitroaniline	7.97	65	293881	46.44088	ppb	94
50) Dimethyl phthalate	8.18	163	1568294	50.89670	ppb	100
51) 2,6-DNT	8.26	165	389156	52.84990	ppb	98
52) Acenaphthylene	8.31	152	2071501	50.15061	ppb	100
53) 3-Nitroaniline	8.46	138	382890	50.04873	ppb	98
54) Acenaphthene	8.50	154	1282771	49.05035	ppb	98
55) 2,4-Dinitrophenol	8.60	184	175097	48.63010	ppb	93
56) 4-Nitrophenol	8.71	65	157702	48.36620	ppb	86
57) Dibenzofuran	8.71	168	1890791	49.61371	ppb	91
58) 2,4-DNT	8.73	165	524727	53.41886	ppb	91
59) 2,3,4,6-Tetrachlorophenol	8.87	232	380036	58.29058	ppb	92
60) Diethyl phthalate	8.99	149	1465765	50.53356	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.11	204	766650	50.03997	ppb	93
62) Fluorene	9.12	166	1431142	48.38172	ppb	98
63) 4-Nitroaniline	9.19	138	393739	53.58281	ppb	95
66) 4,6-Dinitro-2-methylphenol	9.23	198	351325	57.26810	ppb	98
67) Diphenyl amine	9.26	169	2335948	97.30051	ppb	100
68) n-Nitrosodiphenylamine	9.26	169	2335948	97.30051	ppb	100
69) 1,2-Diphenylhydrazine	9.30	77	1270156	46.80561	ppb #	85
70) 4-Bromophenyl phenyl ether	9.68	248	516512	53.83881	ppb	98
71) Hexachlorobenzene	9.76	284	567244	56.90884	ppb #	82
72) Atrazine	9.90	200	198003	22.18837	ppb	98
73) Pentachlorophenol	10.01	266	212035	65.73534	ppb	99
74) Phenanthrene	10.24	178	2220727	48.23743	ppb	99
75) Anthracene	10.30	178	2324992	49.16249	ppb	100
76) Carbazol	10.51	167	2178617	49.57552	ppb	100
77) Di-n-butylphthalate	10.90	149	2476568	50.23358	ppb	99
78) Fluoranthene	11.63	202	2541135	50.40328	ppb	98
80) Benzidine	11.81	184	424944	30.45190	ppb	100
81) Pyrene	11.90	202	2649164	48.14552	ppb	99
83) Butyl benzylphthalate	12.65	149	1136149	49.48175	ppb	96
84) 3,3'-Dichlorobenzidine	13.27	252	931483	58.60817	ppb	98
85) Benz (a) anthracene	13.30	228	2442109	48.17020	ppb	100
86) Bis (2-ethylhexyl) phthala	13.31	149	1387273	48.85637	ppb #	95
87) Chrysene	13.35	228	2457576	49.13328	ppb	100
88) Di-n-octylphthalate	14.04	149	2740013	52.32011	ppb	99
90) Benzo (b) fluoranthene	14.55	252	2611971	46.61889	ppb #	96
91) Benzo (k) fluoranthene	14.57	252	2746484	49.46770	ppb	99
92) Benzo (a) pyrene	14.96	252	2617140	49.86040	ppb	99
93) Indeno (1,2,3-cd) pyrene	16.76	276	3079806	51.19943	ppb	97
94) Dibenzo (a,h) anthracene	16.76	278	2688202	51.93961	ppb	95
95) Benzo (g,h,i) perylene	17.26	276	2533889	53.38367	ppb	96

(#) = qualifier out of range (m) = manual integration
 0722Y167.D Y0722NC.M Thu Aug 01 15:56:32 2019

Quantitation Report

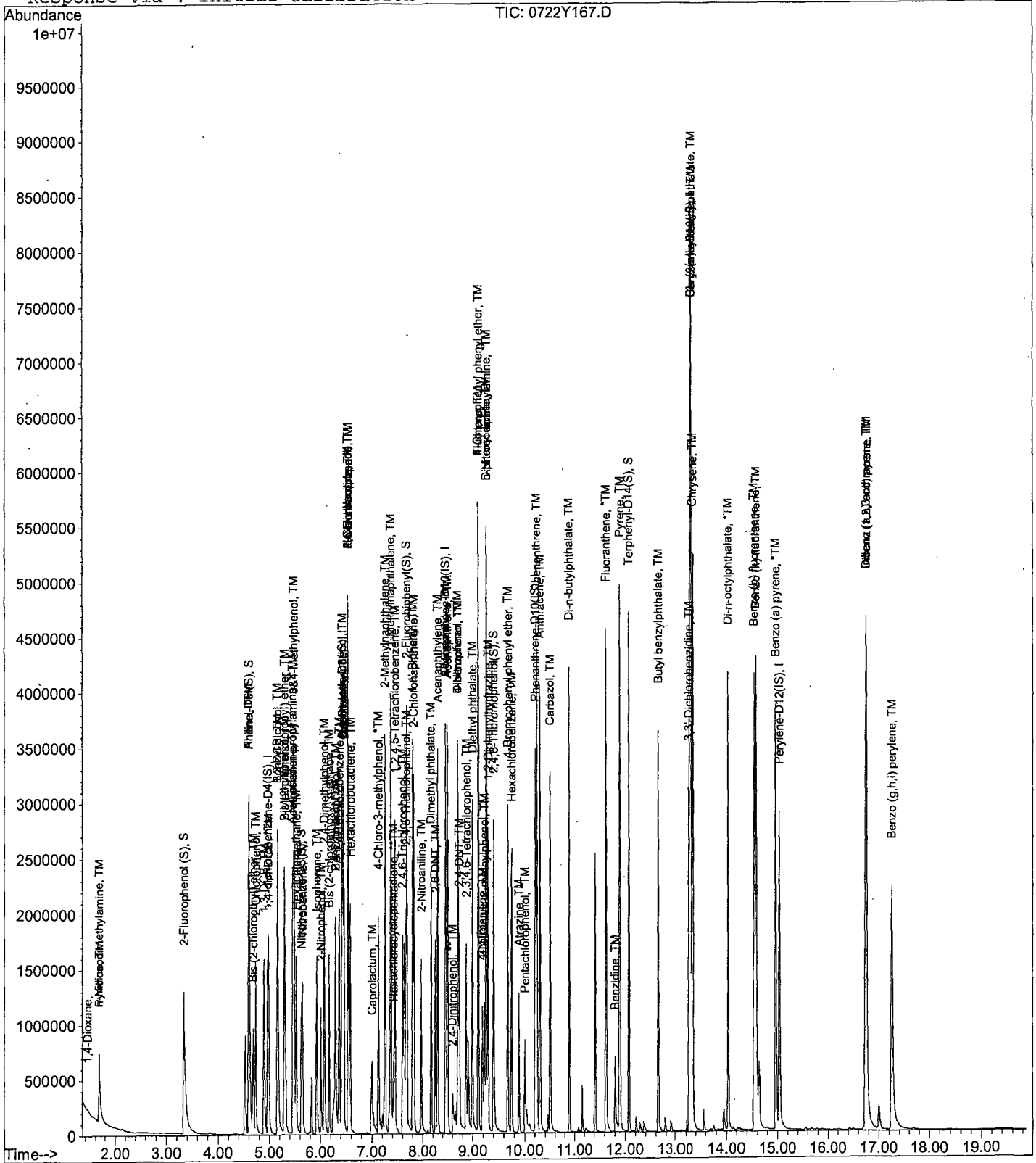
Data File : M:\YODA\DATA\Y190722\0722Y167.D
Acq On : 1 Aug 19 15:50
Sample : 50ug/ml 8270 07/12/19 (3)
Misc :

Vial: 67
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Aug 1 15:55 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



ORGANICS
Raw Data

Data File : M:\YODA\DATA\Y190722\0722Y159.D Vial: 59
 Acq On : 1 Aug 19 12:06 Operator: MA,SS
 Sample : AZ95419W08 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Aug 1 15:55 2019 Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.97	152	213534	40.00000	ppb	-0.04
21) Napthalene-D8 (IS)	6.43	136	1028744	40.00000	ppb	-0.05
41) Acenaphthene-D10 (IS)	8.47	164	653902	40.00000	ppb	-0.05
65) Phenanthrene-D10 (IS)	10.20	188	1369676	40.00000	ppb	-0.06
79) Chrysene-D12 (IS)	13.31	240	1359169	40.00000	ppb	-0.07
89) Perylene-D12 (IS)	15.03	264	636653	40.00000	ppb	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.35	112	1454254	256.81365	ppb	-0.04
Spiked Amount						
						Recovery = 102.726%
6) Phenol-D6 (S)	4.59	99	1550763	260.57141	ppb	-0.04
Spiked Amount						
						Recovery = 104.228%
22) Nitrobenzene-D5 (S)	5.62	82	755668	118.09439	ppb	-0.05
Spiked Amount						
						Recovery = 94.475%
46) 2-Fluorobiphenyl (S)	7.69	172	1939675	105.60142	ppb	-0.05
Spiked Amount						
						Recovery = 84.481%
64) 2,4,6-Tribromophenol (S)	9.40	330	699279	248.03356	ppb	-0.05
Spiked Amount						
						Recovery = 99.214%
82) Terphenyl-D14 (S)	12.08	244	2446895	89.72210	ppb	-0.06
Spiked Amount						
						Recovery = 71.778%
Target Compounds						
50) Dimethyl phthalate	8.17	163	113327	5.74738	ppb	Qvalue 98

Quantitation Report

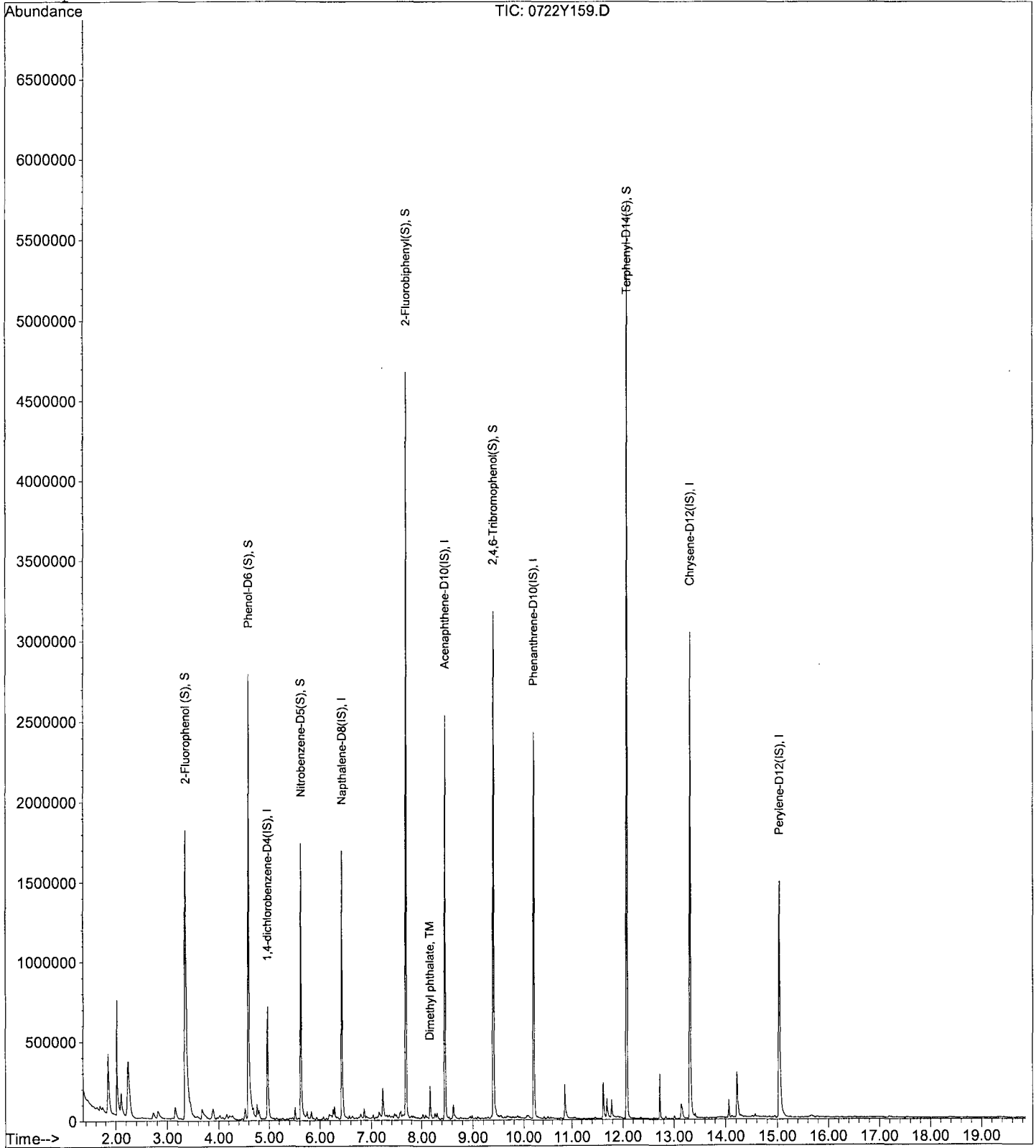
Data File : M:\YODA\DATA\Y190722\0722Y159.D
Acq On : 1 Aug 19 12:06
Sample : AZ95419W08 1/800
Misc :

Vial: 59
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Aug 1 15:55 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y160.D Vial: 60
 Acq On : 1 Aug 19 12:34 Operator: MA,SS
 Sample : AZ95421W08 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Aug 1 15:58 2019 Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.97	152	295407	40.00000	ppb	-0.04
21) Napthalene-D8 (IS)	6.43	136	1290118	40.00000	ppb	-0.05
41) Acenaphthene-D10 (IS)	8.46	164	728640	40.00000	ppb	-0.06
65) Phenanthrene-D10 (IS)	10.21	188	1466641	40.00000	ppb	-0.06
79) Chrysene-D12 (IS)	13.31	240	1465622	40.00000	ppb	-0.07
89) Perylene-D12 (IS)	15.04	264	1601784	40.00000	ppb	-0.09
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.35	112	1328528	169.58788	ppb	-0.04
Spiked Amount 250.000			Recovery =	67.835%		
6) Phenol-D6 (S)	4.59	99	1455795	176.81855	ppb	-0.04
Spiked Amount 250.000			Recovery =	70.728%		
22) Nitrobenzene-D5 (S)	5.62	82	702453	87.53735	ppb	-0.05
Spiked Amount 125.000			Recovery =	70.030%		
46) 2-Fluorobiphenyl (S)	7.68	172	1809329	88.40117	ppb	-0.05
Spiked Amount 125.000			Recovery =	70.721%		
64) 2,4,6-Tribromophenol (S)	9.40	330	640364	203.83864	ppb	-0.06
Spiked Amount 250.000			Recovery =	81.536%		
82) Terphenyl-D14 (S)	12.08	244	2305005	78.38040	ppb	-0.07
Spiked Amount 125.000			Recovery =	62.704%		
Target Compounds						Qvalue
50) Dimethyl phthalate	8.17	163	101758	4.63132	ppb	98

Quantitation Report

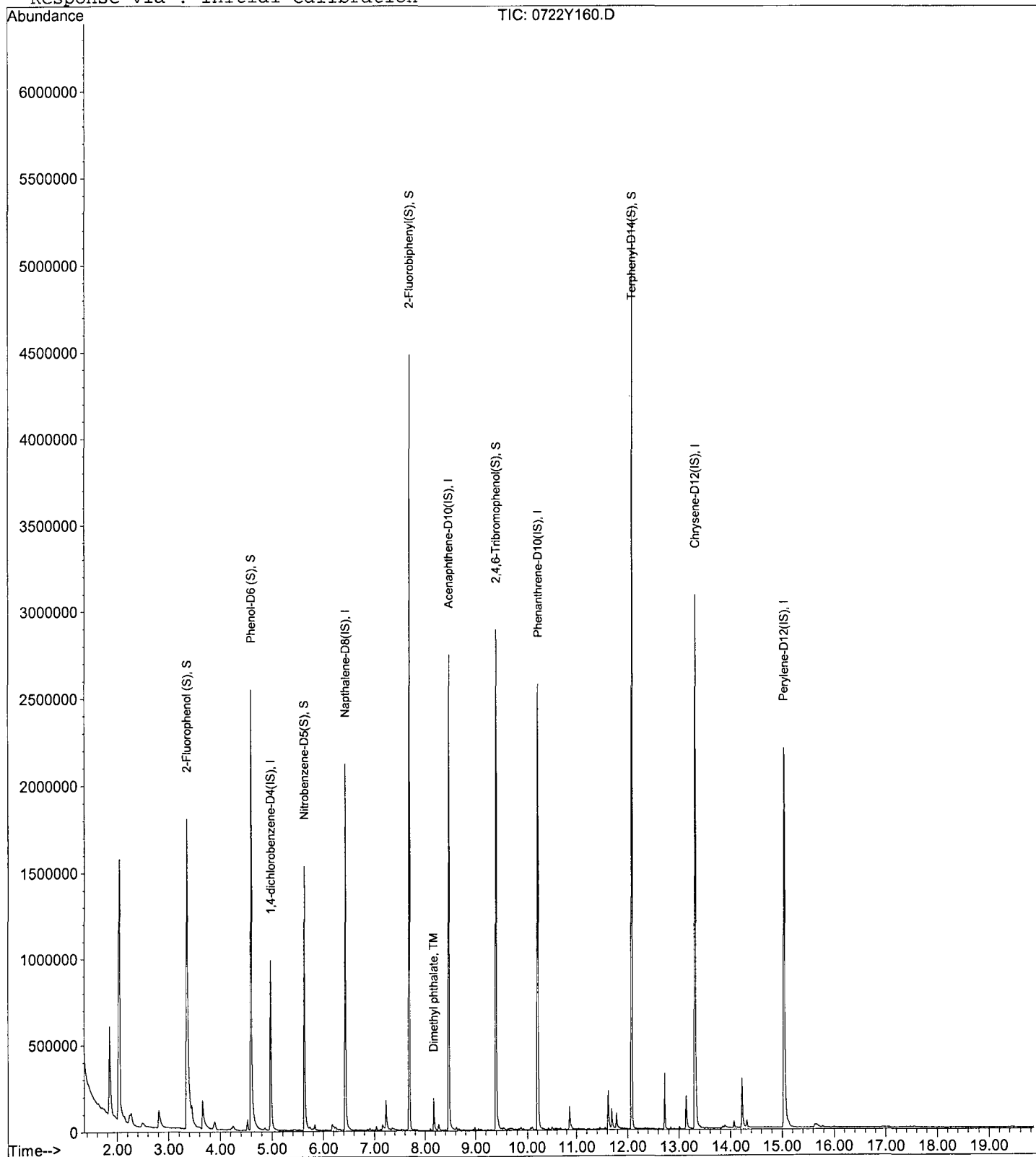
Data File : M:\YODA\DATA\Y190722\0722Y160.D
Acq On : 1 Aug 19 12:34
Sample : AZ95421W08 1/800
Misc :

Vial: 60
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Aug 1 15:58 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y161.D Vial: 61
 Acq On : 1 Aug 19 13:02 Operator: MA,SS
 Sample : AZ95423W10 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Aug 1 16:02 2019 Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.97	152	263764	40.00000	ppb	-0.04
21) Napthalene-D8 (IS)	6.43	136	1105319	40.00000	ppb	-0.05
41) Acenaphthene-D10 (IS)	8.46	164	684462	40.00000	ppb	-0.06
65) Phenanthrene-D10 (IS)	10.21	188	1421913	40.00000	ppb	-0.06
79) Chrysene-D12 (IS)	13.31	240	1421346	40.00000	ppb	-0.07
89) Perylene-D12 (IS)	15.03	264	1572939	40.00000	ppb	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.35	112	1332176	190.45438	ppb	-0.04
Spiked Amount 250.000			Recovery =	76.182%		
6) Phenol-D6 (S)	4.59	99	1444354	196.47464	ppb	-0.04
Spiked Amount 250.000			Recovery =	78.590%		
22) Nitrobenzene-D5 (S)	5.62	82	706586	102.77393	ppb	-0.05
Spiked Amount 125.000			Recovery =	82.219%		
46) 2-Fluorobiphenyl (S)	7.69	172	1830559	95.21116	ppb	-0.05
Spiked Amount 125.000			Recovery =	76.169%		
64) 2,4,6-Tribromophenol (S)	9.40	330	647402	219.38014	ppb	-0.06
Spiked Amount 250.000			Recovery =	87.752%		
82) Terphenyl-D14 (S)	12.08	244	2177554	76.35310	ppb	-0.06
Spiked Amount 125.000			Recovery =	61.082%		
Target Compounds						
50) Dimethyl phthalate	8.17	163	87893	4.25848	ppb	98
86) Bis (2-ethylhexyl) phthala	13.30	149	26591	1.28231	ppb	98

Quantitation Report

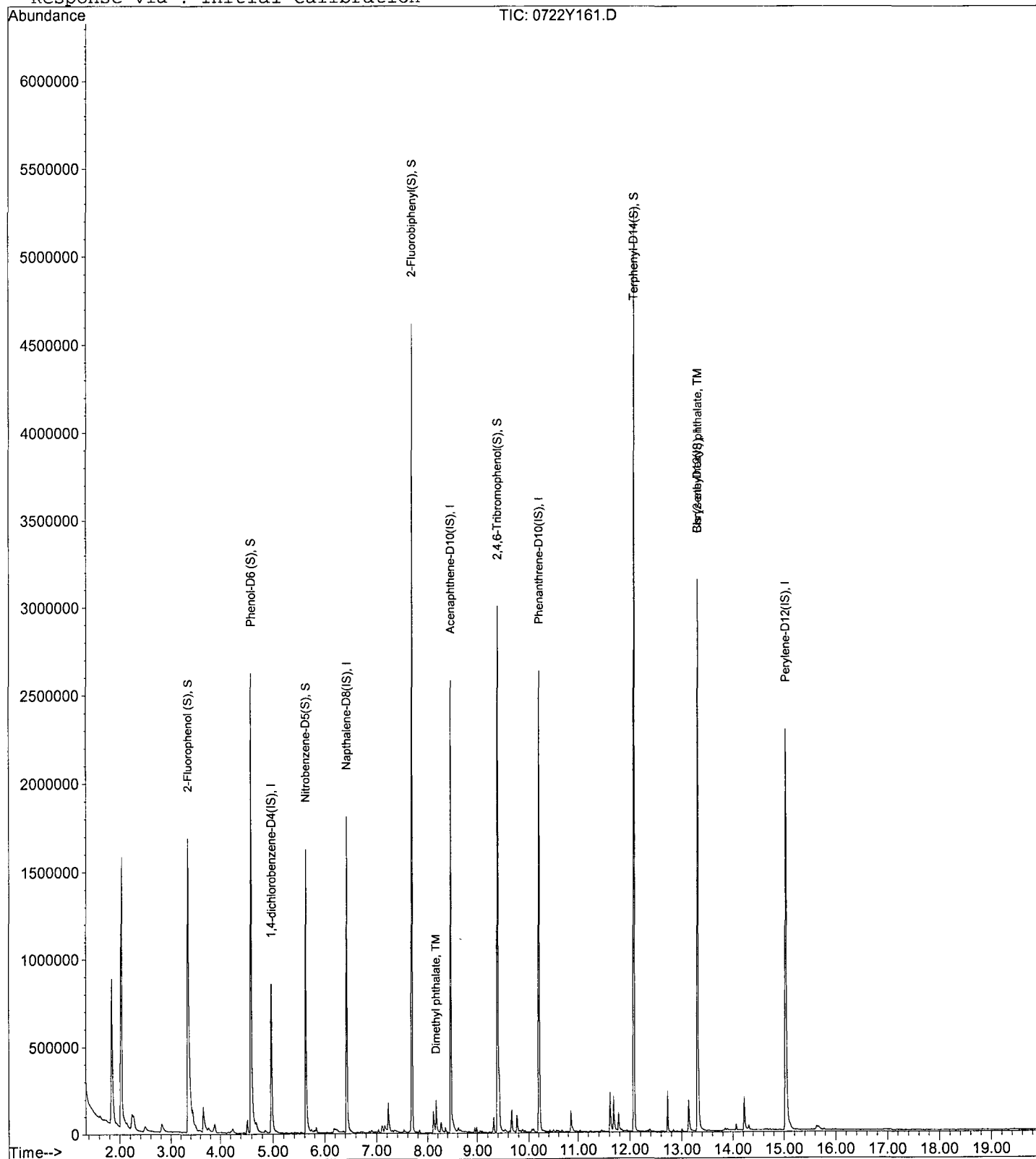
Data File : M:\YODA\DATA\Y190722\0722Y161.D
Acq On : 1 Aug 19 13:02
Sample : AZ95423W10 1/800
Misc :

Vial: 61
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Aug 1 16:02 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y156.D
 Acq On : 1 Aug 19 10:42
 Sample : 190729A BLK 1/800
 Misc :

Vial: 56
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Aug 1 15:51 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.97	152	259957	40.00000	ppb	-0.04
21) Napthalene-D8 (IS)	6.44	136	1121559	40.00000	ppb	-0.04
41) Acenaphthene-D10 (IS)	8.47	164	690767	40.00000	ppb	-0.05
65) Phenanthrene-D10 (IS)	10.21	188	1442370	40.00000	ppb	-0.06
79) Chrysene-D12 (IS)	13.32	240	1456586	40.00000	ppb	-0.07
89) Perylene-D12 (IS)	15.04	264	1567058	40.00000	ppb	-0.09
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.35	112	1429854	207.41256	ppb	-0.04
Spiked Amount	250.000		Recovery	=	82.965%	
6) Phenol-D6 (S)	4.60	99	1514396	209.01926	ppb	-0.03
Spiked Amount	250.000		Recovery	=	83.608%	
22) Nitrobenzene-D5 (S)	5.63	82	768494	110.16000	ppb	-0.04
Spiked Amount	125.000		Recovery	=	88.128%	
46) 2-Fluorobiphenyl (S)	7.68	172	1965681	101.30594	ppb	-0.05
Spiked Amount	125.000		Recovery	=	81.045%	
64) 2,4,6-Tribromophenol (S)	9.40	330	689719	231.58650	ppb	-0.06
Spiked Amount	250.000		Recovery	=	92.634%	
82) Terphenyl-D14 (S)	12.08	244	2535186	86.74236	ppb	-0.06
Spiked Amount	125.000		Recovery	=	69.394%	
Target Compounds						
50) Dimethyl phthalate	8.18	163	151055	7.25192	ppb	Qvalue 99

Quantitation Report

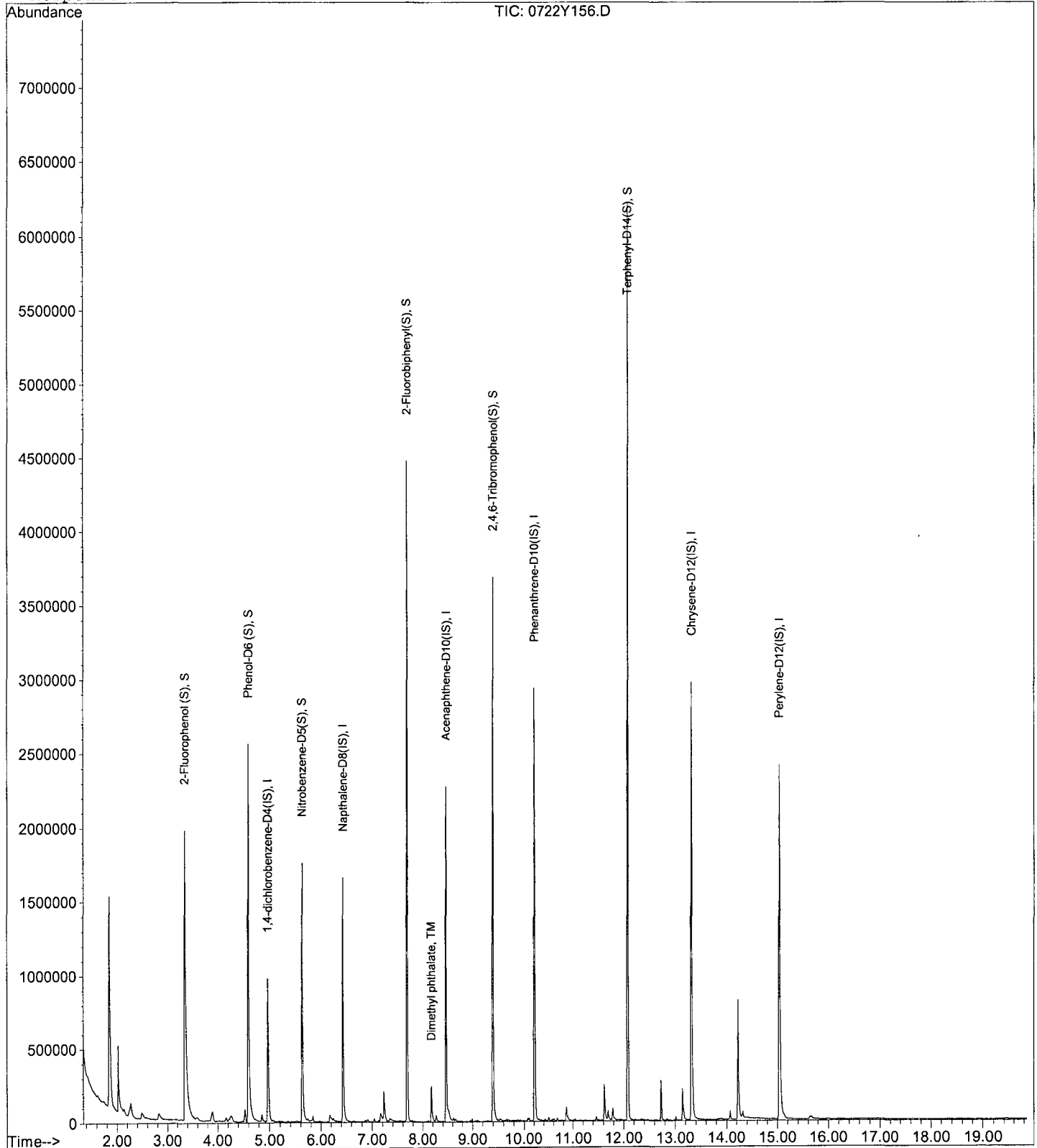
Data File : M:\YODA\DATA\Y190722\0722Y156.D
Acq On : 1 Aug 19 10:42
Sample : 190729A BLK 1/800
Misc :

Vial: 56
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Aug 1 15:51 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y157.D
 Acq On : 1 Aug 19 11:10
 Sample : 190729A LCS-1 1/800
 Misc :

Vial: 57
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Aug 1 15:02 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.97	152	245598	40.00000	ppb	-0.04
21) Naphthalene-D8 (IS)	6.43	136	1065589	40.00000	ppb	-0.05
41) Acenaphthene-D10 (IS)	8.46	164	686301	40.00000	ppb	-0.06
65) Phenanthrene-D10 (IS)	10.21	188	1437798	40.00000	ppb	-0.06
79) Chrysene-D12 (IS)	13.32	240	1343242	40.00000	ppb	-0.07
89) Perylene-D12 (IS)	15.04	264	1608089	40.00000	ppb	-0.09

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.35	112	1492410	229.14384	ppb	-0.04
Spiked Amount 250.000			Recovery =	91.658%		
6) Phenol-D6 (S)	4.60	99	1567390	228.98162	ppb	-0.03
Spiked Amount 250.000			Recovery =	91.593%		
22) Nitrobenzene-D5 (S)	5.63	82	755221	113.94359	ppb	-0.04
Spiked Amount 125.000			Recovery =	91.155%		
46) 2-Fluorobiphenyl (S)	7.68	172	1962435	101.79680	ppb	-0.05
Spiked Amount 125.000			Recovery =	81.438%		
64) 2,4,6-Tribromophenol (S)	9.40	330	729052	246.38627	ppb	-0.06
Spiked Amount 250.000			Recovery =	98.554%		
82) Terphenyl-D14 (S)	12.08	244	2627327	97.48043	ppb	-0.06
Spiked Amount 125.000			Recovery =	77.984%		

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.45	58	15236	30.24449		# 21
3) n-Nitrosodimethylamine	1.68	42	80597	90.06149	ppb	89
4) Pyridine	1.69	79	163304	74.02945	ppb	94
7) Phenol	4.61	94	557646	61.88861	ppb	90
8) Aniline	4.60	93	394140	44.78024	ppb	# 80
9) Bis (2-chloroethyl) ether	4.69	63	213214	55.38078	ppb	85
10) 2-Chlorophenol	4.74	128	462626	63.82048	ppb	94
11) 1,3-DCB	4.90	146	473682	57.95059	ppb	100
12) 1,4-DCB	4.99	146	480215	58.58318	ppb	100
13) Benzyl alcohol	5.17	108	262185	65.46908	ppb	97
14) 1,2-DCB	5.16	146	454928	60.09313	ppb	99
15) 2-Methylphenol	5.31	107	356952	62.09268	ppb	96
16) Bis (2-chloroisopropyl) et	5.30	45	308961	51.17906	ppb	# 65
17) Acetophenone	5.46	105	545548	64.04066	ppb	98
18) 3&4-Methylphenol	5.48	107	859846	126.11646	ppb	96
19) n-Nitrosodi-n-propylamine	5.46	70	249088	61.02893	ppb	92
20) Hexachloroethane	5.53	117	141335	51.48441	ppb	86
23) Nitrobenzene	5.65	77	383238	55.09729	ppb	98
24) Isophorone	5.92	82	706643	57.53806	ppb	95
25) 2-Nitrophenol	6.01	139	278238	62.64677	ppb	95
26) 2,4-Dimethylphenol	6.08	122	372262	54.08568	ppb	100
27) Benzoic acid	6.27	105	270750	61.69868	ppb	98
28) Bis (2-chloroethoxy) metha	6.17	93	451891	56.01766	ppb	98
29) 2,4-Dichlorophenol	6.30	162	407244	62.04792	ppb	100
30) 1,2,4-Trichlorobenzene	6.37	180	406321	55.90795	ppb	99
31) 3,4-Dimethylphenol	6.42	107	504927	57.24421	ppb	98
32) Naphthalene	6.46	128	1275107	57.60604	ppb	99
33) 4-Chloroaniline	6.54	127	282298	34.17065	ppb	98
34) 2,6-Dichlorophenol	6.54	162	373261	60.13930	ppb	96
35) Hexachloropropene	6.54	213	201149	49.19794	ppb	98
36) Hexachlorobutadiene	6.59	225	209477	52.48753	ppb	98
37) Caprolactum	6.98	55	126388	49.48722	ppb	89

(#) = qualifier out of range (m) = manual integration
 0722Y157.D Y0722NC.M Sat Aug 24 11:34:56 2019

Data File : M:\YODA\DATA\Y190722\0722Y157.D
 Acq On : 1 Aug 19 11:10
 Sample : 190729A LCS-1 1/800
 Misc :

Vial: 57
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Aug 1 15:02 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.13	107	392857	61.69165	ppb	98
39) 2-Methylnaphthalene	7.26	142	873683	58.80364	ppb	99
40) 1-Methylnaphthalene	7.37	142	867730	56.56379	ppb	98
42) Hexachlorocyclopentadiene	7.42	237	4449	17.97196	ppb	96
43) 1,2,4,5-Tetrachlorobenzene	7.45	216	420428	49.25005	ppb	99
44) 2,4,6-Trichlorophenol	7.61	196	304690	57.35107	ppb	99
45) 2,4,5-Trichlorophenol	7.67	196	301951	53.55722	ppb	98
47) 1,1'-Biphenyl	7.80	154	1089902	47.24619	ppb	98
48) 2-Chloronaphthalene	7.82	162	901608	50.74309	ppb	99
49) 2-Nitroaniline	7.97	65	197671	46.50979	ppb	93
50) Dimethyl phthalate	8.17	163	1196602	57.82084	ppb	98
51) 2,6-DNT	8.26	165	266929	53.97451	ppb	92
52) Acenaphthylene	8.31	152	1392573	50.19743	ppb	99
53) 3-Nitroaniline	8.45	138	224153	43.62507	ppb	94
54) Acenaphthene	8.50	154	871399	49.61152	ppb	99
55) 2,4-Dinitrophenol	8.61	184	143145	59.63002	ppb	93
56) 4-Nitrophenol	8.70	65	118797	54.24788	ppb	90
57) Dibenzofuran	8.70	168	1301177	50.83549	ppb	91
58) 2,4-DNT	8.73	165	360118	54.58566	ppb	87
59) 2,3,4,6-Tetrachlorophenol	8.87	232	257057	58.70506	ppb	93
60) Diethyl phthalate	8.99	149	1017401	52.22521	ppb	98
61) 4-Chlorophenyl phenyl ethe	9.10	204	537605	52.24632	ppb	94
62) Fluorene	9.11	166	1011502	50.91407	ppb	97
63) 4-Nitroaniline	9.19	138	241906	49.01581	ppb	92
66) 4,6-Dinitro-2-methylphenol	9.22	198	235169	55.66939	ppb	89
67) Diphenyl amine	9.26	169	1525308	92.26609	ppb	100
68) n-Nitrosodiphenylamine	9.26	169	1525308	92.26609	ppb	100
69) 1,2-Diphenylhydrazine	9.30	77	873100	46.72373	ppb #	80
70) 4-Bromophenyl phenyl ether	9.68	248	351180	53.15908	ppb	98
71) Hexachlorobenzene	9.75	284	377585	55.01196	ppb #	81
72) Atrazine	9.89	200	157157	25.57525	ppb	100
73) Pentachlorophenol	10.00	266	166560	74.98850	ppb	100
74) Phenanthrene	10.24	178	1542553	48.65884	ppb	99
75) Anthracene	10.30	178	1580769	48.54153	ppb	100
76) Carbazol	10.51	167	1489937	49.23647	ppb	99
77) Di-n-butylphthalate	10.90	149	1778307	52.38214	ppb	99
78) Fluoranthene	11.63	202	1761182	50.73036	ppb	99
80) Benzidine	11.82	184	38981	4.04743	ppb #	91
81) Pyrene	11.90	202	1828370	48.14545	ppb	100
83) Butyl benzylphthalate	12.65	149	784235	49.48802	ppb	95
84) 3,3'-Dichlorobenzidine	13.27	252	363228	33.11362	ppb	99
85) Benz (a) anthracene	13.30	228	1675776	47.89316	ppb	100
86) Bis (2-ethylhexyl) phthala	13.31	149	1006952	51.38213	ppb	97
87) Chrysene	13.35	228	1718794	49.78938	ppb	99
88) Di-n-octylphthalate	14.03	149	1895768	52.44998	ppb	99
90) Benzo (b) fluoranthene	14.54	252	1763961	45.27990	ppb	97
91) Benzo (k) fluoranthene	14.57	252	1896260	49.12079	ppb	99
92) Benzo (a) pyrene	14.96	252	1724417	47.24914	ppb	99
93) Indeno (1,2,3-cd) pyrene	16.74	276	1982034	47.38880	ppb	95
94) Dibenz (a,h) anthracene	16.75	278	1831337	50.88947	ppb	97
95) Benzo (g,h,i) perylene	17.25	276	1804403	54.67355	ppb	97

(#) = qualifier out of range (m) = manual integration
 0722Y157.D Y0722NC.M Sat Aug 24 11:34:57 2019

Quantitation Report

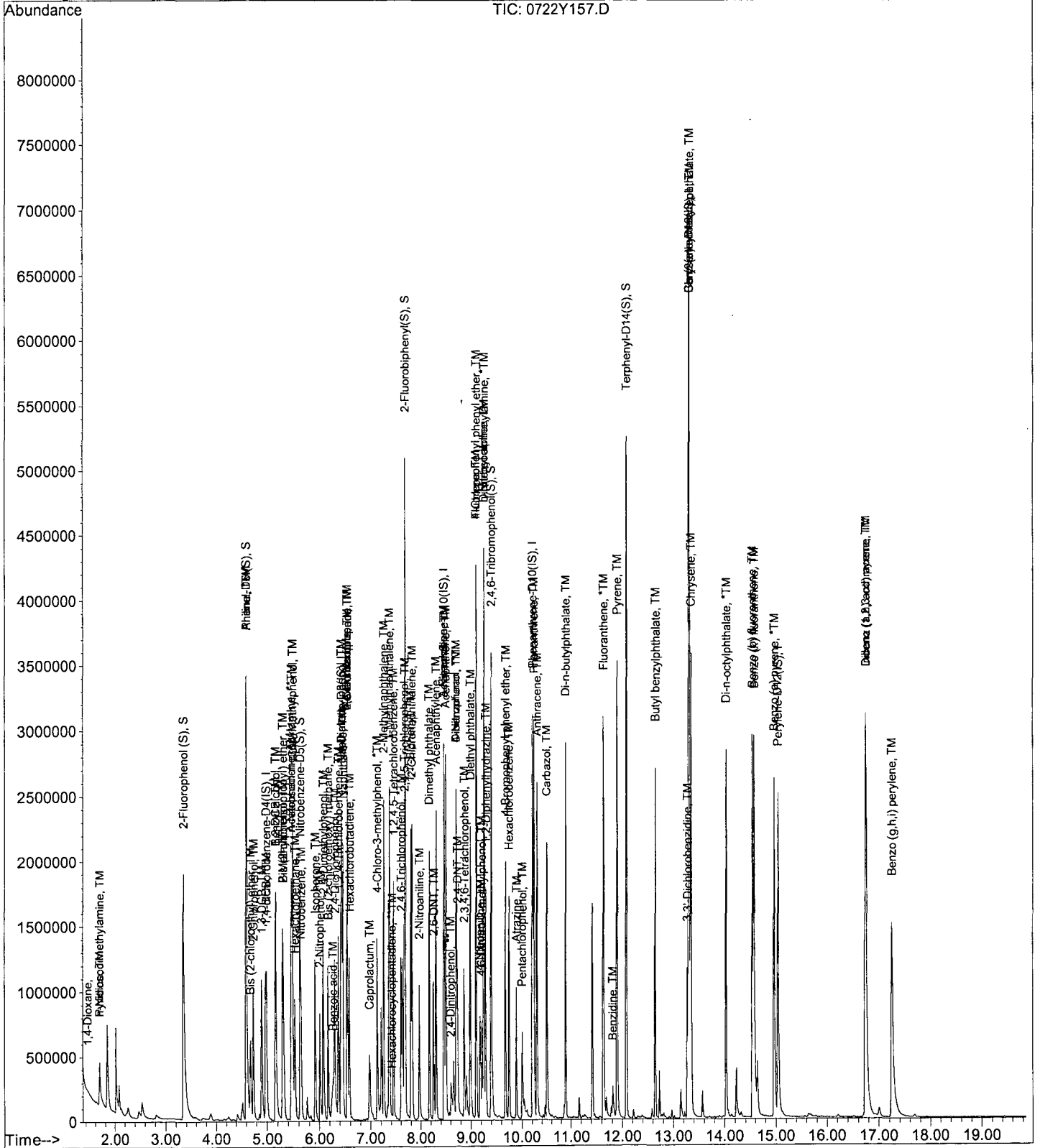
Data File : M:\YODA\DATA\Y190722\0722Y157.D
Acq On : 1 Aug 19 11:10
Sample : 190729A LCS-1 1/800
Misc :

Vial: 57
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Aug 1 15:02 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y158.D Vial: 58
 Acq On : 1 Aug 19 11:38 Operator: MA,SS
 Sample : 190729A LCSD-1 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Aug 1 15:02 2019 Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.96	152	265350	40.00000	ppb	-0.05
21) Naphthalene-D8 (IS)	6.43	136	1142006	40.00000	ppb	-0.05
41) Acenaphthene-D10 (IS)	8.46	164	692648	40.00000	ppb	-0.06
65) Phenanthrene-D10 (IS)	10.21	188	1440632	40.00000	ppb	-0.06
79) Chrysene-D12 (IS)	13.32	240	1350111	40.00000	ppb	-0.07
89) Perylene-D12 (IS)	15.04	264	1593481	40.00000	ppb	-0.09

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol (S)	3.35	112	1460140	207.50104	ppb	-0.04
Spiked Amount 250.000			Recovery =	83.000%		
6) Phenol-D6 (S)	4.60	99	1540313	208.27554	ppb	-0.03
Spiked Amount 250.000			Recovery =	83.310%		
22) Nitrobenzene-D5 (S)	5.63	82	734798	103.44396	ppb	-0.04
Spiked Amount 125.000			Recovery =	82.755%		
46) 2-Fluorobiphenyl (S)	7.68	172	1917096	98.53369	ppb	-0.05
Spiked Amount 125.000			Recovery =	78.827%		
64) 2,4,6-Tribromophenol (S)	9.40	330	701952	235.05390	ppb	-0.06
Spiked Amount 250.000			Recovery =	94.022%		
82) Terphenyl-D14 (S)	12.08	244	2537743	93.67759	ppb	-0.07
Spiked Amount 125.000			Recovery =	74.942%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.46	58	7874	14.46693		78
3) n-Nitrosodimethylamine	1.68	42	73535	76.05365	ppb	89
4) Pyridine	1.69	79	156822	65.79917	ppb	94
7) Phenol	4.61	94	542949	55.77209	ppb	86
8) Aniline	4.60	93	434523	45.69350	ppb	# 85
9) Bis (2-chloroethyl) ether	4.69	63	205906	49.50147	ppb	84
10) 2-Chlorophenol	4.74	128	444130	56.70820	ppb	94
11) 1,3-DCB	4.90	146	453844	51.39055	ppb	100
12) 1,4-DCB	4.99	146	459926	51.93151	ppb	99
13) Benzyl alcohol	5.17	108	254576	58.83714	ppb	95
14) 1,2-DCB	5.16	146	431700	52.78007	ppb	99
15) 2-Methylphenol	5.30	107	345429	55.61541	ppb	98
16) Bis (2-chloroisopropyl) et	5.30	45	299844	45.97162	ppb	# 60
17) Acetophenone	5.46	105	524613	56.99905	ppb	98
18) 3&4-Methylphenol	5.48	107	833144	113.10372	ppb	97
19) n-Nitrosodi-n-propylamine	5.46	70	240945	54.63948	ppb	98
20) Hexachloroethane	5.53	117	135667	45.74103	ppb	90
23) Nitrobenzene	5.65	77	372652	49.99038	ppb	96
24) Isophorone	5.92	82	678930	51.58240	ppb	94
25) 2-Nitrophenol	6.01	139	271539	57.04739	ppb	95
26) 2,4-Dimethylphenol	6.08	122	383188	51.94776	ppb	99
27) Benzoic acid	6.27	105	289654	61.58973	ppb	98
28) Bis (2-chloroethoxy) metha	6.17	93	442538	51.18741	ppb	99
29) 2,4-Dichlorophenol	6.30	162	395904	56.28385	ppb	99
30) 1,2,4-Trichlorobenzene	6.38	180	389580	50.01754	ppb	99
31) 3,4-Dimethylphenol	6.42	107	500973	52.99546	ppb	98
32) Naphthalene	6.46	128	1232181	51.94183	ppb	99
33) 4-Chloroaniline	6.54	127	301488	34.05154	ppb	97
34) 2,6-Dichlorophenol	6.54	162	361059	54.28067	ppb	96
35) Hexachloropropene	6.54	213	191031	43.59676	ppb	98
36) Hexachlorobutadiene	6.59	225	197615	46.20203	ppb	98
37) Caprolactum	6.98	55	127023	46.40780	ppb	90

(#) = qualifier out of range (m) = manual integration
 0722Y158.D Y0722NC.M Sat Aug 24 11:35:01 2019

Data File : M:\YODA\DATA\Y190722\0722Y158.D
 Acq On : 1 Aug 19 11:38
 Sample : 190729A LCSD-1 1/800
 Misc :

Vial: 58
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Aug 1 15:02 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.13	107	382236	56.00733	ppb	95
39) 2-Methylnaphthalene	7.26	142	835592	52.47663	ppb	99
40) 1-Methylnaphthalene	7.37	142	825104	50.18615	ppb	98
42) Hexachlorocyclopentadiene	7.42	237	3626	17.24415	ppb	93
43) 1,2,4,5-Tetrachlorobenzene	7.45	216	406760	47.21232	ppb	98
44) 2,4,6-Trichlorophenol	7.60	196	294010	54.83369	ppb	100
45) 2,4,5-Trichlorophenol	7.67	196	300805	52.86505	ppb	99
47) 1,1'-Biphenyl	7.80	154	1068371	45.88846	ppb	98
48) 2-Chloronaphthalene	7.82	162	851104	47.46176	ppb	99
49) 2-Nitroaniline	7.97	65	199111	46.41932	ppb	92
50) Dimethyl phthalate	8.17	163	1150116	55.06534	ppb	98
51) 2,6-DNT	8.26	165	256496	51.38964	ppb	91
52) Acenaphthylene	8.31	152	1341684	47.91989	ppb	100
53) 3-Nitroaniline	8.46	138	221411	42.69655	ppb #	93
54) Acenaphthene	8.50	154	833667	47.02839	ppb	99
55) 2,4-Dinitrophenol	8.60	184	139610	58.18419	ppb	97
56) 4-Nitrophenol	8.71	65	116422	52.67619	ppb	87
57) Dibenzofuran	8.71	168	1255539	48.60298	ppb	92
58) 2,4-DNT	8.73	165	357296	53.66164	ppb	83
59) 2,3,4,6-Tetrachlorophenol	8.87	232	249402	56.43495	ppb	93
60) Diethyl phthalate	8.99	149	994620	50.58798	ppb	97
61) 4-Chlorophenyl phenyl ethe	9.10	204	516222	49.70854	ppb	95
62) Fluorene	9.10	166	972669	48.51078	ppb	99
63) 4-Nitroaniline	9.19	138	237241	47.63008	ppb #	87
66) 4,6-Dinitro-2-methylphenol	9.22	198	228613	54.01099	ppb	93
67) Diphenyl amine	9.26	169	1359301	82.06256	ppb	99
68) n-Nitrosodiphenylamine	9.26	169	1359301	82.06256	ppb	99
69) 1,2-Diphenylhydrazine	9.30	77	846799	45.22709	ppb #	80
70) 4-Bromophenyl phenyl ether	9.68	248	340919	51.50432	ppb	98
71) Hexachlorobenzene	9.75	284	361431	52.55483	ppb	97
72) Atrazine	9.89	200	148892	24.18257	ppb	99
73) Pentachlorophenol	10.01	266	164055	73.71540	ppb	99
74) Phenanthrene	10.24	178	1505404	47.39358	ppb	99
75) Anthracene	10.30	178	1553863	47.62145	ppb	99
76) Carbazol	10.50	167	1432411	47.24235	ppb	96
77) Di-n-butylphthalate	10.90	149	1698332	49.92797	ppb	99
78) Fluoranthene	11.63	202	1697387	48.79658	ppb	99
80) Benzidine	11.83	184	24584	2.53959	ppb	91
81) Pyrene	11.90	202	1768086	46.32115	ppb	99
83) Butyl benzylphthalate	12.65	149	757583	47.56296	ppb	93
84) 3,3'-Dichlorobenzidine	13.27	252	382612	34.70329	ppb	98
85) Benz (a) anthracene	13.30	228	1637795	46.56953	ppb	99
86) Bis (2-ethylhexyl) phthala	13.31	149	948562	48.15638	ppb #	95
87) Chrysene	13.35	228	1656229	47.73292	ppb	99
88) Di-n-octylphthalate	14.03	149	1819443	50.08220	ppb	98
90) Benzo (b) fluoranthene	14.54	252	1742456	45.13791	ppb	99
91) Benzo (k) fluoranthene	14.57	252	1836778	48.01615	ppb	99
92) Benzo (a) pyrene	14.96	252	1669944	46.17605	ppb	99
93) Indeno (1,2,3-cd) pyrene	16.75	276	1933177	46.64439	ppb	96
94) Dibenz (a,h) anthracene	16.75	278	1786595	50.10130	ppb	96
95) Benzo (g,h,i) perylene	17.25	276	1739847	53.20078	ppb	98

(#) = qualifier out of range (m) = manual integration
 0722Y158.D Y0722NC.M Sat Aug 24 11:35:02 2019

Quantitation Report

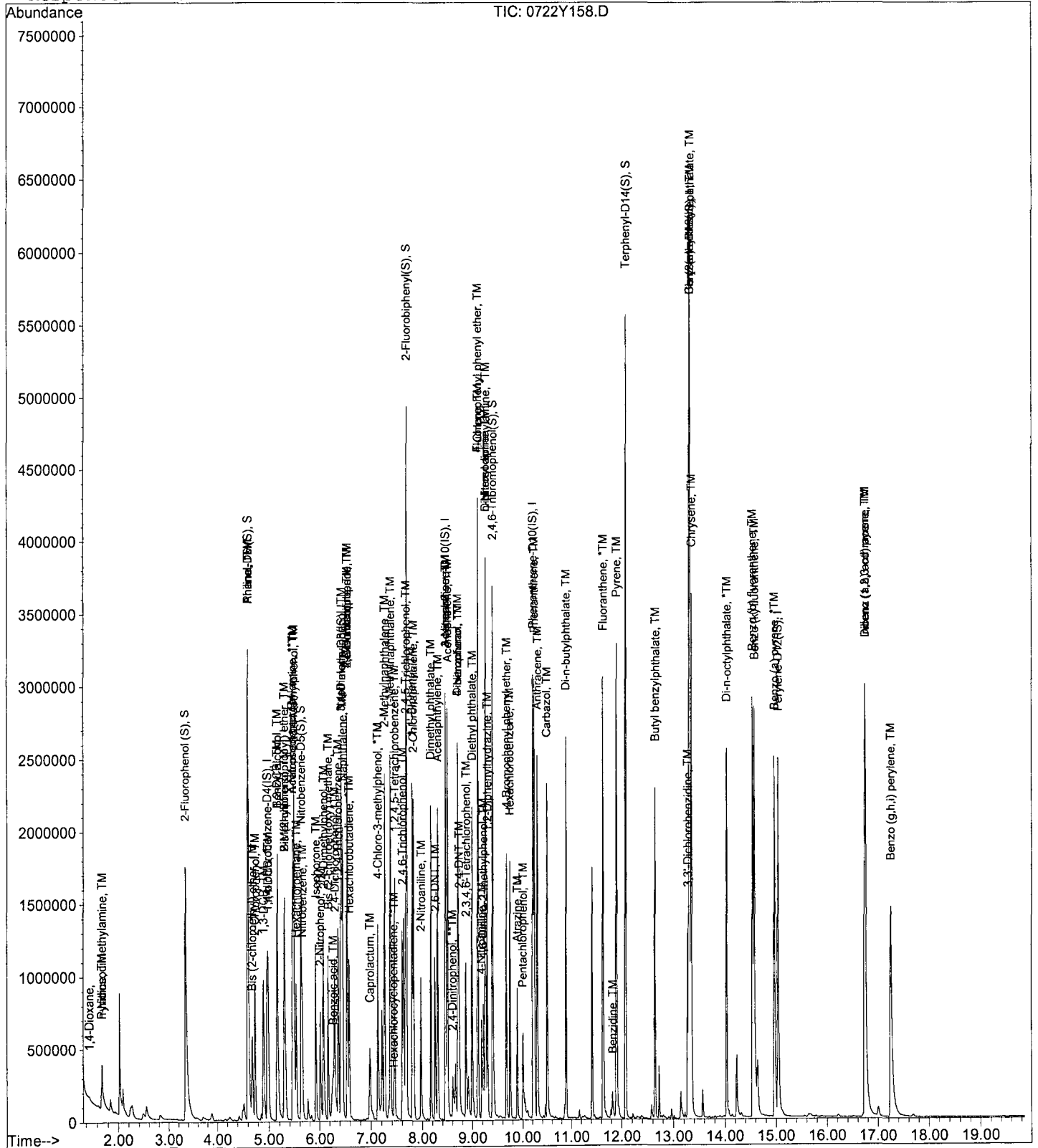
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Acq On : 1 Aug 19 11:38
Sample : 190729A LCSD-1 1/800
Misc :

Vial: 58
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Aug 1 15:02 2019

Quant Results File: Y0722NC.RES

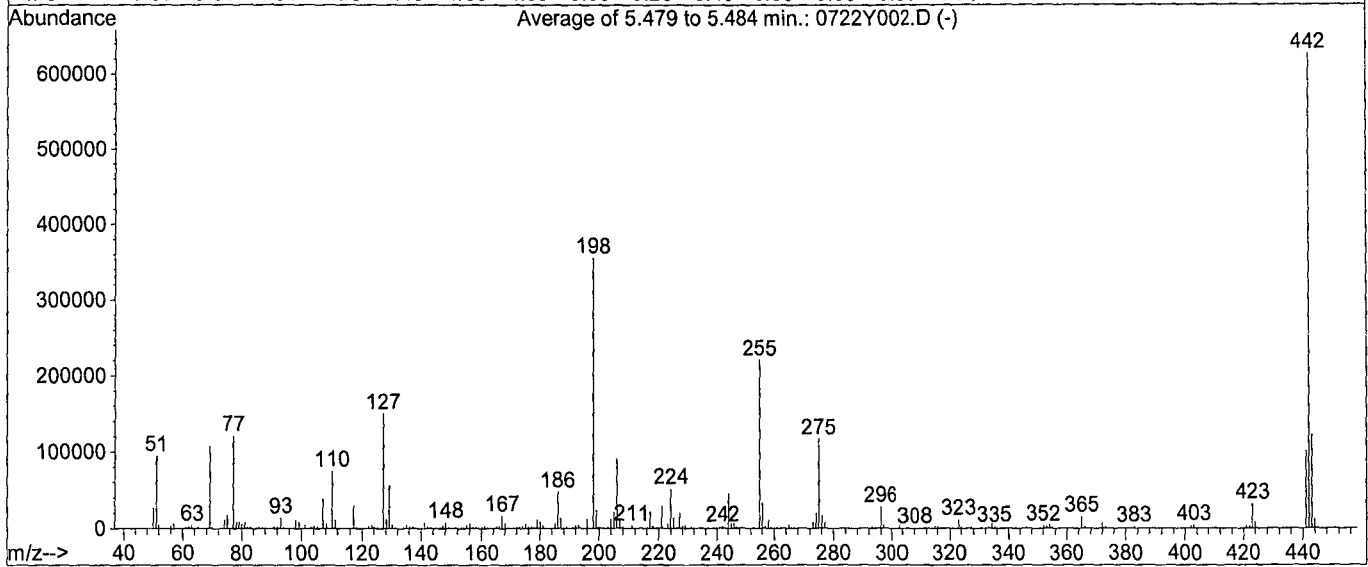
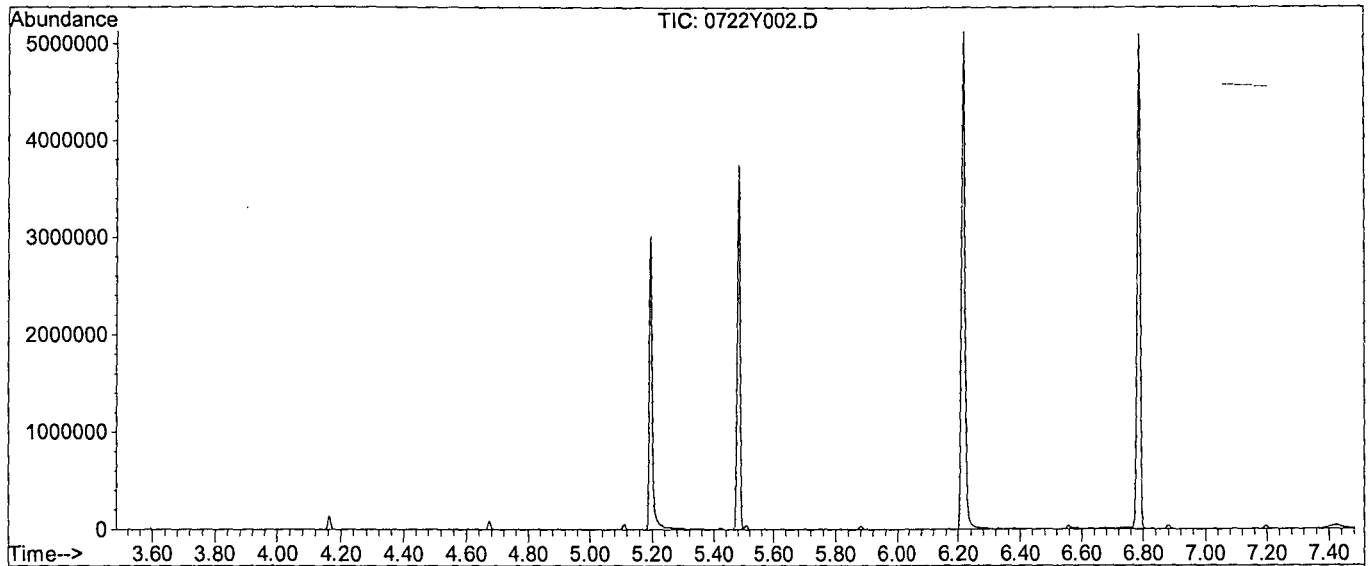
Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y002.D
 Acq On : 22 Jul 19 13:46
 Sample : SV TUNE 07/11/19
 Misc :

Vial: 2
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C



Spectrum Information: Average of 5.479 to 5.484 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	26.6	94405	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.5	531	PASS
127	198	10	80	42.2	149845	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	355456	PASS
199	198	5	9	6.7	23792	PASS
275	198	10	60	32.8	116749	PASS
365	198	1	100	4.2	14956	PASS
441	442	0.01	24	16.1	100755	PASS
442	198	50	500	176.3	626581	PASS
443	442	15	24	19.5	122216	PASS

Data File Name: 0722Y002.D
Data File Path: M:\YODA\DATA\Y190722\
Operator: MA,SS
Date Acquired: 22 Jul 2019 13:46
Method File: DFTPP2.M
Sample Name: SV TUNE 07/11/19
Vial Number: 2
Instrument Name: Yoda

#	Name	Ret Time	Target Response
1)	DDT	6.87	36257100
2)	DDD	6.46	129952
3)	DDE	6.66	0

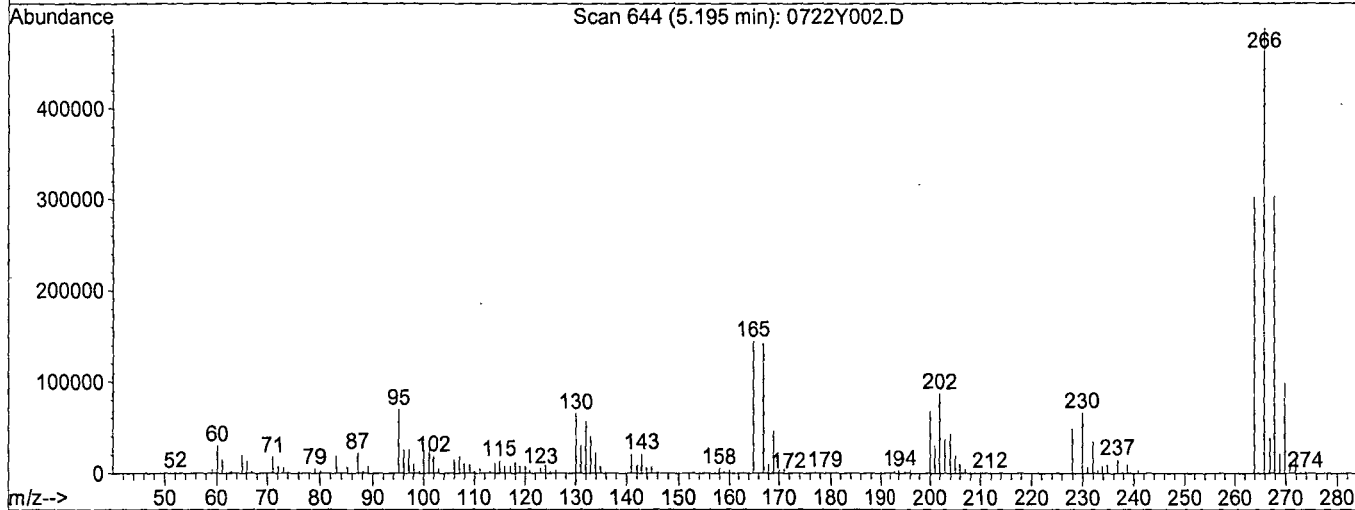
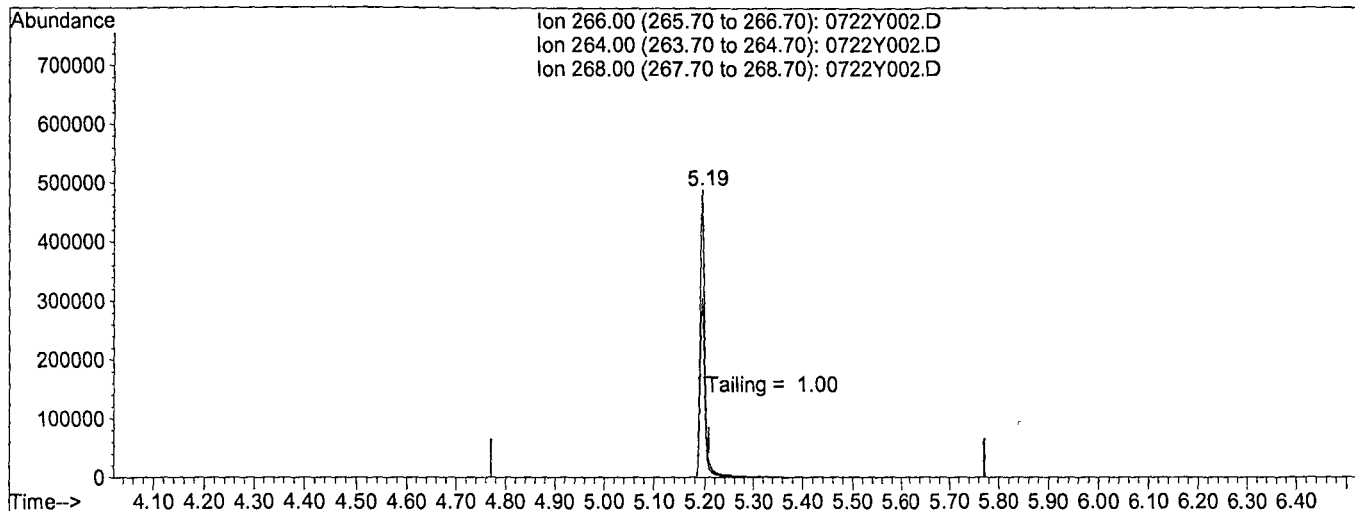
Breakdown 0.36

Quantitation Report

Data File : M:\YODA\DATA\Y190722\0722Y002.D
 Acq On : 22 Jul 19 13:46
 Sample : SV TUNE 07/11/19
 Misc :
 Quant Time: Jul 22 13:41 2019

Vial: 2
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190722\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Tue Jul 16 08:38:31 2019
 Response via : Single Level Calibration



TIC: 0722Y002.D

(5) Pentachlorophenol

5.20min 0.0000

response 3128882

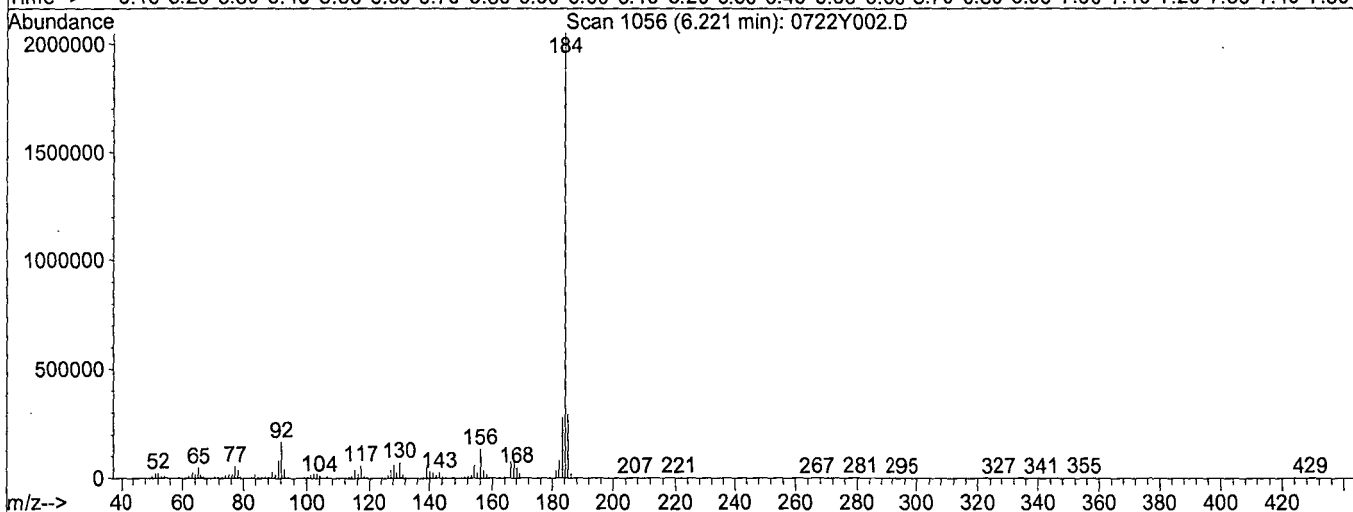
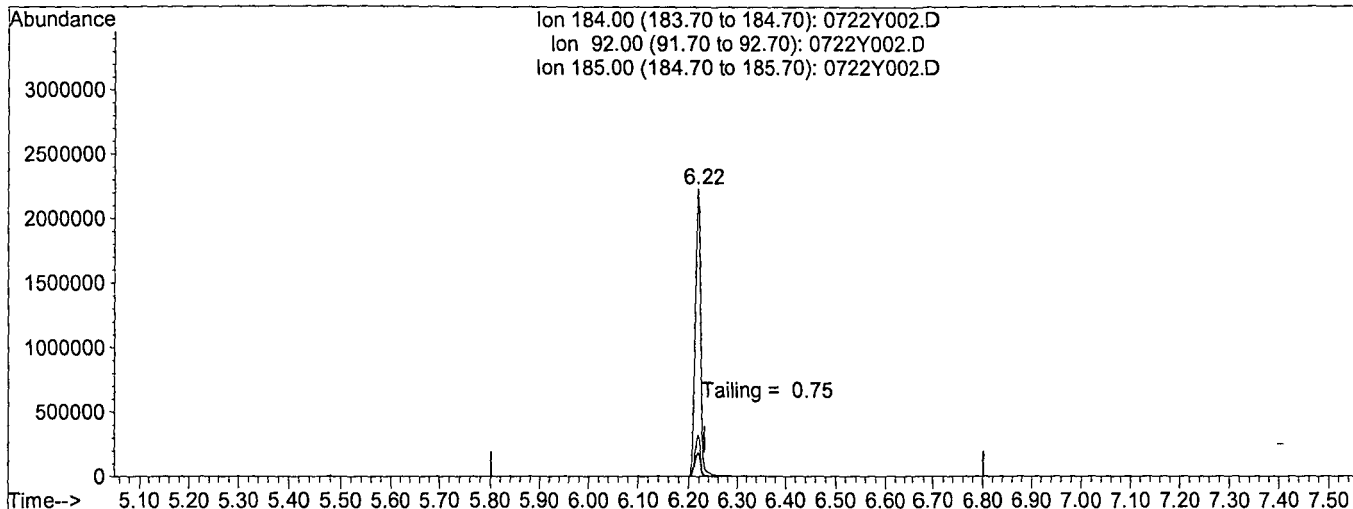
Ion	Exp%	Act%
266.00	100	100
264.00	63.30	61.86
268.00	65.70	62.20
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190722\0722Y002.D
 Acq On : 22 Jul 19 13:46
 Sample : SV TUNE 07/11/19
 Misc :
 Quant Time: Jul 22 13:41 2019

Vial: 2
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190722\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Tue Jul 16 08:38:31 2019
 Response via : Single Level Calibration



TIC: 0722Y002.D

(6) Benzidine

6.22min 0.0000

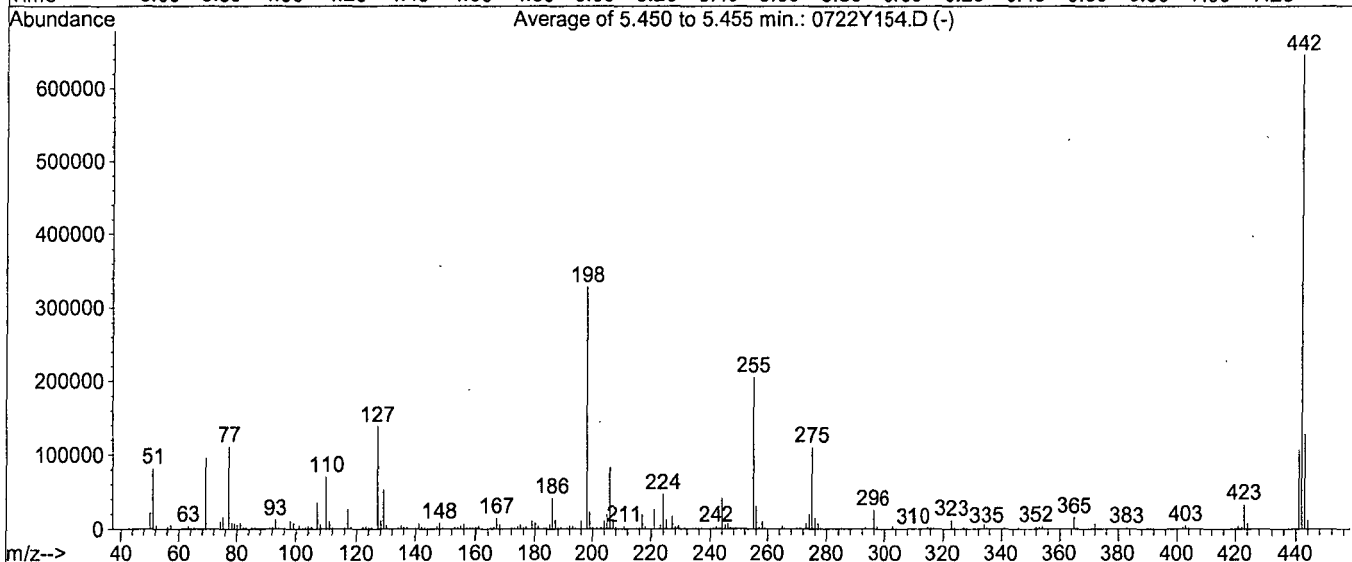
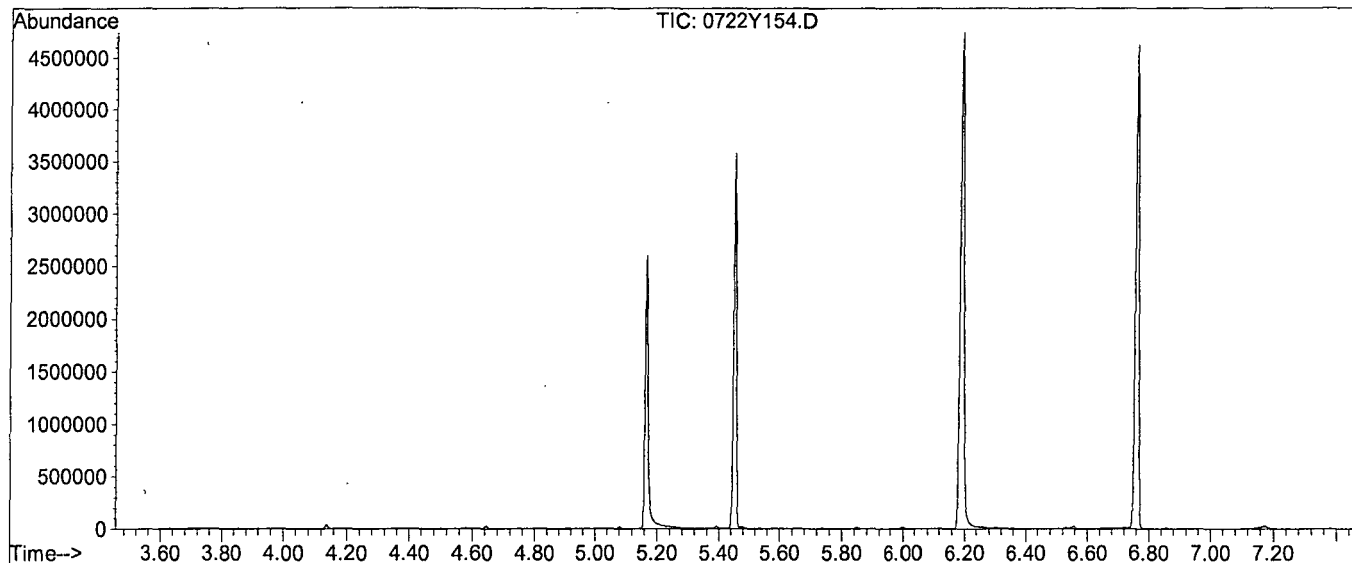
response 16652803

Ion	Exp%	Act%
184.00	100	100
92.00	7.90	8.30
185.00	14.30	14.23
0.00	0.00	0.00

Data File : M:\YODA\DATA\Y190722\0722Y154.D
 Acq On : 1 Aug 19 9:35
 Sample : SV TUNE 7/11/19
 Misc :

Vial: 54
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C



Spectrum Information: Average of 5.450 to 5.455 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	24.9	81771	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.2	184	PASS
127	198	10	80	42.2	138488	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	328491	PASS
199	198	5	9	6.8	22280	PASS
275	198	10	60	33.6	110216	PASS
365	198	1	100	4.6	15157	PASS
441	442	0.01	24	16.5	106899	PASS
442	198	50	500	196.7	646165	PASS
443	442	15	24	19.8	128024	PASS

Data File Name: 0722Y154.D
Data File Path: M:\YODA\DATA\Y190722\
Operator: MA,SS
Date Acquired: 1 Aug 19 9:35
Method File: DFTPP2.M
Sample Name: SV TUNE 7/11/19
Vial Number: 54
Instrument Name: Yoda

#	Name	Ret Time	Target Response
1)	DDT	6.76	34066700
2)	DDD	6.35	0
3)	DDE	6.56	175754

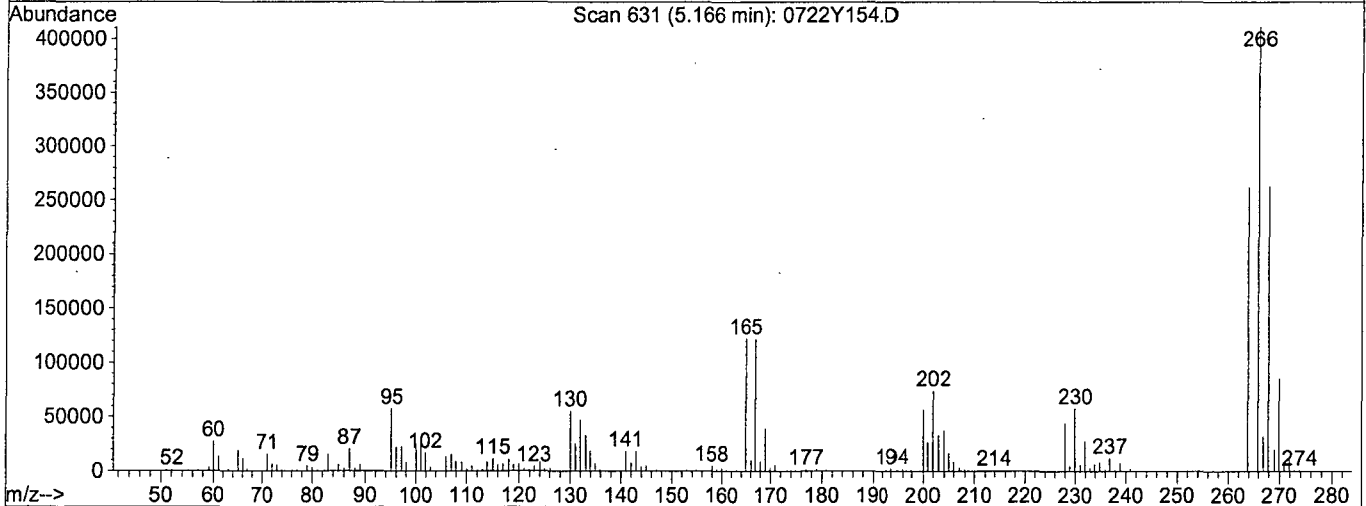
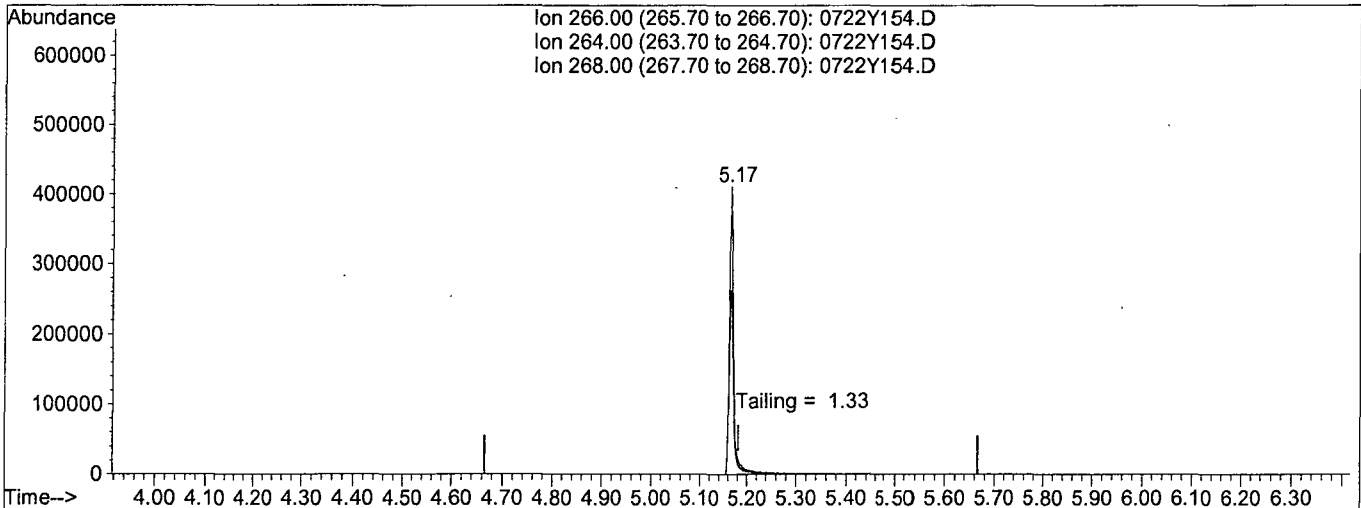
Breakdown 0.51

Quantitation Report

Data File : M:\YODA\DATA\Y190722\0722Y154.D
 Acq On : 1 Aug 19 9:35
 Sample : SV TUNE 7/11/19
 Misc :
 Quant Time: Aug 1 9:40 2019

Vial: 54
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190722\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Wed Jul 31 09:45:54 2019
 Response via : Single Level Calibration



TIC: 0722Y154.D

(5) Pentachlorophenol

5.17min 0.0000

response 2700189

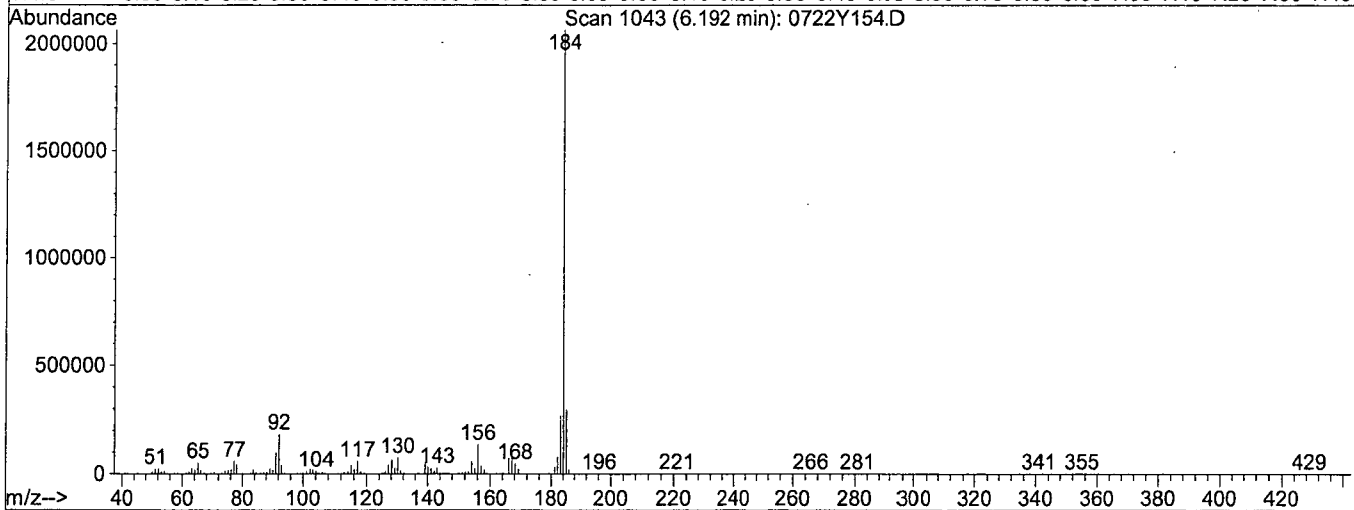
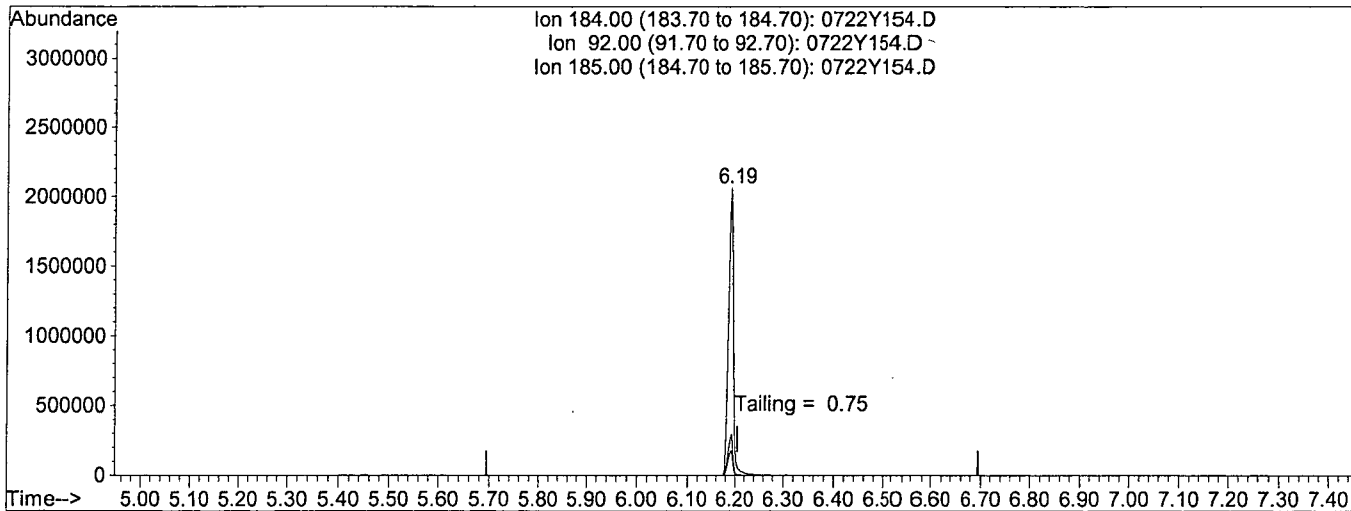
Ion	Exp%	Act%
266.00	100	100
264.00	62.00	61.04
268.00	64.10	63.76
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190722\0722Y154.D
 Acq On : 1 Aug 19 9:35
 Sample : SV TUNE 7/11/19
 Misc :
 Quant Time: Aug 1 9:40 2019

Vial: 54
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190722\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Wed Jul 31 09:45:54 2019
 Response via : Single Level Calibration



TIC: 0722Y154.D

(6) Benzidine

6.19min 0.0000

response 15633728

Ion	Exp%	Act%
184.00	100	100
92.00	9.00	8.66
185.00	14.40	14.04
0.00	0.00	0.00

Name of Final Standard

8270 Full Scan Standard Curve

Prep'd By
(Initials)

GA

Prep Date

07/12/19

Exp Date

10/20/19

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	4 uL	200uL	MC 56258 192uL	4 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	4 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	4 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	5 uL	200uL	MC 56258 190uL	5 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	5 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	4 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	5 uL	100uL	MC 56258 90uL	10 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	5 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	10 uL	100uL	MC 56258 80uL	20 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	10 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	20 uL	100uL	MC 56258 60uL	40 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	20 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	50 uL	200 uL	MC 56258 100uL	50 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	50 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	4 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	30 uL	100uL	MC 56258 40uL	60 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	30 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	40 uL	100uL	MC 56258 20uL	80 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	40 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	50 uL	100uL	na	100 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	50 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	2 uL	*	*	*

Name of Final Standard **8270 Full Scan Spike** Prep'd By (Initials) **GA**
 Prep Date **03/05/19**
 Exp Date **10/20/19**

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
10001	Absolute	10001	2000	051018-39827 051018-39828	03/05/20	2.0 mL	20 mL	NA	200 ug/mL
10002	Absolute	10002	2000	051018-39832 051018-39833	03/05/20	2.0 mL	*	*	200 ug/mL
10004	Absolute	10004	2000	031618-39836 031618-39839	01/30/20	2.0 mL	*	*	200 ug/mL
10005	Absolute	10005	2000	032018-40011 032018-40012	01/30/20	2.0 mL	*	*	200 ug/mL
10006	Absolute	10006	2000	071318-39842 071318-39843	01/30/20	2.0 mL	*	*	200 ug/mL
10007	Absolute	10007	2000	080116-40016 080116-40017	01/30/20	2.0 mL	*	*	200 ug/mL
10018	Absolute	10018	2000	062718-39847 062718-39848	01/30/20	2.0 mL	*	*	200 ug/mL
70023	Absolute	70023	1000	091217-39852 091217-39853	01/30/20	2.0 mL	*	*	100 ug/mL
82705	Absolute	82705	2000	081418-40020 081418-40021	01/30/20	2.0 mL	*	*	200 ug/mL
94552	Absolute	94552	various	102017-40026 102017-40027	10/20/19	2.0 mL	*	*	various

Name of Final Standard **8270 SS STOCK** Prep'd By (Initials) **GA**
 Prep Date **03/05/19**
 Exp Date **01/08/20**

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
10001	Absolute	10001	2000	031618-39202	03/05/20	1.0 mL	10 mL	NA	200 ug/mL
10002	Absolute	10002	2000	G34-020217-38182	02/02/20	1.0 mL	*	*	200 ug/mL
10004	Absolute	10004	2000	010815-38625	01/08/20	1.0 mL	*	*	200 ug/mL
10005	Absolute	10005	2000	041317-37804	03/05/20	1.0 mL	*	*	200 ug/mL
10006	Absolute	10006	2000	011718-38827	03/05/20	1.0 mL	*	*	200 ug/mL
10007	Absolute	10007	2000	020515-38627	02/05/20	1.0 mL	*	*	200 ug/mL
10018	Absolute	10018	2000	G34-030216-38195	03/05/20	1.0 mL	*	*	200 ug/mL
70023	Absolute	70023	1000	013118-38830	03/05/20	1.0 mL	*	*	100 ug/mL
82705	Absolute	82705	2000	090617-38832	03/05/20	1.0 mL	*	*	200 ug/mL
94552	Absolute	94552	various	013118-40453	01/31/20	1.0 mL	*	*	various

Final **8270 Surrogate 200/400 ppm**
 Prep Date 07/10/19
 Exp Date 06/24/20

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Initial Standard	Supplier	P/N# (or APPL Mix)	Conc.(range)	QA # (or reference)	Exp Date	Aliquot from Stock	Final Volume	Solvent + Lot# (or)	Standard Conc.
Surrogate	Restek	33029	ug/mL	39902	06/24/20	200 uL	5 mL	4,600 uL	400 ug/mL
Surrogate	Restek	31086	ug/mL	40114	06/24/20	200 uL	*	*	200 ug/mL

Final **8270 Internal Standard**
 Prep Date 05/17/19
 Exp Date 05/17/20

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Initial Standard	Supplier	P/N# (or APPL Mix)	Conc.(range)	QA # (or reference)	Exp Date	Aliquot from Stock	Final Volume	Solvent + Lot# (or)	Standard Conc.
e Internal	Restek	31206	2000ug/mL	39543	11/30/24	2 mL	2 mL	NA	2000ug/mL

Name of Final Standard **8270 Full Scan Second Source**
 Prep Date 07/12/19
 Exp Date 01/08/20

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc.(range)
8270 SS Stock	o2si	8270 SS Stock	200 ug/mL	03/05/19	01/08/20	50 uL	200uL	MC 56258 150uL	50 ug/mL
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	4 uL	*	*	*

Name of Final Standard Semivolatle (SV) Tuning Solution
 Prep Date 07/11/19
 Exp Date 09/30/19

Prep'd By (Initials) JP

Initial Standard Information					Final Standard Information				
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Semivolatle GC/MS Tuning Standard	Ultra Scientific	GCM-150-1	1,000 ug/mL	CR3789-38879	09/30/19	1,250 uL	25 mL	MC #58240	50 ug/mL

Name of Final Standard 8270 Spike
 Prep Date 06/14/19
 Exp Date 06/14/20
 Methanol Lot# 208858

Prep'd By (Initials) JP

Initial Standard Information					Final Standard Information				
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent (or APPL Prep Date)	Final Standard Conc (range)
8270 Stock spike	APPL	8270 STD	200:100 ug/mL	06/14/19	06/14/20	6.25 mL	25 mL	Methanol 208858	50:25 ug/mL

Name of Final Standard 8270 Spike
 Prep Date 05/29/19
 Exp Date 05/16/20
 Methanol Lot# 208858

Prep'd By (Initials) GA

Initial Standard Information					Final Standard Information				
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent (or APPL Prep Date)	Final Standard Conc (range)
8270 Stock spike	APPL	8270 STD	200:100 ug/mL	05/16/19	5/16/20	12.5 mL	50 mL	Methanol 208858	50:25 ug/mL

Organic Extraction Worksheet

Method	Continuous Liquid/Liquid SVOC 3520C		Extraction Set	190729A	Extraction Method	LIQ003	Units	mL
Spiked ID 1	8270T Spike 6/19/19-12/19/19		Surrogate ID 1	8270 Surrogate 6/24/19-4/10/20				
Spiked ID 2	Sim Spike 7/24/19-7/9/20		Surrogate ID 2	SIM Surrogate 7/19/19-7/1/20				
Spiked ID 3			Surrogate ID 3					
Spiked ID 4			Surrogate ID 4					
Spiked ID 5			Surrogate ID 5					
Spiked ID 6			Sufficient Vol for Matrix QC:		no			
Spiked ID 7			Ext. Start Time:		07/29/19 13:50			
Spiked ID 8			Ext. End Time:		07/31/19 12:05			
			GC Requires Extract By:		08/01/19 0:00			
			pH1	2	07/29/19 13:55	Water Bath Temp 1 °C	75/74.9 EWB6 °	
			pH2	14	07/30/19 12:35	Water Bath Temp 2 °C		
			pH3			Water Bath Temp 3 °C		

Spiked By: DL

Date 07/29/19

Witnessed By: CFM

Date 07/29/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1 190729A Blk				1,0.050	1,2	800	1	2/1	07/29/19 13:50	
					equip	E-HP51 E-WB6				
2 190729A LCS-1		1	1	1	1	800	1	2/1	07/29/19 13:50	
					equip	E-HP50 E-WB6				
3 190729A LCS-2		0.125	2	0.050	2	800	1	2/1	07/29/19 13:50	
					equip	E-HP49 E-WB6				
4 190729A LCSD-1		1	1	1	1	800	1	2/1	07/29/19 13:50	
					equip	E-HP48 E-WB6				
5 190729A LCSD-2		0.125	2	0.050	2	800	1	2/1	07/29/19 13:50	
					equip	E-HP47 E-WB6				
6 AZ95419	AZ95419W08			1,0.050	1,2	800	1	2/1	07/29/19 13:50	89607
					equip	E-HP25 E-WB6				
7 AZ95421	AZ95421W08			1,0.050	1,2	800	1	2/1	07/29/19 13:50	89607
					equip	E-HP26 E-WB6				
8 AZ95423	AZ95423W10			1,0.050	1,2	800	1	2/1	07/29/19 13:50	89607
					equip	E-HP27 E-WB6				
9 AZ95511	AZ95511W15			1,0.050	1,2	800	1	2/1	07/29/19 13:50	89624
					equip	E-HP28 E-WB6				
10 AZ95513	AZ95513W13			1,0.050	1,2	800	1	2/1	07/29/19 13:50	89624
					equip	E-HP29 E-WB6				

SS 8/3/19

Solvent and Lot#	
PH Strips	HC863463
Dichloromethane (DCM)	58240
1+1 H2SO4	7/2/19
10N NaOH	7/16/19
Filter Paper	400163
Acidified Na2SO4	2/28/19
B. Na2SO4	2019010772

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	<i>[Signature]</i>
Date	7/31/19
Time	1500
Refrigerator	GC-C

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	08/04/19 9:45:38 AM

Reviewed By: *SS* Date 8/3/19

Injection Log

Directory: M:\YODA\DATA\Y190722\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	2	0722Y002.D	1	SV TUNE 07/11/19		22 Jul 19 13:46
2	3	0722Y003.D	1	4ug/ml 8270 07/12/19		22 Jul 19 14:01
3	4	0722Y004.D	1	5ug/ml 8270 07/12/19		22 Jul 19 14:29
4	5	0722Y005.D	1	10ug/ml 8270 07/12/19		22 Jul 19 14:57
5	6	0722Y006.D	1	20ug/ml 8270 07/12/19		22 Jul 19 15:25
6	7	0722Y007.D	1	40ug/ml 8270 07/12/19		22 Jul 19 15:53
7	8	0722Y008.D	1	50ug/ml 8270 07/12/19		22 Jul 19 16:21
8	9	0722Y009.D	1	60ug/ml 8270 07/12/19		22 Jul 19 16:49
9	10	0722Y010.D	1	80ug/ml 8270 07/12/19		22 Jul 19 17:17
10	11	0722Y011.D	1	100ug/ml 8270 07/12/19		22 Jul 19 17:45
11	12	0722Y012.D	1	SS 8270 07/12/19		22 Jul 19 18:13
12	54	0722Y154.D	1	SV TUNE 7/11/19		1 Aug 19 9:35
13	55	0722Y155.D	1	50ug/ml 8270 07/12/19 (6)		1 Aug 19 10:00
14	56	0722Y156.D	1.25	190729A BLK 1/800		1 Aug 19 10:42
15	57	0722Y157.D	1.25	190729A LCS-1 1/800		1 Aug 19 11:10
16	58	0722Y158.D	1.25	190729A LCSD-1 1/800		1 Aug 19 11:38
17	59	0722Y159.D	1.25	AZ95419W08 1/800		1 Aug 19 12:06
18	60	0722Y160.D	1.25	AZ95421W08 1/800		1 Aug 19 12:34
19	61	0722Y161.D	1.25	AZ95423W10 1/800		1 Aug 19 13:02
20	67	0722Y167.D	1	50ug/ml 8270 07/12/19 (3)		1 Aug 19 15:50

Injection Log

Directory: M:\YODA\DATA\Y190722\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	2	0722Y002.D	1	SV TUNE 07/11/19		22 Jul 19 13:46
2	3	0722Y003.D	1	4ug/ml 8270 07/12/19		22 Jul 19 14:01
3	4	0722Y004.D	1	5ug/ml 8270 07/12/19		22 Jul 19 14:29
4	5	0722Y005.D	1	10ug/ml 8270 07/12/19		22 Jul 19 14:57
5	6	0722Y006.D	1	20ug/ml 8270 07/12/19		22 Jul 19 15:25
6	7	0722Y007.D	1	40ug/ml 8270 07/12/19		22 Jul 19 15:53
7	8	0722Y008.D	1	50ug/ml 8270 07/12/19		22 Jul 19 16:21
8	9	0722Y009.D	1	60ug/ml 8270 07/12/19		22 Jul 19 16:49
9	10	0722Y010.D	1	80ug/ml 8270 07/12/19		22 Jul 19 17:17
10	11	0722Y011.D	1	100ug/ml 8270 07/12/19		22 Jul 19 17:45
11	12	0722Y012.D	1	SS 8270 07/12/19		22 Jul 19 18:13
12	54	0722Y154.D	1	SV TUNE 7/11/19		1 Aug 19 9:35
13	55	0722Y155.D	1	50ug/ml 8270 07/12/19 (6)		1 Aug 19 10:00
14	56	0722Y156.D	1.25	190729A BLK 1/800		1 Aug 19 10:42
15	57	0722Y157.D	1.25	190729A LCS-1 1/800		1 Aug 19 11:10
16	58	0722Y158.D	1.25	190729A LCSD-1 1/800		1 Aug 19 11:38
17	59	0722Y159.D	1.25	AZ95419W08 1/800		1 Aug 19 12:06
18	60	0722Y160.D	1.25	AZ95421W08 1/800		1 Aug 19 12:34
19	61	0722Y161.D	1.25	AZ95423W10 1/800		1 Aug 19 13:02
20	67	0722Y167.D	1	50ug/ml 8270 07/12/19 (3)		1 Aug 19 15:50

**ORGANICS
Calibration Data**

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/30/19
Instrument: Linus

Initials: _____

0730L004.D 0730L005.D 0730L006.D 0730L007.D 0730L008.D 0730L009.D 0730L010.D

	Compound	1	2	3	4	5	6	7	8			Avg	%RSD	Type	r ²	Q	MRF
1	I 1,4-dichlorobenzene-D4(IS)																
2	TM 2-(2-Methoxyethoxy)ethanol	0.0513	0.0486	0.0503	0.0603	0.0658	0.0514	0.0494	0.0498			0.05	12	TM			
3	I Napthalene-D8(IS)																
4	I Acenaphthene-D10(IS)																
5	I Phenanthrene-D10(IS)																
6	I Chrysene-D12(IS)																
7	I Perylene-D12(IS)																
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
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34																	
35																	

Data File : M:\LINUS\DATA\L190730M\0730L003.D Vial: 3
 Acq On : 30 Jul 19 11:54 Operator: MA
 Sample : 500ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 30 15:11 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.15	152	1252960m	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.06	136	4766611	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3290611	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	6280174	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	7882794	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	8242249	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.72	45	1031220	602.48523	ppb	100

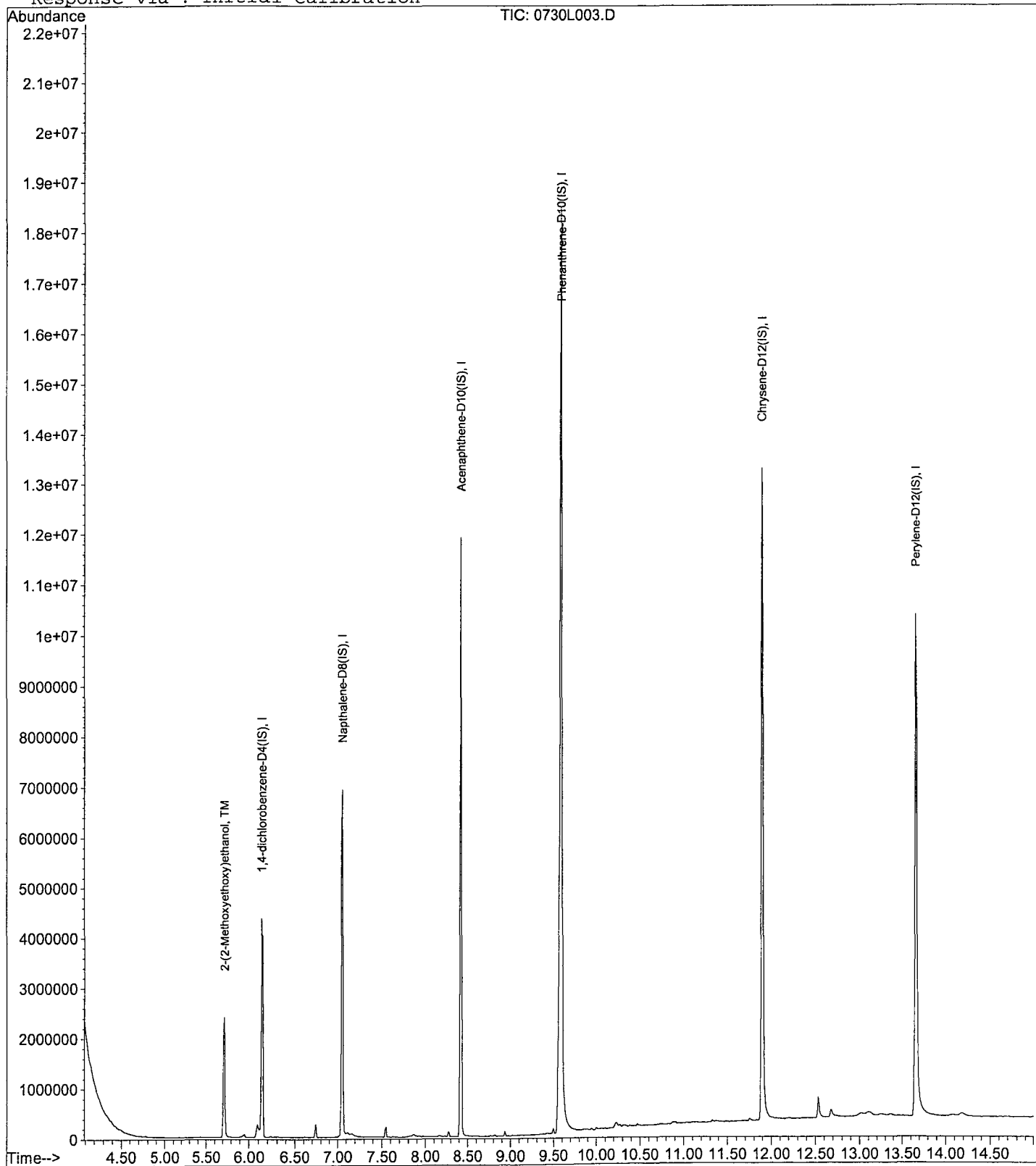
Data File : M:\LINUS\DATA\L190730M\0730L003.D
Acq On : 30 Jul 19 11:54
Sample : 500ug/ml MEE 04/30/19
Misc :

Vial: 3
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:11 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration

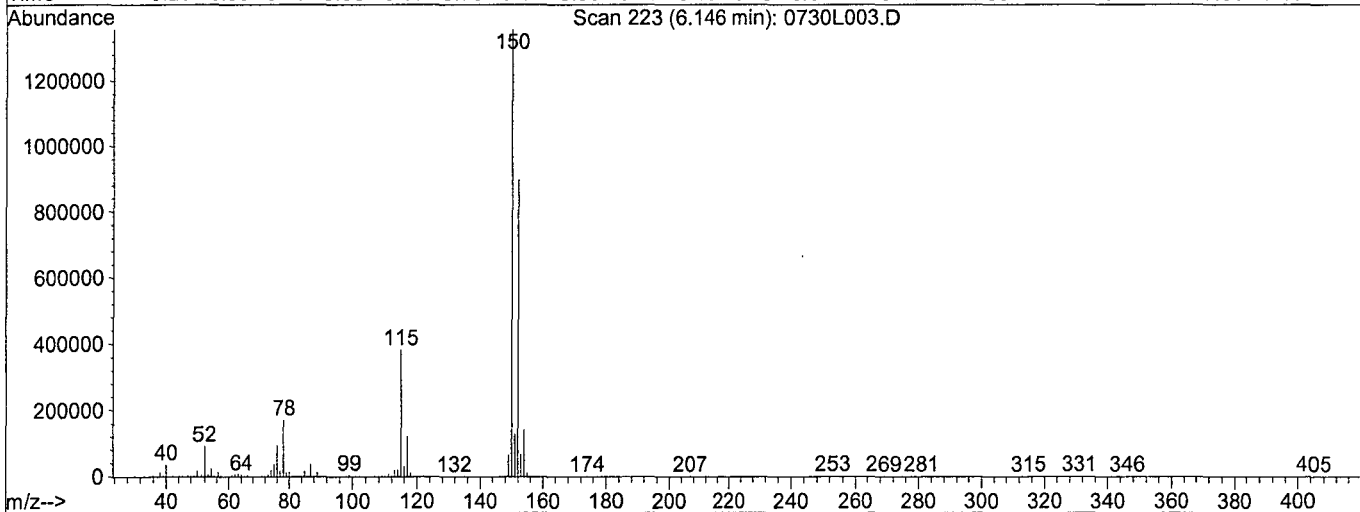
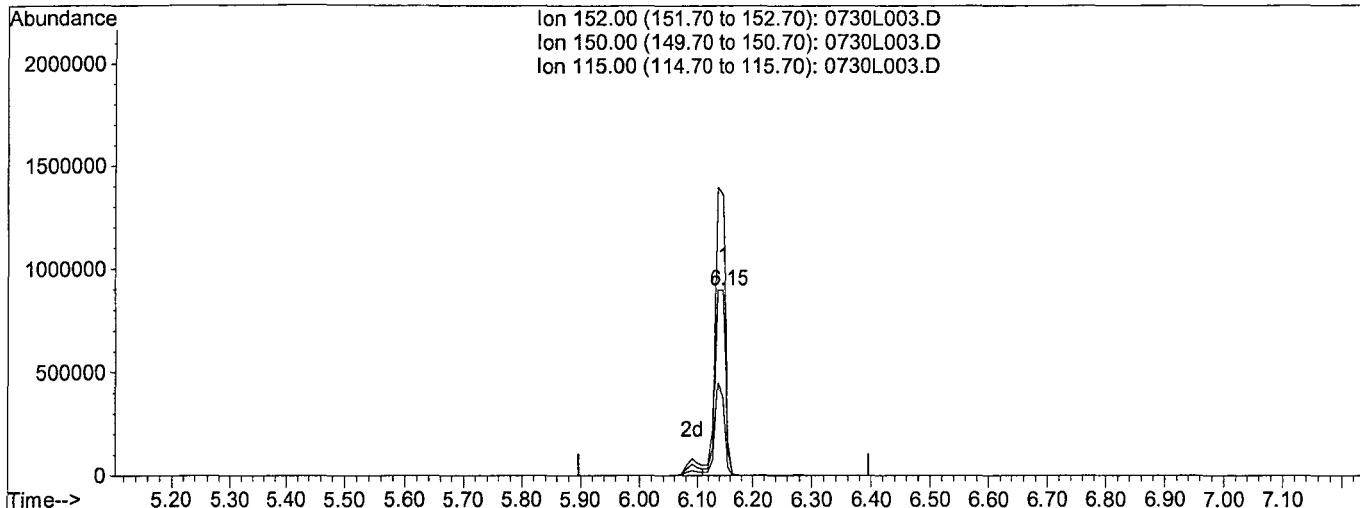


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L003.D
 Acq On : 30 Jul 19 11:54
 Sample : 500ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:11 2019

Vial: 3
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L003.D

(1) 1,4-dichlorobenzene-D4(1S) (I)

6.15min 40.0000ppb

response 1162118

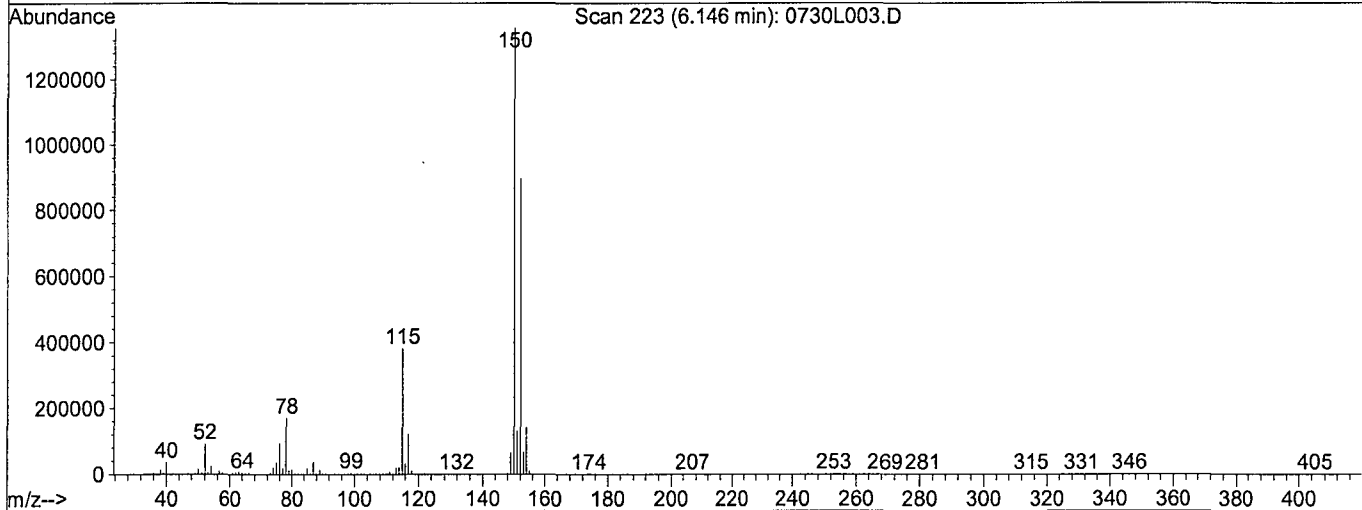
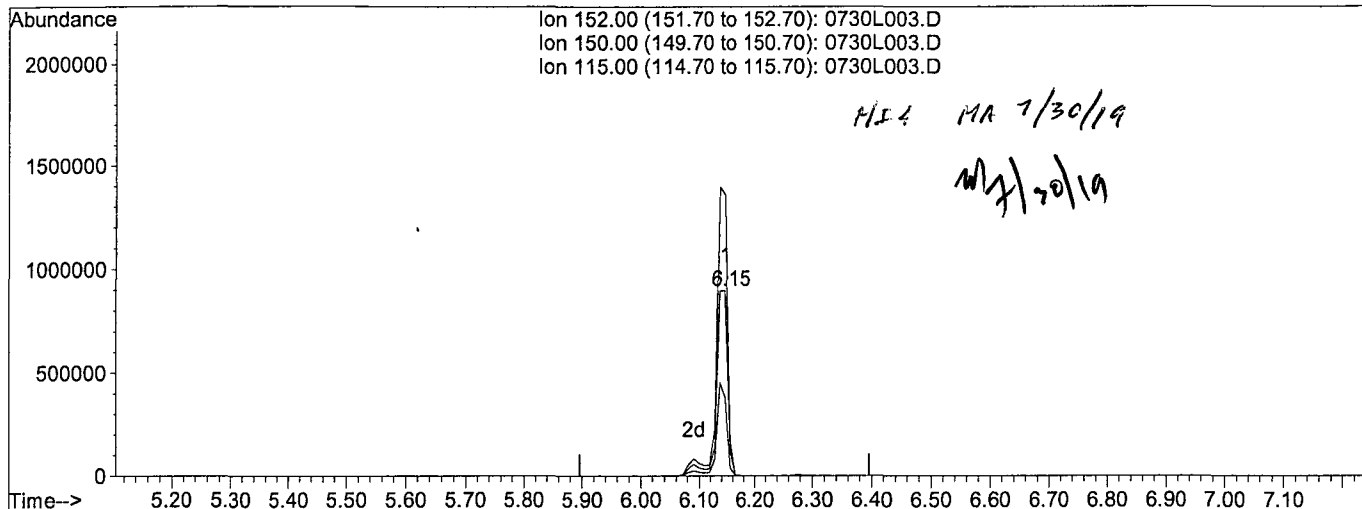
Ion	Exp%	Act%
152.00	100	100
150.00	151.30	151.29
115.00	42.60	42.59
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L003.D
 Acq On : 30 Jul 19 11:54
 Sample : 500ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:11 2019

Vial: 3
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L003.D

(1) 1,4-dichlorobenzene-D4(1S) (I)

6.15min 40.0000ppb m

response 1252960

Ion	Exp%	Act%
152.00	100	100
150.00	151.30	151.32
115.00	42.60	42.57
0.00	0.00	0.00

Data File : M:\LINUS\DATA\L190730M\0730L004.D Vial: 4
 Acq On : 30 Jul 19 12:18 Operator: MA
 Sample : 50ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 30 15:11 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.10	152	1583836	40.00000	ppb	-0.05
3) Napthalene-D8 (IS)	7.05	136	4068946	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3257857	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7336759	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	7870725	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	9316764	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.67	45	101552	46.93648	ppb	98

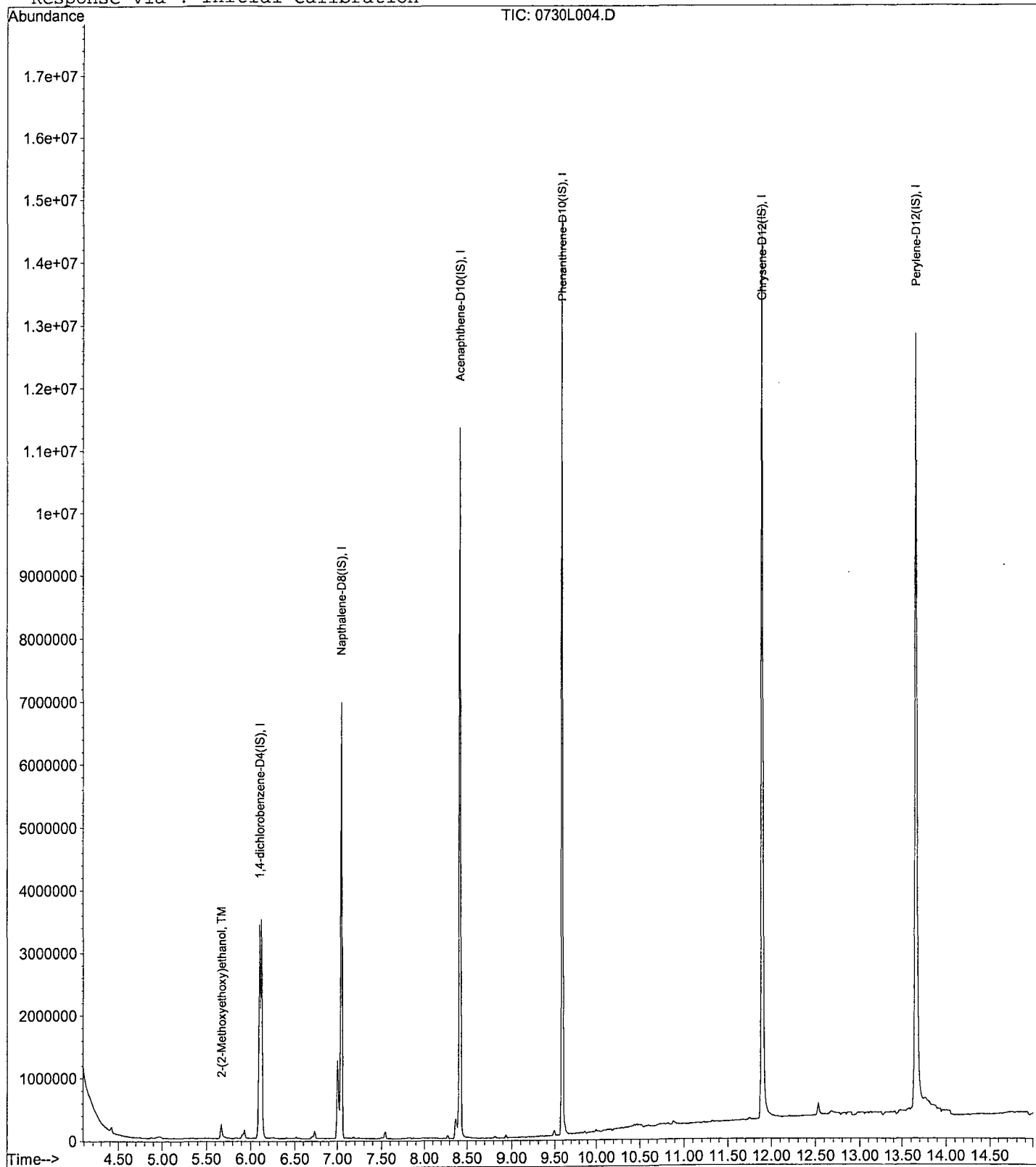
Data File : M:\LINUS\DATA\L190730M\0730L004.D
Acq On : 30 Jul 19 12:18
Sample : 50ug/ml MEE 04/30/19
Misc :

Vial: 4
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:11 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L005.D Vial: 5
 Acq On : 30 Jul 19 13:17 Operator: MA
 Sample : 100ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 30 15:11 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.10	152	1470082	40.00000	ppb	-0.05
3) Napthalene-D8 (IS)	7.05	136	4360086	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3657157	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.60	188	7715173	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.93	240	7945115	40.00000	ppb	0.04
7) Perylene-D12 (IS)	13.71	264	7813985	40.00000	ppb	0.06

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	5.66	45	178738	89.00361	ppb	96

Quantitation Report

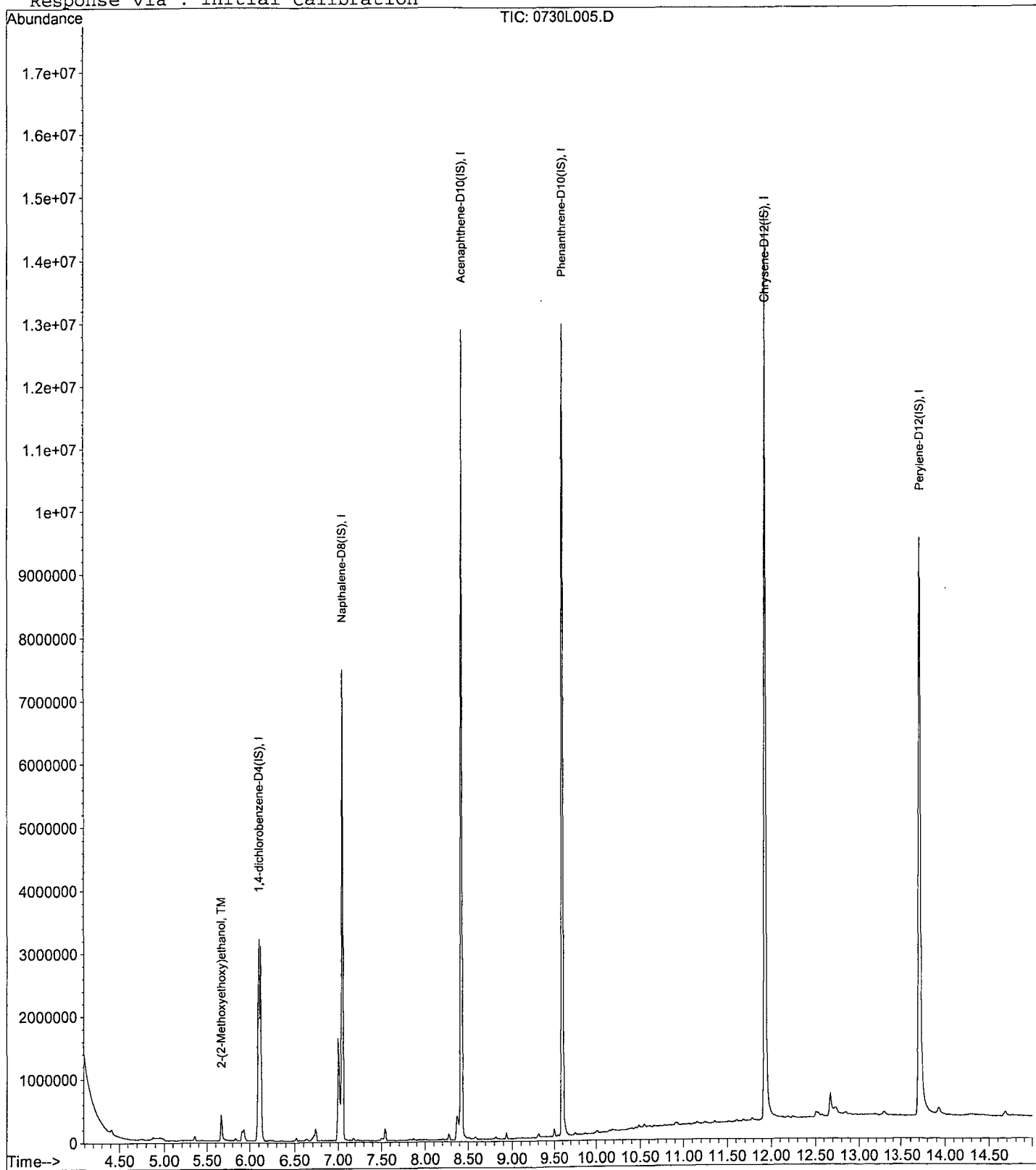
Data File : M:\LINUS\DATA\L190730M\0730L005.D
Acq On : 30 Jul 19 13:17
Sample : 100ug/ml MEE 04/30/19
Misc :

Vial: 5
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:11 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L006.D Vial: 6
 Acq On : 30 Jul 19 13:41 Operator: MA
 Sample : 200ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 30 15:12 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.13	152	1461825m	40.00000	ppb	-0.02
3) Napthalene-D8 (IS)	7.05	136	5084767	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3673311	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7619869	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	8245101	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	8432192	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.68	45	367317	183.94074	ppb	99

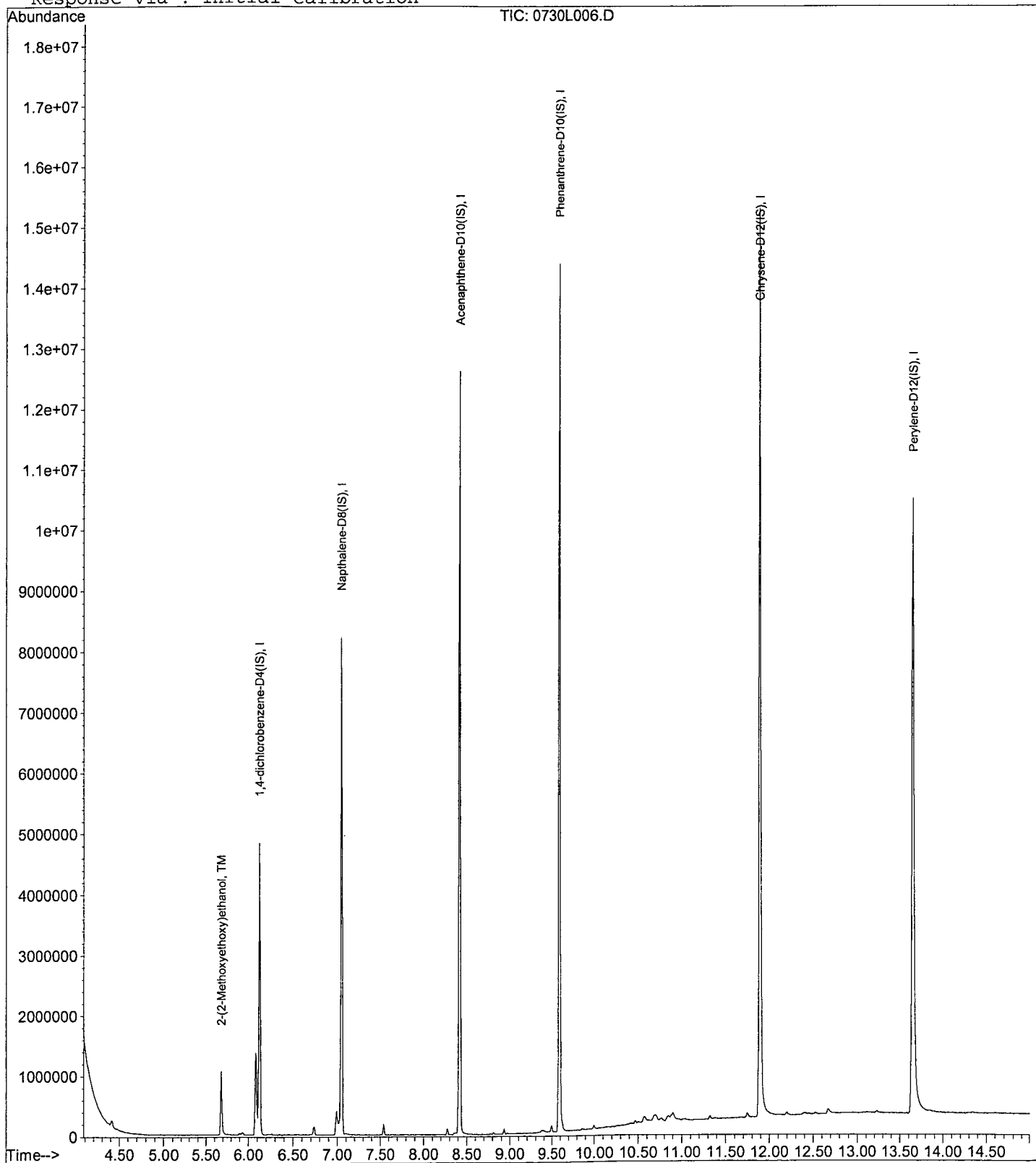
Data File : M:\LINUS\DATA\L190730M\0730L006.D
 Acq On : 30 Jul 19 13:41
 Sample : 200ug/ml MEE 04/30/19
 Misc :

Vial: 6
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Jul 30 15:12 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration

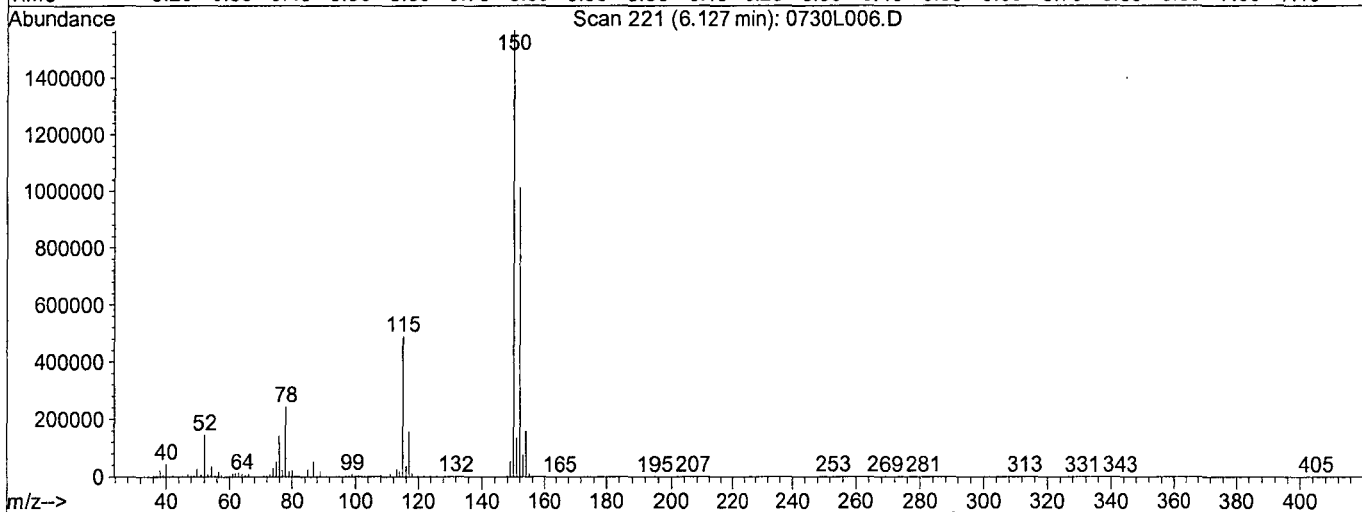
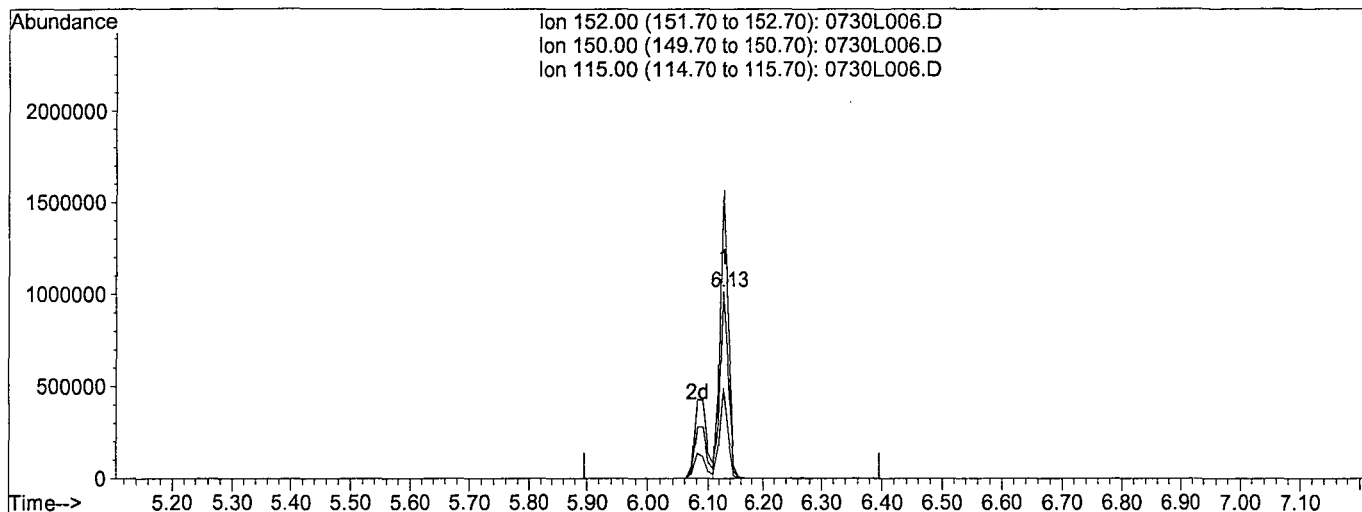


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L006.D
 Acq On : 30 Jul 19 13:41
 Sample : 200ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:11 2019

Vial: 6
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L006.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb

response 1047104

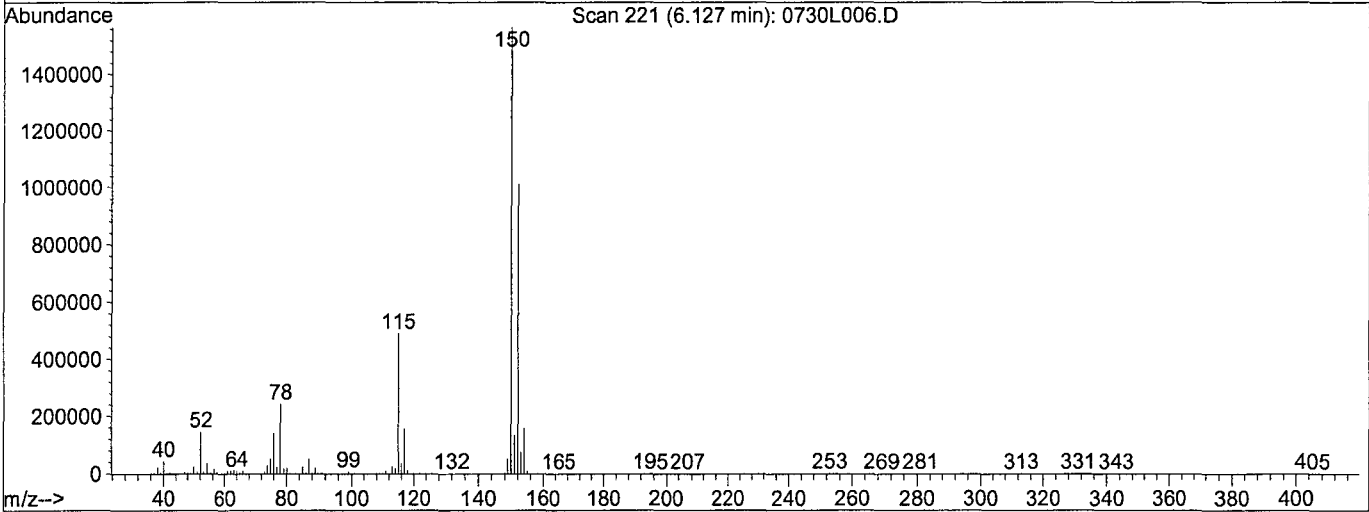
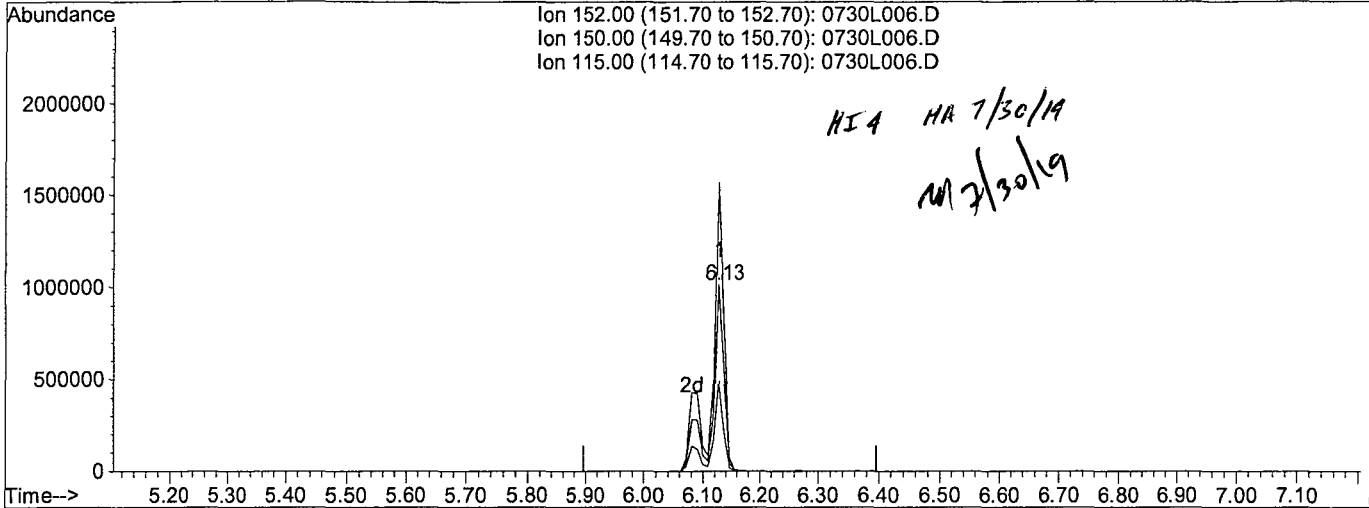
Ion	Exp%	Act%
152.00	100	100
150.00	151.30	154.77
115.00	42.60	48.39
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L006.D
 Acq On : 30 Jul 19 13:41
 Sample : 200ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:12 2019

Vial: 6
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L006.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb m

response 1461825

Ion	Exp%	Act%
152.00	100	100
150.00	151.30	154.73
115.00	42.60	48.40
0.00	0.00	0.00

Data File : M:\LINUS\DATA\L190730M\0730L007.D Vial: 7
 Acq On : 30 Jul 19 14:04 Operator: MA
 Sample : 400ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 30 15:13 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.13	152	1382825m	40.00000	ppb	-0.02
3) Napthalene-D8 (IS)	7.05	136	4970142	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3606286	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7424397	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.88	240	7867434	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.64	264	7875034	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	5.69	45	833210	441.08221	ppb	98

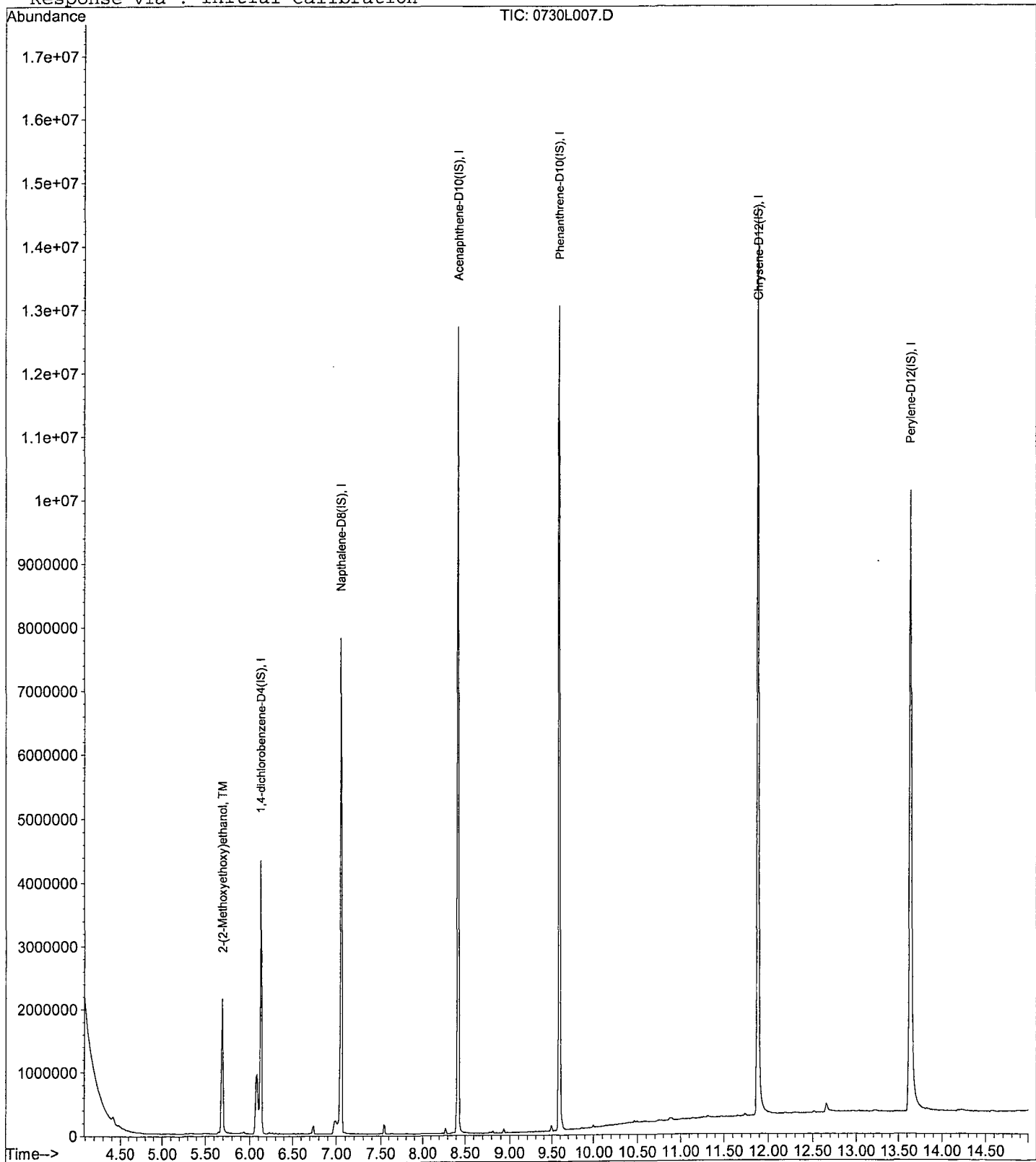
Data File : M:\LINUS\DATA\L190730M\0730L007.D
Acq On : 30 Jul 19 14:04
Sample : 400ug/ml MEE 04/30/19
Misc :

Vial: 7
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:13 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration

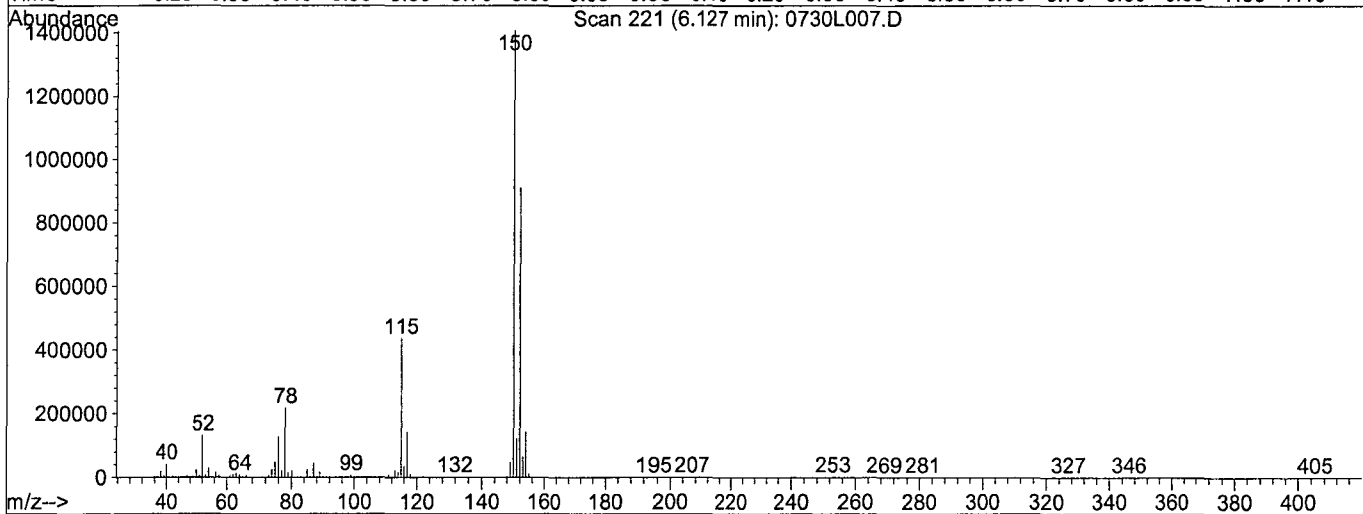
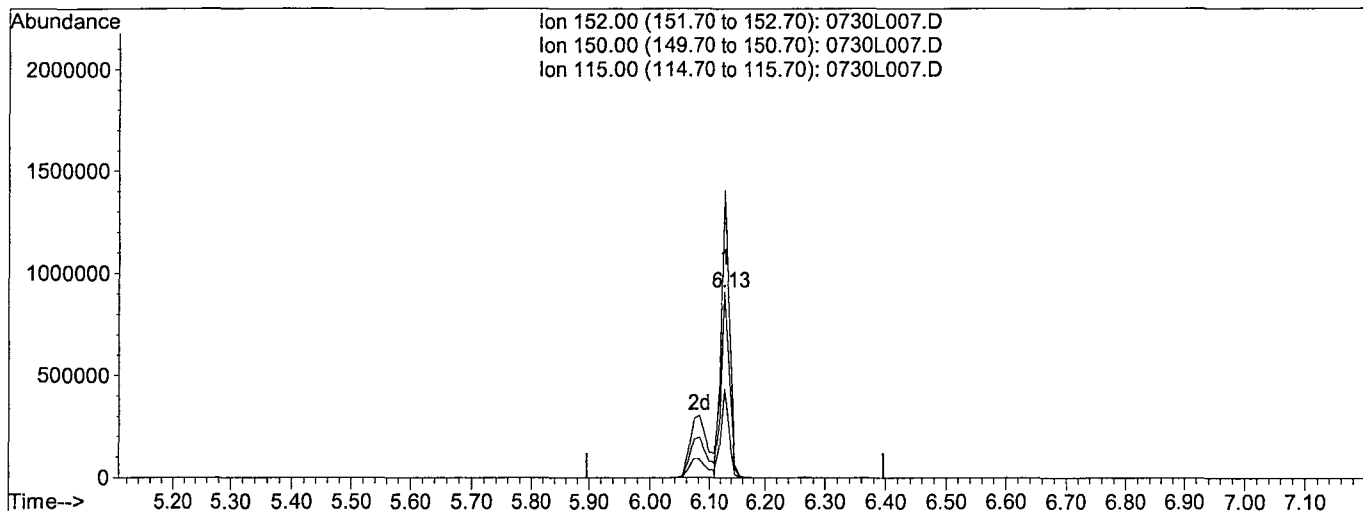


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L007.D
 Acq On : 30 Jul 19 14:04
 Sample : 400ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:11 2019

Vial: 7
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L007.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb

response 957510

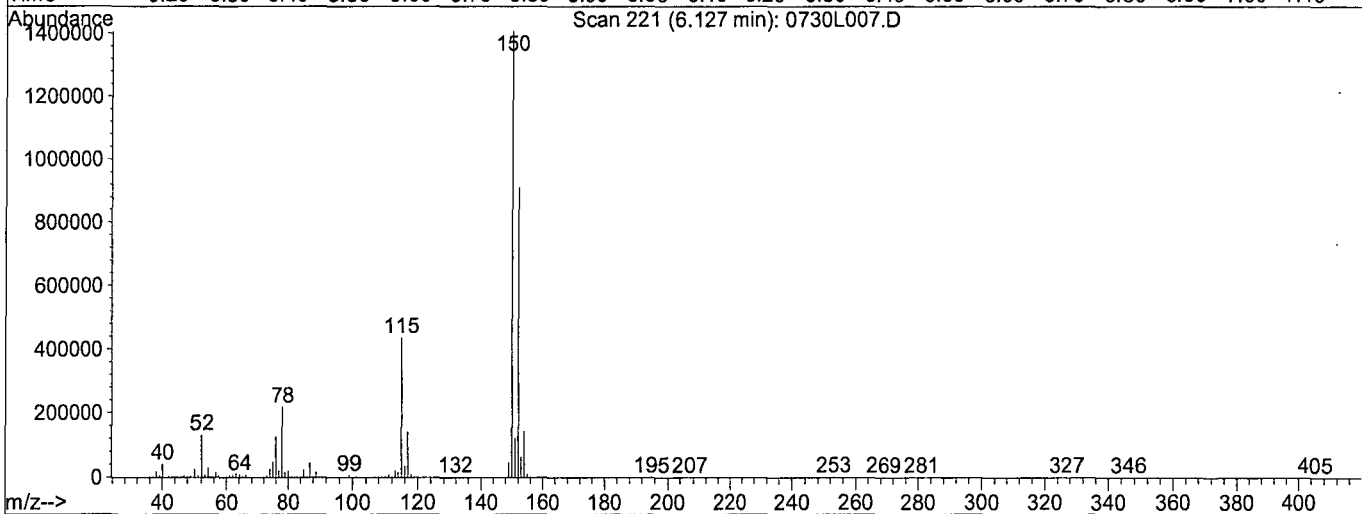
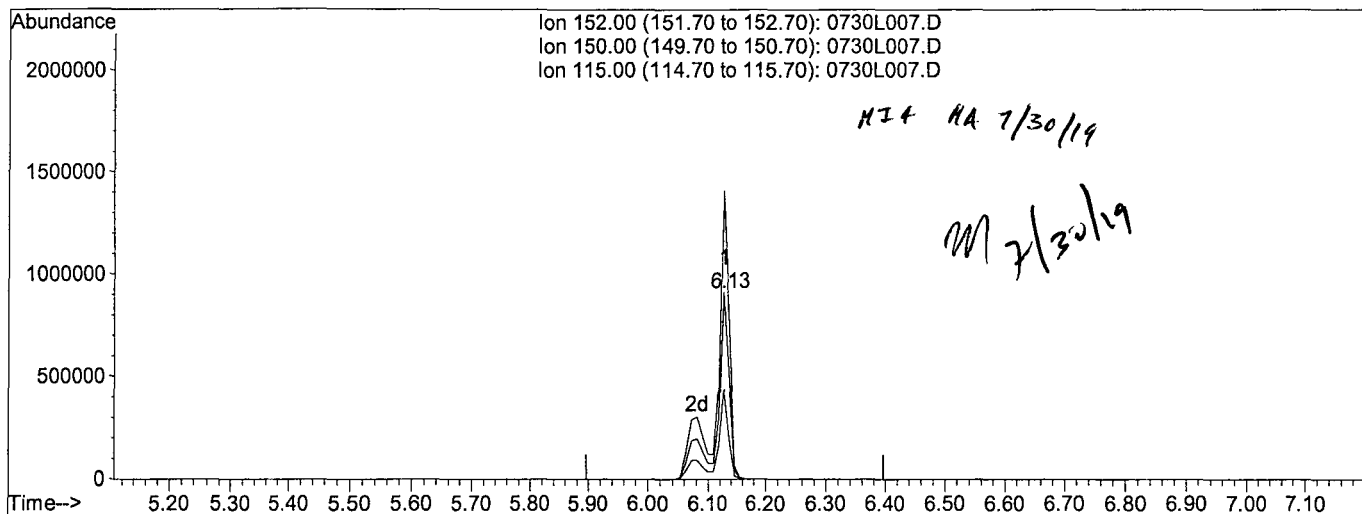
Ion	Exp%	Act%
152.00	100	100
150.00	151.30	154.57
115.00	42.60	47.94
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L007.D
 Acq On : 30 Jul 19 14:04
 Sample : 400ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:13 2019

Vial: 7
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L007.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb m

response 1382825

Ion	Exp%	Act%
152.00	100	100
150.00	151.30	154.56
115.00	42.60	47.96
0.00	0.00	0.00

Data File : M:\LINUS\DATA\L190730M\0730L008.D Vial: 8
 Acq On : 30 Jul 19 14:27 Operator: MA
 Sample : 600ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 30 15:13 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.12	152	1716822m	40.00000	ppb	-0.03
3) Napthalene-D8 (IS)	7.05	136	6268016	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	4318908	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	9164097	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	9844624	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	9933894	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	5.69	45	1324145	564.60219	ppb	100

(#) = qualifier out of range (m) = manual integration

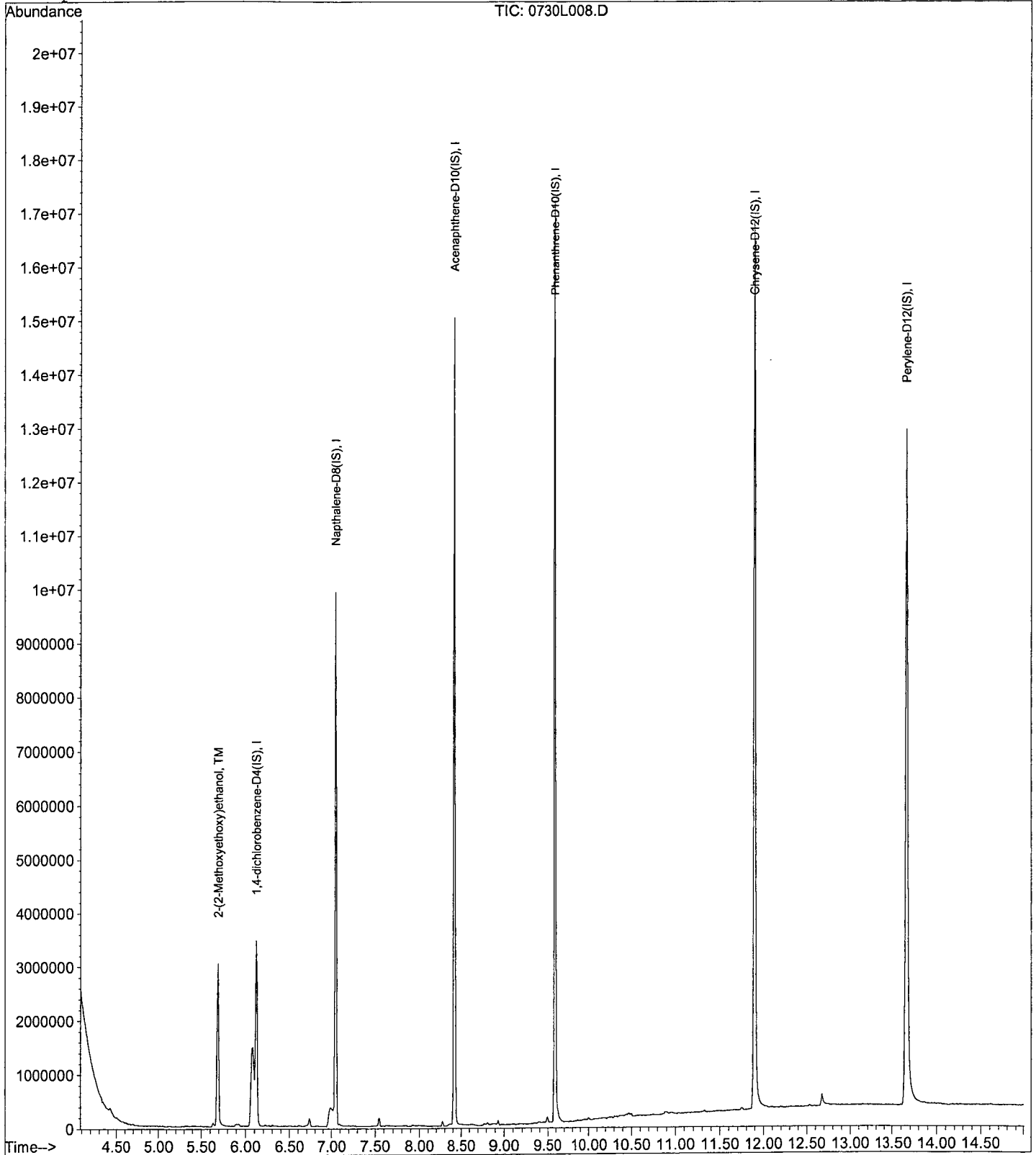
Data File : M:\LINUS\DATA\L190730M\0730L008.D
Acq On : 30 Jul 19 14:27
Sample : 600ug/ml MEE 04/30/19
Misc :

Vial: 8
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:13 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration

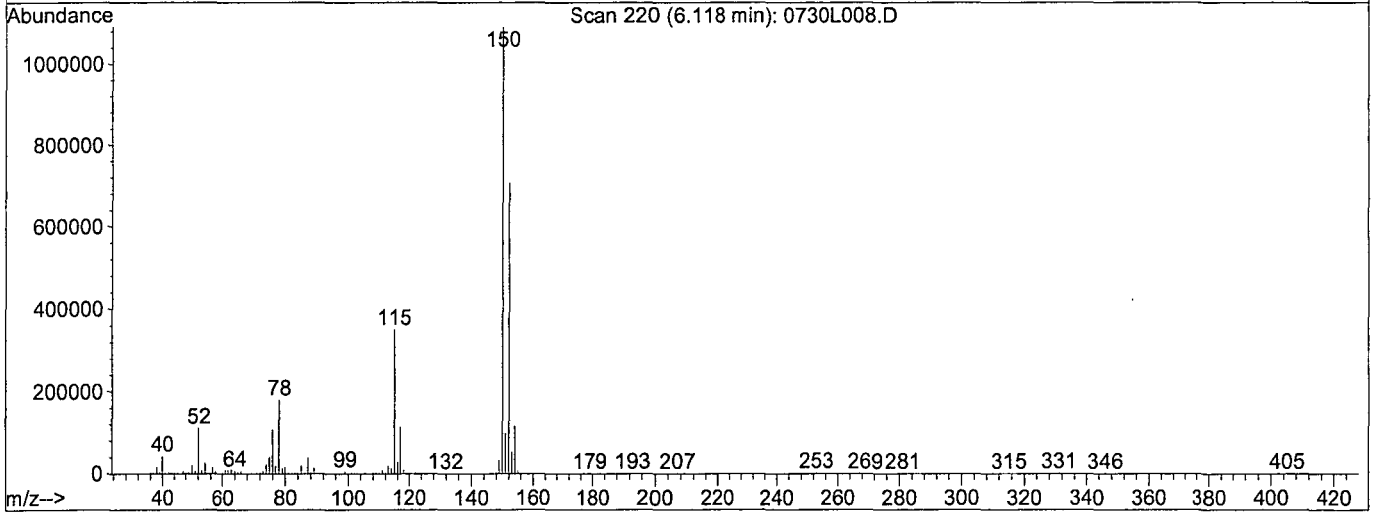
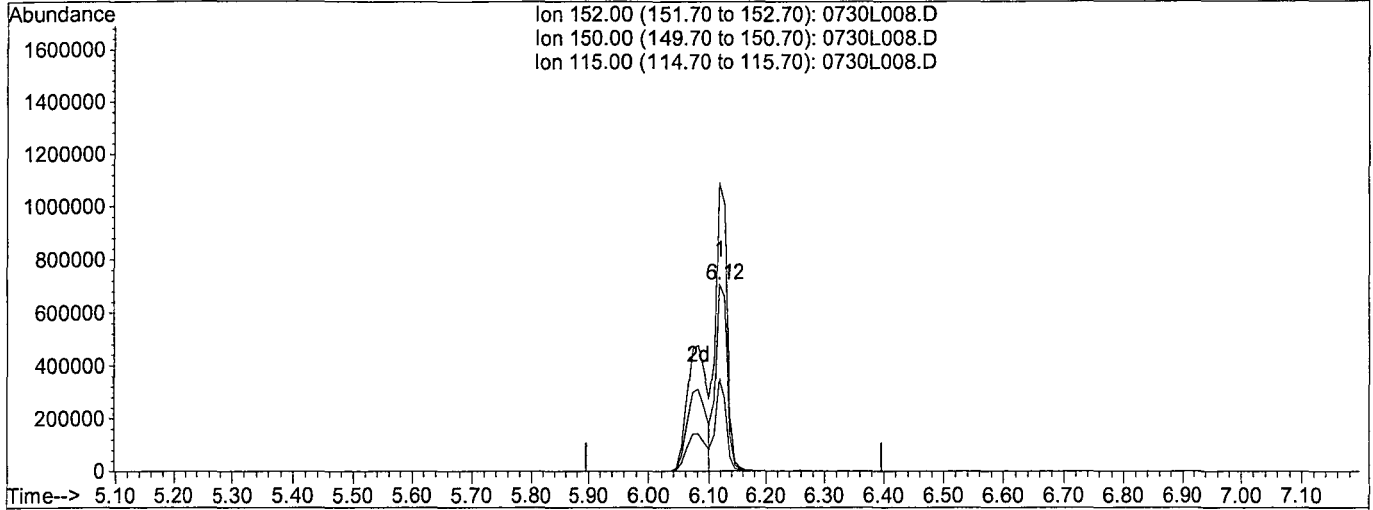


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L008.D
 Acq On : 30 Jul 19 14:27
 Sample : 600ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:11 2019

Vial: 8
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L008.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.12min 40.0000ppb

response 1002516

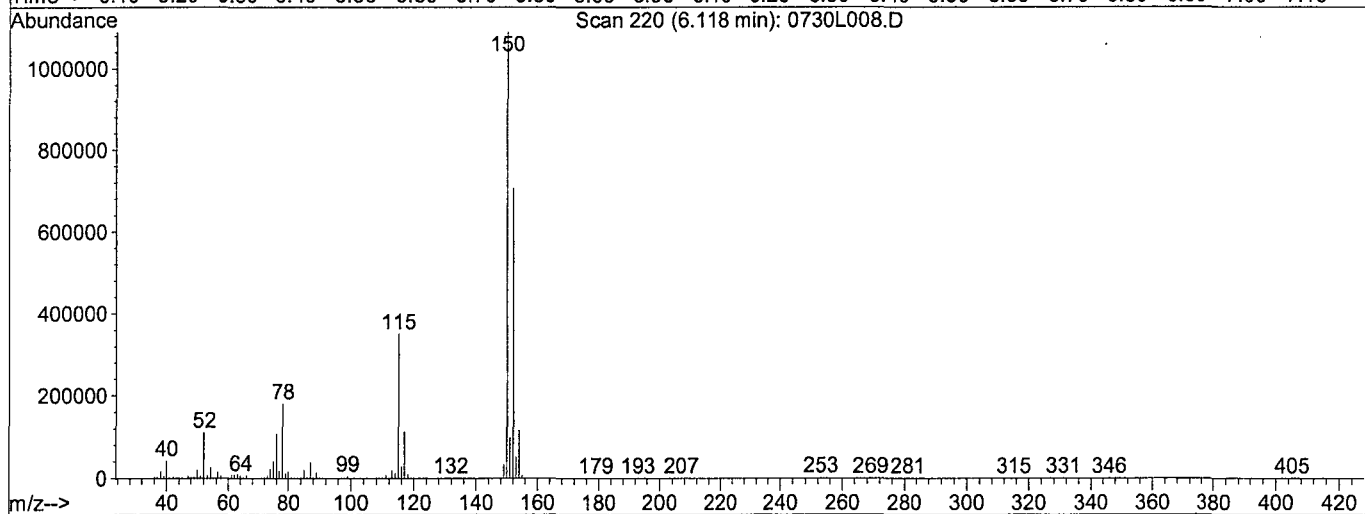
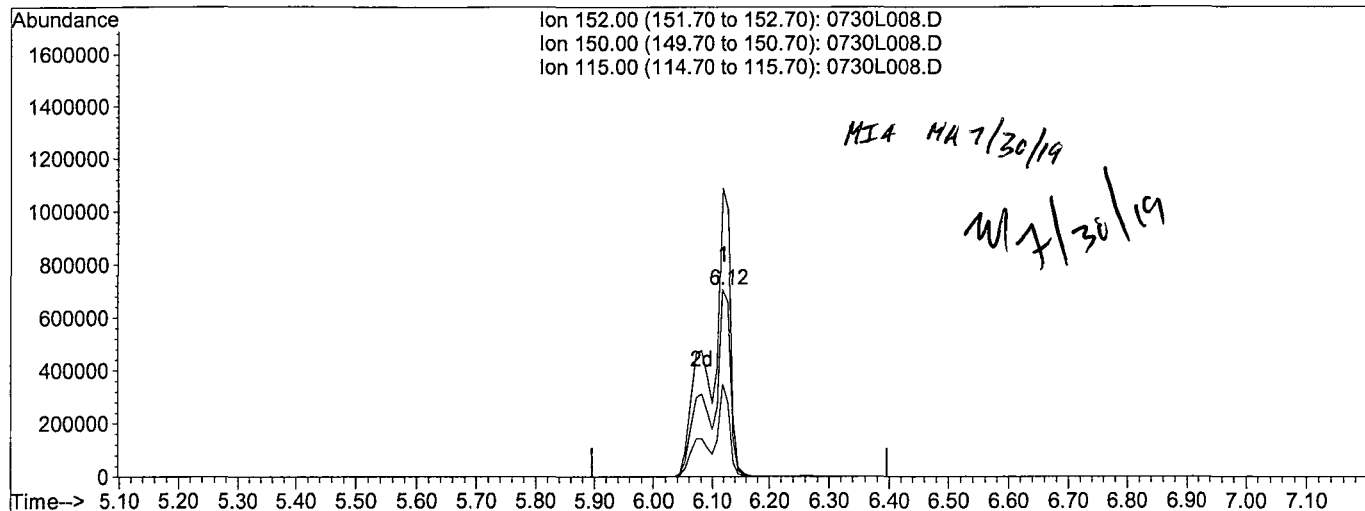
Ion	Exp%	Act%
152.00	100	100
150.00	151.30	154.35
115.00	42.60	49.55
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L008.D
 Acq On : 30 Jul 19 14:27
 Sample : 600ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:13 2019

Vial: 8
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L008.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.12min 40.0000ppb m

response 1716822

Ion	Exp%	Act%
152.00	100	100
150.00	151.30	154.38
115.00	42.60	49.62
0.00	0.00	0.00

Data File : M:\LINUS\DATA\L190730M\0730L009.D Vial: 9
 Acq On : 30 Jul 19 14:51 Operator: MA
 Sample : 800ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 30 15:10 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.12	152	1669070m	40.00000	ppb	-0.03
3) Napthalene-D8 (IS)	7.05	136	5374930	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	4141489	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	8405653	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	9474975	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	9450888	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.69	45	1649063	723.26089	ppb	99

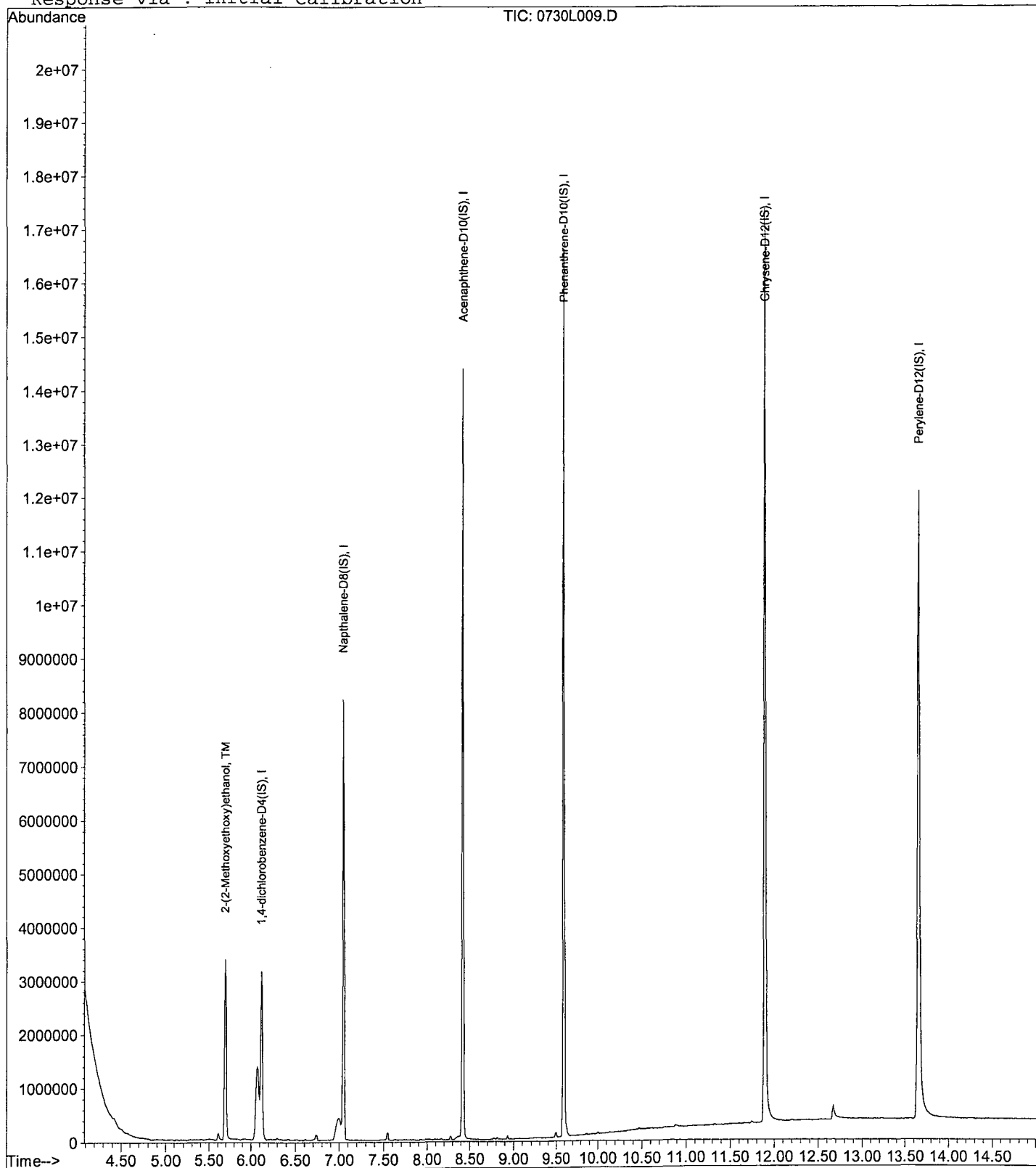
Data File : M:\LINUS\DATA\L190730M\0730L009.D
 Acq On : 30 Jul 19 14:51
 Sample : 800ug/ml MEE 04/30/19
 Misc :

Vial: 9
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Jul 30 15:10 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration

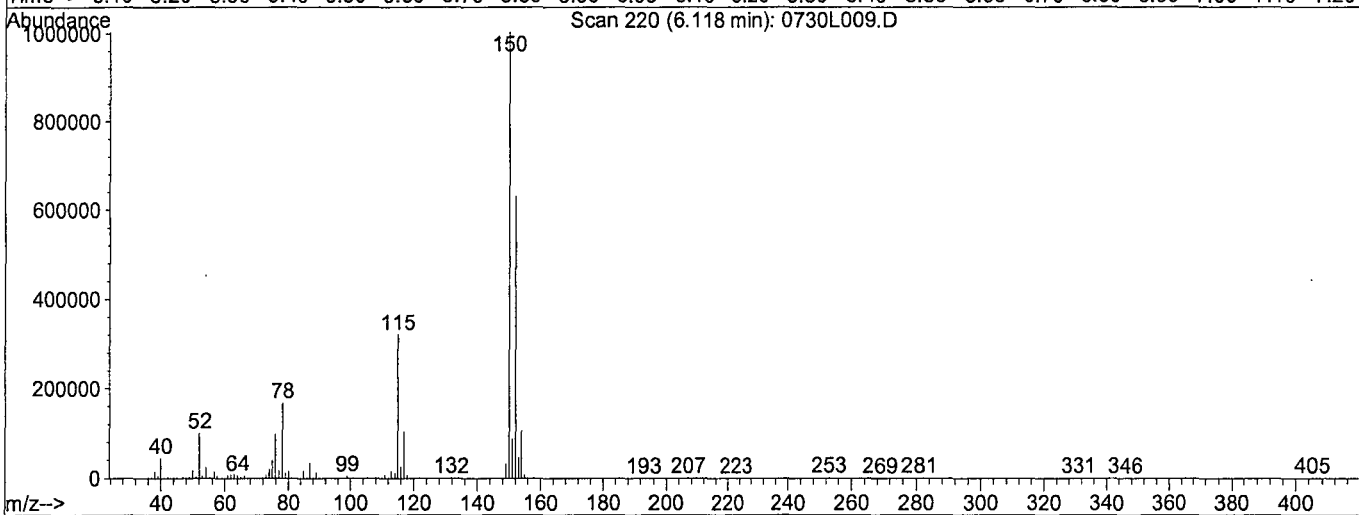
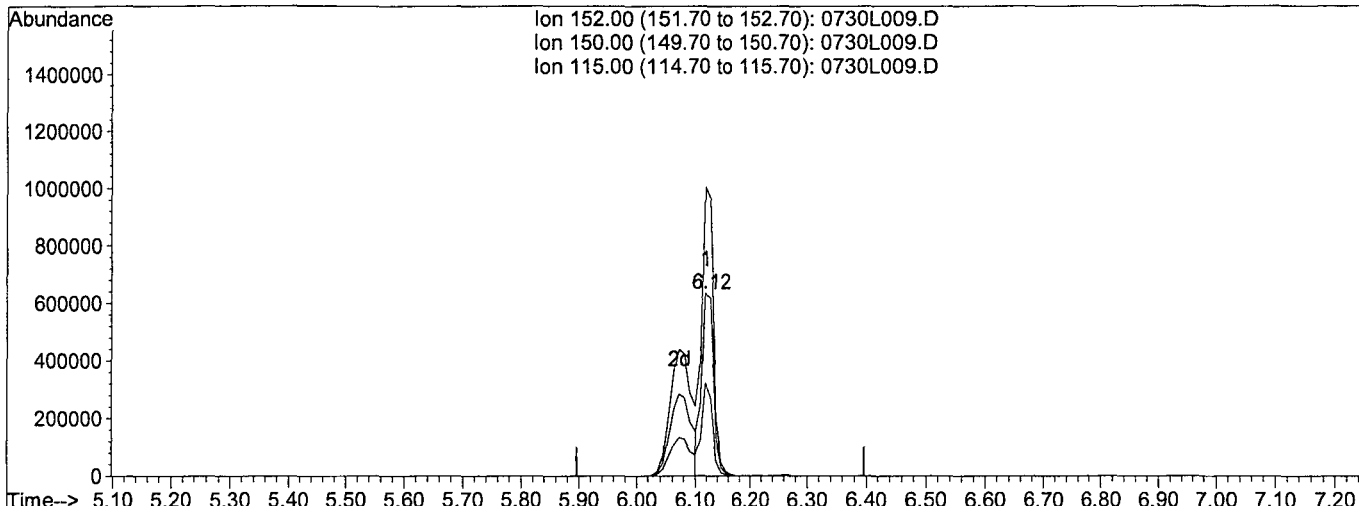


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L009.D
 Acq On : 30 Jul 19 14:51
 Sample : 800ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:10 2019

Vial: 9
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L009.D

(1) 1,4-dichlorobenzene-D4(1S) (I)

6.12min 40.0000ppb

response 933046

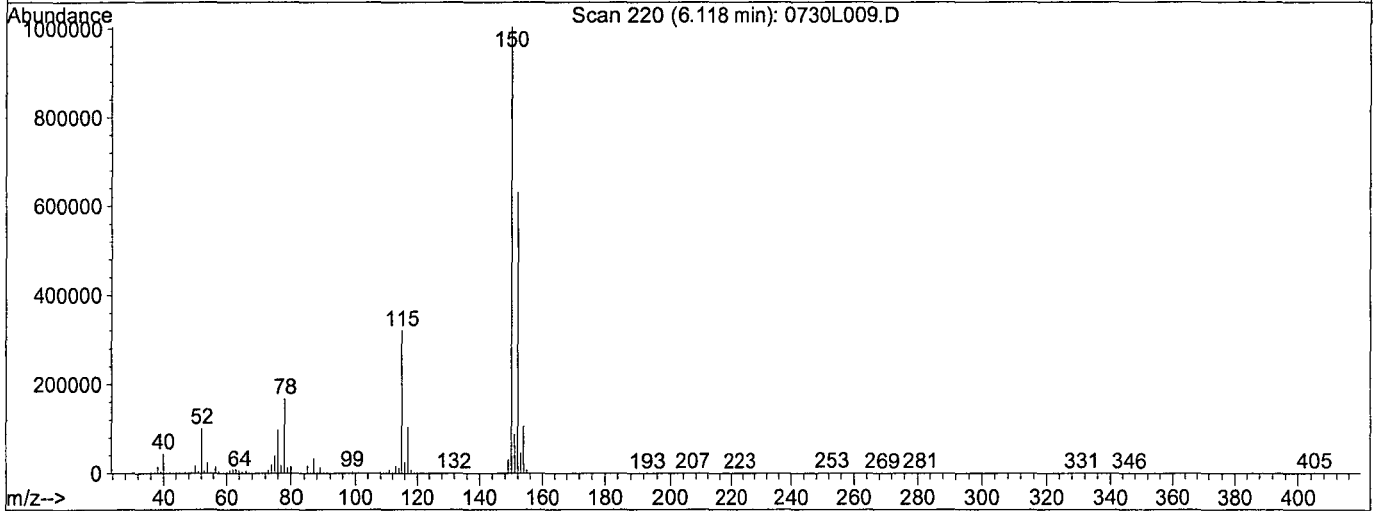
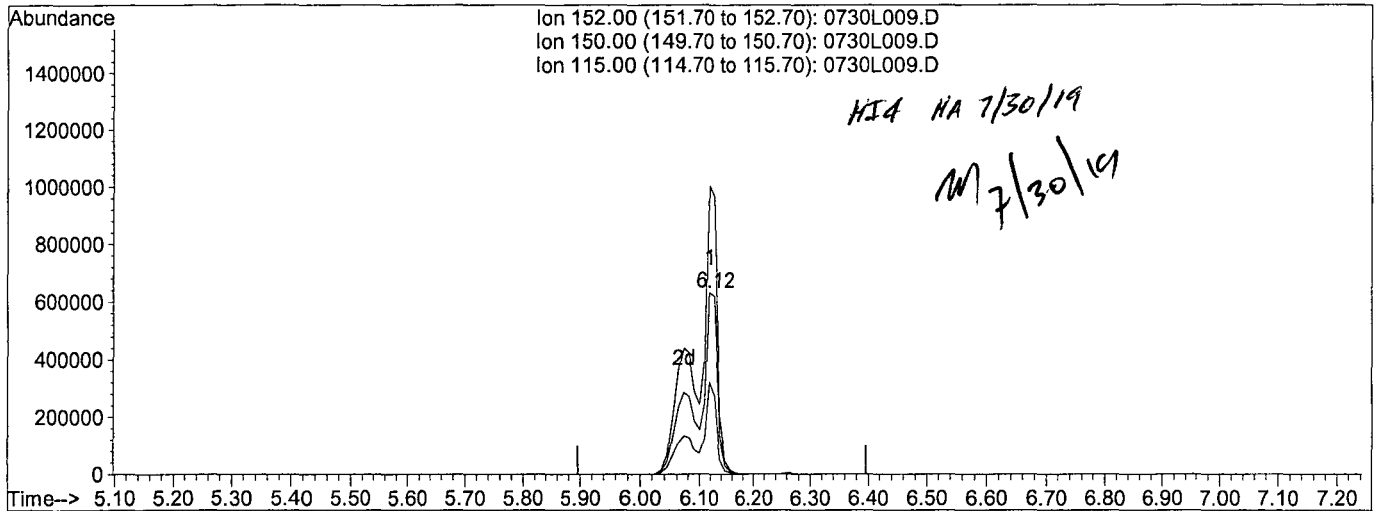
Ion	Exp%	Act%
152.00	100	100
150.00	151.30	158.87
115.00	42.60	50.79
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L009.D
 Acq On : 30 Jul 19 14:51
 Sample : 800ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:10 2019

Vial: 9
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L009.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.12min 40.0000ppb m

response 1669070

Ion	Exp%	Act%
152.00	100	100
150.00	151.30	158.89
115.00	42.60	50.84
0.00	0.00	0.00

Data File : M:\LINUS\DATA\L190730M\0730L010.D Vial: 10
 Acq On : 30 Jul 19 15:13 Operator: MA
 Sample : 1000ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 30 15:42 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:12:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.13	152	1481485m	40.00000	ppb	-0.02
3) Napthalene-D8 (IS)	7.05	136	5786003	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	4262349	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	8581509	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	9894804	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	9883087	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.71	45	1845695	925.02058	ppb	99

Quantitation Report

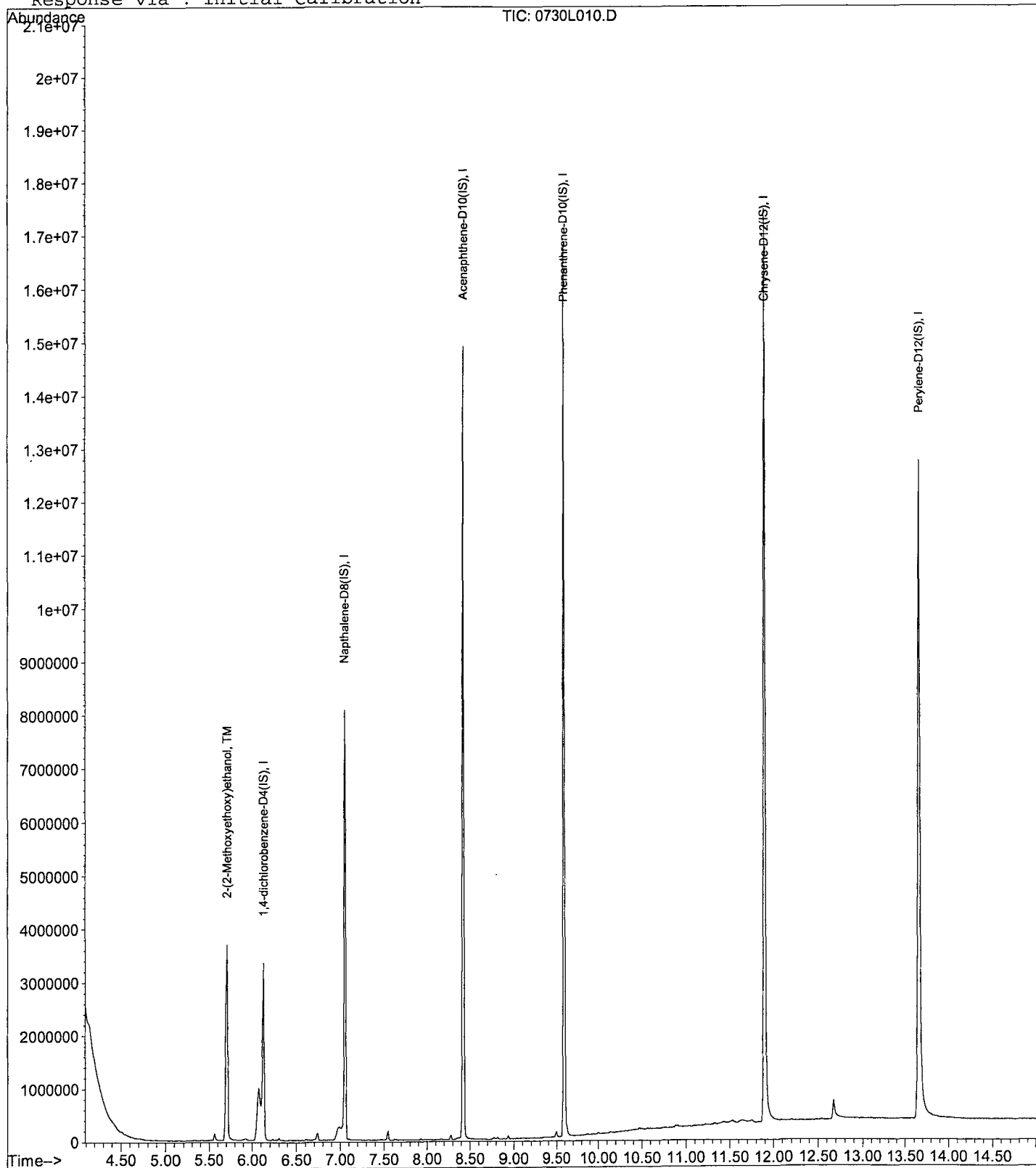
Data File : M:\LINUS\DATA\L190730M\0730L010.D
Acq On : 30 Jul 19 15:13
Sample : 1000ug/ml MEE 04/30/19
Misc :

Vial: 10
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:42 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration

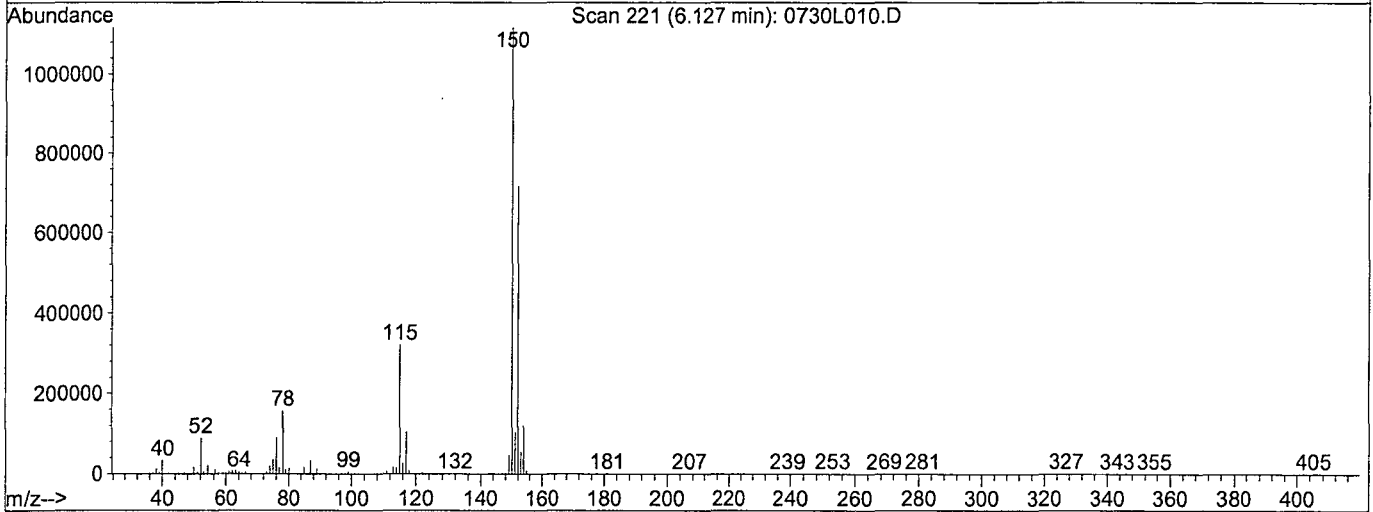
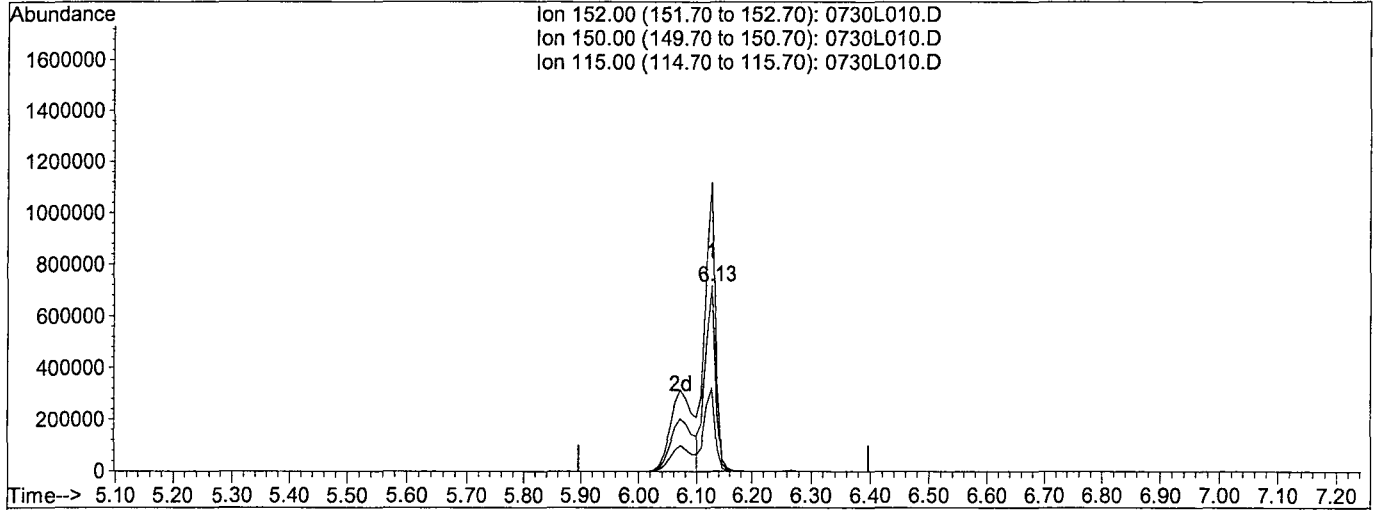


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L010.D
 Acq On : 30 Jul 19 15:13
 Sample : 1000ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:42 2019

Vial: 10
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:12:18 2019
 Response via : Multiple Level Calibration



TIC: 0730L010.D

(1) 1,4-dichlorobenzene-D4(1S) (I)

6.13min 40.0000ppb

response 924804

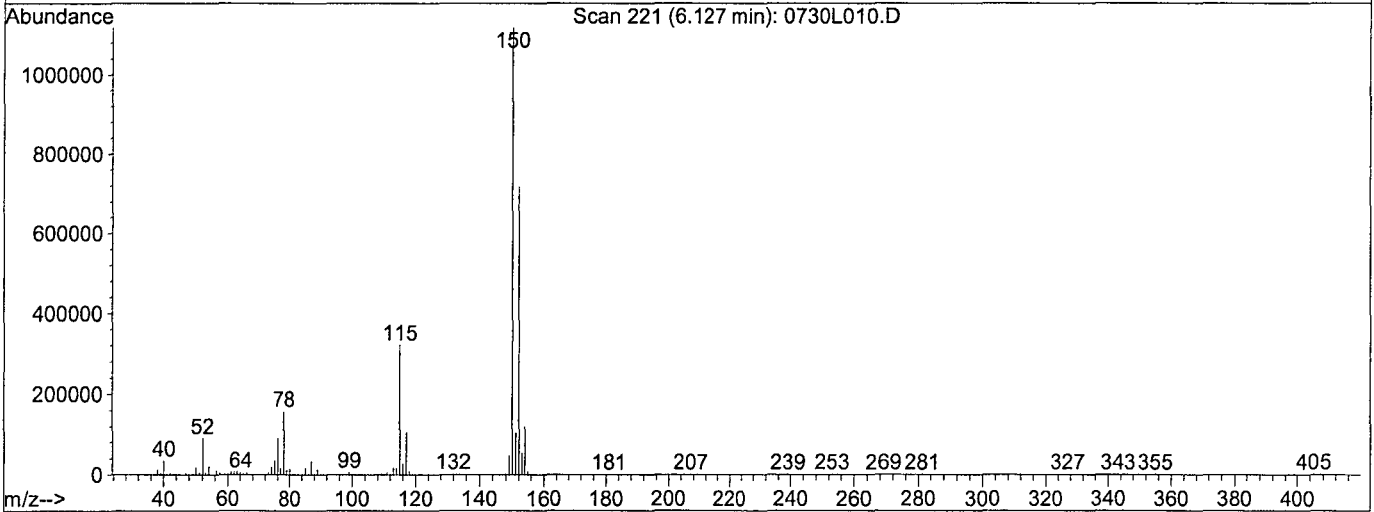
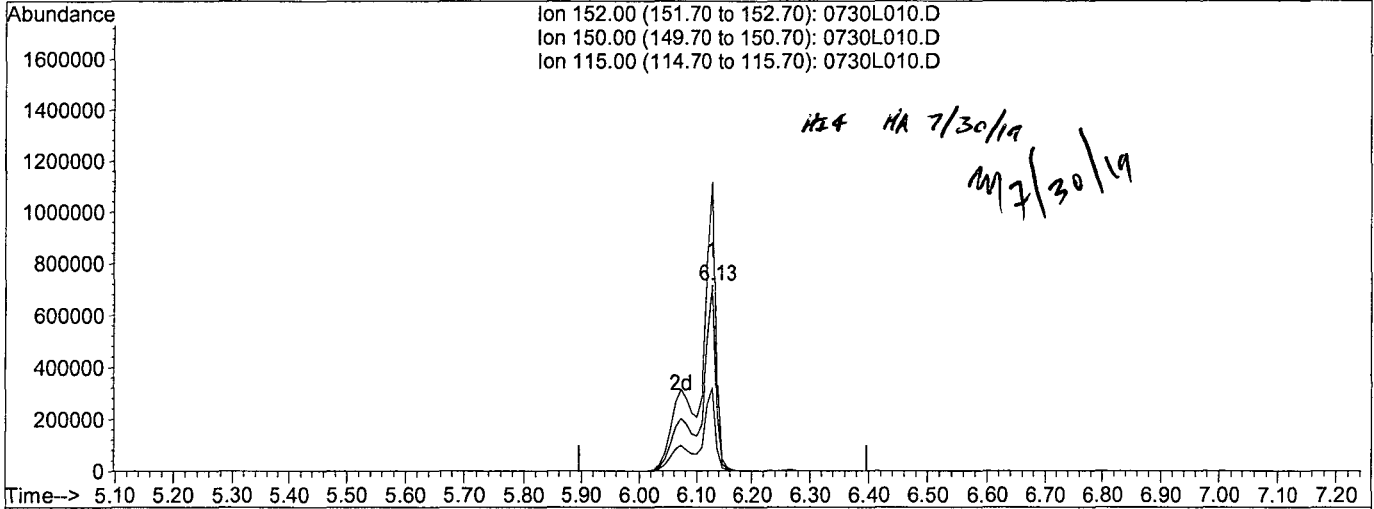
Ion	Exp%	Act%
152.00	100	100
150.00	151.30	156.03
115.00	42.60	44.84
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L010.D
 Acq On : 30 Jul 19 15:13
 Sample : 1000ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:42 2019

Vial: 10
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:12:18 2019
 Response via : Multiple Level Calibration



TIC: 0730L010.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb m

response 1481485

Ion	Exp%	Act%
152.00	100	100
150.00	151.30	156.01
115.00	42.60	44.87
0.00	0.00	0.00

2MEE
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/30/19
Instrument: Linus
Initial Cal. Date: 07/30/19
Data File: 0730L011.D

		Compound	MEAN	CCRF	%D	%Drift
1	TM	2-(2-Methoxyethoxy)ethanol	0.0534	0.0617	16	TM
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
Average					16.0	

Data File : M:\LINUS\DATA\L190730M\0730L011.D Vial: 11
 Acq On : 30 Jul 19 15:37 Operator: MA
 Sample : SS MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 30 17:38 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.13	152	1382961m	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.05	136	4594613	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3598325	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7544561	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	8541977	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	9241872	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	5.68	45	1066714	578.11784	ppb	98

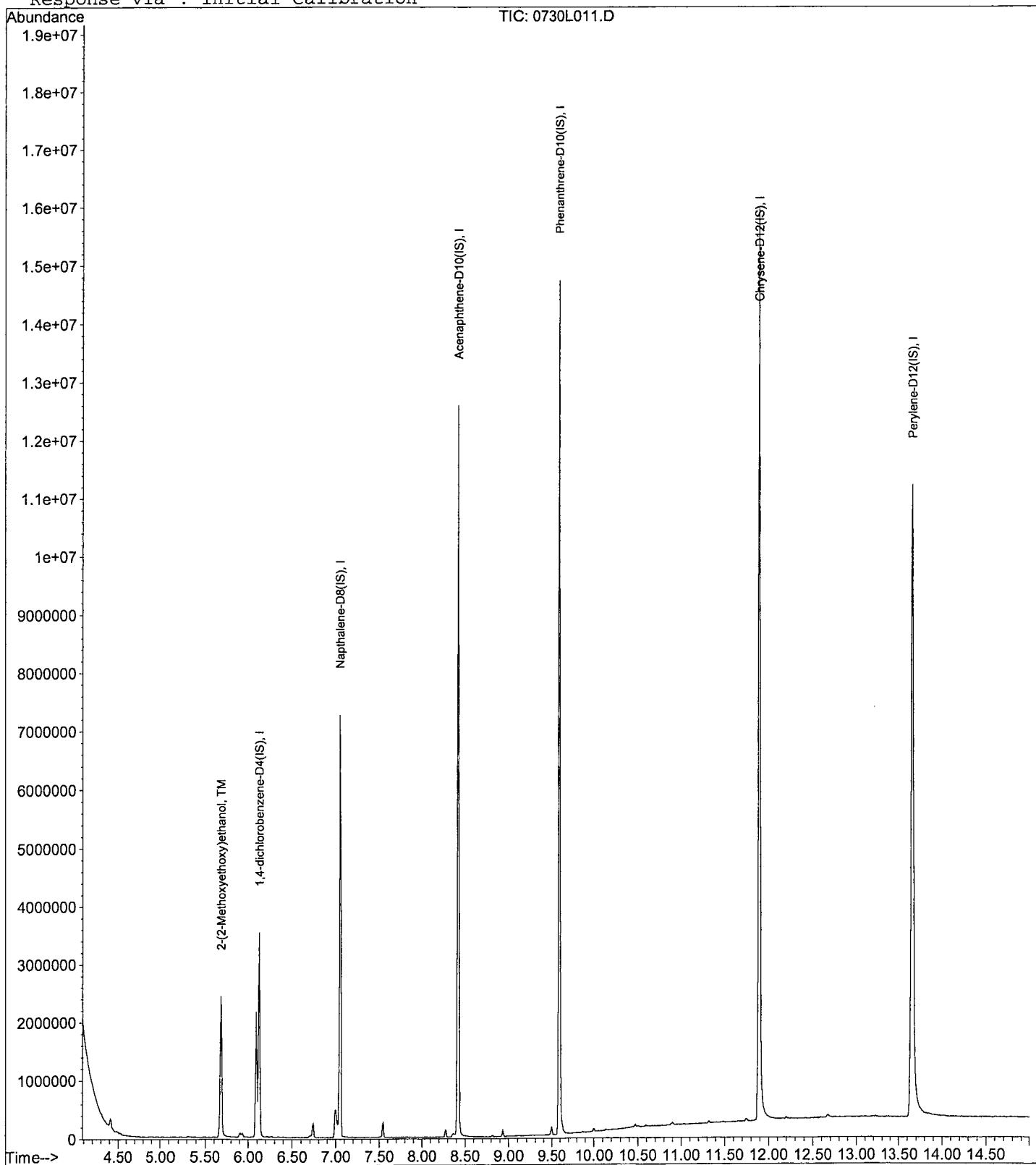
Data File : M:\LINUS\DATA\L190730M\0730L011.D
Acq On : 30 Jul 19 15:37
Sample : SS MEE 04/30/19
Misc :

Vial: 11
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 17:38 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration

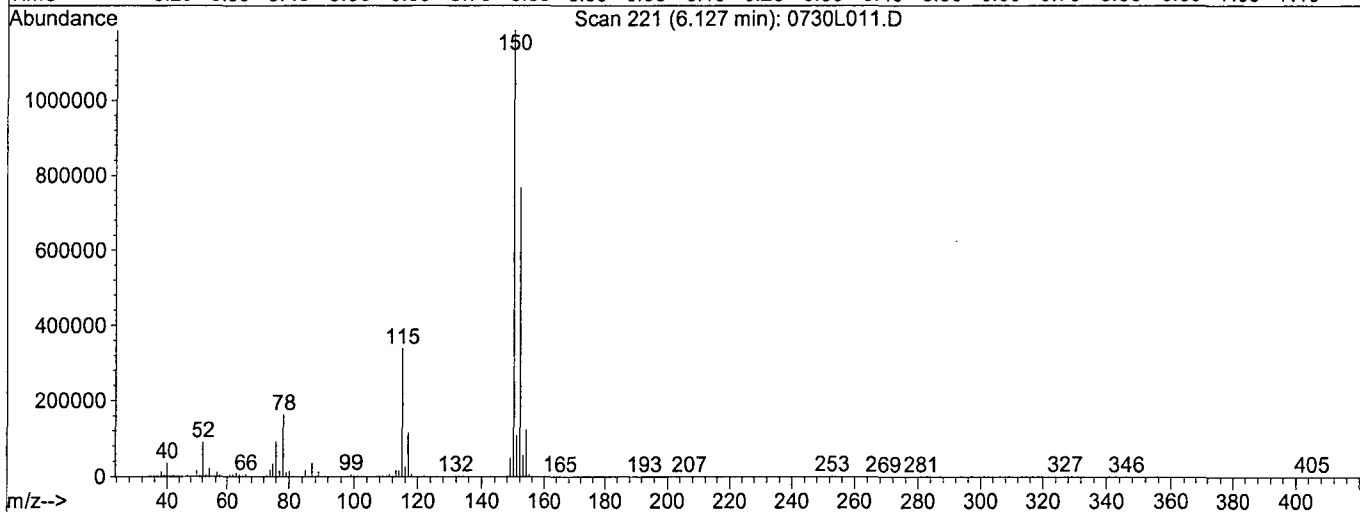
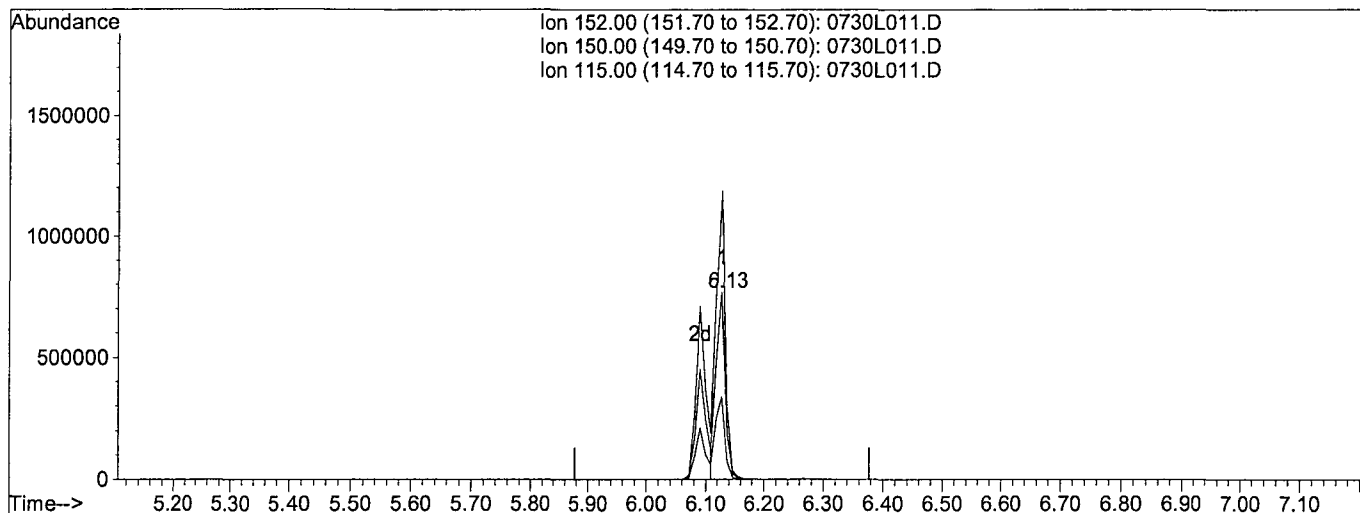


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L011.D
 Acq On : 30 Jul 19 15:37
 Sample : SS MEE 04/30/19
 Misc :
 Quant Time: Jul 30 17:38 2019

Vial: 11
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Multiple Level Calibration



TIC: 0730L011.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb

response 826966

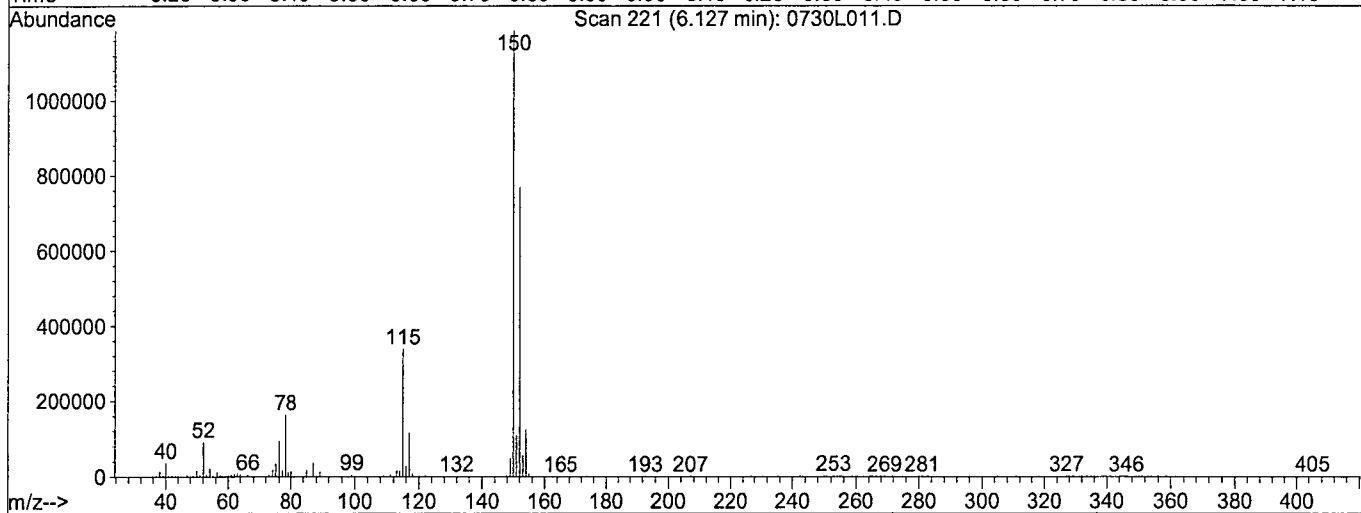
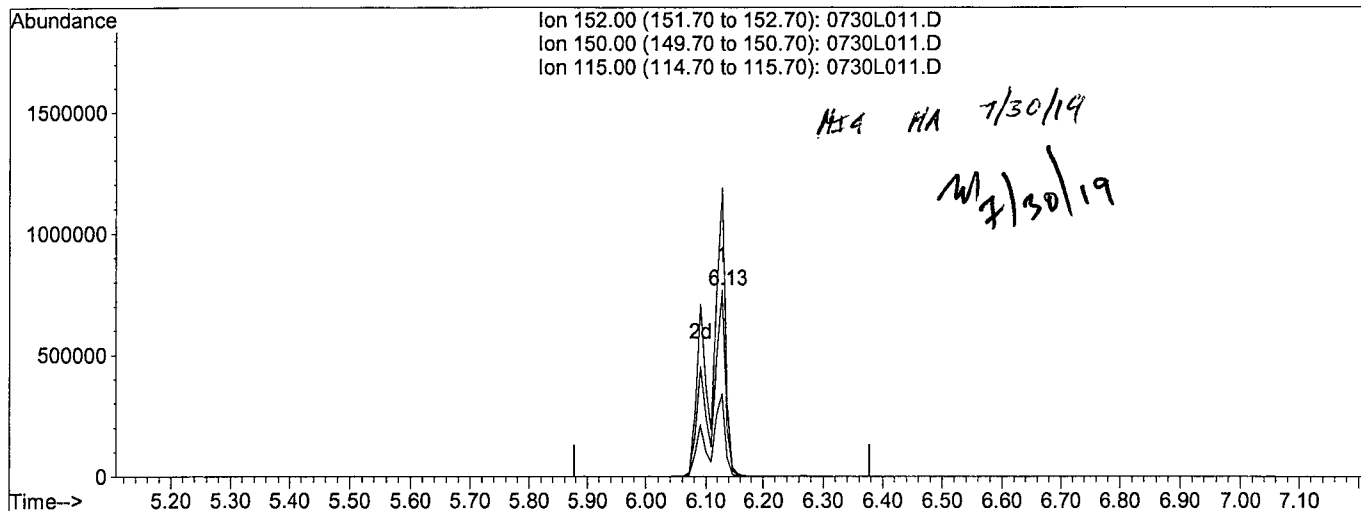
Ion	Exp%	Act%
152.00	100	100
150.00	154.60	154.55
115.00	44.10	44.04
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L011.D
 Acq On : 30 Jul 19 15:37
 Sample : SS MEE 04/30/19
 Misc :
 Quant Time: Jul 30 17:38 2019

Vial: 11
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Multiple Level Calibration



TIC: 0730L011.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb m

response 1382961

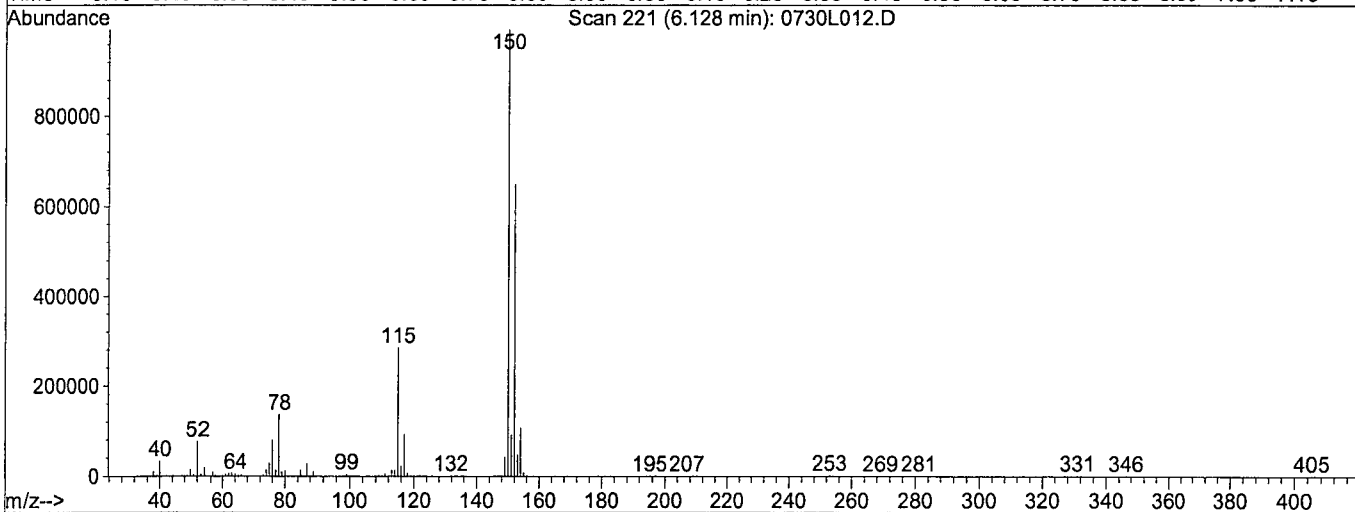
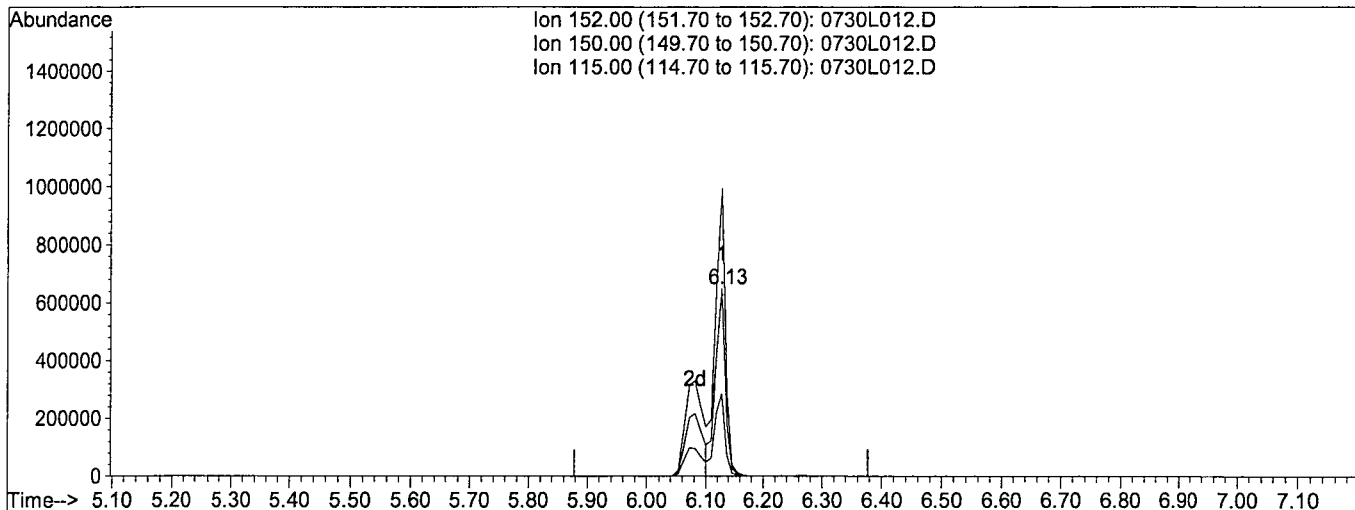
Ion	Exp%	Act%
152.00	100	100
150.00	154.60	154.57
115.00	44.10	44.07
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L012.D
 Acq On : 30 Jul 19 16:00
 Sample : QC 500ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 16:17 2019

Vial: 12
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Multiple Level Calibration



TIC: 0730L012.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb

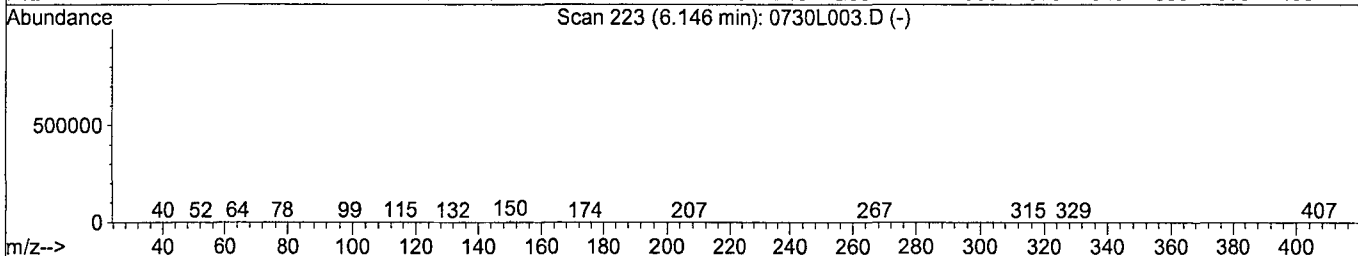
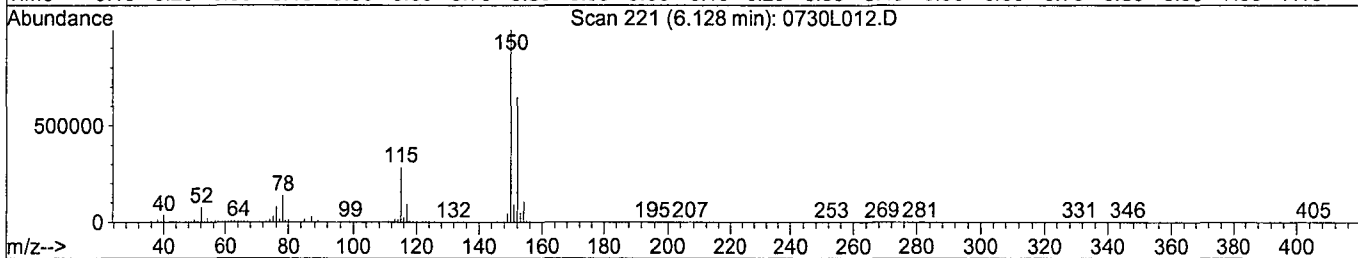
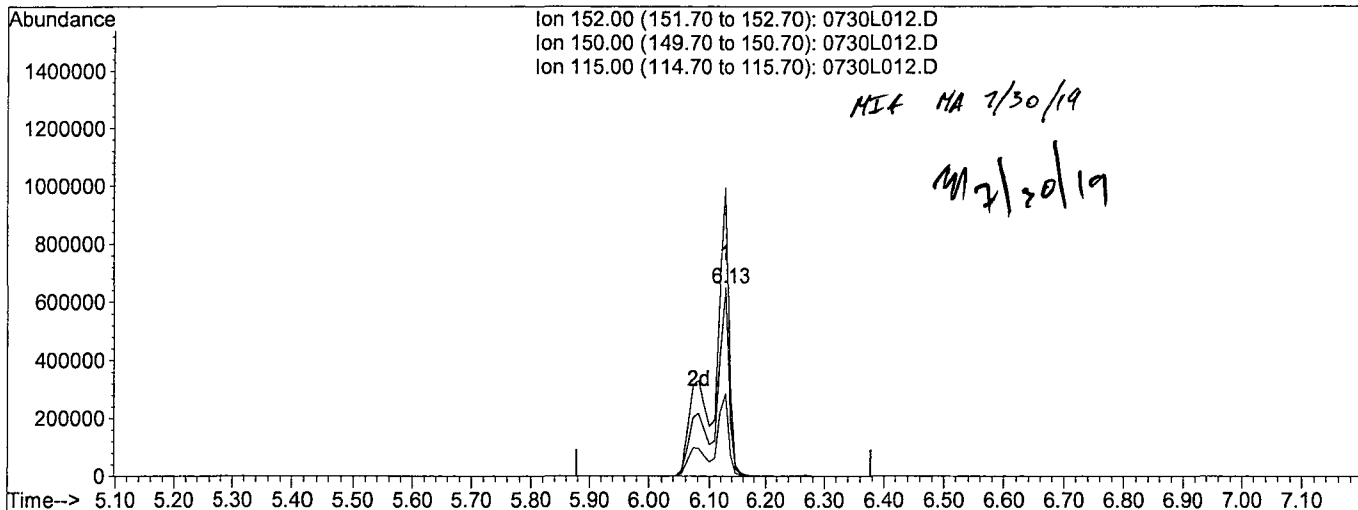
response 787665

Ion	Exp%	Act%
152.00	100	100
150.00	154.60	153.33
115.00	44.10	44.00
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L012.D Vial: 12
 Acq On : 30 Jul 19 16:00 Operator: MA
 Sample : QC 500ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00
 Quant Time: Jul 30 16:17 2019 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Multiple Level Calibration



TIC: 0730L012.D

(1) 1,4-dichlorobenzene-D4(1S) (I)

6.13min 40.0000ppb m

response 1237555

Ion	Exp%	Act%
152.00	100	100
150.00	154.60	153.34
115.00	44.10	44.03
0.00	0.00	0.00

2MEE
EPA 8270

Form 7
Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/30/19
Instrument: Linus
Initial Cal. Date: 07/30/19
Data File: 0730L031.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I
2	TM	2-(2-Methoxyethoxy)ethanol	0.0534	0.0610	14	TM
3	I	Napthalene-D8(IS)	ISTD			I
4	I	Acenaphthene-D10(IS)	ISTD			I
5	I	Phenanthrene-D10(IS)	ISTD			I
6	I	Chrysene-D12(IS)	ISTD			I
7	I	Perylene-D12(IS)	ISTD			I
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						

Average

14.0

Data File : M:\LINUS\DATA\L190730M\0730L031.D Vial: 31
 Acq On : 30 Jul 19 23:19 Operator: MA
 Sample : 500ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 31 9:50 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.12	152	1430074m	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.05	136	4679509	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3697826	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.58	188	6445648	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.88	240	8956592	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.64	264	9413879	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.68	45	1089986	571.26908	ppb	99

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L031.D

Vial: 31

Acq On : 30 Jul 19 23:19

Operator: MA

Sample : 500ug/ml MEE 04/30/19

Inst : Linus

Misc :

Multiplr: 1.00

Quant Time: Jul 31 9:50 2019

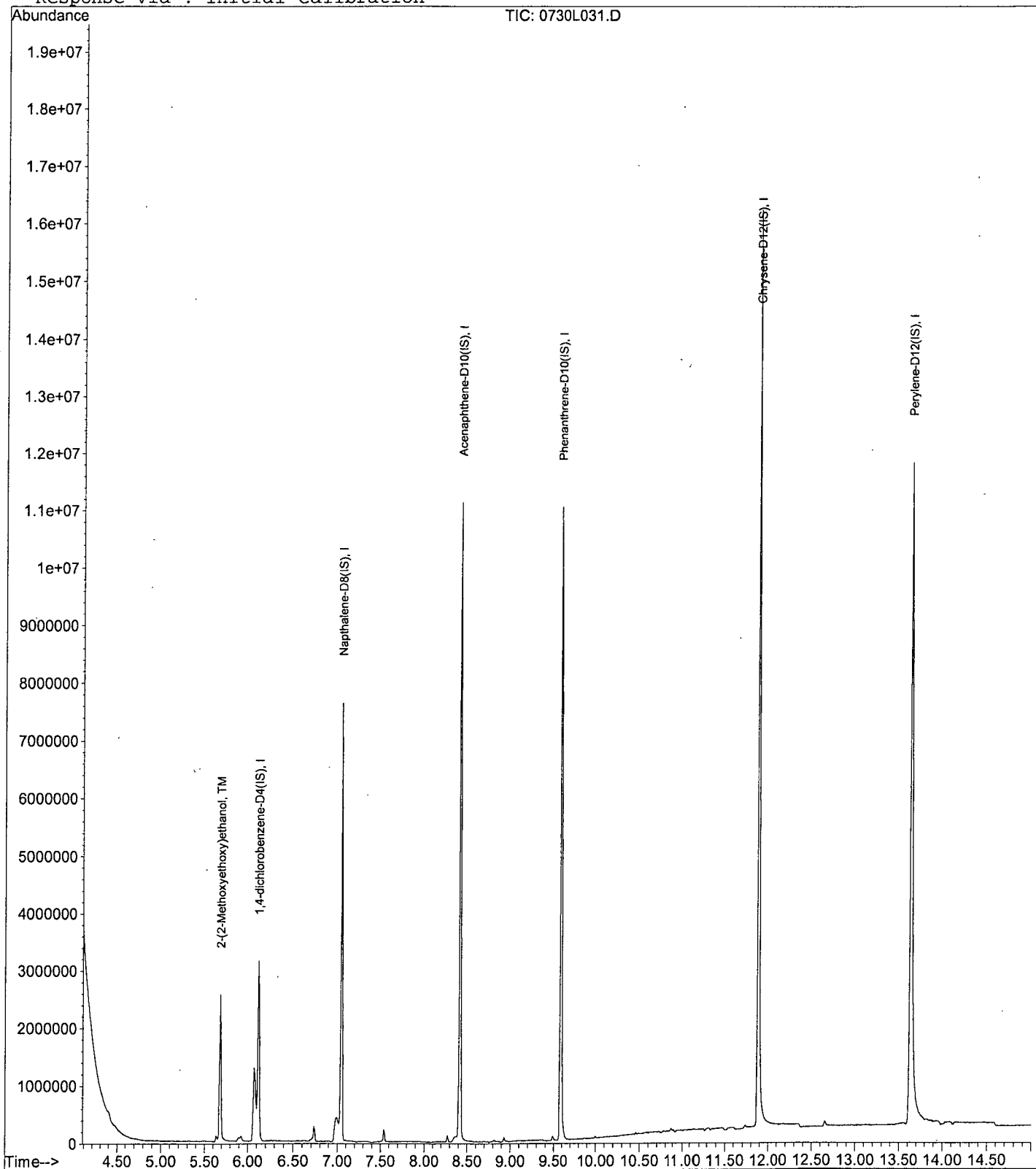
Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)

Title : EPA 8270C

Last Update : Tue Jul 30 15:59:18 2019

Response via : Initial Calibration



ORGANICS
Raw Data

Data File : M:\LINUS\DATA\L190730M\0730L028.D Vial: 28
 Acq On : 30 Jul 19 22:10 Operator: MA
 Sample : AZ95419W15 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 31 10:15 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.14	152	1032591	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.06	136	4235009	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3030531	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7064986	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	8077444	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.65	264	10028506	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

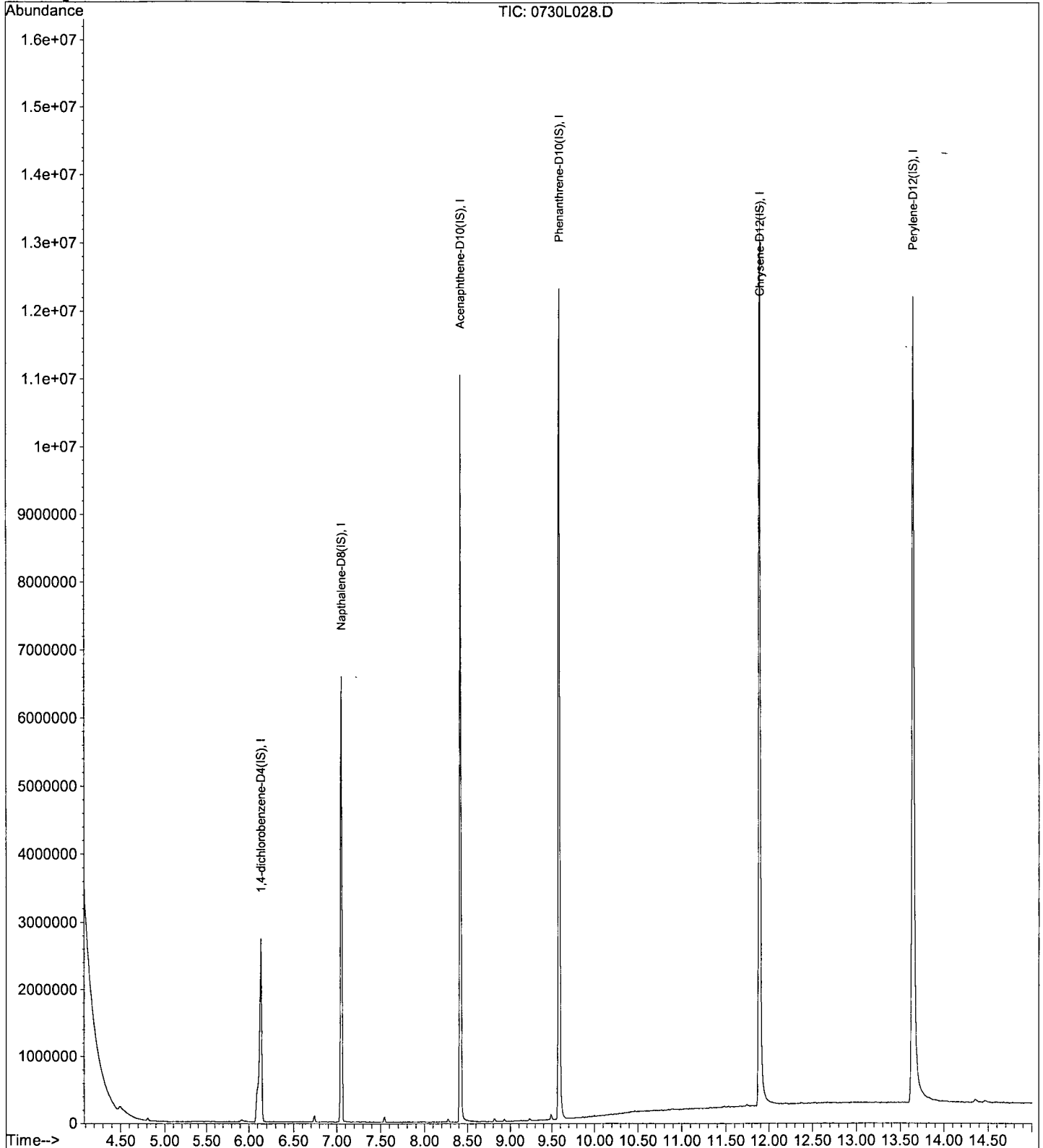
Data File : M:\LINUS\DATA\L190730M\0730L028.D
Acq On : 30 Jul 19 22:10
Sample : AZ95419W15 2/500
Misc :

Vial: 28
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 31 10:15 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L029.D Vial: 29
 Acq On : 30 Jul 19 22:33 Operator: MA
 Sample : AZ95421W15 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 31 10:15 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.14	152	970518	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.06	136	3984315	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3219204	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7571570	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	7892313	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.65	264	8284587	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

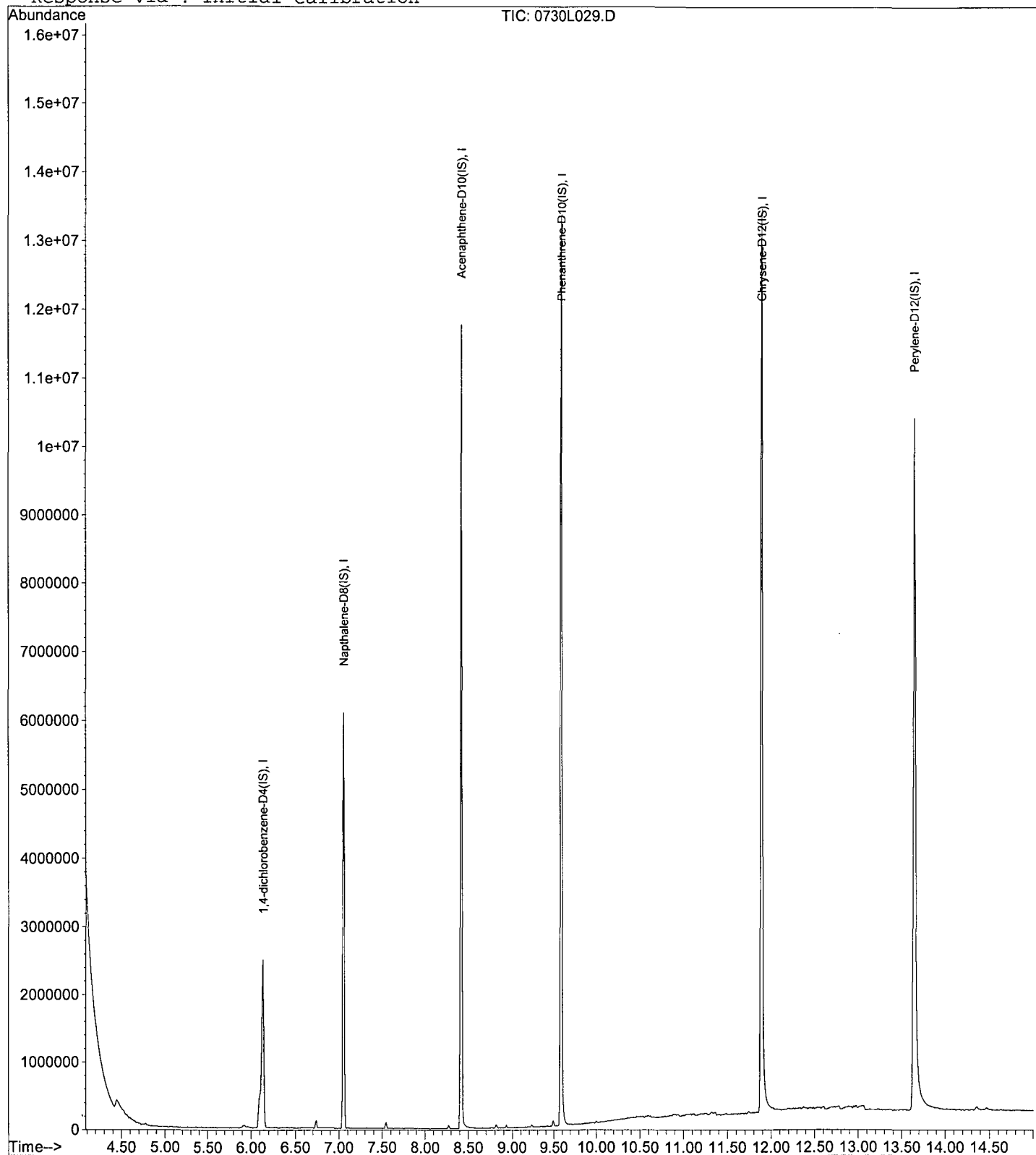
Data File : M:\LINUS\DATA\L190730M\0730L029.D
Acq On : 30 Jul 19 22:33
Sample : AZ95421W15 2/500
Misc :

Vial: 29
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 31 10:15 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L030.D Vial: 30
 Acq On : 30 Jul 19 22:56 Operator: MA
 Sample : AZ95423W15 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 31 10:16 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.14	152	1052532	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.06	136	4381677	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	2875336	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.58	188	6823603	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.88	240	7710836	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.64	264	8022640	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

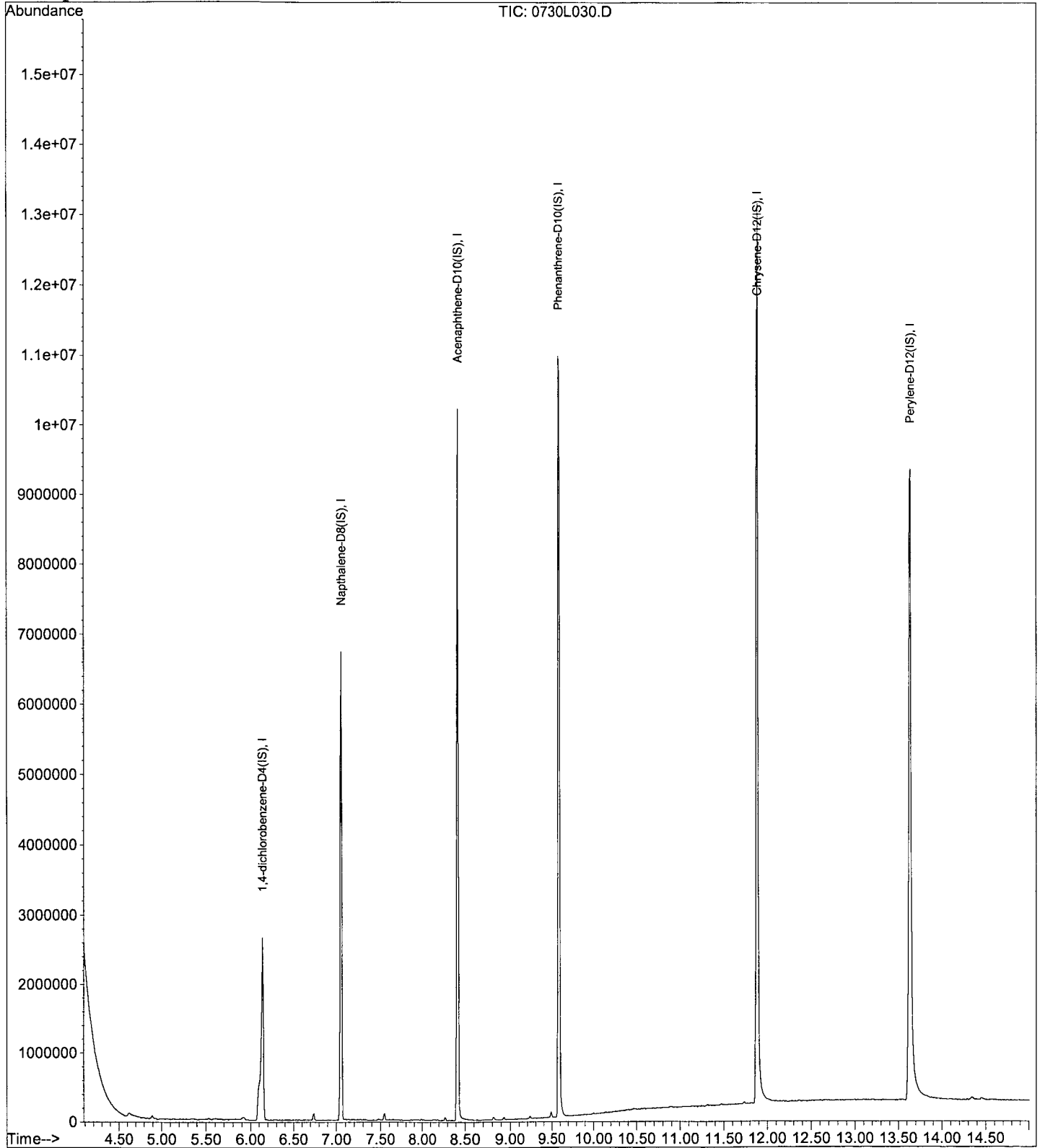
Data File : M:\LINUS\DATA\L190730M\0730L030.D
Acq On : 30 Jul 19 22:56
Sample : AZ95423W15 2/500
Misc :

Vial: 30
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 31 10:16 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L014.D Vial: 14
 Acq On : 30 Jul 19 16:45 Operator: MA
 Sample : 190726A BLK 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 31 10:06 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.14	152	1336804	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.06	136	4953764	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3582064	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	8123027	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.90	240	8906228	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.67	264	9831222	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

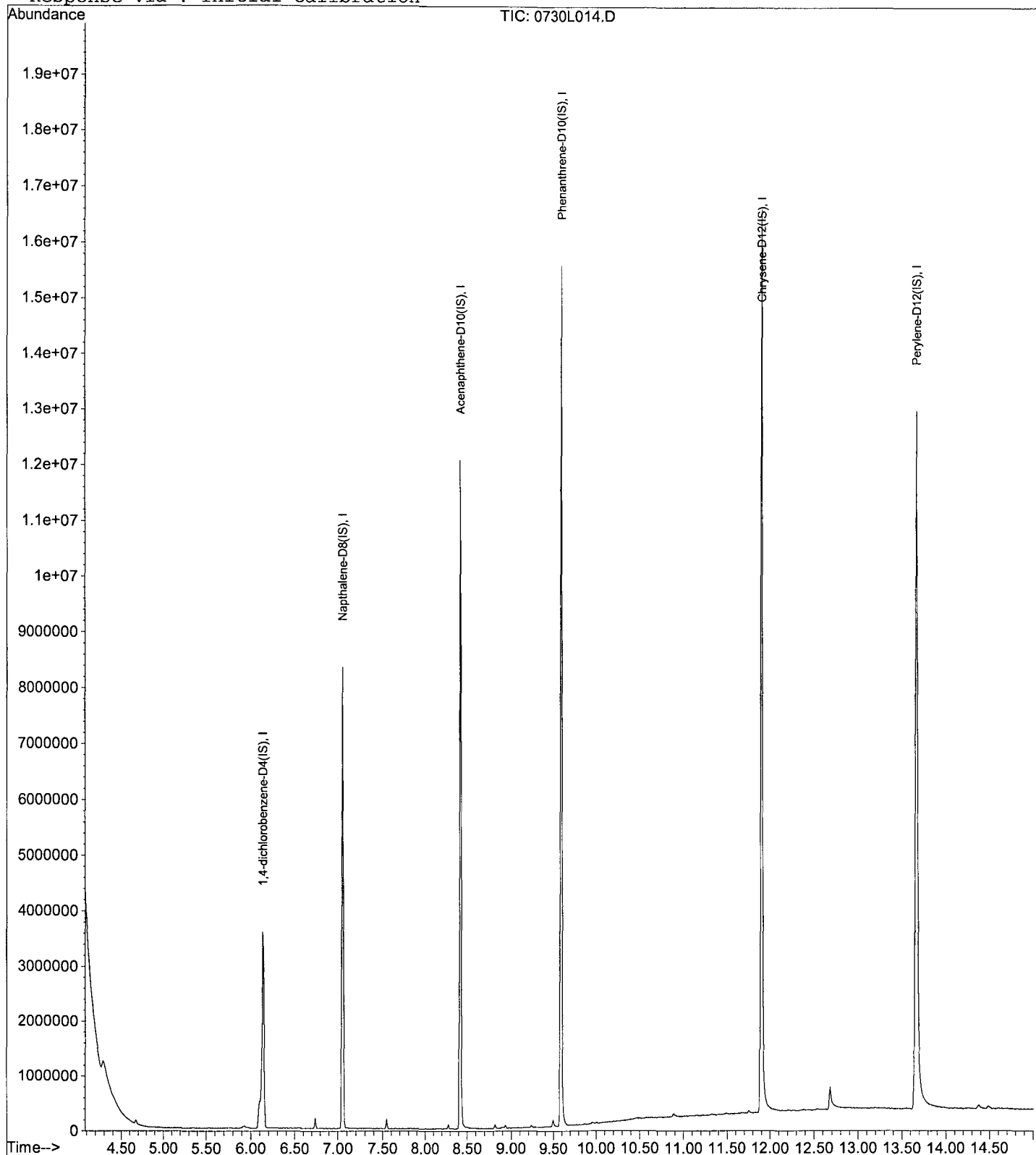
Data File : M:\LINUS\DATA\L190730M\0730L014.D
Acq On : 30 Jul 19 16:45
Sample : 190726A BLK 2/500
Misc :

Vial: 14
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 31 10:06 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L015.D
 Acq On : 30 Jul 19 17:09
 Sample : 190726A LCS-1 2/500
 Misc :

Vial: 15
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Jul 31 10:05 2019

Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.14	152	1275338	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.06	136	4717275	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3276414	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7472320	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.88	240	8004561	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.64	264	8866056	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	5.77	45	174716	102.67996	ppb	97

Quantitation Report

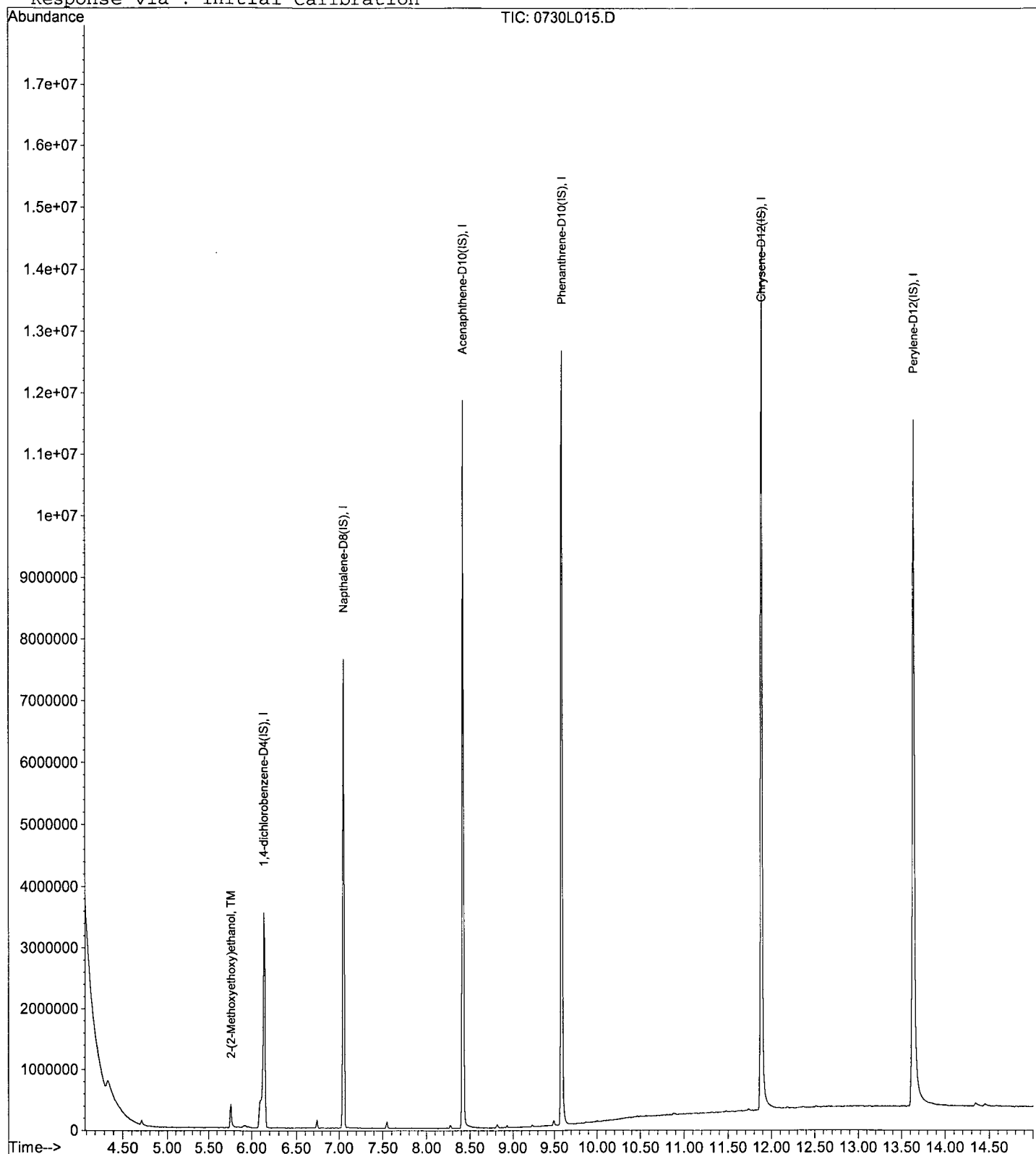
Data File : M:\LINUS\DATA\L190730M\0730L015.D
Acq On : 30 Jul 19 17:09
Sample : 190726A LCS-1 2/500
Misc :

Vial: 15
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 31 10:05 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L016.D
 Acq On : 30 Jul 19 17:32
 Sample : 190726A LCSD-1 2/500
 Misc :

Vial: 16
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Jul 31 10:05 2019

Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.14	152	1099448	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.06	136	4328762	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3177077	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7321662	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.88	240	7997465	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.64	264	10753455	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	5.77	45	177377	120.92077	ppb	100

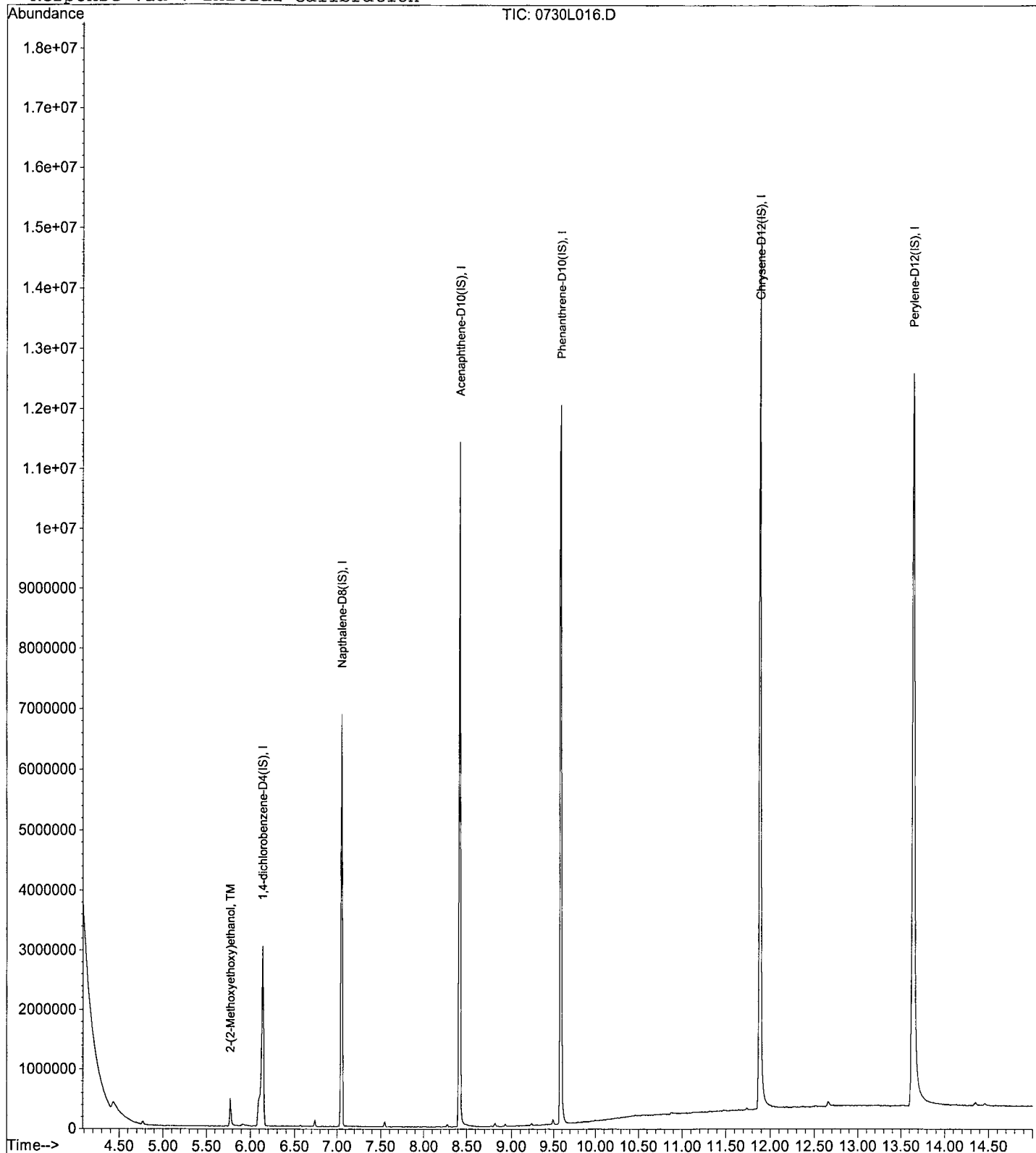
Data File : M:\LINUS\DATA\L190730M\0730L016.D
Acq On : 30 Jul 19 17:32
Sample : 190726A LCSD-1 2/500
Misc :

Vial: 16
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 31 10:05 2019

Quant Results File: LMEE0430.RES

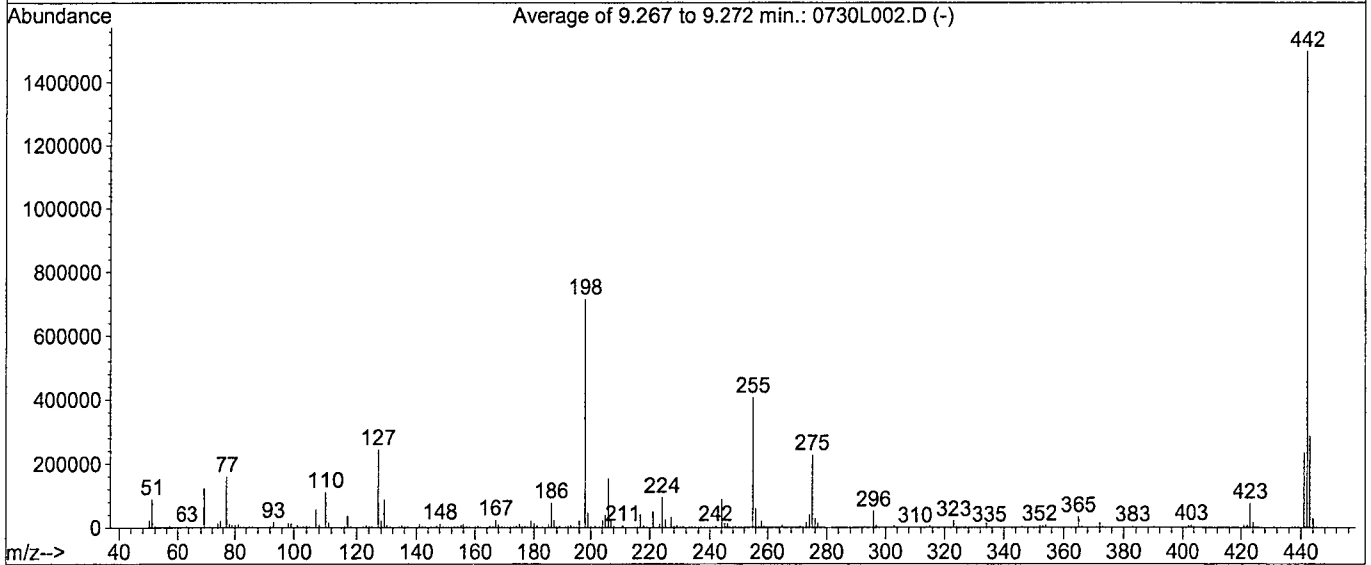
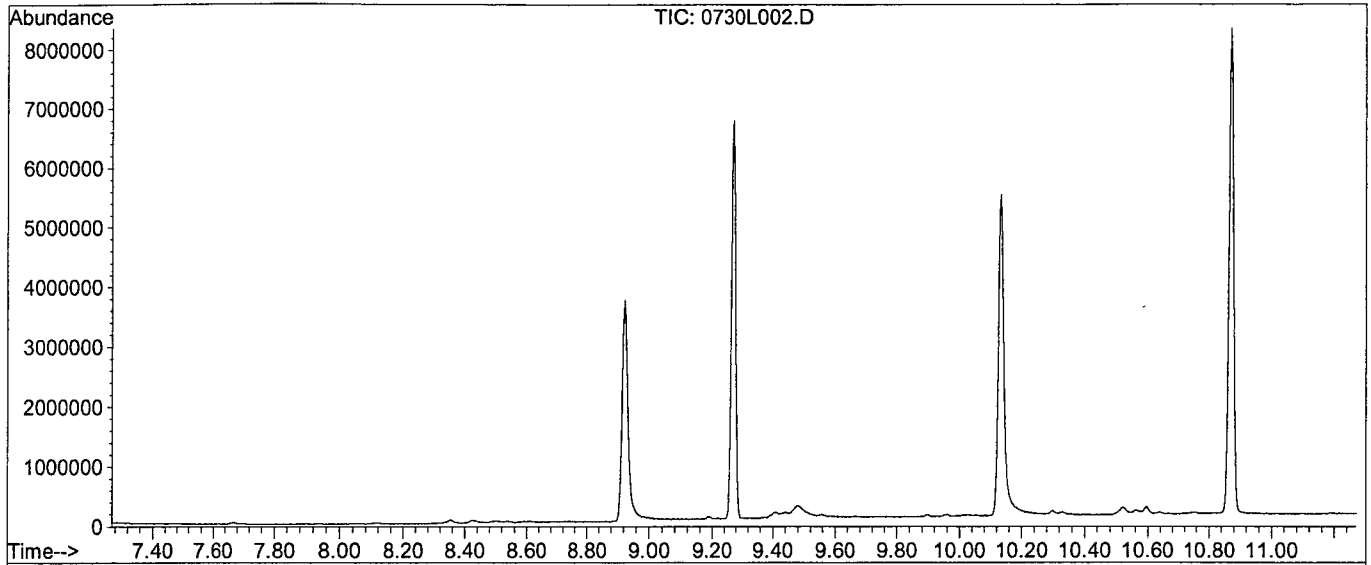
Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L002.D
 Acq On : 30 Jul 19 9:38
 Sample : SV TUNE 7/11/19
 Misc :

Vial: 13
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C



AutoFind: Scans 1278, 1279, 1280; Background Corrected with Scan 1264

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	12.4	88440	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.7	913	PASS
127	198	10	80	34.1	244050	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	715371	PASS
199	198	5	9	6.5	46251	PASS
275	198	10	60	31.8	227456	PASS
365	198	1	100	4.6	32808	PASS
441	442	0.01	24	15.6	234091	PASS
442	198	50	500	209.5	1498965	PASS
443	442	15	24	19.1	286635	PASS

Data File Name: 0730L002.D
Data File Path: M:\LINUS\DATA\190730M\
Operator: MA
Date Acquired: 30 Jul 2019 09:38
Method File: DFTPP2.M
Sample Name: SV TUNE 7/11/19
Vial Number: 13
Instrument Name: Linus

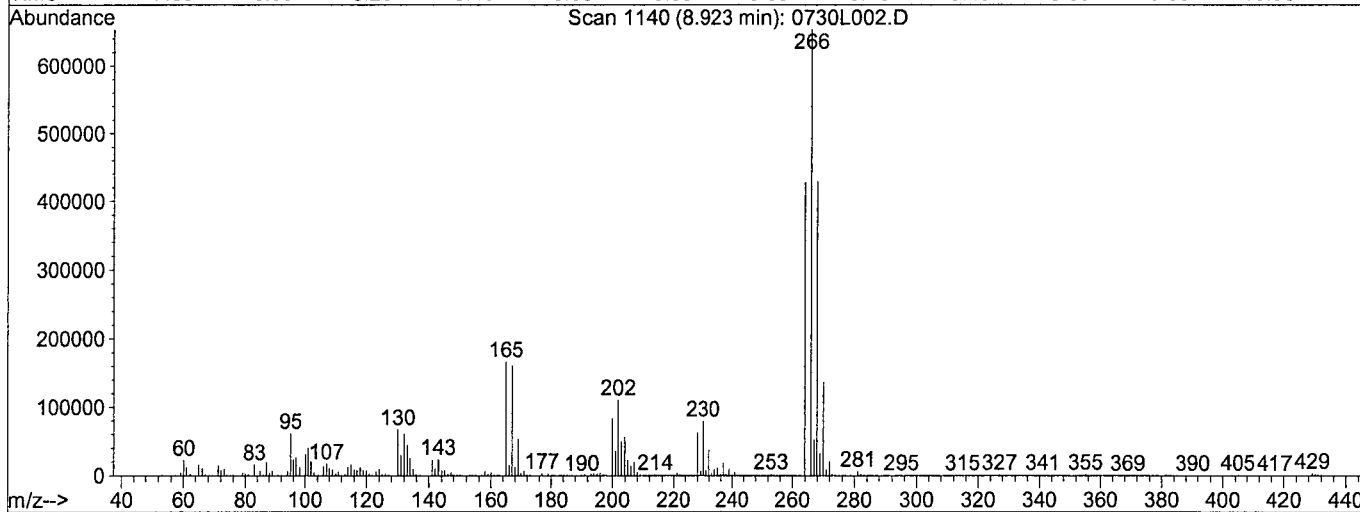
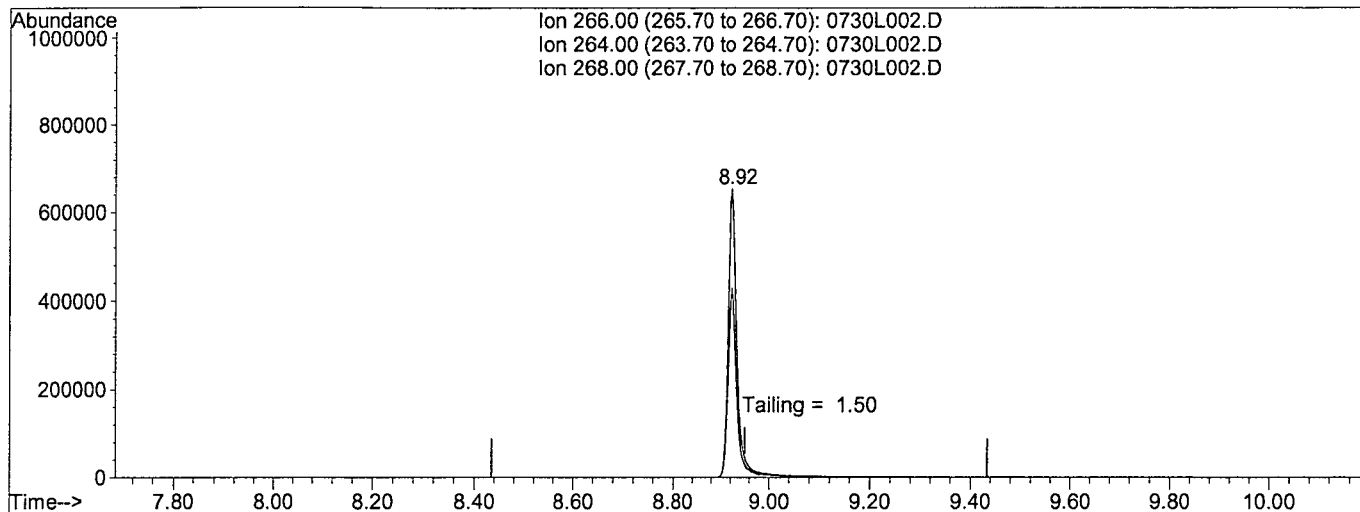
#	Name	Ret Time	Target Response
1)	DDT	10.91	89435000
2)	DDD	10.60	1591060
3)	DDE	10.64	0

Breakdown 1.75

Data File : M:\LINUS\DATA\L190730M\0730L002.D
 Acq On : 30 Jul 19 9:38
 Sample : SV TUNE 7/11/19
 Misc :
 Quant Time: Jul 30 16:36 2019

Vial: 13
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 26 10:43:15 2019
 Response via : Single Level Calibration



TIC: 0730L002.D

(5) Pentachlorophenol

8.92min 0.0000

response 8415831

Ion	Exp%	Act%
266.00	100	100
264.00	68.30	65.66
268.00	65.70	64.15
0.00	0.00	0.00

Data File : M:\LINUS\DATA\L190730M\0730L002.D

Vial: 13

Acq On : 30 Jul 19 9:38

Operator: MA

Sample : SV TUNE 7/11/19

Inst : Linus

Misc :

Multiplr: 1.00

Quant Time: Jul 30 16:36 2019

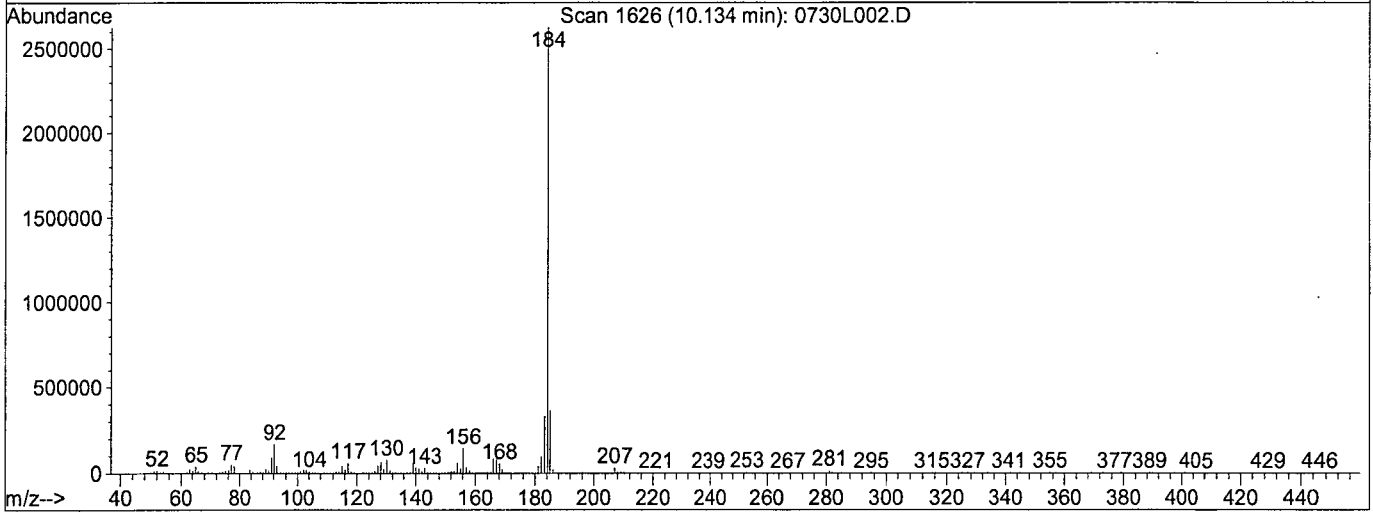
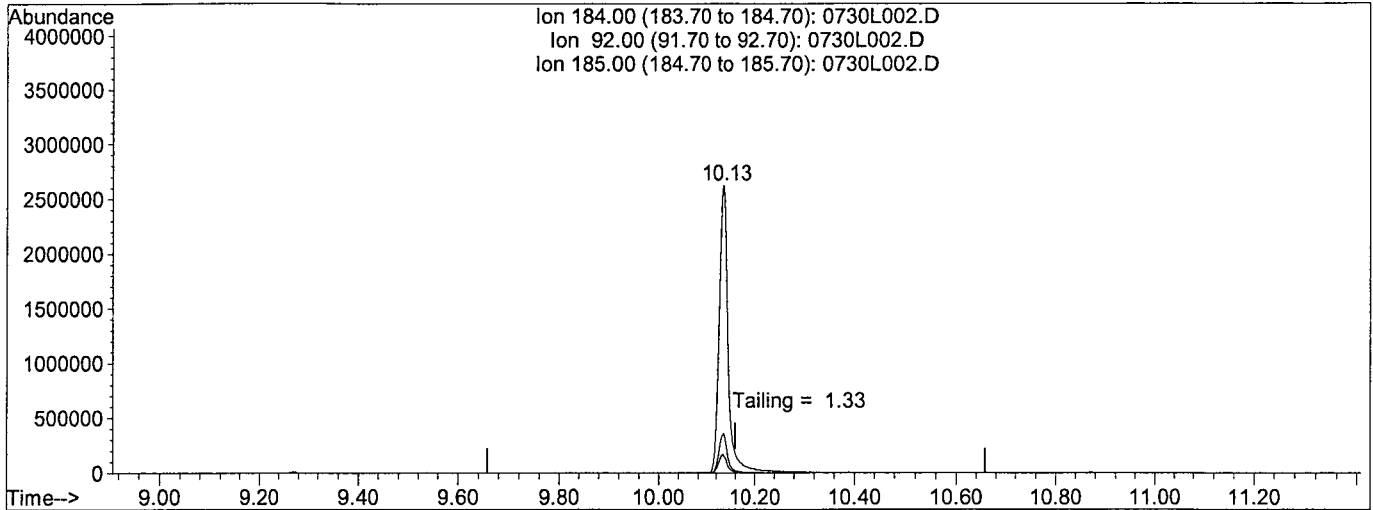
Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\DFTPP2.M (Chemstation Integrator)

Title :

Last Update : Fri Jul 26 10:43:15 2019

Response via : Single Level Calibration



TIC: 0730L002.D

(6) Benzidine

10.13min 0.0000

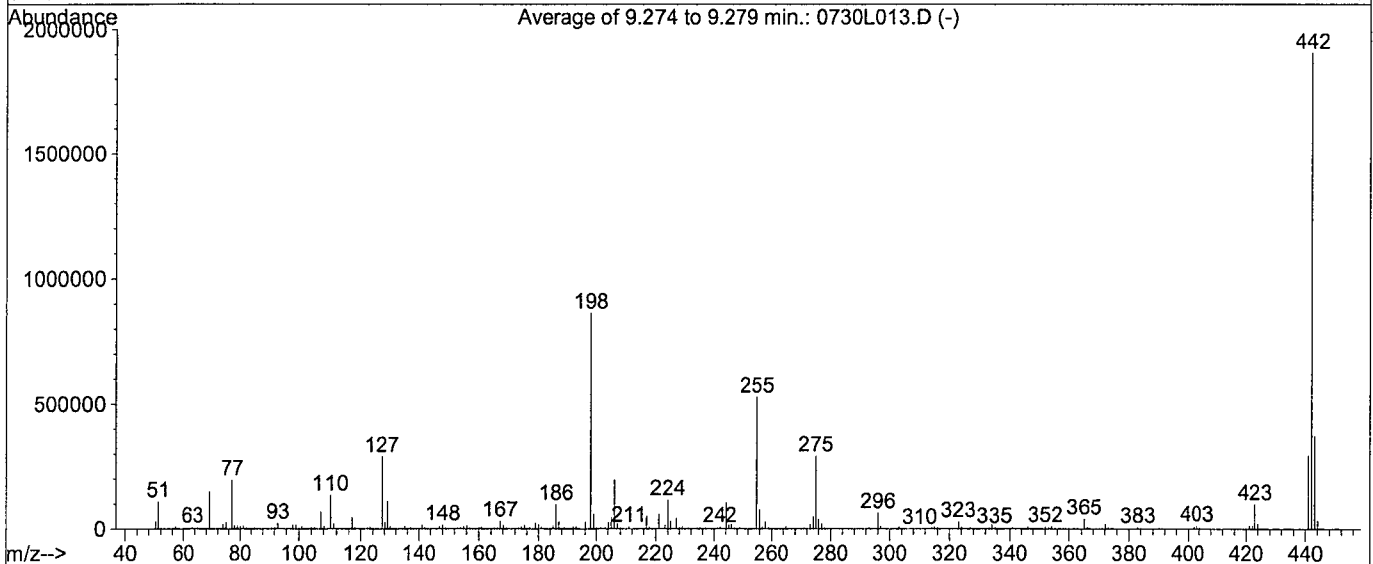
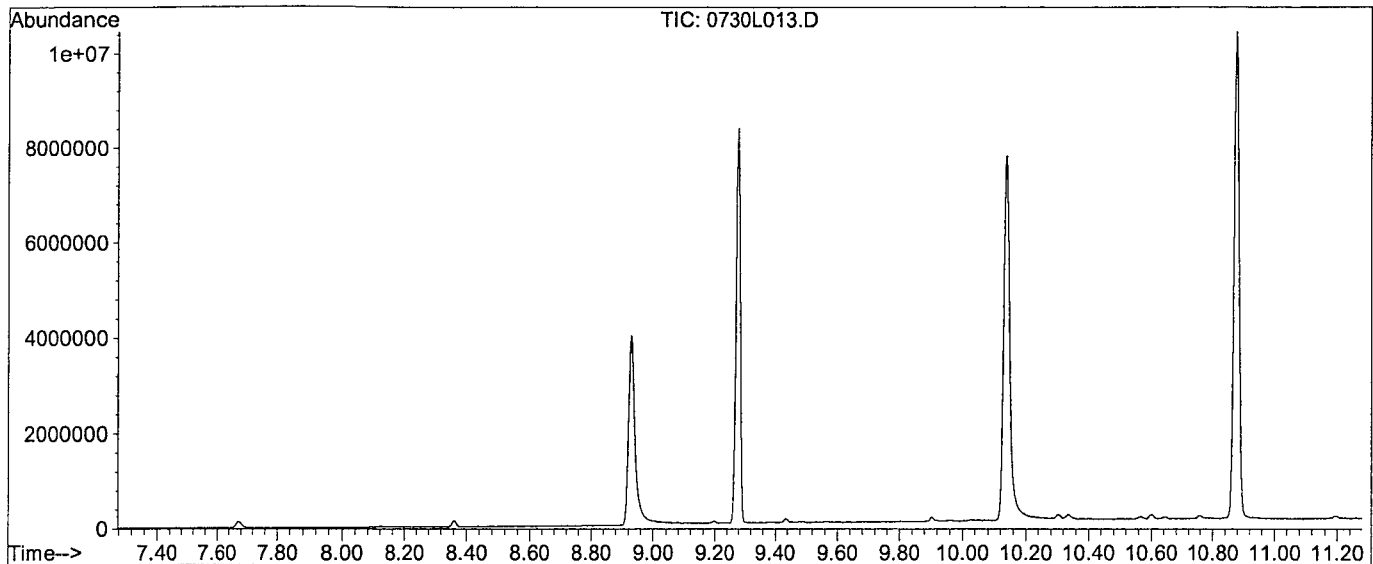
response 33452488

Ion	Exp%	Act%
184.00	100	100
92.00	7.10	6.06
185.00	13.60	13.12
0.00	0.00	0.00

Data File : M:\LINUS\DATA\L190730M\0730L013.D
 Acq On : 30 Jul 19 16:20
 Sample : SV TUNE 07/11/19
 Misc :

Vial: 13
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C



AutoFind: Scans 1281, 1282, 1283; Background Corrected with Scan 1269

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	12.7	109565	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.3	505	PASS
127	198	10	80	33.4	288213	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	862080	PASS
199	198	5	9	6.7	57741	PASS
275	198	10	60	33.7	290475	PASS
365	198	1	100	4.5	38936	PASS
441	442	0.01	24	15.4	293227	PASS
442	198	50	500	221.2	1906517	PASS
443	442	15	24	19.5	372139	PASS

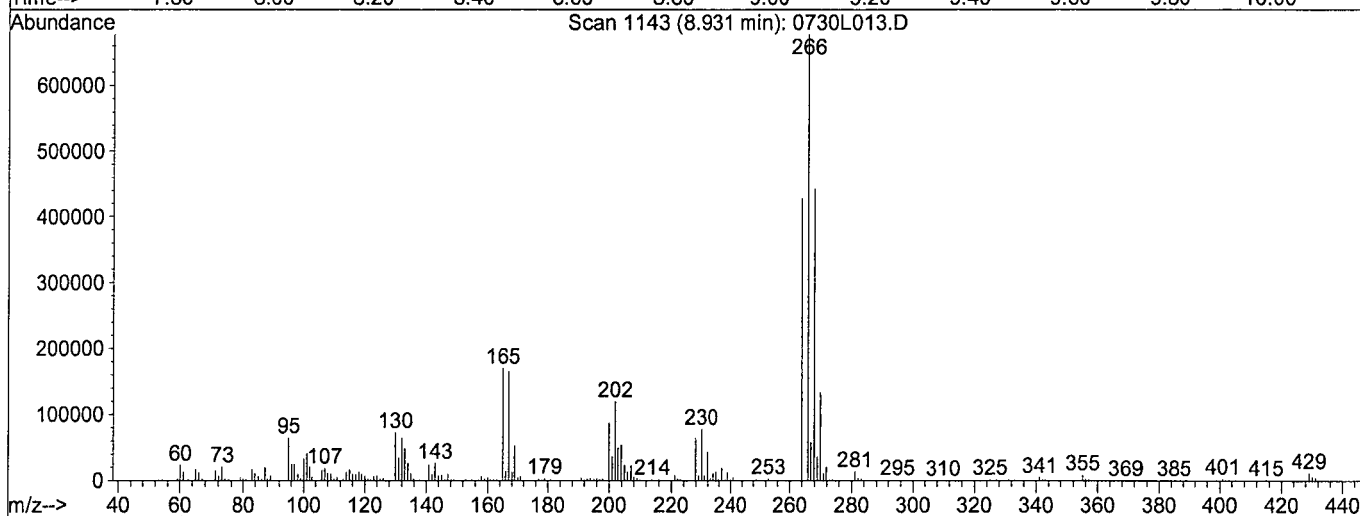
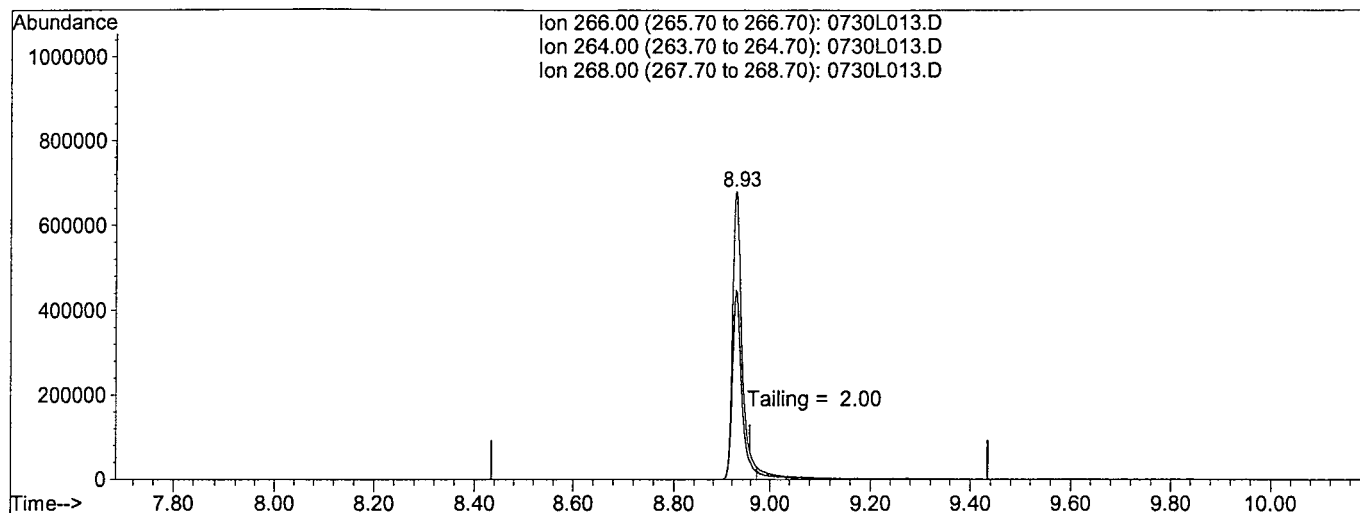
Data File Name: 0730L013.D
Data File Path: M:\LINUS\DATA\190730M\
Operator: MA
Date Acquired: 30 Jul 2019 16:20
Method File: DFTPP2.M
Sample Name: SV TUNE 07/11/19
Vial Number: 13
Instrument Name: Linus

#	Name	Ret Time	Target Response
1)	DDT	10.91	114799000
2)	DDD	10.60	1016340
3)	DDE	10.64	0

Breakdown 0.88

Data File : M:\LINUS\DATA\L190730M\0730L013.D Vial: 13
 Acq On : 30 Jul 19 16:20 Operator: MA
 Sample : SV TUNE 07/11/19 Inst : Linus
 Misc : Multiplr: 1.00
 Quant Time: Jul 30 16:34 2019 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 26 10:43:15 2019
 Response via : Single Level Calibration



TIC: 0730L013.D

(5) Pentachlorophenol

8.93min 0.0000

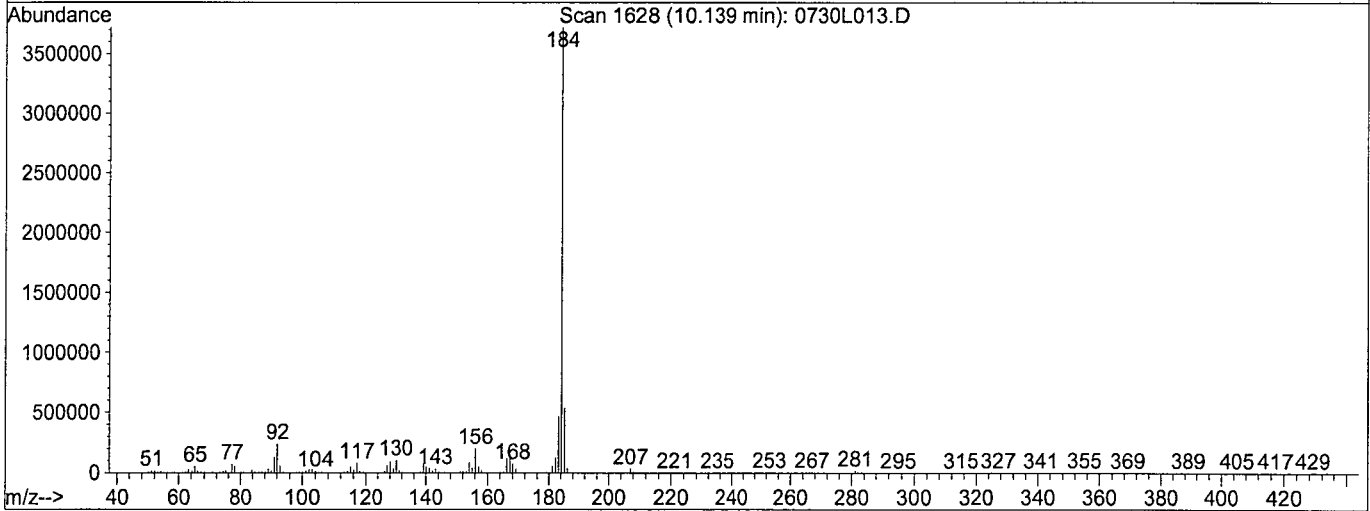
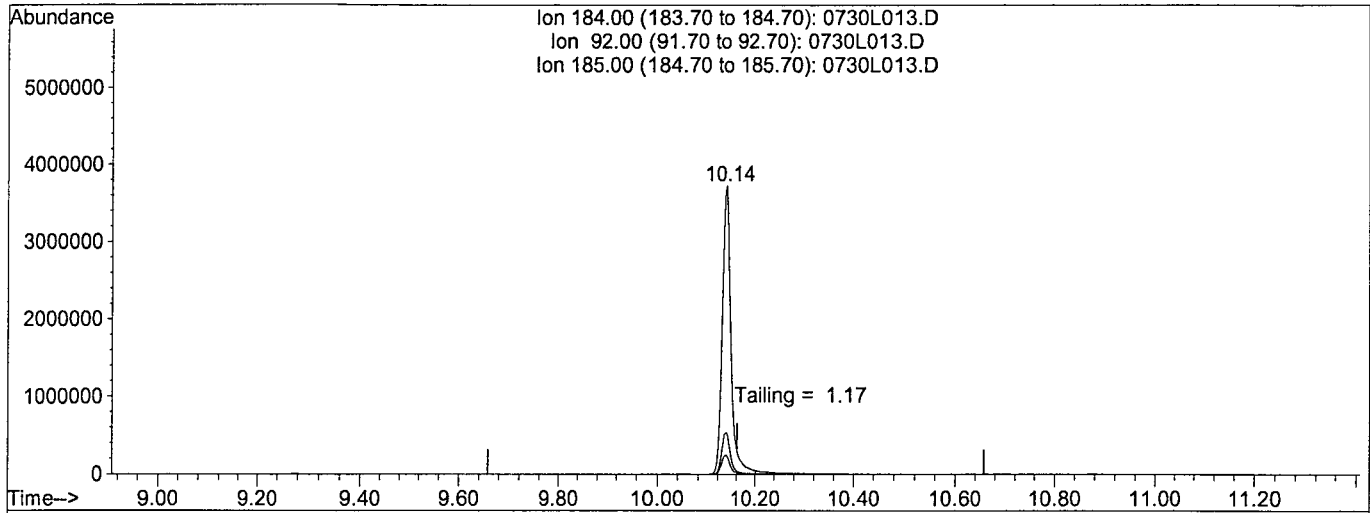
response 9991117

Ion	Exp%	Act%
266.00	100	100
264.00	68.30	62.05
268.00	65.70	59.94
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L013.D Vial: 13
 Acq On : 30 Jul 19 16:20 Operator: MA
 Sample : SV TUNE 07/11/19 Inst : Linus
 Misc : Multiplr: 1.00
 Quant Time: Jul 30 16:34 2019 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 26 10:43:15 2019
 Response via : Single Level Calibration



TIC: 0730L013.D

(6) Benzidine

10.14min 0.0000

response 48859585

Ion	Exp%	Act%
184.00	100	100
92.00	7.10	6.39
185.00	13.60	14.81
0.00	0.00	0.00

Organic Extraction Worksheet

Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	190726A	Extraction Method	MWE2MEE	Units	mL
Spiked ID 1	Diethylene Glycol 1-31-19 EXP 1-31-20	Surrogate ID 1					
Spiked ID 2	2MEE SS 10320ug/mL 8-3-18 exp 8-3-19	Surrogate ID 2					
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:					
Spiked ID 7		Ext. Start Time:	07/26/19 8:45				
Spiked ID 8		Ext. End Time:	07/26/19 15:05				
				GC Requires Extract By:			
				pH1		Water Bath Temp 1 °C	
				pH2		Water Bath Temp 2 °C	
				pH3		Water Bath Temp 3 °C	

Spiked By: DL

Date 07/26/19

Witnessed By: CFM

Date 07/26/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1 190726A Blk				NA	NA	500	2	7	07/26/19 8:45	
					equip					
2 190726A LCS-1		0.040	1	NA	NA	500	2	7	07/26/19 8:45	
					equip					
3 190726A LCSD-1		0.040	1	NA	NA	500	2	7	07/26/19 8:45	
					equip					
4 AZ95187	AZ95187W10			NA	NA	500	2	7	07/26/19 8:45	89570
					equip					
5 AZ95189 MS-1	AZ95189W36	0.040	1	NA	NA	500	2	7	07/26/19 8:45	
					equip					
6 AZ95189 MSD-1	AZ95189W18	0.040	1	NA	NA	500	2	7	07/26/19 8:45	
					equip					
7 AZ95189	AZ95189W35			NA	NA	500	2	7	07/26/19 8:45	89570
					equip					
8 AZ95190	AZ95190W06			NA	NA	500	2	7	07/26/19 8:45	89570
					equip					
9 AZ95329	AZ95329W11			NA	NA	500	2	7	07/26/19 8:45	89593
					equip					
10 AZ95330	AZ95330W10			NA	NA	500	2	7	07/26/19 8:45	89593
					equip					
11 AZ95332	AZ95332W11			NA	NA	500	2	7	07/26/19 8:45	89593
					equip					
12 AZ95334	AZ95334W10			NA	NA	500	2	7	07/26/19 8:45	89593
					equip					
13 AZ95336	AZ95336W10			NA	NA	500	2	7	07/26/19 8:45	89593
					equip					
14 AZ95338	AZ95338W11			NA	NA	500	2	7	07/26/19 8:45	89593
					equip					
15 AZ95419	AZ95419W15			NA	NA	500	2	7	07/26/19 11:20	89607
					equip					
16 AZ95421	AZ95421W15			NA	NA	500	2	7	07/26/19 11:20	89607
					equip					

Solvent and Lot#	
ENVI-Carb Plus 400MG/1ML *	
Reverible Tube Lot:	11225702
PH Strip	HC863463
Di Water	7/26/19
Dichloromethane	58240
Methanol	59129

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	JP
Date	7/29/19
Time	11:40
Refrigerator	Hobart

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	07/26/19 4:38:03 PM

Reviewed By: Date
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 Ext_ID 63667

Organic Extraction Worksheet

Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	190726A	Extraction Method	MWE2MEE	Units	mL
Spiked ID 1	Diethylene Glycol 1-31-19 EXP 1-31-20	Surrogate ID 1					
Spiked ID 2	2MEE SS 10320ug/mL 8-3-18 exp 8-3-19	Surrogate ID 2					
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:					
Spiked ID 7		Ext. Start Time:	07/26/19 8:45				
Spiked ID 8		Ext. End Time:	07/26/19 15:05				
		GC Requires Extract By:					
		pH1			Water Bath Temp 1 °C		
		pH2			Water Bath Temp 2 °C		
		pH3			Water Bath Temp 3 °C		

Spiked By: DL

Date 07/26/19

Witnessed By: CFM

Date 07/26/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
17 AZ95423	AZ95423W15			NA	NA	500	2	7	07/26/19 11:20	89607
					equip					
18 SS		0.097	2	NA	NA	500	2	7	07/26/19 8:45	
					equip					

Solvent and Lot#	
ENVI-Carb Plus 400MG/1ML *	
Reverible Tube Lot:	11225702
PH Strip	HC863463
Di Water	7/26/19
Dichloromethane	58240
Methanol	59129

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	
Date	
Time	
Refrigerator	

	Technician's Initials
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	07/26/19 4:38:03 PM

Reviewed By: Date
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Ext_ID 63667

Name of Final Standard Diethylene Glycol
 Prep Date 01/31/19
 Exp Date 01/31/20

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc. (range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent +/- Lot# (or APPL Prep Date)	Final Standard Conc. (range)
Diethylene glycol methyl ether	AccuStandard	S-72273	2000 ug/mL	218101558-39888 39889	01/31/20	2.0 mL	4 mL	Methanol #042317C	1000 ug/mL

Given to Extraction to do MEE M STD Stock (used for ICAL) Final concentration 2000ug/L

Name of Final Standard 2MEE Second Source Stock
 Prep Date 08/03/18
 Exp Date 08/03/19

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Methoxyethanol-Neat	Chem Service	N-12404-1G	Neat 99.5%	7079100 - 39417	08/03/19	0.1035g	10 mL	MC #56258	10320 ug/mL

Given to Extraction to do MEE SS (used for ICAL SS)

0.097ml were spiked in 500ml of water and extracted on 04/29/19 . Final concentration is 2000ug/L

Organic Extraction Worksheet

Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	190429A	Extraction Method	MWE2MEE	Units	mL
Spiked ID 1	Diethylene Glycol 1-31-19 EXP 1-31-20	Surrogate ID 1		Surrogate ID 1			
Spiked ID 2	2MEE SS 10320ug/mL 8-3-18 exp 8-3-19	Surrogate ID 2		Surrogate ID 2			
Spiked ID 3		Surrogate ID 3		Surrogate ID 3			
Spiked ID 4		Surrogate ID 4		Surrogate ID 4			
Spiked ID 5		Surrogate ID 5		Surrogate ID 5			
Spiked ID 6		Sufficient Vol for Matrix QC:		YES			
Spiked ID 7		Ext. Start Time:	04/29/19 10:50				
Spiked ID 8		Ext. End Time:	04/29/19 16:40				

M STD AND SS PREPARATION
HA 5/1/19

GC Requires Extract By:	04/30/19 0:00
pH1	Water Bath Temp Criteria
pH2	
pH3	

Spiked By: KY

Date 04/29/19

Witnessed By: DL

Date 04/29/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1 190429A Bk				NA	NA	500	2	7	04/29/19 10:50	
2 190429A LCS-1		0.040	1	NA	NA	500	2	7	04/29/19 10:50	
3 190429A LCSD-1		0.040	1	NA	NA	500	2	7	04/29/19 10:50	
4 AZ89958 MS-1	AZ89958W23	0.040	1	NA	NA	510	2	7	04/29/19 10:50	88687
5 AZ89958 MSD-1	AZ89958W22	0.040	1	NA	NA	510	2	7	04/29/19 10:50	88687
6 AZ89958	AZ89958W24			NA	NA	500	2	7	04/29/19 10:50	88687
7 AZ89959	AZ89959W06			NA	NA	480	2	7	04/29/19 10:50	88687
8 AZ89961	AZ89961W22			NA	NA	510	2	7	04/29/19 10:50	88687
9 AZ90051 MS-1	AZ90051W21	0.040	1	NA	NA	500	2	7	04/29/19 10:50	88701
10 AZ90051 MSD-1	AZ90051W25	0.040	1	NA	NA	500	2	7	04/29/19 10:50	88701
11 AZ90051	AZ90051W22			NA	NA	500	2	7	04/29/19 10:50	88701
12 AZ90052	AZ90052W05			NA	NA	505	2	7	04/29/19 10:50	88701
13 AZ90054	AZ90054W16			NA	NA	510	2	7	04/29/19 10:50	88701
14 AZ90056	AZ90056W16			NA	NA	510	2	7	04/29/19 10:50	88701
15 AZ90058	AZ90058W17			NA	NA	500	2	7	04/29/19 10:50	88701
16 AZ90060	AZ90060W17			NA	NA	505	2	7	04/29/19 10:50	88701

Solvent and Lot#	
ENVI-Carb Plus 400MG/1ML	
Reverible Tube Lot:	11225702
PH Strip	HC 863463
Di Water	4-29-19
Dichloromethane	58240
Methanol	58179

Extraction COC Transfer	
Extraction lab employee Initials	KY
GC analyst's initials	
Date	
Time	
Refrigerator	

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	04/29/19 2:46:49 PM

Reviewed By:

Date
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Ext_ID 62632

Organic Extraction Worksheet











Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	190429A	Extraction Method	MWE2MEE	Units	mL
Spiked ID 1	Diethylene Glycol 1-31-19 EXP 1-31-20	Surrogate ID 1					
Spiked ID 2	2MEE SS 10320ug/mL 8-3-18 exp 8-3-19	Surrogate ID 2					
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:		YES			
Spiked ID 7		Ext. Start Time:		04/29/19 10:50			
Spiked ID 8		Ext. End Time:		04/29/19 16:40			
		GC Requires Extract By:		04/30/19 0:00			
		pH1		Water Bath Temp Criteria			
		pH2					
		pH3					

Spiked By: KY

Date 04/29/19

Witnessed By: DL

Date 04/29/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
17	AZ90100 	AZ90100W17		NA	NA	510	2	7	04/29/19 10:50	88714
										equip
18	AZ90102 	AZ90102W16		NA	NA	395	2	7	04/29/19 10:50	88714
										equip
19	AZ90103 	AZ90103W04		NA	NA	250	2	7	04/29/19 10:50	88714
										equip
20	AZ90105 	AZ90105W16		NA	NA	500	2	7	04/29/19 10:50	88714
										equip
21	AZ90107 	AZ90107W16		NA	NA	510	2	7	04/29/19 10:50	88714
										equip
22	AZ90109 	AZ90109W17		NA	NA	505	2	7	04/29/19 10:50	88714
										equip
23	AZ90213 	AZ90213W15		NA	NA	505	2	7	04/29/19 10:50	88736
										equip
24	AZ90215 	AZ90215W16		NA	NA	500	2	7	04/29/19 10:50	88736
										equip
25	M STD 		1	1	NA	NA	500	2	7	04/29/19 10:50
										equip
26	SS 		0.097	2	NA	NA	500	2	7	04/29/19 10:50
										equip

Solvent and Lot#	
ENVI-Carb Plus 400MG/1ML	
Reverible Tube Lot:	11225702
PH Strip	HC 863463
Di Water	4-29-19
Dichloromethane	58240
Methanol	58179

Extraction COC Transfer	
Extraction lab employee Initials	KY
GC analyst's initials	
Date	
Time	
Refrigerator	

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	04/29/19 2:46:49 PM

Reviewed By: Date
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 Ext_ID 62632

Name of Final Standard MEE Curve
 Prep Date 04/30/19
 Exp Date 10/30/19

Prep'd By (Initials) SS

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	5 uL	200uL	Methanol: 195uL Lot# 208858	50 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	4 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	5 uL	100uL	Methanol: 95uL Lot# 208858	100 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	10 uL	100uL	Methanol: 90uL Lot# 208858	200 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	20 uL	100uL	Methanol: 80 uL Lot# 208858	400 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	50 uL	200 uL	Methanol: 150 uL	500 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	4 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	30 uL	100uL	Methanol: 70 uL Lot# 208858	600 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	40 uL	100uL	Methanol: 60 uL Lot# 208858	800 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	50 uL	100uL	Methanol: 50uL Lot# 208858	1000 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			

Name of Final Standard MEE Second Source
 Prep Date 04/30/19
 Exp Date 08/03/19

Prep'd By (Initials) SS

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
MEE SS	APPL		2000 ug/mL	04/29/19	08/03/19	50 uL	200uL	Methanol: 150uL Lot# 208858	500 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	4 uL			

Injection Log

Directory: M:\LINUS\DATA\L190730M\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
13	0730L002.D	1	SV TUNE 7/11/19		30 Jul 19 9:38
3	0730L003.D	1	500ug/ml MEE 04/30/19		30 Jul 19 11:54
4	0730L004.D	1	50ug/ml MEE 04/30/19		30 Jul 19 12:18
5	0730L005.D	1	100ug/ml MEE 04/30/19		30 Jul 19 13:17
6	0730L006.D	1	200ug/ml MEE 04/30/19		30 Jul 19 13:41
7	0730L007.D	1	400ug/ml MEE 04/30/19		30 Jul 19 14:04
8	0730L008.D	1	600ug/ml MEE 04/30/19		30 Jul 19 14:27
9	0730L009.D	1	800ug/ml MEE 04/30/19		30 Jul 19 14:51
10	0730L010.D	1	1000ug/ml MEE 04/30/19		30 Jul 19 15:13
11	0730L011.D	1	SS MEE 04/30/19		30 Jul 19 15:37
13	0730L013.D	1	SV TUNE 07/11/19		30 Jul 19 16:20
14	0730L014.D	1	190726A BLK 2/500		30 Jul 19 16:45
15	0730L015.D	1	190726A LCS-1 2/500		30 Jul 19 17:09
16	0730L016.D	1	190726A LCSD-1 2/500		30 Jul 19 17:32
28	0730L028.D	1	AZ95419W15 2/500		30 Jul 19 22:10
29	0730L029.D	1	AZ95421W15 2/500		30 Jul 19 22:33
30	0730L030.D	1	AZ95423W15 2/500		30 Jul 19 22:56
31	0730L031.D	1	500ug/ml MEE 04/30/19		30 Jul 19 23:19

ORGANICS
Calibration Data

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Initial Cal. Date: 07/26/19

Matrix: _____

Instrument: Thor

Initials: DP/LP

0726T04.D 0726T05.D 0726T06.D 0726T07.D 0726T08.D 0726T09.D 0726T10.D 0726T12.D

	Compound	1	2	3	4	5	6	7	9			Avg	%RSD	Type	r ²	Q	MRF
1	I Fluorobenzene (IS)																
2	TM Chlorotrifluoroethene		0.1044	0.1079	0.0918	0.0746	0.0901	0.1009	0.0898			0.09	12	TM			
3	TML Dichlorodifluoromethane		0.0813	0.1955	0.0686	0.0788	0.0669	0.0749	0.0699			0.09	51	TML	1.000		
4	TM Freon 114		0.1962	0.1954	0.1613	0.1580	0.1546	0.1805	0.1676			0.17	10	TM			
5	TM**L Chloromethane		0.9522	0.7748	0.5292	0.5359	0.3849	0.3882	0.3494			0.56	40	TM**L	1.000		
6	TM* Vinyl chloride		0.2208	0.2391	0.2200	0.2361	0.2013	0.2054	0.2061			0.22	6.9	TM*			
7	TM 2-Chloro-1,1,1-trifluoroethane		0.0351	0.0346	0.0309	0.0233	0.0298	0.0334	0.0294			0.03	13	TM			
8	TML Bromomethane		0.1671	0.1294	0.0802	0.0832	0.0635	0.0663				0.10	42	TML	0.991		
9	TML Chloroethane		0.2550	0.1548	0.1684	0.1420	0.1236	0.1160				0.16	32	TML	0.994		
10	TM Dichlorofluoromethane		0.3466	0.3292	0.2785	0.2997	0.2710	0.2942	0.2750			0.30	9.6	TM			
11	TM Trichlorofluoromethane		0.3474	0.3438	0.3027	0.3409	0.2694	0.3059	0.2871			0.31	9.8	TM			
12	TM Diethyl ether													TM			
13	TM Acrolein		0.0112	0.0095	0.0101	0.0109	0.0108	0.0136				0.01	13	TM			
14	TML Acetone				0.1150	0.1228	0.0744	0.0778	0.0671			0.09	28	TML	0.999		
15	TML Freon-113		0.1348	0.1182	0.0811	0.0868	0.0800	0.0834	0.0822			0.10	23	TML	1.00		
16	TM* 1,1-DCE		0.3031	0.2981	0.2519	0.2618	0.2395	0.2615	0.2473			0.27	9.3	TM*			
17	TML 2-Propanol		0.0218	0.0182	0.0135	0.0115	0.0125	0.0142	0.0144			0.02	24	TML	0.990		
18	TML Acetonitrile		0.0416	0.0322	0.0318	0.0273	0.0288	0.0307				0.03	16	TML	0.990		
19	TM t-Butanol	0.0130	0.0126	0.0121	0.0108	0.0112	0.0102	0.0106	0.0108			0.01	8.9	TM			
20	TM Methyl Acetate		0.1793	0.1930	0.1770	0.1737	0.1609	0.1603	0.1568			0.17	7.6	TM			
21	TML Iodomethane		0.0832	0.0494	0.0424	0.0374	0.0370	0.0416	0.0451			0.05	34	TML	0.999		
22	TM Acrylonitrile		0.0733	0.0722	0.0700	0.0668	0.0642	0.0669	0.0629			0.07	5.8	TM			
23	TML Methylene chloride		0.3559	0.2332	0.2048	0.2161	0.1921	0.2024	0.1944			0.23	25	TML	1.000		
24	TM Carbon disulfide		0.4703	0.4800	0.3722	0.3822	0.3755	0.4193	0.4082			0.42	11	TM			
25	TM Methyl t-butyl ether (MtBE)		0.5883	0.5644	0.4816	0.5019	0.4520	0.4953	0.5016			0.51	9.3	TM			
26	TML Trans-1,2-DCE		0.1119	0.2163	0.1730	0.1864	0.1705	0.1877	0.1807			0.18	18	TML	1.000		
27	TM Hexane													TM			
28	TM Diisopropyl Ether		0.2216	0.2099	0.1906	0.1895	0.1808	0.1942	0.1901			0.20	7.1	TM			
29	TM** 2,2-Dichloro-1,1,1-trifluoroethane													TM**			
30	TM** 1,1-DCA		0.4123	0.3803	0.3287	0.3426	0.3069	0.3396	0.3209			0.35	11	TM**			
31	TM Vinyl Acetate		0.1426	0.1620	0.1429	0.1412	0.1328	0.1470	0.1438			0.14	6.1	TM			
32	TM Ethyl tert Butyl Ether		0.3372	0.3627	0.3472	0.3571	0.3401	0.3984	0.4376			0.37	9.9	TM			
33	TML MEK (2-Butanone)		0.0530	0.0417	0.0259	0.0376	0.0324	0.0351	0.0336			0.04	23	TML	1.000		
34	TML Cis-1,2-DCE		0.1998	0.3356	0.3670	0.3334	0.2886	0.3162	0.2954			0.31	18	TML	1.000		
35	TML 2,2-Dichloropropane		0.1193	0.1393	0.1000	0.0965	0.0895	0.0921	0.0902			0.10	18	TML	1.00		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. _____
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/26/19 _____
Instrument: Thor _____

Initials: DP

		Compound	1	2	3	4	5	6	7	9			Avg	%RSD	Type		Q	MRF
36	TM	2-Methylpentane													TM			
37	TM	3-Methylpentane													TM			
38	TM*	Chloroform		0.3974	0.4210	0.3508	0.3689	0.3232	0.3599	0.3442			0.37	9.0	TM*			
39	TML	Bromochloromethane		0.0739	0.1581	0.1194	0.1229	0.0985	0.1178	0.1051			0.11	23	TML	0.999		
40	S	Dibromofluoromethane(S)	0.4766	0.4836	0.6024	0.5738	0.6171	0.4740	0.5183	0.4828			0.53	11	S			
41	TML	1,1,1-TCA		0.1749	0.1446	0.1192	0.1302	0.1177	0.1241	0.1199			0.13	16	TML	1.000		
42	TML	Cyclohexane		0.2124	0.1219	0.1393	0.1430	0.1229	0.1301	0.1241			0.14	23	TML	1.000		
43	TM	1,1-Dichloropropene		0.3204	0.2652	0.2315	0.2431	0.2156	0.2461	0.2400			0.25	13	TM			
44	TML	2,2,4-Trimethylpentane		0.2515	0.1649	0.1550	0.1480	0.1475	0.1617	0.1600			0.17	22	TML	1.000		
45	S	1,2-DCA-D4(S)	0.5363	0.5804	0.6641	0.6617	0.7139	0.5436	0.5803	0.5435			0.60	11	S			
46	TML	Carbon Tetrachloride		0.1465	0.2024	0.1806	0.2055	0.2043	0.2337	0.2638			0.21	18	TML	0.999		
47	TM	Tert Amyl Methyl Ether		0.3727	0.3200	0.3162	0.3309	0.3084	0.3637	0.4103			0.35	11	TM			
48	TM	Methylcyclopentane													TM			
49	TM	1,2-DCA		0.3441	0.3250	0.2946	0.3044	0.2727	0.2985	0.2806			0.30	8.2	TM			
50	TM	Benzene		0.7889	0.7982	0.7201	0.7565	0.7019	0.7638	0.7253			0.75	4.8	TM			
51	TM	TCE		0.2189	0.2377	0.1761	0.2020	0.1909	0.2117	0.1990			0.21	9.7	TM			
52	TM	2-Pentanone		0.1643	0.1579	0.1459	0.1416	0.1396	0.1503	0.1339			0.15	7.2	TM			
53	TM*L	1,2-Dichloropropane		0.1407	0.1081	0.0821	0.0935	0.0935	0.1028	0.0971			0.10	18	TM*L	1.000		
54	TM	Bromodichloromethane		0.1798	0.1532	0.1385	0.1491	0.1300	0.1532	0.1473			0.15	10	TM			
55	TML	Methyl Cyclohexane		0.3457	0.2596	0.2274	0.2418	0.2163	0.2524	0.2433			0.26	17	TML	1.000		
56	TM	Dibromomethane		0.1331	0.1739	0.1215	0.1373	0.1354	0.1476	0.1387			0.14	12	TM			
57	TML	MIBK (methyl isobutyl ketone)		0.1125	0.0693	0.0736	0.0878	0.0736	0.0797	0.0805			0.08	18	TML	1.000		
58	TM	1-Bromo-2-chloroethane		0.2924	0.2554	0.2430	0.2502	0.2339	0.2504	0.2415			0.25	7.5	TM			
59	TML	2-Chloroethyl vinyl ether		0.0016	0.0019	0.0015	0.0033	0.0029	0.0036	0.0031			0.00	34	TML	0.999		
60	TM	Cis-1,3-Dichloropropene		0.1579	0.2233	0.1607	0.1588	0.1523	0.1813	0.1877			0.17	14	TM			
61	TM*	Toluene		0.8893	0.9113	0.7961	0.7896	0.7726	0.8366	0.7797			0.83	6.7	TM*			
62	TM	Trans-1,3-Dichloropropene		0.3116	0.2612	0.2609	0.2543	0.2448	0.2760	0.2869			0.27	8.4	TM			
63	TM	1,1,2-TCA		0.1923	0.1680	0.1411	0.1551	0.1448	0.1607	0.1578			0.16	11	TM			
64	TM	2-Hexanone		0.0487	0.0566	0.0347	0.0439	0.0415	0.0474	0.0487			0.05	15	TM			
65	I	Chlorobenzene-D5 (IS)																
66	S	Toluene-D8(S)	1.810	1.748	2.139	2.007	2.137	1.669	1.834	1.732			1.9	9.8	S			
67	TM	1,2-EDB		0.2309	0.2119	0.1898	0.2069	0.2016	0.2172	0.2195			0.21	6.3	TM			
68	TM	Tetrachloroethene		0.2292	0.2883	0.2198	0.2558	0.2211	0.2592	0.2507			0.25	10	TM			
69	TM	1-Chlorohexane		0.2291	0.2091	0.1734	0.1772	0.1673	0.1931	0.1926			0.19	11	TM			
70	TM	1,1,1,2-Tetrachloroethane		0.1485	0.1358	0.1119	0.1269	0.1219	0.1421	0.1481			0.13	10	TM			

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. _____
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/26/19 _____
Instrument: Thor _____

Initials: DP

		Compound	1	2	3	4	5	6	7	9			Avg	%RSD	Type		Q	MRF
71	TM	m&p-Xylene		0.1955	0.2023	0.1819	0.1965	0.1877	0.2188	0.2269			0.20	8.1	TM			
72	TM	o-Xylene		0.3282	0.3212	0.3021	0.3299	0.3045	0.3512	0.3580			0.33	6.5	TM			
73	TM	Styrene		0.4543	0.4382	0.4099	0.4193	0.4324	0.5233	0.5938			0.47	14	TM			
74	S	4-Bromofluorobenzene(S)	0.6873	0.6595	0.7922	0.7541	0.8100	0.6396	0.7357	0.7425			0.73	8.4	S			
75	TM	1,3-Dichloropropane		0.2239	0.2123	0.1731	0.1975	0.1897	0.2108	0.2051			0.20	8.3	TM			
76	TM	Dibromochloromethane		0.1398	0.1454	0.1262	0.1378	0.1338	0.1564	0.1523			0.14	7.4	TM			
77	TM**	Chlorobenzene		0.6291	0.5817	0.5065	0.5673	0.5356	0.5833	0.5760			0.57	6.8	TM**			
78	TM*	Ethylbenzene		0.9844	0.9411	0.8325	0.8530	0.8100	0.9250	0.8955			0.89	7.1	TM*			
79	TM**L	Bromoform		0.0796	0.1646	0.0920	0.1132	0.1018	0.1307	0.1371			0.12	25	TM**L	0.999		
80	I	1,4-Dichlorobenzene-D (IS)																
81	TM	Isopropylbenzene		1.731	1.697	1.468	1.552	1.439	1.487	1.380			1.5	8.6	TM			
82	TM**	1,1,2,2-Tetrachloroethane		0.5635	0.5208	0.4598	0.5101	0.4706	0.5064	0.4448			0.50	8.2	TM**			
83	TM	1,2,3-Trichloropropane		0.2148	0.2037	0.1960	0.1804	0.1565	0.1657	0.1446			0.18	14	TM			
84	TML	t-1,4-Dichloro-2-Butene		0.0292	0.0494	0.0686	0.0538	0.0596	0.0630	0.0629			0.06	24	TML	1.000		
85	TM	Bromobenzene		0.5395	0.5408	0.4783	0.5072	0.4738	0.4869	0.4491			0.50	6.9	TM			
86	TM	n-Propylbenzene		2.010	1.599	1.548	1.587	1.450	1.587	1.532			1.6	11	TM			
87	TM	4-Ethyltoluene		1.356	1.210	1.013	1.126	1.015	1.124	1.158			1.1	10	TM			
88	TML	2-Chlorotoluene		1.554	1.475	1.031	1.160	1.046	1.066	0.9929			1.2	19	TML	1.000		
89	TM	1,3,5-Trimethylbenzene		1.326	1.329	1.148	1.165	1.111	1.163	1.155			1.2	7.4	TM			
90	TM	4-Chlorotoluene		1.281	1.406	1.133	1.265	1.094	1.201	1.146			1.2	8.9	TM			
91	TM	Tert-Butylbenzene		1.331	1.229	1.210	1.125	1.010	1.090	1.067			1.2	9.6	TM			
92	TM	1,2,4-Trimethylbenzene		1.555	1.362	1.154	1.196	1.051	1.112	1.092			1.2	15	TM			
93	TM	Sec-Butylbenzene		1.513	1.493	1.279	1.433	1.303	1.408	1.407			1.4	6.3	TM			
94	TM	p-Isopropyltoluene		1.420	1.488	1.215	1.247	1.121	1.155	1.172			1.3	11	TM			
95	TML	Benzyl Chloride		0.3797	0.2815	0.2348	0.2744	0.2347	0.2521	0.2421			0.27	19	TML	1.000		
96	TM	1,3-DCB		1.047	0.9562	0.8495	0.8079	0.7875	0.8644	0.7920			0.87	11	TM			
97	TM	1,4-DCB		1.047	0.9562	0.8302	0.8438	0.7852	0.8276	0.7879			0.87	11	TM			
98	TM	n-Butylbenzene		1.193	1.152	0.9207	0.9992	0.9106	0.9901	0.8935			1.0	12	TM			
99	TM	1,2-DCB		0.8468	0.7972	0.7822	0.8628	0.7645	0.8355	0.7837			0.81	4.6	TM			
100	TM	Hexachloroethane		0.1944	0.1695	0.1318	0.1667	0.1382	0.1437	0.1425			0.16	14	TM			
101	TML	1,2-Dibromo-3-chloropropane		0.1034	0.0070	0.1137	0.1100	0.1122	0.1261	0.1158			0.10	42	TML	1.000		
102	TM	1,2,4-Trichlorobenzene		0.2695	0.3527	0.2468	0.3214	0.3116	0.3560	0.3648			0.32	14	TM			
103	TML	Hexachlorobutadiene		0.1714	0.2912	0.2928	0.3043	0.2789	0.3058	0.2981			0.28	17	TML	1.000		
104	TM	Naphthalene		0.7315	0.6260	0.6239	0.6754	0.6124	0.7434	0.7985			0.69	10	TM			
105	TM	1,2,3-Trichlorobenzene		0.1152	0.1176	0.0784	0.1041	0.0940	0.0944	0.1020			0.10	13	TM			

Data File : M:\THOR\DATA\T190726\0726T04.D Vial: 4
 Acq On : 26 Jul 19 13:35 Operator:
 Sample : 0.3ug/L VOC STD 07/26/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 29 14:18 2019 Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	514880	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	482560	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	249664	25.0000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	49078	4.5084	ppb	0.00
Spiked Amount	25.000		Recovery	=	18.032%	
45) 1,2-DCA-D4(S)	5.05	65	55228	4.4473	ppb	0.00
Spiked Amount	25.000		Recovery	=	17.788%	
66) Toluene-D8(S)	7.32	98	174680	4.8022	ppb	0.00
Spiked Amount	25.000		Recovery	=	19.208%	
74) 4-Bromofluorobenzene(S)	9.98	95	66331	4.7228	ppb	0.00
Spiked Amount	25.000		Recovery	=	18.892%	
Target Compounds						
19) t-Butanol	2.49	59	2675	11.3923	ppb	Qvalue # 83

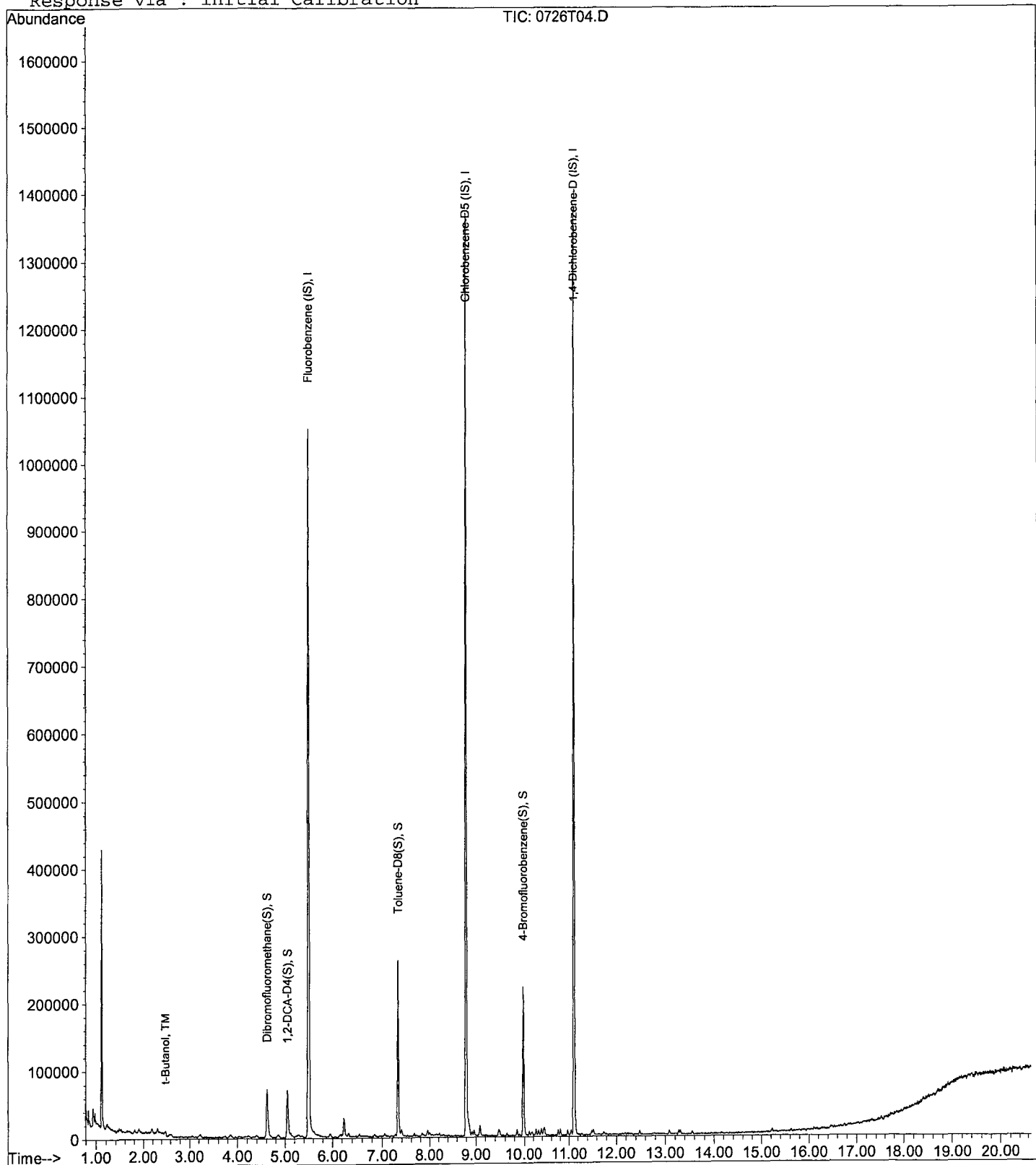
Data File : M:\THOR\DATA\T190726\0726T04.D
Acq On : 26 Jul 19 13:35
Sample : 0.3ug/L VOC STD 07/26/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 4
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 29 14:18 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0726T05.D
 Acq On : 26 Jul 19 14:03
 Sample : 0.5ug/L VOC STD 07/26/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 5
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 29 14:10 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.50	96	485632	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	475648	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	250048	25.0000	ppb	0.00

System Monitoring Compounds

40) Dibromofluoromethane(S)	4.62	111	46971	4.5747	ppb	0.00
Spiked Amount	25.000		Recovery	=	18.300%	
45) 1,2-DCA-D4 (S)	5.05	65	56371	4.8127	ppb	0.00
Spiked Amount	25.000		Recovery	=	19.252%	
66) Toluene-D8 (S)	7.32	98	166263	4.6372	ppb	0.00
Spiked Amount	25.000		Recovery	=	18.548%	
74) 4-Bromofluorobenzene (S)	9.98	95	62740	4.5320	ppb	0.00
Spiked Amount	25.000		Recovery	=	18.128%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chlorotrifluoroethene	0.85	116	10143	5.5416	ppb	98
4) Freon 114	0.95	85	1906	0.5659	ppb #	70
5) Chloromethane	0.98	50	9248	-0.1995	ppb	93
6) Vinyl chloride	1.05	62	2145	0.5056	ppb	90
7) 2-Chloro-1,1,1-trifluoroet	0.85	118	3408	5.6714	ppb #	100
8) Bromomethane	1.25	94	1623	0.4501	ppb #	66
9) Chloroethane	1.32	64	2477	0.5110	ppb #	73
10) Dichlorofluoromethane	1.47	67	3366	0.5792	ppb #	78
11) Trichlorofluoromethane	1.50	101	3374	0.5534	ppb	93
13) Acrolein	1.81	55	5447	25.4266	ppb	99
14) Acetone	1.94	43	5443	1.5485	ppb	97
15) Freon-113	1.90	101	1309	0.6350	ppb #	67
16) 1,1-DCE	1.89	61	2944	0.5694	ppb #	87
17) 2-Propanol	2.10	45	2122	8.9694	ppb	98
18) Acetonitrile	2.17	41	20208	25.5454	ppb	97
19) t-Butanol	2.49	59	6107	27.5748	ppb	95
20) Methyl Acetate	2.24	43	1741	0.5224	ppb #	78
21) Iodomethane	2.00	142	808	1.5103	ppb #	64
22) Acrylonitrile	2.57	52	712	0.5386	ppb #	42
23) Methylene chloride	2.30	84	3457	0.5801	ppb #	73
24) Carbon disulfide	2.04	76	4568	0.5661	ppb #	64
25) Methyl t-butyl ether (MtBE)	2.61	73	5714	0.5743	ppb #	79
26) Trans-1,2-DCE	2.59	96	1087	0.2791	ppb #	88
28) Diisopropyl Ether	3.23	45	2152	0.5633	ppb #	84
30) 1,1-DCA	3.05	63	4005	0.5936	ppb #	89
31) Vinyl Acetate	3.22	87	1385	0.4931	ppb #	81
32) Ethyl tert Butyl Ether	3.73	59	3275	0.4574	ppb #	56
33) MEK (2-Butanone)	3.98	43	515	0.5915	ppb #	47
35) 2,2-Dichloropropane	3.84	77	1159	0.3770	ppb #	28
38) Chloroform	4.40	83	3860	0.5422	ppb #	64
39) Bromochloromethane	4.22	128	718	-0.1608	ppb	81
41) 1,1,1-TCA	4.61	97	1699	0.5007	ppb	90
42) Cyclohexane	4.67	41	2063	0.4883	ppb	89
43) 1,1-Dichloropropene	4.85	75	3112	0.6365	ppb	95
44) 2,2,4-Trimethylpentane	5.29	57	2443	0.9054	ppb #	67
46) Carbon Tetrachloride	4.83	117	1423	1.3758	ppb #	87
47) Tert Amyl Methyl Ether	5.36	73	3620	0.5385	ppb #	84
49) 1,2-DCA	5.15	62	3342	0.5681	ppb #	89
50) Benzene	5.11	78	7662	0.5254	ppb	94

(#) = qualifier out of range (m) = manual integration

Data File : M:\THOR\DATA\T190726\0726T05.D
 Acq On : 26 Jul 19 14:03
 Sample : 0.5ug/L VOC STD 07/26/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 5
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 29 14:10 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) TCE	5.95	95	2126	0.5334	ppb	# 72
52) 2-Pentanone	6.23	43	79810	27.8239	ppb	96
53) 1,2-Dichloropropane	6.20	63	1367	0.6457	ppb	100
54) Bromodichloromethane	6.54	83	1746	0.5987	ppb	87
55) Methyl Cyclohexane	6.17	83	3358	0.7676	ppb	84
56) Dibromomethane	6.33	93	1293	0.4719	ppb	# 30
57) MIBK (methyl isobutyl ket	7.26	58	1093	0.8109	ppb	# 37
58) 1-Bromo-2-chloroethane	6.85	63	2840	0.5792	ppb	97
59) 2-Chloroethyl vinyl ether	6.84	107	47	0.7173	ppb	# 31
60) Cis-1,3-Dichloropropene	7.05	75	1534	0.4524	ppb	90
61) Toluene	7.39	91	8637	0.5389	ppb	95
62) Trans-1,3-Dichloropropene	7.66	75	3026	0.5752	ppb	91
63) 1,1,2-TCA	7.83	83	1868	0.6011	ppb	75
64) 2-Hexanone	8.15	58	473	0.5304	ppb	# 52
67) 1,2-EDB	8.30	107	2197	0.5469	ppb	# 62
68) Tetrachloroethene	7.96	164	2180	0.4652	ppb	91
69) 1-Chlorohexane	8.85	91	2179	0.5975	ppb	# 78
70) 1,1,1,2-Tetrachloroethane	8.92	131	1413	0.5558	ppb	92
71) m&p-Xylene	9.08	106	3720	0.9709	ppb	89
72) o-Xylene	9.47	106	3122	0.5005	ppb	81
73) Styrene	9.49	104	4322	0.4861	ppb	# 80
75) 1,3-Dichloropropane	8.00	76	2130	0.5548	ppb	94
76) Dibromochloromethane	8.22	129	1330	0.4935	ppb	# 24
77) Chlorobenzene	8.82	112	5985	0.5533	ppb	# 65
78) Ethylbenzene	8.96	91	9365	0.5520	ppb	98
79) Bromoform	9.63	173	757	1.1294	ppb	85
81) Isopropylbenzene	9.85	105	8655	0.5633	ppb	96
82) 1,1,2,2-Tetrachloroethane	10.15	83	2818	0.5674	ppb	83
83) 1,2,3-Trichloropropane	10.17	110	1074	0.5958	ppb	99
84) t-1,4-Dichloro-2-Butene	10.20	53	146	0.5057	ppb	98
85) Bromobenzene	10.10	156	2698	0.5433	ppb	86
86) n-Propylbenzene	10.26	91	10051	0.6218	ppb	96
87) 4-Ethyltoluene	10.37	105	6781	0.5930	ppb	94
88) 2-Chlorotoluene	10.31	91	7769	0.1723	ppb	95
89) 1,3,5-Trimethylbenzene	10.44	105	6629	0.5525	ppb	90
90) 4-Chlorotoluene	10.43	91	6408	0.5261	ppb	89
91) Tert-Butylbenzene	10.75	119	6658	0.5779	ppb	93
92) 1,2,4-Trimethylbenzene	10.80	105	7774	0.6385	ppb	95
93) Sec-Butylbenzene	10.97	105	7567	0.5384	ppb	# 84
94) p-Isopropyltoluene	11.12	119	7103	0.5637	ppb	93
95) Benzyl Chloride	11.29	91	1899	0.5236	ppb	# 85
96) 1,3-DCB	11.14	146	5237	0.6004	ppb	90
97) 1,4-DCB	11.14	146	5237	0.6030	ppb	89
98) n-Butylbenzene	11.53	91	5965	0.5914	ppb	95
99) 1,2-DCB	11.49	146	4235	0.5225	ppb	93
100) Hexachloroethane	11.74	117	972	0.6260	ppb	85
101) 1,2-Dibromo-3-chloropropan	12.26	157	517	0.4855	ppb	# 69
102) 1,2,4-Trichlorobenzene	13.08	182	1348	0.4244	ppb	# 74
103) Hexachlorobutadiene	13.27	225	857	0.3538	ppb	88
104) Naphthalene	13.31	128	3658	0.5321	ppb	92
105) 1,2,3-Trichlorobenzene	13.55	145	576	0.5712	ppb	# 66

(#) = qualifier out of range (m) = manual integration
 0726T05.D T0726W.M Mon Jul 29 14:18:23 2019

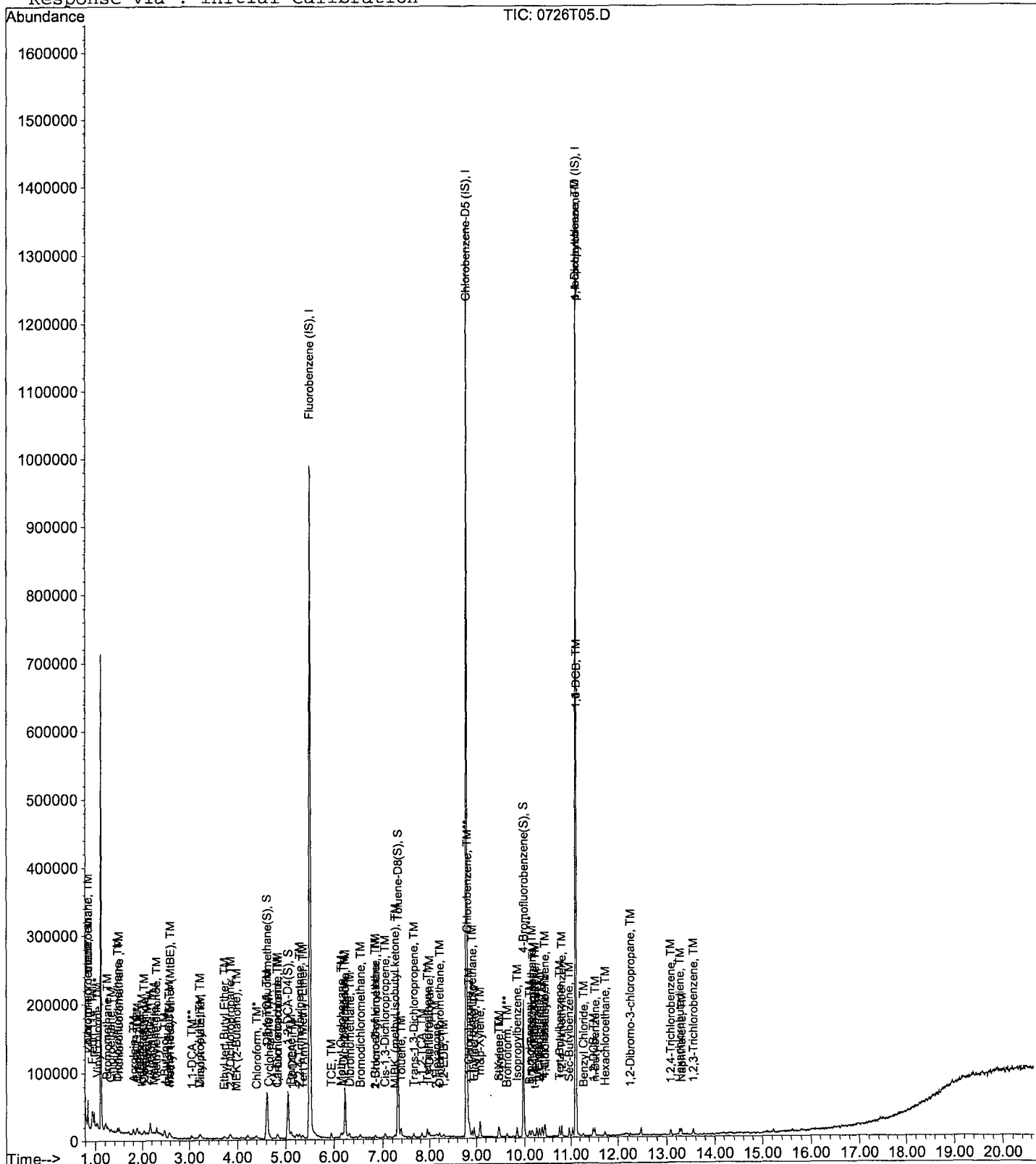
Data File : M:\THOR\DATA\T190726\0726T05.D
 Acq On : 26 Jul 19 14:03
 Sample : 0.5ug/L VOC STD 07/26/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 5
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 29 14:10 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0726T06.D
 Acq On : 26 Jul 19 14:31
 Sample : 1.0ug/L VOC STD 07/26/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 6
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 29 14:10 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	476864	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	470464	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	244032	25.0000	ppb	0.00

System Monitoring Compounds

40) Dibromofluoromethane(S)	4.62	111	114912	11.3975	ppb	0.00
Spiked Amount	25.000		Recovery	=	45.588%	
45) 1,2-DCA-D4(S)	5.05	65	126665	11.0130	ppb	0.00
Spiked Amount	25.000		Recovery	=	44.052%	
66) Toluene-D8(S)	7.32	98	402531	11.3506	ppb	0.00
Spiked Amount	25.000		Recovery	=	45.404%	
74) 4-Bromofluorobenzene(S)	9.98	95	149088	10.8881	ppb	0.00
Spiked Amount	25.000		Recovery	=	43.552%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chlorotrifluoroethene	0.85	116	20588	11.4549	ppb	98
3) Dichlorodifluoromethane	0.85	87	3729	2.2143	ppb #	61
4) Freon 114	0.95	85	3728	1.1272	ppb	96
5) Chloromethane	0.98	50	14779	0.6674	ppb	98
6) Vinyl chloride	1.05	62	4560	1.0945	ppb	91
7) 2-Chloro-1,1,1-trifluoroet	0.85	118	6594	11.1751	ppb #	100
8) Bromomethane	1.25	94	2468	1.1798	ppb #	64
9) Chloroethane	1.32	64	2953	0.7459	ppb #	65
10) Dichlorofluoromethane	1.47	67	6279	1.1004	ppb	98
11) Trichlorofluoromethane	1.50	101	6558	1.0954	ppb	90
13) Acrolein	1.81	55	9101	43.2645	ppb	100
14) Acetone	1.94	43	3063	-0.2817	ppb #	88
15) Freon-113	1.90	101	2255	1.2545	ppb	83
16) 1,1-DCE	1.88	61	5687	1.1201	ppb	95
17) 2-Propanol	2.10	45	3480	14.2019	ppb #	86
18) Acetonitrile	2.17	41	30734	47.6106	ppb	100
19) t-Butanol	2.49	59	11525	52.9954	ppb	96
20) Methyl Acetate	2.24	43	3682	1.1251	ppb #	82
21) Iodomethane	1.99	142	942	1.6828	ppb #	62
22) Acrylonitrile	2.56	52	1378	1.0617	ppb	93
23) Methylene chloride	2.31	84	4448	0.8649	ppb	89
24) Carbon disulfide	2.04	76	9155	1.1555	ppb	93
25) Methyl t-butyl ether (MtBE)	2.62	73	10766	1.1020	ppb #	88
26) Trans-1,2-DCE	2.58	96	4126	1.1660	ppb #	70
28) Diisopropyl Ether	3.21	45	4004	1.0673	ppb	93
30) 1,1-DCA	3.05	63	7254	1.0949	ppb	97
31) Vinyl Acetate	3.20	87	3091	1.1206	ppb #	70
32) Ethyl tert Butyl Ether	3.73	59	6919	0.9841	ppb #	84
33) MEK (2-Butanone)	3.96	43	796	1.0452	ppb #	58
34) Cis-1,2-DCE	3.86	61	6401	0.7736	ppb #	86
35) 2,2-Dichloropropane	3.83	77	2658	1.2627	ppb #	62
38) Chloroform	4.40	83	8031	1.1488	ppb	86
39) Bromochloromethane	4.21	128	3016	0.9950	ppb #	1
41) 1,1,1-TCA	4.60	97	2759	0.9785	ppb	94
42) Cyclohexane	4.66	41	2325	0.6150	ppb	75
43) 1,1-Dichloropropene	4.85	75	5058	1.0535	ppb	93
44) 2,2,4-Trimethylpentane	5.29	57	3146	1.1499	ppb #	63
46) Carbon Tetrachloride	4.83	117	3860	1.8615	ppb #	71
47) Tert Amyl Methyl Ether	5.36	73	6104	0.9248	ppb	97

(#) = qualifier out of range (m) = manual integration

Data File : M:\THOR\DATA\T190726\0726T06.D
 Acq On : 26 Jul 19 14:31
 Sample : 1.0ug/L VOC STD 07/26/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 6
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 29 14:10 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) 1,2-DCA	5.16	62	6200	1.0733	ppb	# 85
50) Benzene	5.11	78	15225	1.0633	ppb	# 93
51) TCE	5.95	95	4534	1.1585	ppb	85
52) 2-Pentanone	6.23	43	150613	53.4731	ppb	97
53) 1,2-Dichloropropane	6.20	63	2061	1.0334	ppb	# 100
54) Bromodichloromethane	6.55	83	2922	1.0203	ppb	# 92
55) Methyl Cyclohexane	6.16	83	4951	1.1234	ppb	75
56) Dibromomethane	6.32	93	3317	1.2327	ppb	# 29
57) MIBK (methyl isobutyl ket	7.26	58	1322	0.9727	ppb	# 38
58) 1-Bromo-2-chloroethane	6.85	63	4872	1.0119	ppb	96
59) 2-Chloroethyl vinyl ether	6.86	107	107	1.7325	ppb	# 1
60) Cis-1,3-Dichloropropene	7.05	75	4259	1.2790	ppb	# 81
61) Toluene	7.39	91	17383	1.1046	ppb	86
62) Trans-1,3-Dichloropropene	7.66	75	4982	0.9645	ppb	87
63) 1,1,2-TCA	7.83	83	3204	1.0500	ppb	92
64) 2-Hexanone	8.14	58	1079	1.2321	ppb	# 49
67) 1,2-EDB	8.30	107	3988	1.0038	ppb	91
68) Tetrachloroethene	7.96	164	5426	1.1707	ppb	# 85
69) 1-Chlorohexane	8.85	91	3935	1.0909	ppb	94
70) 1,1,1,2-Tetrachloroethane	8.92	131	2556	1.0165	ppb	84
71) m&p-Xylene	9.09	106	7613	2.0089	ppb	87
72) o-Xylene	9.47	106	6045	0.9798	ppb	97
73) Styrene	9.49	104	8247	0.9377	ppb	99
75) 1,3-Dichloropropane	8.00	76	3996	1.0524	ppb	# 76
76) Dibromochloromethane	8.21	129	2736	1.0263	ppb	83
77) Chlorobenzene	8.82	112	10947	1.0232	ppb	92
78) Ethylbenzene	8.96	91	17711	1.0555	ppb	93
79) Bromoform	9.64	173	3098	2.0343	ppb	81
81) Isopropylbenzene	9.85	105	16565	1.1046	ppb	97
82) 1,1,2,2-Tetrachloroethane	10.15	83	5084	1.0489	ppb	83
83) 1,2,3-Trichloropropane	10.17	110	1988	1.1300	ppb	80
84) t-1,4-Dichloro-2-Butene	10.21	53	482	1.0571	ppb	86
85) Bromobenzene	10.10	156	5279	1.0892	ppb	99
86) n-Propylbenzene	10.26	91	15604	0.9891	ppb	98
87) 4-Ethyltoluene	10.37	105	11815	1.0587	ppb	96
88) 2-Chlorotoluene	10.32	91	14402	0.8790	ppb	92
89) 1,3,5-Trimethylbenzene	10.44	105	12976	1.1081	ppb	100
90) 4-Chlorotoluene	10.43	91	13724	1.1545	ppb	# 72
91) Tert-Butylbenzene	10.75	119	11995	1.0669	ppb	86
92) 1,2,4-Trimethylbenzene	10.80	105	13293	1.1188	ppb	96
93) Sec-Butylbenzene	10.97	105	14576	1.0626	ppb	99
94) p-Isopropyltoluene	11.12	119	14524	1.1810	ppb	96
95) Benzyl Chloride	11.28	91	2748	0.9029	ppb	# 90
96) 1,3-DCB	11.05	146	9334	1.0964	ppb	97
97) 1,4-DCB	11.05	146	9334	1.1013	ppb	95
98) n-Butylbenzene	11.53	91	11246	1.1425	ppb	95
99) 1,2-DCB	11.49	146	7782	0.9837	ppb	92
100) Hexachloroethane	11.74	117	1655	1.0921	ppb	# 86
101) 1,2-Dibromo-3-chloropropan	12.25	157	68	0.1005	ppb	# 1
102) 1,2,4-Trichlorobenzene	13.08	182	3443	1.1107	ppb	89
103) Hexachlorobutadiene	13.28	225	2842	1.0423	ppb	# 54
104) Naphthalene	13.31	128	6111	0.9109	ppb	# 88
105) 1,2,3-Trichlorobenzene	13.55	145	1148	1.1665	ppb	# 73

(#) = qualifier out of range (m) = manual integration
 0726T06.D T0726W.M Mon Jul 29 14:18:28 2019

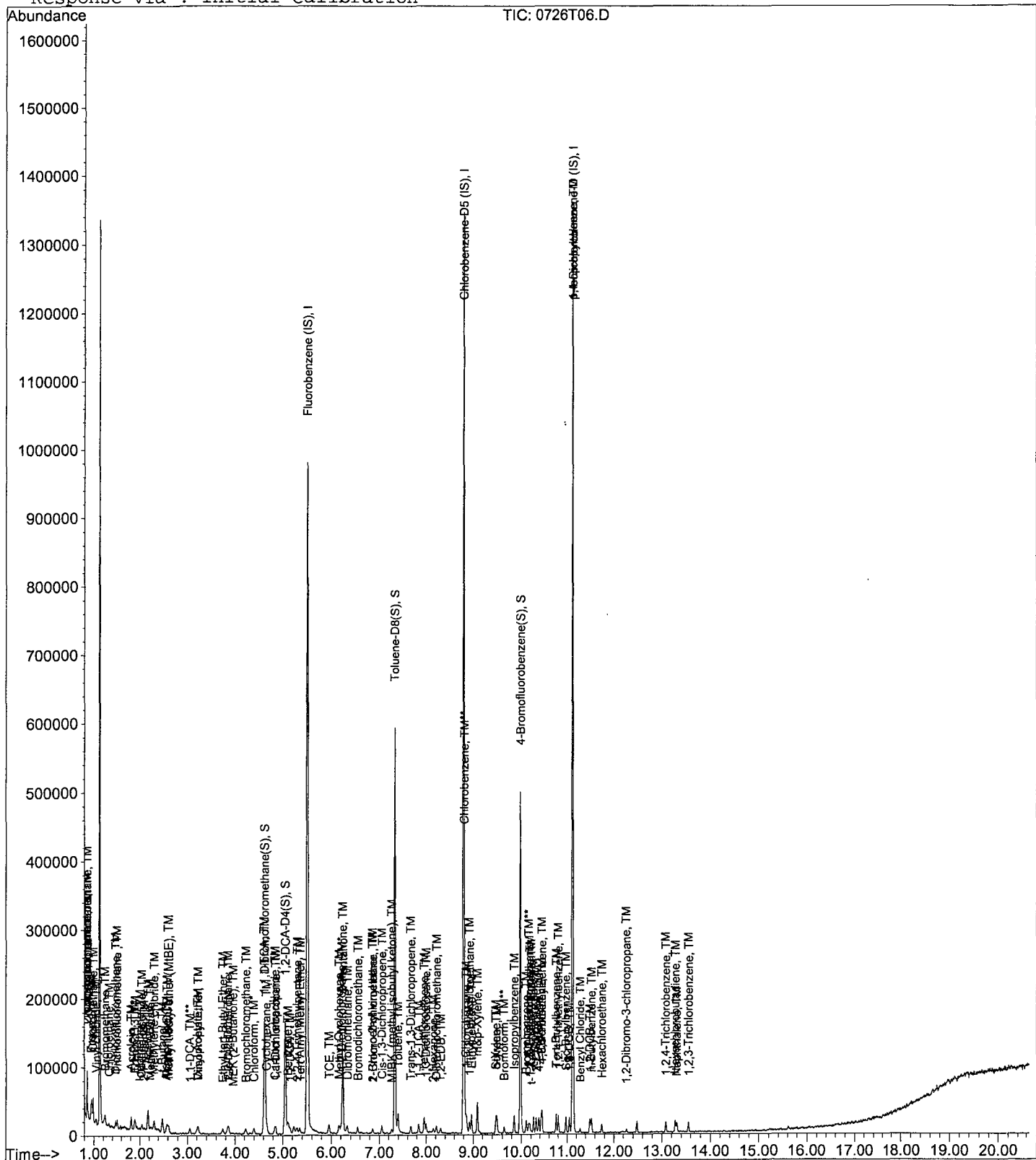
Data File : M:\THOR\DATA\T190726\0726T06.D
Acq On : 26 Jul 19 14:31
Sample : 1.0ug/L VOC STD 07/26/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 6
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 29 14:10 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0726T07.D
 Acq On : 26 Jul 19 14:59
 Sample : 2.0ug/L VOC STD 07/26/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 7
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 29 14:10 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	521088	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	525952	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	267392	25.0000	ppb	0.00

System Monitoring Compounds

40) Dibromofluoromethane(S)	4.62	111	119604	10.8560	ppb	0.00
Spiked Amount	25.000		Recovery	=	43.424%	
45) 1,2-DCA-D4 (S)	5.05	65	137925	10.9743	ppb	0.00
Spiked Amount	25.000		Recovery	=	43.896%	
66) Toluene-D8 (S)	7.32	98	422219	10.6497	ppb	0.00
Spiked Amount	25.000		Recovery	=	42.600%	
74) 4-Bromofluorobenzene(S)	9.98	95	158657	10.3645	ppb	0.00
Spiked Amount	25.000		Recovery	=	41.456%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chlorotrifluoroethene	0.85	116	38248	19.4747	ppb	98
3) Dichlorodifluoromethane	0.87	87	2861	1.3771	ppb	80
4) Freon 114	0.95	85	6725	1.8609	ppb	95
5) Chloromethane	0.98	50	22062	1.4906	ppb	99
6) Vinyl chloride	1.05	62	9171	2.0145	ppb	99
7) 2-Chloro-1,1,1-trifluoroet	0.85	118	12895	19.9990	ppb	# 100
8) Bromomethane	1.25	94	3344	1.6740	ppb	90
9) Chloroethane	1.32	64	7018	2.3106	ppb	98
10) Dichlorofluoromethane	1.47	67	11610	1.8619	ppb	99
11) Trichlorofluoromethane	1.50	101	12617	1.9285	ppb	99
13) Acrolein	1.81	55	15827	68.8533	ppb	82
14) Acetone	1.94	43	4793	0.7797	ppb	96
15) Freon-113	1.90	101	3380	1.7899	ppb	# 82
16) 1,1-DCE	1.88	61	10501	1.8927	ppb	95
17) 2-Propanol	2.10	45	5636	20.4887	ppb	# 78
18) Acetonitrile	2.17	41	49662	77.4202	ppb	99
19) t-Butanol	2.50	59	16848	70.8972	ppb	96
20) Methyl Acetate	2.24	43	7380	2.0637	ppb	87
21) Iodomethane	1.99	142	1768	2.4672	ppb	# 24
22) Acrylonitrile	2.56	52	2919	2.0581	ppb	# 64
23) Methylene chloride	2.31	84	8537	1.7748	ppb	98
24) Carbon disulfide	2.04	76	15516	1.7921	ppb	96
25) Methyl t-butyl ether (MtBE)	2.61	73	20078	1.8808	ppb	97
26) Trans-1,2-DCE	2.58	96	7211	1.8831	ppb	90
28) Diisopropyl Ether	3.22	45	7945	1.9382	ppb	95
30) 1,1-DCA	3.05	63	13704	1.8929	ppb	# 92
31) Vinyl Acetate	3.22	87	5955	1.9758	ppb	91
32) Ethyl tert Butyl Ether	3.73	59	14472	1.8836	ppb	99
33) MEK (2-Butanone)	3.97	43	1079	1.3444	ppb	# 69
34) Cis-1,2-DCE	3.86	61	15301	2.1253	ppb	# 92
35) 2,2-Dichloropropane	3.83	77	4169	1.9370	ppb	80
38) Chloroform	4.39	83	14623	1.9143	ppb	95
39) Bromochloromethane	4.21	128	4978	1.7651	ppb	95
41) 1,1,1-TCA	4.60	97	4968	1.7615	ppb	89
42) Cyclohexane	4.67	41	5809	1.8817	ppb	95
43) 1,1-Dichloropropene	4.85	75	9652	1.8398	ppb	93
44) 2,2,4-Trimethylpentane	5.29	57	6462	2.0557	ppb	# 71
46) Carbon Tetrachloride	4.83	117	7528	2.4590	ppb	97
47) Tert Amyl Methyl Ether	5.36	73	13181	1.8275	ppb	# 88

(#) = qualifier out of range (m) = manual integration

Data File : M:\THOR\DATA\T190726\0726T07.D
 Acq On : 26 Jul 19 14:59
 Sample : 2.0ug/L VOC STD 07/26/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 7
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 29 14:10 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) 1,2-DCA	5.16	62	12282	1.9456	ppb	99
50) Benzene	5.11	78	30019	1.9186	ppb	95
51) TCE	5.95	95	7340	1.7163	ppb	99
52) 2-Pentanone	6.23	43	228112	74.1147	ppb	100
53) 1,2-Dichloropropane	6.20	63	3424	1.6119	ppb #	100
54) Bromodichloromethane	6.55	83	5772	1.8445	ppb #	98
55) Methyl Cyclohexane	6.16	83	9481	1.9252	ppb	100
56) Dibromomethane	6.32	93	5063	1.7219	ppb	87
57) MIBK (methyl isobutyl ket	7.26	58	3068	1.9397	ppb	98
58) 1-Bromo-2-chloroethane	6.85	63	10131	1.9256	ppb	87
59) 2-Chloroethyl vinyl ether	6.86	107	191	2.8635	ppb #	31
60) Cis-1,3-Dichloropropene	7.05	75	6699	1.8411	ppb	93
61) Toluene	7.39	91	33188	1.9299	ppb	89
62) Trans-1,3-Dichloropropene	7.66	75	10875	1.9266	ppb	94
63) 1,1,2-TCA	7.83	83	5884	1.7646	ppb	86
64) 2-Hexanone	8.14	58	1446	1.5110	ppb #	68
67) 1,2-EDB	8.30	107	7988	1.7984	ppb	89
68) Tetrachloroethene	7.96	164	9247	1.7846	ppb	88
69) 1-Chlorohexane	8.86	91	7296	1.8092	ppb	92
70) 1,1,1,2-Tetrachloroethane	8.92	131	4709	1.6752	ppb	88
71) m&p-Xylene	9.08	106	15304	3.6124	ppb	98
72) o-Xylene	9.47	106	12711	1.8428	ppb	86
73) Styrene	9.49	104	17249	1.7544	ppb	100
75) 1,3-Dichloropropane	7.99	76	7282	1.7155	ppb	96
76) Dibromochloromethane	8.21	129	5309	1.7813	ppb	95
77) Chlorobenzene	8.82	112	21312	1.7819	ppb	96
78) Ethylbenzene	8.96	91	35028	1.8673	ppb	97
79) Bromoform	9.64	173	3872	2.1750	ppb	87
81) Isopropylbenzene	9.85	105	31407	1.9114	ppb	91
82) 1,1,2,2-Tetrachloroethane	10.15	83	9835	1.8518	ppb	95
83) 1,2,3-Trichloropropane	10.17	110	4192	2.1747	ppb	76
84) t-1,4-Dichloro-2-Butene	10.21	53	1467	2.4488	ppb	92
85) Bromobenzene	10.10	156	10232	1.9267	ppb	95
86) n-Propylbenzene	10.26	91	33109	1.9154	ppb	98
87) 4-Ethyltoluene	10.37	105	21674	1.7724	ppb	88
88) 2-Chlorotoluene	10.31	91	22063	1.4732	ppb	98
89) 1,3,5-Trimethylbenzene	10.44	105	24559	1.9141	ppb	98
90) 4-Chlorotoluene	10.43	91	24226	1.8599	ppb	97
91) Tert-Butylbenzene	10.75	119	25883	2.1010	ppb	98
92) 1,2,4-Trimethylbenzene	10.80	105	24677	1.8954	ppb	93
93) Sec-Butylbenzene	10.97	105	27364	1.8206	ppb	95
94) p-Isopropyltoluene	11.12	119	25996	1.9292	ppb	98
95) Benzyl Chloride	11.28	91	5022	1.6811	ppb	99
96) 1,3-DCB	11.04	146	18173	1.9482	ppb	93
97) 1,4-DCB	11.14	146	17760	1.9123	ppb	96
98) n-Butylbenzene	11.53	91	19695	1.8260	ppb	91
99) 1,2-DCB	11.49	146	16733	1.9305	ppb	92
100) Hexachloroethane	11.74	117	2820	1.6983	ppb #	94
101) 1,2-Dibromo-3-chloropropan	12.26	157	2432	1.9980	ppb #	82
102) 1,2,4-Trichlorobenzene	13.08	182	5280	1.5545	ppb #	75
103) Hexachlorobutadiene	13.28	225	6264	2.0291	ppb	93
104) Naphthalene	13.31	128	13346	1.8155	ppb	91
105) 1,2,3-Trichlorobenzene	13.56	145	1677	1.5552	ppb #	68

(#) = qualifier out of range (m) = manual integration
 0726T07.D T0726W.M Mon Jul 29 14:18:32 2019

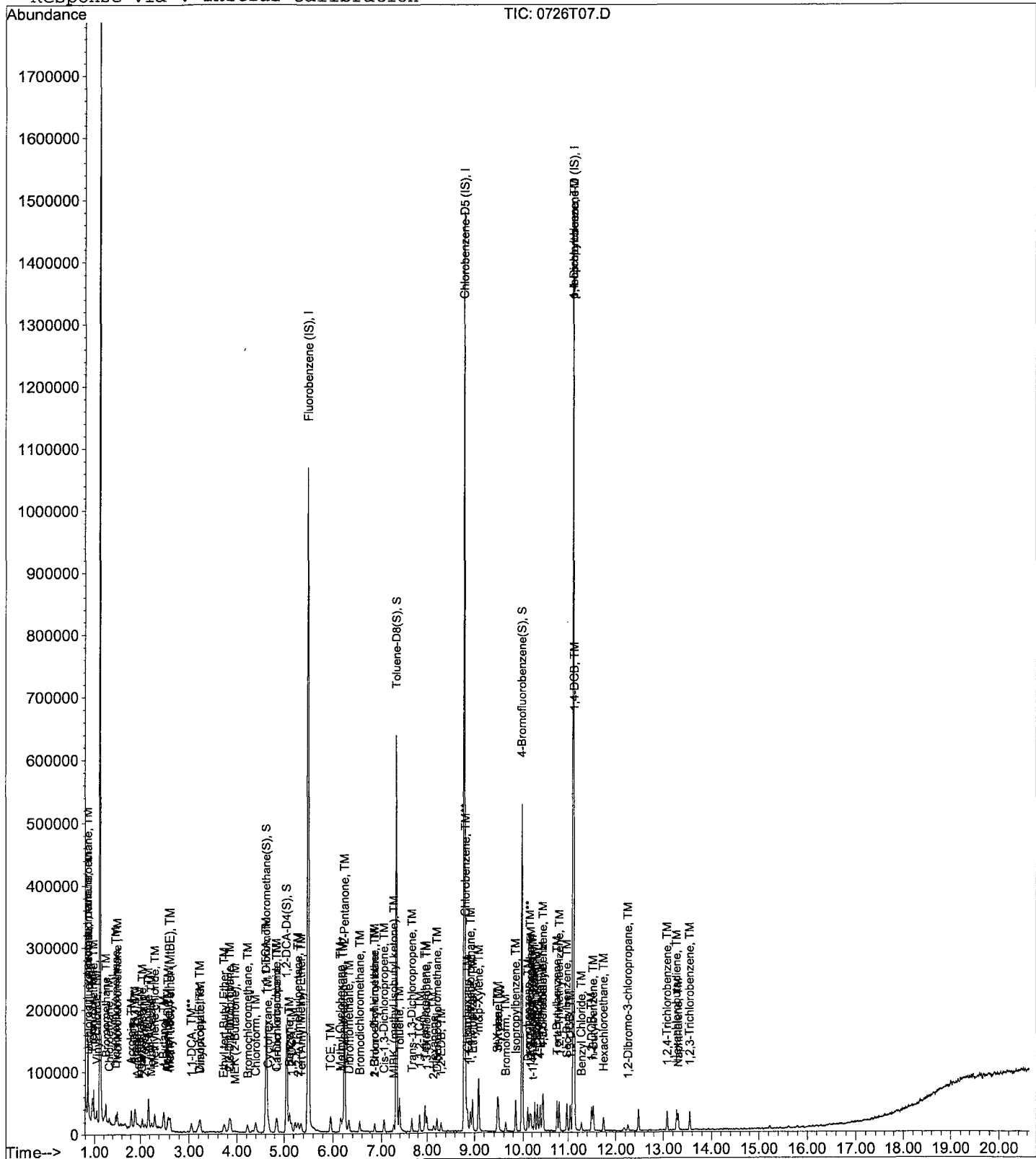
Data File : M:\THOR\DATA\T190726\0726T07.D
Acq On : 26 Jul 19 14:59
Sample : 2.0ug/L VOC STD 07/26/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 7
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 29 14:10 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0726T08.D
 Acq On : 26 Jul 19 15:27
 Sample : 5.0ug/L VOC STD 07/26/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 8
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 29 14:11 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	517952	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	528768	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	271168	25.0000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	319621	29.1866	ppb	0.00
Spiked Amount	25.000		Recovery	=	116.748%	
45) 1,2-DCA-D4(S)	5.05	65	369788	29.6011	ppb	0.00
Spiked Amount	25.000		Recovery	=	118.404%	
66) Toluene-D8(S)	7.32	98	1130014	28.3507	ppb	0.00
Spiked Amount	25.000		Recovery	=	113.404%	
74) 4-Bromofluorobenzene(S)	9.98	95	428284	27.8292	ppb	0.00
Spiked Amount	25.000		Recovery	=	111.316%	
Target Compounds						
2) Chlorotrifluoroethene	0.85	116	77326	39.6103	ppb	98
3) Dichlorodifluoromethane	0.87	87	8159	5.0654	ppb	98
4) Freon 114	0.95	85	16364	4.5555	ppb	86
5) Chloromethane	0.98	50	55509	6.1942	ppb	97
6) Vinyl chloride	1.05	62	24453	5.4039	ppb	97
7) 2-Chloro-1,1,1-trifluoroet	0.85	118	24181	37.7297	ppb	# 100
8) Bromomethane	1.25	94	8622	5.7450	ppb	85
9) Chloroethane	1.32	64	14706	5.5205	ppb	98
10) Dichlorofluoromethane	1.47	67	31049	5.0095	ppb	100
11) Trichlorofluoromethane	1.50	101	35315	5.4306	ppb	100
13) Acrolein	1.81	55	22636	99.0712	ppb	89
14) Acetone	1.94	43	12719	6.6544	ppb	95
15) Freon-113	1.90	101	8995	5.1046	ppb	92
16) 1,1-DCE	1.88	61	27117	4.9171	ppb	97
17) 2-Propanol	2.10	45	11927	42.3101	ppb	95
18) Acetonitrile	2.17	41	56631	90.9770	ppb	99
19) t-Butanol	2.49	59	23168	98.0824	ppb	98
20) Methyl Acetate	2.24	43	17993	5.0618	ppb	99
21) Iodomethane	1.99	142	3872	4.7264	ppb	# 38
22) Acrylonitrile	2.56	52	6916	4.9057	ppb	90
23) Methylene chloride	2.31	84	22387	5.2359	ppb	100
24) Carbon disulfide	2.04	76	39593	4.6007	ppb	# 92
25) Methyl t-butyl ether (MtBE)	2.61	73	51990	4.8997	ppb	95
26) Trans-1,2-DCE	2.58	96	19311	5.1250	ppb	97
28) Diisopropyl Ether	3.22	45	19632	4.8182	ppb	98
30) 1,1-DCA	3.05	63	35486	4.9314	ppb	98
31) Vinyl Acetate	3.22	87	14622	4.8807	ppb	# 36
32) Ethyl tert Butyl Ether	3.73	59	36994	4.8442	ppb	96
33) MEK (2-Butanone)	3.95	43	3893	5.4027	ppb	100
34) Cis-1,2-DCE	3.86	61	34536	5.2895	ppb	93
35) 2,2-Dichloropropane	3.84	77	9992	5.0746	ppb	# 61
38) Chloroform	4.40	83	38214	5.0328	ppb	88
39) Bromochloromethane	4.22	128	12729	5.3481	ppb	94
41) 1,1,1-TCA	4.60	97	13484	5.2083	ppb	96
42) Cyclohexane	4.67	41	14809	5.4045	ppb	96
43) 1,1-Dichloropropene	4.85	75	25180	4.8288	ppb	91
44) 2,2,4-Trimethylpentane	5.29	57	15336	4.7412	ppb	# 69
46) Carbon Tetrachloride	4.83	117	21292	4.9669	ppb	93
47) Tert Amyl Methyl Ether	5.35	73	34283	4.7820	ppb	96

(#) = qualifier out of range (m) = manual integration
 0726T08.D T0726W.M Mon Jul 29 14:18:36 2019

Data File : M:\THOR\DATA\T190726\0726T08.D
Acq On : 26 Jul 19 15:27
Sample : 5.0ug/L VOC STD 07/26/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 8
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 29 14:11 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration
DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) 1,2-DCA	5.15	62	31535	5.0258	ppb	97
50) Benzene	5.11	78	78362	5.0386	ppb	99
51) TCE	5.95	95	20923	4.9221	ppb	98
52) 2-Pentanone	6.23	43	293426	95.9128	ppb	100
53) 1,2-Dichloropropane	6.19	63	9686	4.7321	ppb #	100
54) Bromodichloromethane	6.54	83	15441	4.9641	ppb #	91
55) Methyl Cyclohexane	6.16	83	25050	5.0212	ppb	87
56) Dibromomethane	6.32	93	14227	4.8679	ppb	94
57) MIBK (methyl isobutyl ket	7.26	58	9094	5.5617	ppb	93
58) 1-Bromo-2-chloroethane	6.85	63	25920	4.9565	ppb	98
59) 2-Chloroethyl vinyl ether	6.85	107	1032	15.7994	ppb #	31
60) Cis-1,3-Dichloropropene	7.05	75	16448	4.5477	ppb	96
61) Toluene	7.39	91	81795	4.7853	ppb	89
62) Trans-1,3-Dichloropropene	7.66	75	26344	4.6954	ppb	95
63) 1,1,2-TCA	7.83	83	16071	4.8489	ppb	90
64) 2-Hexanone	8.14	58	4545	4.7782	ppb	88
67) 1,2-EDB	8.30	107	21878	4.8994	ppb	99
68) Tetrachloroethene	7.95	164	27050	5.1926	ppb	95
69) 1-Chlorohexane	8.85	91	18741	4.6225	ppb	94
70) 1,1,1,2-Tetrachloroethane	8.92	131	13418	4.7479	ppb	95
71) m&p-Xylene	9.08	106	41560	9.7576	ppb	99
72) o-Xylene	9.47	106	34885	5.0306	ppb	91
73) Styrene	9.48	104	44347	4.4865	ppb	97
75) 1,3-Dichloropropane	8.00	76	20888	4.8945	ppb	92
76) Dibromochloromethane	8.21	129	14578	4.8653	ppb	90
77) Chlorobenzene	8.82	112	59993	4.9892	ppb	100
78) Ethylbenzene	8.96	91	90206	4.7832	ppb	96
79) Bromoform	9.63	173	11974	4.9444	ppb	100
81) Isopropylbenzene	9.85	105	84179	5.0517	ppb	96
82) 1,1,2,2-Tetrachloroethane	10.15	83	27662	5.1359	ppb	95
83) 1,2,3-Trichloropropane	10.17	110	9783	5.0045	ppb	89
84) t-1,4-Dichloro-2-Butene	10.21	53	2917	4.5378	ppb	94
85) Bromobenzene	10.10	156	27505	5.1071	ppb	89
86) n-Propylbenzene	10.26	91	86093	4.9111	ppb	95
87) 4-Ethyltoluene	10.37	105	61092	4.9264	ppb	100
88) 2-Chlorotoluene	10.31	91	62901	5.2524	ppb	95
89) 1,3,5-Trimethylbenzene	10.44	105	63192	4.8565	ppb	97
90) 4-Chlorotoluene	10.43	91	68580	5.1916	ppb	97
91) Tert-Butylbenzene	10.75	119	61027	4.8848	ppb	97
92) 1,2,4-Trimethylbenzene	10.80	105	64854	4.9120	ppb	97
93) Sec-Butylbenzene	10.97	105	77717	5.0987	ppb	100
94) p-Isopropyltoluene	11.13	119	67603	4.9471	ppb	95
95) Benzyl Chloride	11.28	91	14882	5.4162	ppb	98
96) 1,3-DCB	11.05	146	43818	4.6321	ppb	97
97) 1,4-DCB	11.14	146	45760	4.8587	ppb	99
98) n-Butylbenzene	11.53	91	54191	4.9543	ppb	95
99) 1,2-DCB	11.49	146	46793	5.3233	ppb	96
100) Hexachloroethane	11.74	117	9040	5.3683	ppb #	92
101) 1,2-Dibromo-3-chloropropan	12.26	157	5964	4.7739	ppb	88
102) 1,2,4-Trichlorobenzene	13.08	182	17432	5.0608	ppb	96
103) Hexachlorobutadiene	13.28	225	16503	5.1648	ppb	92
104) Naphthalene	13.31	128	36632	4.9138	ppb	96
105) 1,2,3-Trichlorobenzene	13.55	145	5648	5.1648	ppb	85

(#) = qualifier out of range (m) = manual integration
0726T08.D T0726W.M Mon Jul 29 14:18:37 2019

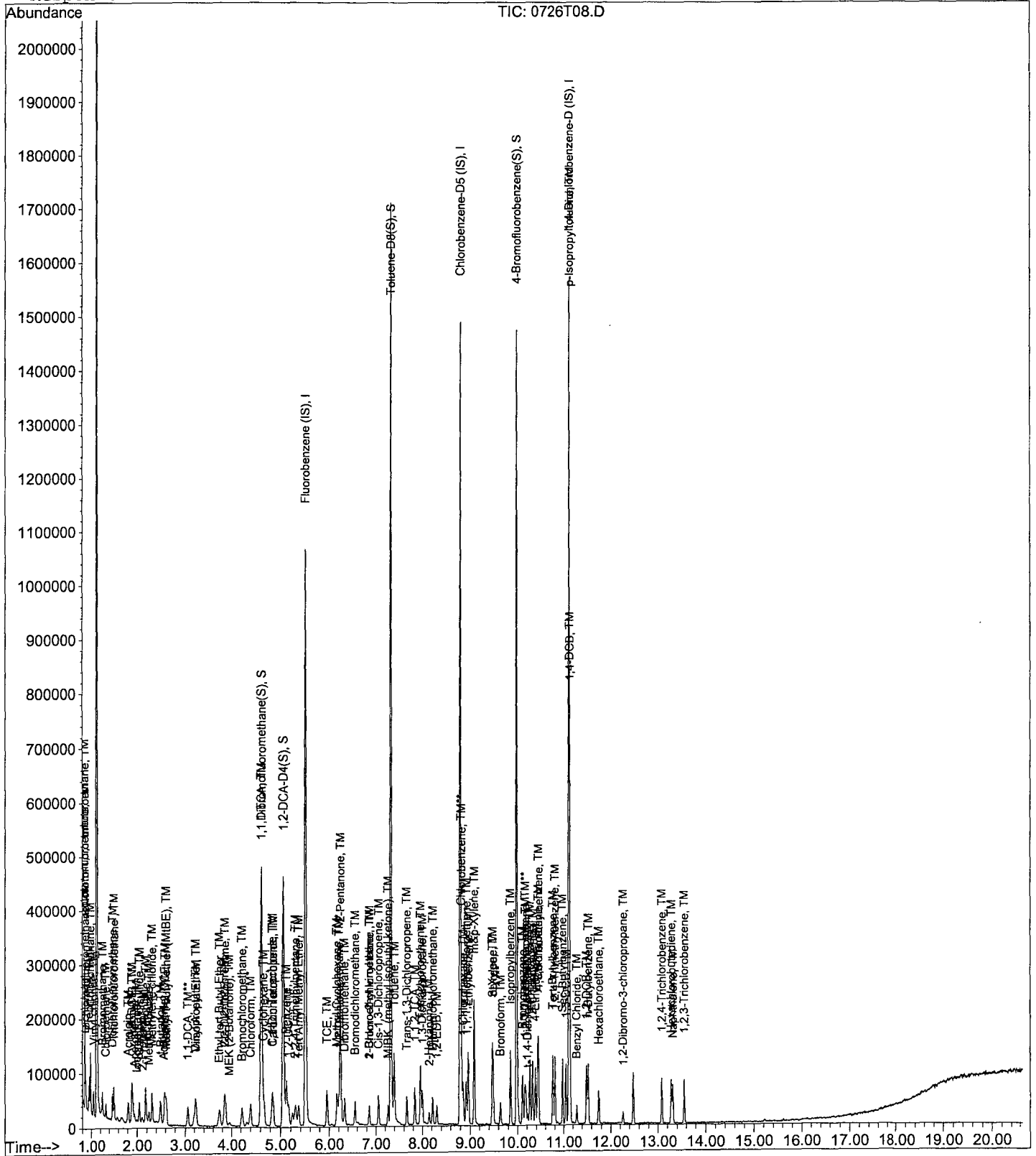
Data File : M:\THOR\DATA\T190726\0726T08.D
Acq On : 26 Jul 19 15:27
Sample : 5.0ug/L VOC STD 07/26/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 8
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 29 14:11 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0726T09.D
 Acq On : 26 Jul 19 15:55
 Sample : 10ug/L VOC STD 07/26/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 9
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 29 14:11 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	516096	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	513536	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	275520	25.0000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	244604	22.4166	ppb	0.00
Spiked Amount	25.000		Recovery	=	89.668%	
45) 1,2-DCA-D4(S)	5.05	65	280529	22.5368	ppb	0.00
Spiked Amount	25.000		Recovery	=	90.148%	
66) Toluene-D8(S)	7.32	98	857337	22.1476	ppb	0.00
Spiked Amount	25.000		Recovery	=	88.592%	
74) 4-Bromofluorobenzene(S)	9.98	95	328447	21.9750	ppb	0.00
Spiked Amount	25.000		Recovery	=	87.900%	
Target Compounds						
2) Chlorotrifluoroethene	0.85	116	185984	95.6131	ppb	100
3) Dichlorodifluoromethane	0.87	87	13801	9.0149	ppb	100
4) Freon 114	0.95	85	31910	8.9151	ppb	100
5) Chloromethane	0.98	50	79458	9.5888	ppb	100
6) Vinyl chloride	1.05	62	41566	9.2188	ppb	100
7) 2-Chloro-1,1,1-trifluoroet	0.85	118	61573	96.4181	ppb	100
8) Bromomethane	1.24	94	13111	9.2305	ppb	100
9) Chloroethane	1.32	64	25506	10.0431	ppb	100
10) Dichlorofluoromethane	1.47	67	55937	9.0575	ppb	100
11) Trichlorofluoromethane	1.50	101	55605	8.5815	ppb	100
13) Acrolein	1.81	55	27751	121.8949	ppb	100
14) Acetone	1.94	43	15357	8.6433	ppb	100
15) Freon-113	1.90	101	16512	9.5609	ppb	100
16) 1,1-DCE	1.88	61	49447	8.9984	ppb	100
17) 2-Propanol	2.11	45	25745	90.3026	ppb	100
18) Acetonitrile	2.17	41	74384	124.5909	ppb	100
19) t-Butanol	2.50	59	26296	111.7252	ppb	100
20) Methyl Acetate	2.24	43	33222	9.3797	ppb	100
21) Iodomethane	1.99	142	7640	8.7814	ppb	100
22) Acrylonitrile	2.56	52	13261	9.4402	ppb	100
23) Methylene chloride	2.31	84	39664	9.5730	ppb	100
24) Carbon disulfide	2.04	76	77512	9.0393	ppb	100
25) Methyl t-butyl ether (MtBE)	2.61	73	93307	8.8252	ppb	100
26) Trans-1,2-DCE	2.58	96	35205	9.4020	ppb	100
28) Diisopropyl Ether	3.22	45	37328	9.1941	ppb	100
30) 1,1-DCA	3.05	63	63347	8.8348	ppb	100
31) Vinyl Acetate	3.22	87	27408	9.1815	ppb	100
32) Ethyl tert Butyl Ether	3.73	59	70211	9.2269	ppb	100
33) MEK (2-Butanone)	3.94	43	6693	9.4661	ppb	100
34) Cis-1,2-DCE	3.86	61	59576	9.4241	ppb	100
35) 2,2-Dichloropropane	3.84	77	18480	9.6641	ppb	100
38) Chloroform	4.39	83	66722	8.8190	ppb	100
39) Bromochloromethane	4.22	128	20340	8.8866	ppb	100
41) 1,1,1-TCA	4.60	97	24296	9.6043	ppb	100
42) Cyclohexane	4.66	41	25377	9.5606	ppb	100
43) 1,1-Dichloropropene	4.85	75	44511	8.5666	ppb	100
44) 2,2,4-Trimethylpentane	5.29	57	30456	9.3299	ppb	100
46) Carbon Tetrachloride	4.83	117	42166	8.7852	ppb	100
47) Tert Amyl Methyl Ether	5.35	73	63663	8.9121	ppb	100

(#) = qualifier out of range (m) = manual integration
 0726T09.D T0726W.M Mon Jul 29 14:18:41 2019

Data File : M:\THOR\DATA\T190726\0726T09.D
 Acq On : 26 Jul 19 15:55
 Sample : 10ug/L VOC STD 07/26/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 9
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 29 14:11 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) 1,2-DCA	5.15	62	56290	9.0034	ppb	100
50) Benzene	5.11	78	144896	9.3502	ppb	100
51) TCE	5.95	95	39407	9.3038	ppb	100
52) 2-Pentanone	6.23	43	360185	118.1578	ppb	100
53) 1,2-Dichloropropane	6.19	63	19312	9.5472	ppb	100
54) Bromodichloromethane	6.55	83	26832	8.6572	ppb	100
55) Methyl Cyclohexane	6.16	83	44655	8.9375	ppb	100
56) Dibromomethane	6.32	93	27945	9.5960	ppb	100
57) MIBK (methyl isobutyl ket	7.26	58	15186	9.2450	ppb	100
58) 1-Bromo-2-chloroethane	6.85	63	48289	9.2671	ppb	100
59) 2-Chloroethyl vinyl ether	6.86	107	1805	27.7728	ppb	100
60) Cis-1,3-Dichloropropene	7.05	75	31448	8.7264	ppb	100
61) Toluene	7.39	91	159497	9.3647	ppb	100
62) Trans-1,3-Dichloropropene	7.66	75	50545	9.0413	ppb	100
63) 1,1,2-TCA	7.83	83	29887	9.0498	ppb	100
64) 2-Hexanone	8.14	58	8558	9.0295	ppb	100
67) 1,2-EDB	8.30	107	41408	9.5480	ppb	100
68) Tetrachloroethene	7.95	164	45422	8.9779	ppb	100
69) 1-Chlorohexane	8.85	91	34366	8.7278	ppb	100
70) 1,1,1,2-Tetrachloroethane	8.92	131	25040	9.1231	ppb	100
71) m&p-Xylene	9.08	106	77128	18.6454	ppb	100
72) o-Xylene	9.47	106	62545	9.2869	ppb	100
73) Styrene	9.48	104	88822	9.2525	ppb	100
75) 1,3-Dichloropropane	7.99	76	38968	9.4019	ppb	100
76) Dibromochloromethane	8.21	129	27480	9.4433	ppb	100
77) Chlorobenzene	8.82	112	110020	9.4210	ppb	100
78) Ethylbenzene	8.96	91	166376	9.0838	ppb	100
79) Bromoform	9.63	173	20920	8.2227	ppb	100
81) Isopropylbenzene	9.85	105	158564	9.3654	ppb	100
82) 1,1,2,2-Tetrachloroethane	10.15	83	51861	9.4767	ppb	100
83) 1,2,3-Trichloropropane	10.17	110	17244	8.6818	ppb	100
84) t-1,4-Dichloro-2-Butene	10.21	53	6564	9.7169	ppb	100
85) Bromobenzene	10.10	156	52221	9.5432	ppb	100
86) n-Propylbenzene	10.26	91	159842	8.9741	ppb	100
87) 4-Ethyltoluene	10.37	105	111857	8.8775	ppb	100
88) 2-Chlorotoluene	10.31	91	115262	9.9655	ppb	100
89) 1,3,5-Trimethylbenzene	10.44	105	122433	9.2607	ppb	100
90) 4-Chlorotoluene	10.43	91	120542	8.9811	ppb	100
91) Tert-Butylbenzene	10.75	119	111287	8.7670	ppb	100
92) 1,2,4-Trimethylbenzene	10.80	105	115793	8.6315	ppb	100
93) Sec-Butylbenzene	10.97	105	143616	9.2732	ppb	100
94) p-Isopropyltoluene	11.13	119	123571	8.9000	ppb	100
95) Benzyl Chloride	11.28	91	25864	9.4506	ppb	100
96) 1,3-DCB	11.05	146	86787	9.0296	ppb	100
97) 1,4-DCB	11.14	146	86533	9.0427	ppb	100
98) n-Butylbenzene	11.53	91	100354	9.0298	ppb	100
99) 1,2-DCB	11.49	146	84253	9.4334	ppb	100
100) Hexachloroethane	11.74	117	15227	8.8995	ppb	100
101) 1,2-Dibromo-3-chloropropan	12.26	157	12361	9.6958	ppb	100
102) 1,2,4-Trichlorobenzene	13.08	182	34336	9.8109	ppb	100
103) Hexachlorobutadiene	13.28	225	30740	9.4128	ppb	100
104) Naphthalene	13.31	128	67488	8.9098	ppb	100
105) 1,2,3-Trichlorobenzene	13.55	145	10365	9.3286	ppb	100

(#) = qualifier out of range (m) = manual integration
 0726T09.D T0726W.M Mon Jul 29 14:18:41 2019

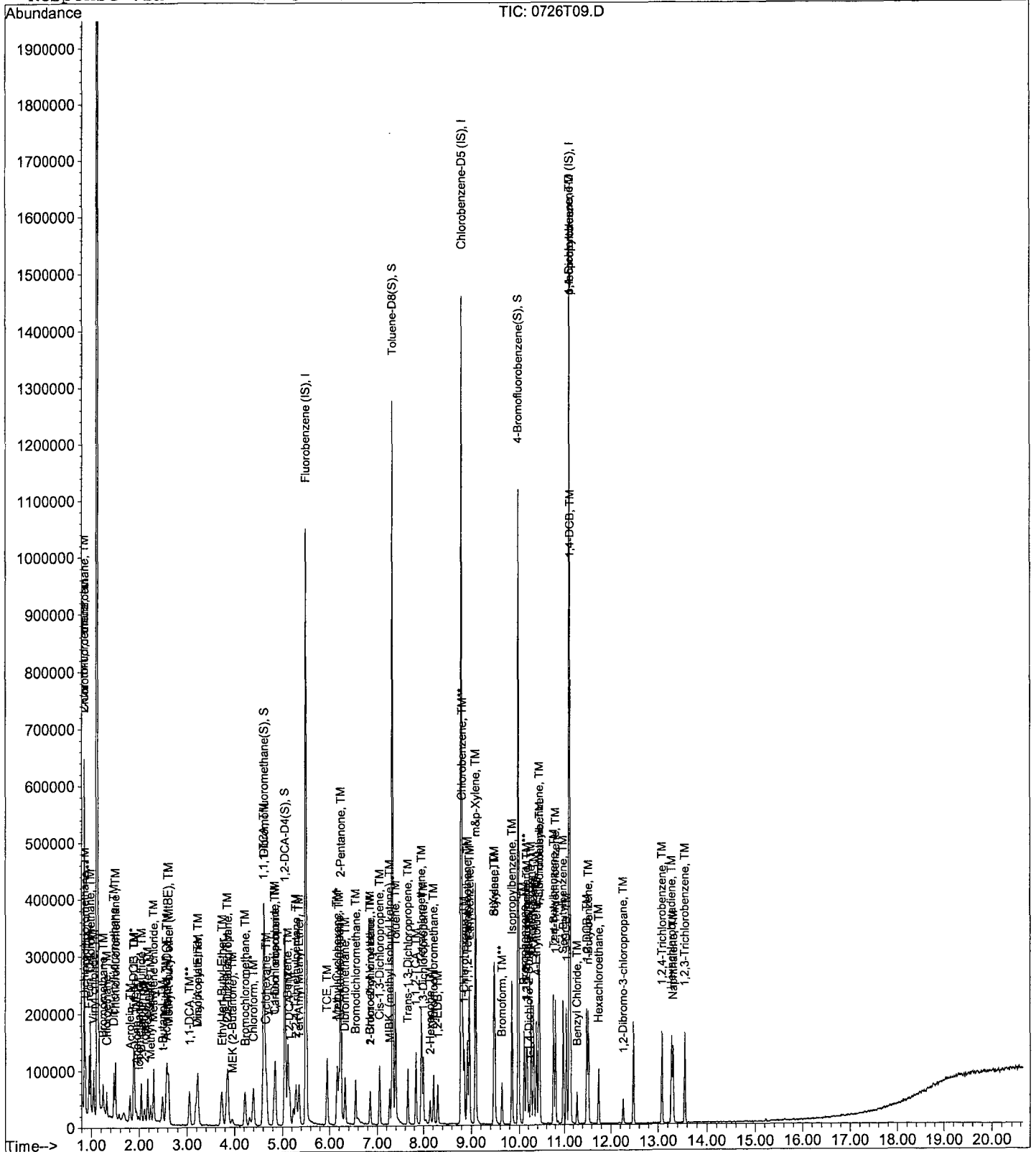
Data File : M:\THOR\DATA\T190726\0726T09.D
Acq On : 26 Jul 19 15:55
Sample : 10ug/L VOC STD 07/26/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 9
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 29 14:11 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0726T10.D Vial: 10
 Acq On : 26 Jul 19 16:24 Operator:
 Sample : 20ug/L VOC STD 07/26/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 29 14:11 2019 Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	469568	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	465088	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	276672	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Dibromofluoromethane(S)	4.62	111	486727	49.0257	ppb	0.00
Spiked Amount 25.000			Recovery =	196.104%		
45) 1,2-DCA-D4(S)	5.05	65	545002	48.1220	ppb	0.00
Spiked Amount 25.000			Recovery =	192.488%		
66) Toluene-D8(S)	7.32	98	1706063	48.6637	ppb	0.00
Spiked Amount 25.000			Recovery =	194.656%		
74) 4-Bromofluorobenzene(S)	9.98	95	684366	50.5578	ppb	0.00
Spiked Amount 25.000			Recovery =	202.232%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chlorotrifluoroethene	0.85	116	227388	128.4818	ppb	99
3) Dichlorodifluoromethane	0.87	87	28120	20.9271	ppb	95
4) Freon 114	0.95	85	67802	20.8198	ppb	98
5) Chloromethane	0.98	50	145829	20.9503	ppb	99
6) Vinyl chloride	1.05	62	77177	18.8128	ppb	96
7) 2-Chloro-1,1,1-trifluoroet	0.85	118	75186	129.4009	ppb	# 100
8) Bromomethane	1.24	94	24896	20.2207	ppb	# 76
9) Chloroethane	1.31	64	43568	19.3690	ppb	95
10) Dichlorofluoromethane	1.47	67	110517	19.6684	ppb	98
11) Trichlorofluoromethane	1.49	101	114928	19.4943	ppb	97
13) Acrolein	1.80	55	38333	185.0597	ppb	# 66
14) Acetone	1.94	43	29211	21.0566	ppb	93
15) Freon-113	1.90	101	31336	20.1444	ppb	94
16) 1,1-DCE	1.88	61	98251	19.6515	ppb	97
17) 2-Propanol	2.12	45	31975	122.8441	ppb	98
18) Acetonitrile	2.18	41	86385	163.0808	ppb	93
19) t-Butanol	2.51	59	29913	139.6862	ppb	99
20) Methyl Acetate	2.24	43	60208	18.6830	ppb	88
21) Iodomethane	1.99	142	15641	19.0220	ppb	98
22) Acrylonitrile	2.56	52	25125	19.6581	ppb	99
23) Methylene chloride	2.31	84	76035	20.5437	ppb	96
24) Carbon disulfide	2.04	76	157510	20.1885	ppb	99
25) Methyl t-butyl ether (MtBE	2.61	73	186054	19.3410	ppb	96
26) Trans-1,2-DCE	2.58	96	70523	20.7369	ppb	94
28) Diisopropyl Ether	3.22	45	72960	19.7512	ppb	99
30) 1,1-DCA	3.05	63	127579	19.5560	ppb	97
31) Vinyl Acetate	3.22	87	55211	20.3279	ppb	95
32) Ethyl tert Butyl Ether	3.73	59	149650	21.6151	ppb	99
33) MEK (2-Butanone)	3.94	43	13203	20.7559	ppb	96
34) Cis-1,2-DCE	3.85	61	118774	21.0846	ppb	96
35) 2,2-Dichloropropane	3.84	77	34608	20.1945	ppb	# 63
38) Chloroform	4.39	83	135197	19.6403	ppb	85
39) Bromochloromethane	4.22	128	44235	21.9551	ppb	91
41) 1,1,1-TCA	4.60	97	46632	20.5157	ppb	96
42) Cyclohexane	4.67	41	48873	20.6498	ppb	85
43) 1,1-Dichloropropene	4.85	75	92430	19.5517	ppb	92
44) 2,2,4-Trimethylpentane	5.29	57	60728	20.3033	ppb	98
46) Carbon Tetrachloride	4.83	117	87801	18.6882	ppb	96
47) Tert Amyl Methyl Ether	5.36	73	136613	21.0192	ppb	98

(#) = qualifier out of range (m) = manual integration

Data File : M:\THOR\DATA\T190726\0726T10.D
 Acq On : 26 Jul 19 16:24
 Sample : 20ug/L VOC STD 07/26/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 10
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 29 14:11 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) 1,2-DCA	5.15	62	112132	19.7122	ppb	94
50) Benzene	5.11	78	286942	20.3512	ppb	98
51) TCE	5.95	95	79534	20.6383	ppb	96
52) 2-Pentanone	6.23	43	423474	152.6847	ppb	99
53) 1,2-Dichloropropane	6.20	63	38624	21.0804	ppb	# 100
54) Bromodichloromethane	6.54	83	57560	20.4117	ppb	98
55) Methyl Cyclohexane	6.16	83	94798	20.7762	ppb	92
56) Dibromomethane	6.32	93	55429	20.9198	ppb	98
57) MIBK (methyl isobutyl ket	7.26	58	29942	19.9033	ppb	# 84
58) 1-Bromo-2-chloroethane	6.85	63	94065	19.8406	ppb	94
59) 2-Chloroethyl vinyl ether	6.85	107	4013	67.9407	ppb	90
60) Cis-1,3-Dichloropropene	7.05	75	68088	20.7655	ppb	97
61) Toluene	7.39	91	314282	20.2812	ppb	99
62) Trans-1,3-Dichloropropene	7.66	75	103674	20.3824	ppb	97
63) 1,1,2-TCA	7.83	83	60351	20.0850	ppb	89
64) 2-Hexanone	8.14	58	17808	20.6508	ppb	83
67) 1,2-EDB	8.30	107	80821	20.5772	ppb	99
68) Tetrachloroethene	7.95	164	96452	21.0503	ppb	93
69) 1-Chlorohexane	8.85	91	71853	20.1492	ppb	97
70) 1,1,1,2-Tetrachloroethane	8.92	131	52888	21.2765	ppb	97
71) m&p-Xylene	9.08	106	162816	43.4603	ppb	98
72) o-Xylene	9.47	106	130674	21.4241	ppb	93
73) Styrene	9.48	104	194716	22.3962	ppb	98
75) 1,3-Dichloropropane	7.99	76	78432	20.8947	ppb	98
76) Dibromochloromethane	8.21	129	58184	22.0774	ppb	98
77) Chlorobenzene	8.82	112	217043	20.5214	ppb	99
78) Ethylbenzene	8.96	91	344155	20.7475	ppb	98
79) Bromoform	9.64	173	48632	19.7883	ppb	98
81) Isopropylbenzene	9.85	105	329196	19.3626	ppb	99
82) 1,1,2,2-Tetrachloroethane	10.15	83	112086	20.3966	ppb	# 89
83) 1,2,3-Trichloropropane	10.17	110	36683	18.3919	ppb	99
84) t-1,4-Dichloro-2-Butene	10.21	53	13937	20.2399	ppb	95
85) Bromobenzene	10.10	156	107778	19.6141	ppb	93
86) n-Propylbenzene	10.26	91	351277	19.6398	ppb	98
87) 4-Ethyltoluene	10.37	105	248865	19.6688	ppb	100
88) 2-Chlorotoluene	10.31	91	235837	20.9418	ppb	96
89) 1,3,5-Trimethylbenzene	10.44	105	257379	19.3868	ppb	99
90) 4-Chlorotoluene	10.42	91	265853	19.7252	ppb	99
91) Tert-Butylbenzene	10.75	119	241252	18.9263	ppb	99
92) 1,2,4-Trimethylbenzene	10.80	105	246124	18.2703	ppb	98
93) Sec-Butylbenzene	10.97	105	311668	20.0403	ppb	99
94) p-Isopropyltoluene	11.12	119	255711	18.3404	ppb	96
95) Benzyl Chloride	11.28	91	55800	20.6053	ppb	98
96) 1,3-DCB	11.04	146	191319	19.8225	ppb	99
97) 1,4-DCB	11.14	146	183176	19.0622	ppb	98
98) n-Butylbenzene	11.53	91	219142	19.6362	ppb	97
99) 1,2-DCB	11.49	146	184929	20.6195	ppb	98
100) Hexachloroethane	11.74	117	31800	18.5083	ppb	# 93
101) 1,2-Dibromo-3-chloropropan	12.26	157	27902	21.7443	ppb	95
102) 1,2,4-Trichlorobenzene	13.08	182	78800	22.4218	ppb	93
103) Hexachlorobutadiene	13.28	225	67682	20.5588	ppb	94
104) Naphthalene	13.31	128	164544	21.6326	ppb	96
105) 1,2,3-Trichlorobenzene	13.55	145	20888	18.7211	ppb	92

(#) = qualifier out of range (m) = manual integration
 0726T10.D T0726W.M Mon Jul 29 14:18:46 2019

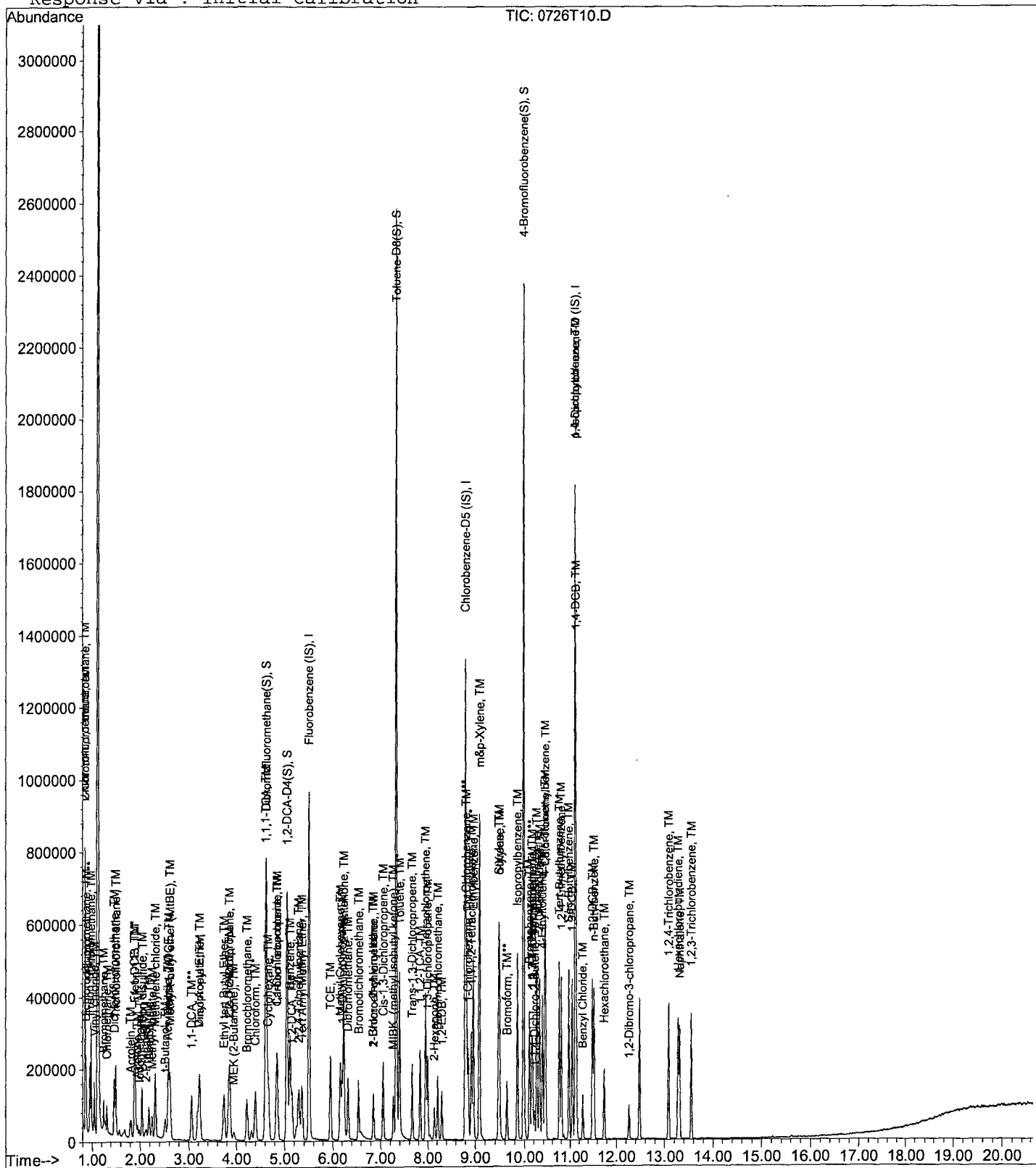
Data File : M:\THOR\DATA\T190726\0726T10.D
Acq On : 26 Jul 19 16:24
Sample : 20ug/L VOC STD 07/26/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 10
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 29 14:11 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0726T12.D
 Acq On : 26 Jul 19 17:20
 Sample : 100ug/L VOC STD 07/26/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 12
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 29 14:11 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	470528	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	451200	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	300928	25.0000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	908679	91.3402	ppb	0.00
Spiked Amount	25.000		Recovery	=	365.360%	
45) 1,2-DCA-D4(S)	5.05	65	1022857	90.1309	ppb	0.00
Spiked Amount	25.000		Recovery	=	360.524%	
66) Toluene-D8(S)	7.32	98	3125296	91.8898	ppb	0.00
Spiked Amount	25.000		Recovery	=	367.560%	
74) 4-Bromofluorobenzene(S)	9.98	95	1340065	102.0449	ppb	0.00
Spiked Amount	25.000		Recovery	=	408.180%	
Target Compounds						
2) Chlorotrifluoroethene	0.85	116	270538	152.5511	ppb	99
3) Dichlorodifluoromethane	0.87	87	131582	99.9127	ppb	93
4) Freon 114	0.95	85	315532	96.6919	ppb	98
5) Chloromethane	0.98	50	657560	99.8084	ppb	99
6) Vinyl chloride	1.05	62	387954	94.3755	ppb	95
7) 2-Chloro-1,1,1-trifluoroet	0.85	118	88603	152.1815	ppb	# 100
8) Bromomethane	1.24	94	108221	90.6560	ppb	# 76
9) Chloroethane	1.31	64	147557	66.8602	ppb	94
10) Dichlorofluoromethane	1.46	67	517541	91.9173	ppb	98
11) Trichlorofluoromethane	1.49	101	540315	91.4625	ppb	96
13) Acrolein	1.79	55	84477	406.9963	ppb	# 1
14) Acetone	1.95	43	126215	99.8660	ppb	95
15) Freon-113	1.89	101	154752	100.0108	ppb	95
16) 1,1-DCE	1.88	61	465440	92.9040	ppb	98
17) 2-Propanol	2.18	45	43373	165.8831	ppb	95
18) Acetonitrile	2.19	41	110779	212.8068	ppb	96
19) t-Butanol	2.56	59	45708	213.0094	ppb	98
20) Methyl Acetate	2.24	43	295104	91.3864	ppb	98
21) Iodomethane	1.99	142	84792	100.3099	ppb	96
22) Acrylonitrile	2.56	52	118332	92.3954	ppb	97
23) Methylene chloride	2.31	84	365837	99.9276	ppb	99
24) Carbon disulfide	2.03	76	768285	98.2725	ppb	97
25) Methyl t-butyl ether (MtBE)	2.62	73	944024	97.9347	ppb	96
26) Trans-1,2-DCE	2.58	96	340070	99.9079	ppb	96
28) Diisopropyl Ether	3.22	45	357696	96.6353	ppb	98
30) 1,1-DCA	3.05	63	603944	92.3868	ppb	97
31) Vinyl Acetate	3.23	87	270704	99.4658	ppb	94
32) Ethyl tert Butyl Ether	3.73	59	823519	118.7047	ppb	96
33) MEK (2-Butanone)	3.94	43	63195	99.8943	ppb	99
34) Cis-1,2-DCE	3.86	61	555949	99.8286	ppb	99
35) 2,2-Dichloropropane	3.84	77	169792	99.9902	ppb	# 61
38) Chloroform	4.39	83	647794	93.9143	ppb	90
39) Bromochloromethane	4.22	128	197720	99.7110	ppb	93
41) 1,1,1-TCA	4.60	97	225600	99.9310	ppb	97
42) Cyclohexane	4.66	41	233617	99.9000	ppb	87
43) 1,1-Dichloropropene	4.85	75	451704	95.3538	ppb	99
44) 2,2,4-Trimethylpentane	5.29	57	301184	100.0147	ppb	97
46) Carbon Tetrachloride	4.83	117	496543	100.3633	ppb	100
47) Tert Amyl Methyl Ether	5.36	73	772260	118.5774	ppb	99

(#) = qualifier out of range (m) = manual integration
 0726T12.D T0726W.M Mon Jul 29 14:18:50 2019

Data File : M:\THOR\DATA\T190726\0726T12.D
 Acq On : 26 Jul 19 17:20
 Sample : 100ug/L VOC STD 07/26/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 12
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 29 14:11 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) 1,2-DCA	5.15	62	528212	92.6674	ppb	95
50) Benzene	5.11	78	1365105	96.6217	ppb	97
51) TCE	5.95	95	374464	96.9715	ppb	98
52) 2-Pentanone	6.24	43	567225	204.0973	ppb	100
53) 1,2-Dichloropropane	6.20	63	182784	99.8493	ppb	# 100
54) Bromodichloromethane	6.55	83	277184	98.0934	ppb	98
55) Methyl Cyclohexane	6.16	83	457992	99.9489	ppb	91
56) Dibromomethane	6.32	93	261099	98.3418	ppb	97
57) MIBK (methyl isobutyl ket	7.27	58	151531	100.0667	ppb	# 81
58) 1-Bromo-2-chloroethane	6.85	63	454570	95.6844	ppb	97
59) 2-Chloroethyl vinyl ether	6.85	107	17667	298.6739	ppb	89
60) Cis-1,3-Dichloropropene	7.05	75	353280	107.5238	ppb	93
61) Toluene	7.39	91	1467406	94.5010	ppb	97
62) Trans-1,3-Dichloropropene	7.66	75	539956	105.9392	ppb	97
63) 1,1,2-TCA	7.83	83	297021	98.6480	ppb	88
64) 2-Hexanone	8.14	58	91640	106.0522	ppb	85
67) 1,2-EDB	8.30	107	396138	103.9621	ppb	98
68) Tetrachloroethene	7.95	164	452423	101.7787	ppb	94
69) 1-Chlorohexane	8.85	91	347634	100.4851	ppb	96
70) 1,1,1,2-Tetrachloroethane	8.92	131	267328	110.8546	ppb	99
71) m&p-Xylene	9.08	106	819196	225.3979	ppb	97
72) o-Xylene	9.47	106	646063	109.1829	ppb	94
73) Styrene	9.49	104	1071649	127.0551	ppb	97
75) 1,3-Dichloropropane	7.99	76	370112	101.6349	ppb	99
76) Dibromochloromethane	8.21	129	274816	107.4862	ppb	97
77) Chlorobenzene	8.82	112	1039615	101.3211	ppb	98
78) Ethylbenzene	8.96	91	1616270	100.4365	ppb	97
79) Bromoform	9.64	173	247424	100.2059	ppb	98
81) Isopropylbenzene	9.85	105	1660801	89.8109	ppb	99
82) 1,1,2,2-Tetrachloroethane	10.15	83	535382	89.5720	ppb	# 89
83) 1,2,3-Trichloropropane	10.17	110	174052	80.2311	ppb	98
84) t-1,4-Dichloro-2-Butene	10.21	53	75712	99.9939	ppb	99
85) Bromobenzene	10.10	156	540558	90.4446	ppb	99
86) n-Propylbenzene	10.26	91	1844273	94.8016	ppb	98
87) 4-Ethyltoluene	10.37	105	1393606	101.2646	ppb	99
88) 2-Chlorotoluene	10.31	91	1195142	99.8159	ppb	98
89) 1,3,5-Trimethylbenzene	10.44	105	1390761	96.3138	ppb	98
90) 4-Chlorotoluene	10.43	91	1379103	94.0762	ppb	99
91) Tert-Butylbenzene	10.75	119	1284911	92.6769	ppb	99
92) 1,2,4-Trimethylbenzene	10.80	105	1314932	89.7426	ppb	98
93) Sec-Butylbenzene	10.97	105	1693776	100.1316	ppb	99
94) p-Isopropyltoluene	11.13	119	1411110	93.0515	ppb	97
95) Benzyl Chloride	11.28	91	291376	99.9203	ppb	96
96) 1,3-DCB	11.05	146	953392	90.8183	ppb	99
97) 1,4-DCB	11.14	146	948408	90.7409	ppb	96
98) n-Butylbenzene	11.53	91	1075514	88.6036	ppb	99
99) 1,2-DCB	11.49	146	943394	96.7093	ppb	98
100) Hexachloroethane	11.74	117	171525	91.7845	ppb	# 94
101) 1,2-Dibromo-3-chloropropan	12.26	157	139356	99.7020	ppb	95
102) 1,2,4-Trichlorobenzene	13.08	182	439168	114.8890	ppb	95
103) Hexachlorobutadiene	13.28	225	358780	99.9385	ppb	95
104) Naphthalene	13.31	128	961152	116.1774	ppb	98
105) 1,2,3-Trichlorobenzene	13.55	145	122760	101.1566	ppb	93

(#) = qualifier out of range (m) = manual integration
 0726T12.D T0726W.M Mon Jul 29 14:18:51 2019

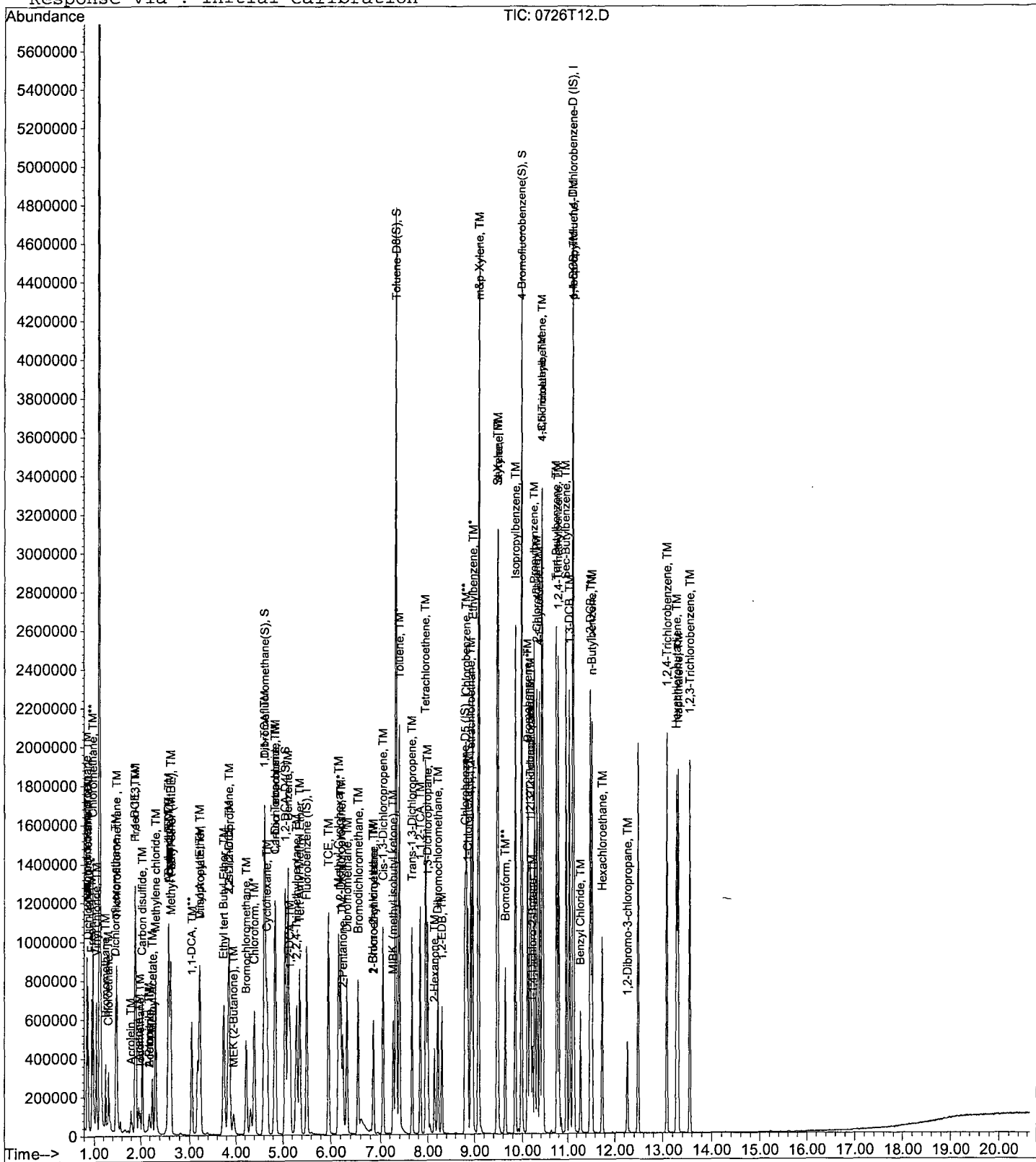
Data File : M:\THOR\DATA\T190726\0726T12.D
Acq On : 26 Jul 19 17:20
Sample : 100ug/L VOC STD 07/26/19
Misc : IS&S 7/6/19, 6/2/19

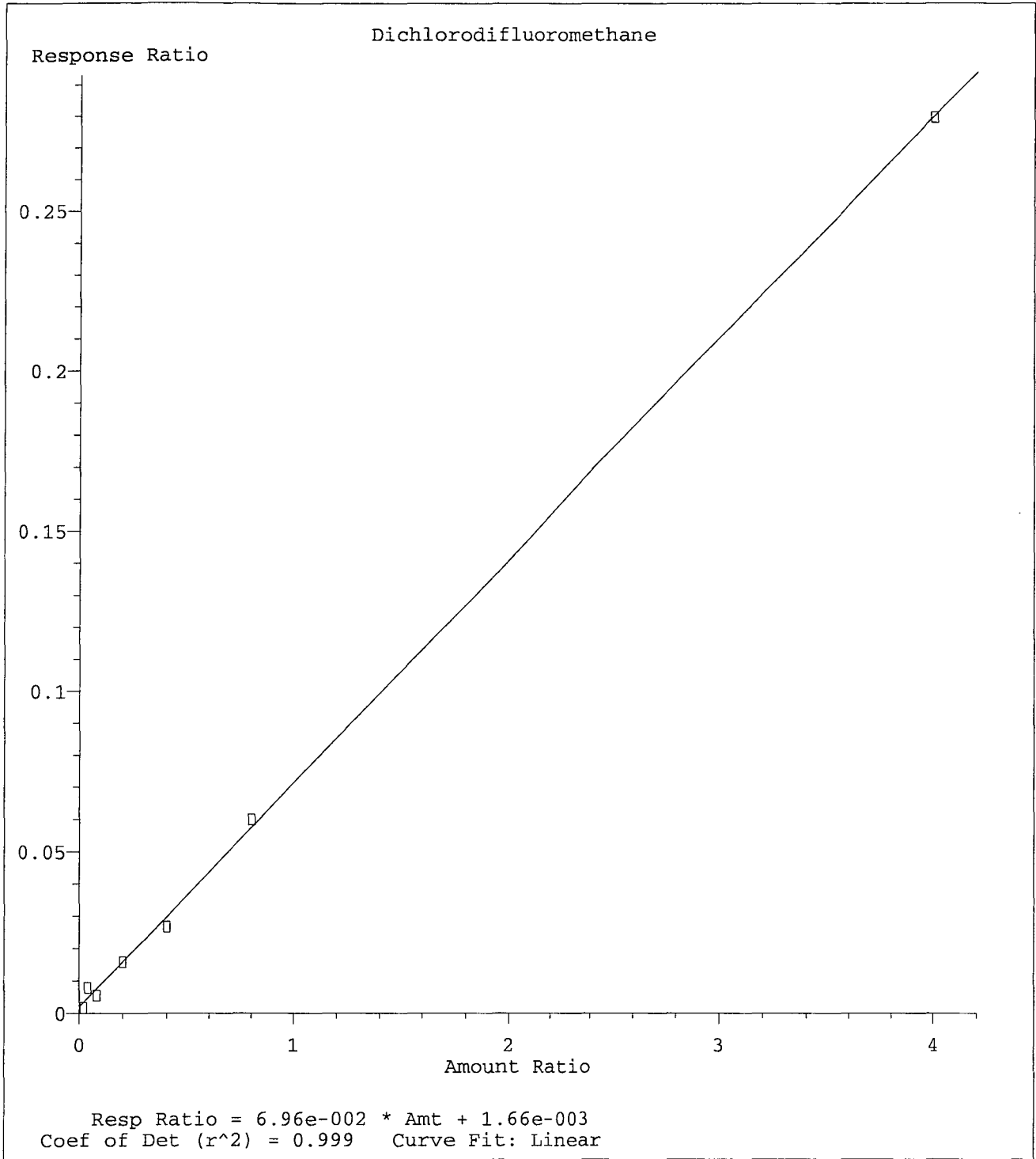
Vial: 12
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 29 14:11 2019

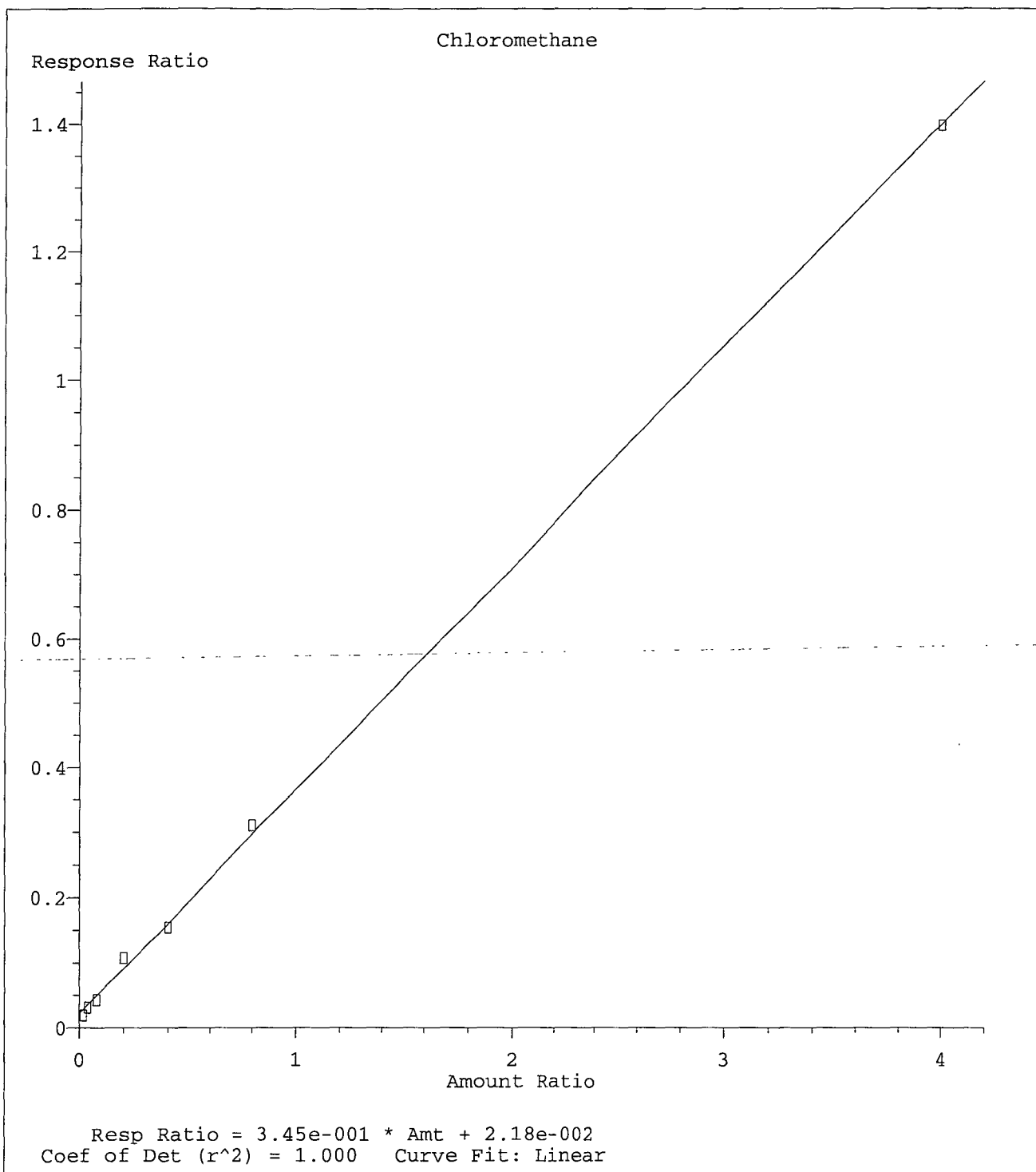
Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration

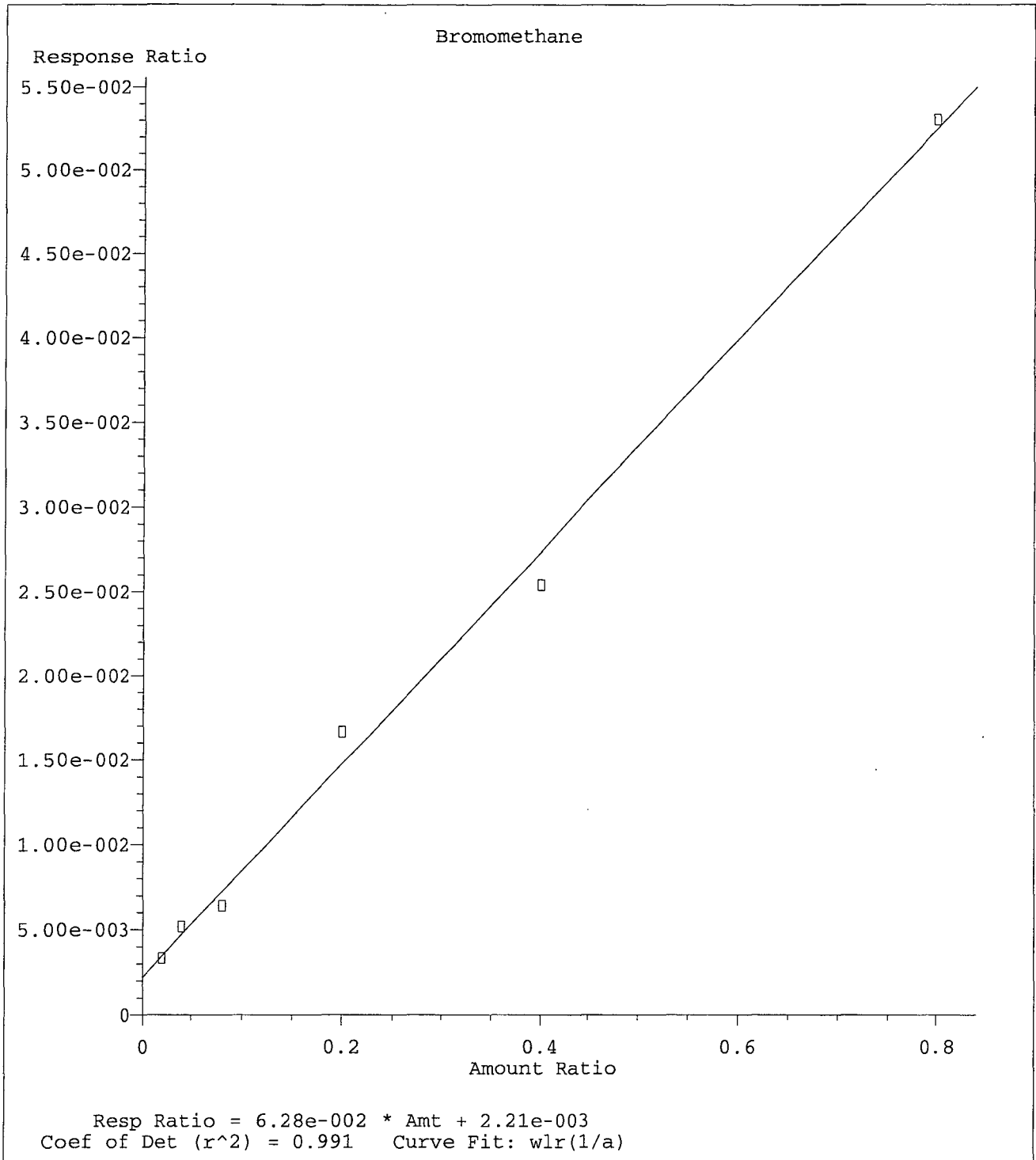




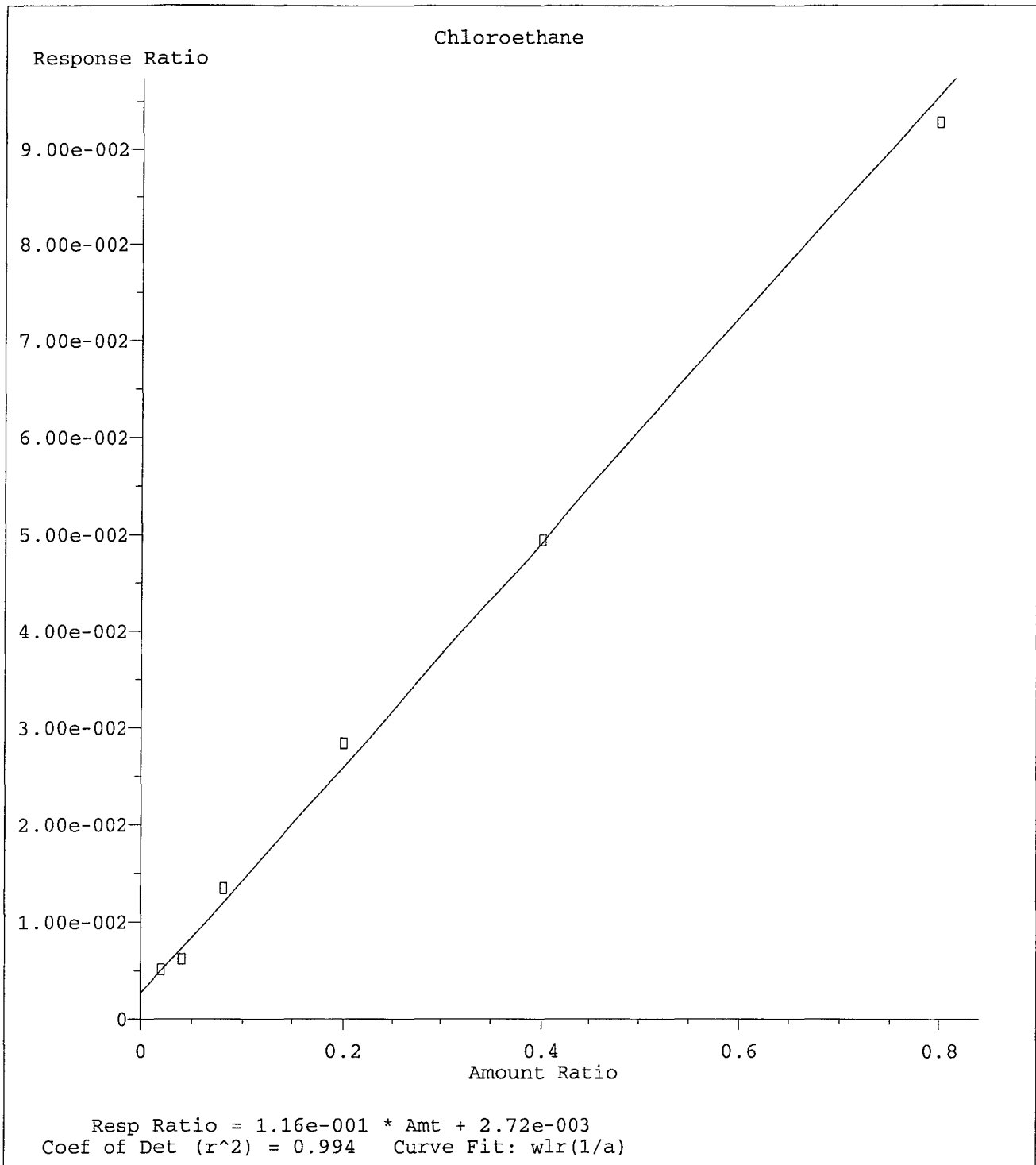
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Calibration Table Last Updated: Mon Jul 29 09:43:56 2019



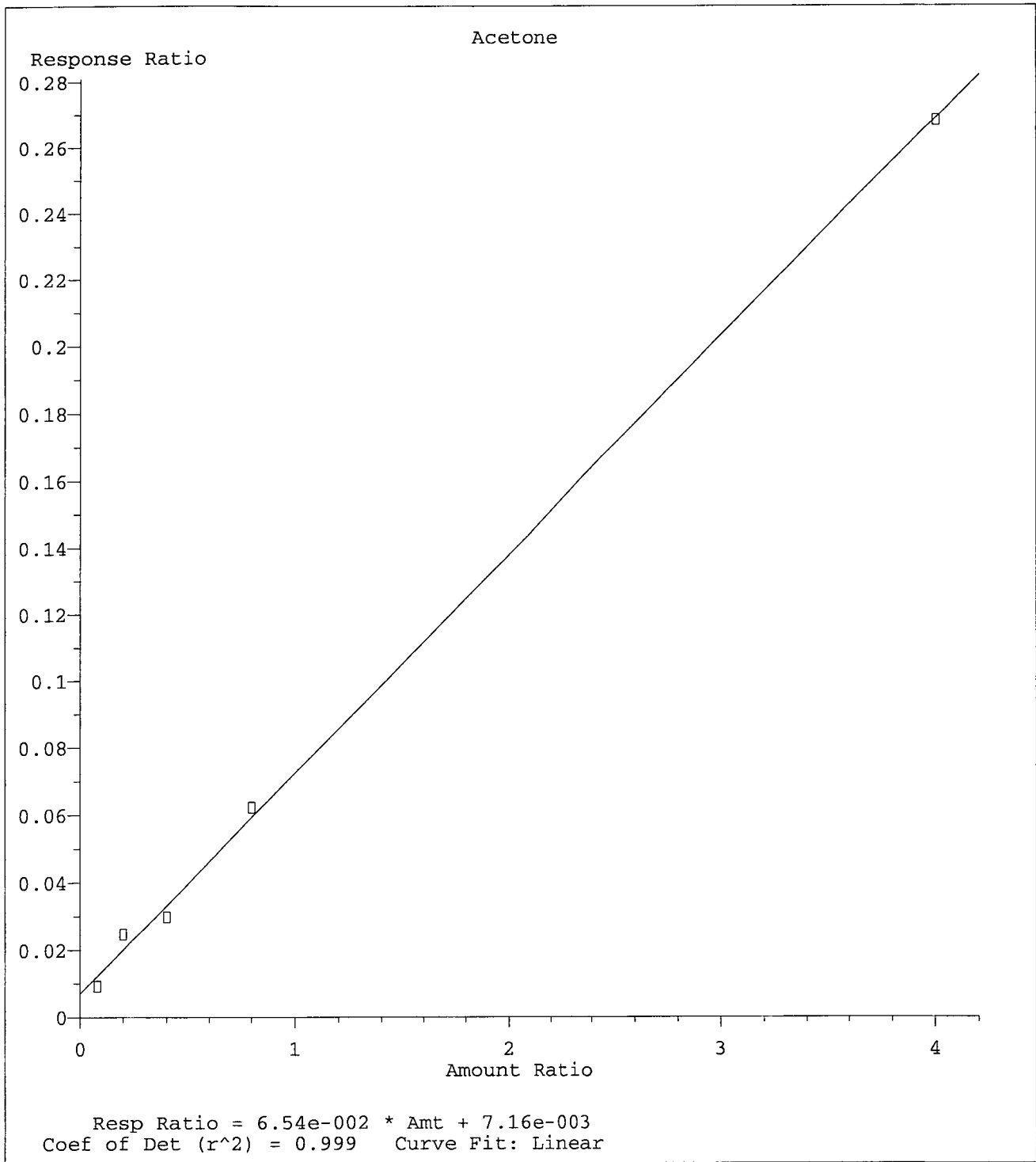
Method Name: M:\THOR\DATA\T190726\T0726W.M
Calibration Table Last Updated: Mon Jul 29 09:43:56 2019



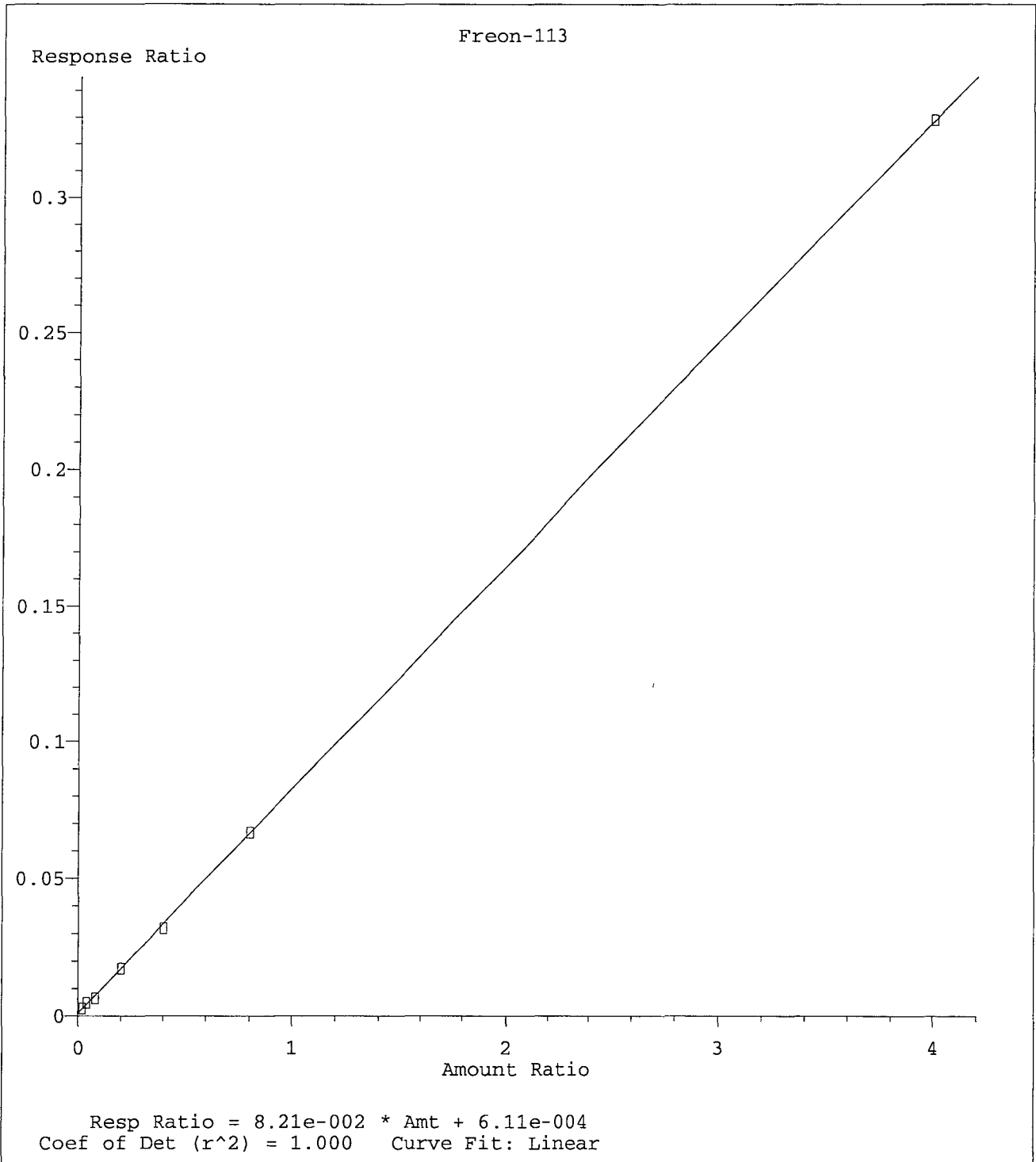
Method Name: M:\THOR\DATA\T190726\T0726W.M
 Calibration Table Last Updated: Mon Jul 29 09:43:56 2019



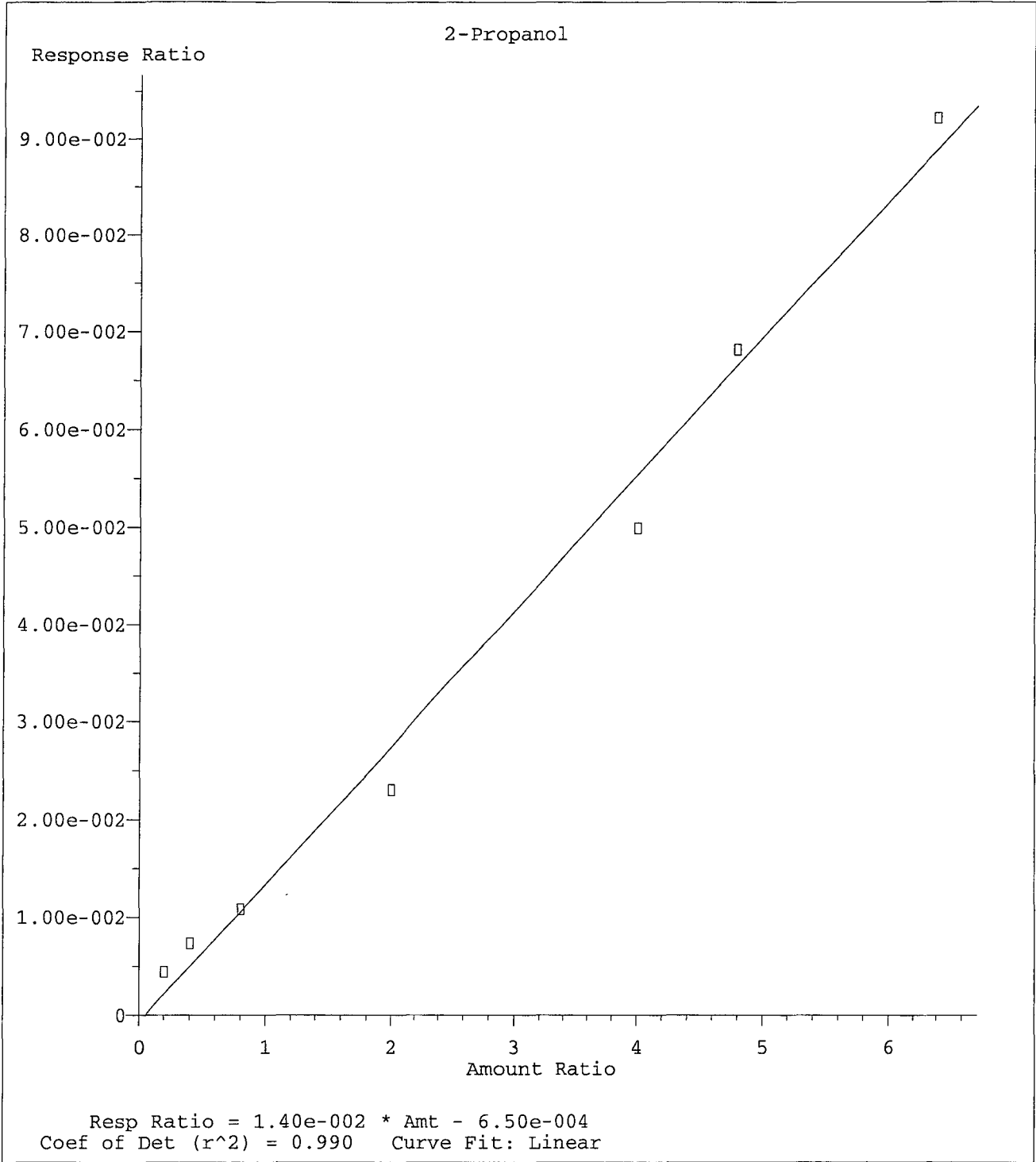
Method Name: M:\THOR\DATA\T190726\T0726W.M
Calibration Table Last Updated: Mon Jul 29 09:43:56 2019



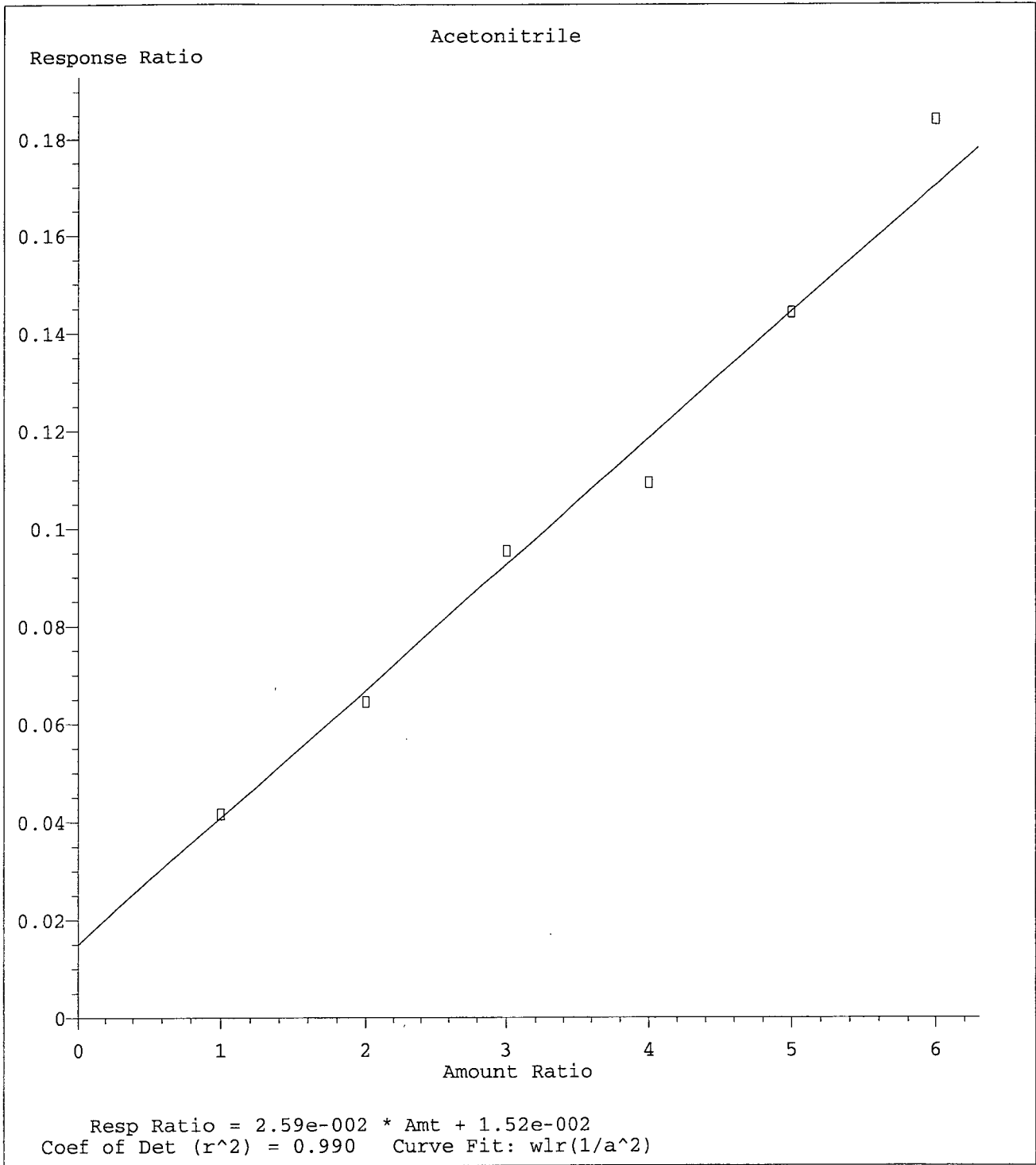
Method Name: M:\THOR\DATA\T190726\T0726W.M
Calibration Table Last Updated: Mon Jul 29 09:43:56 2019



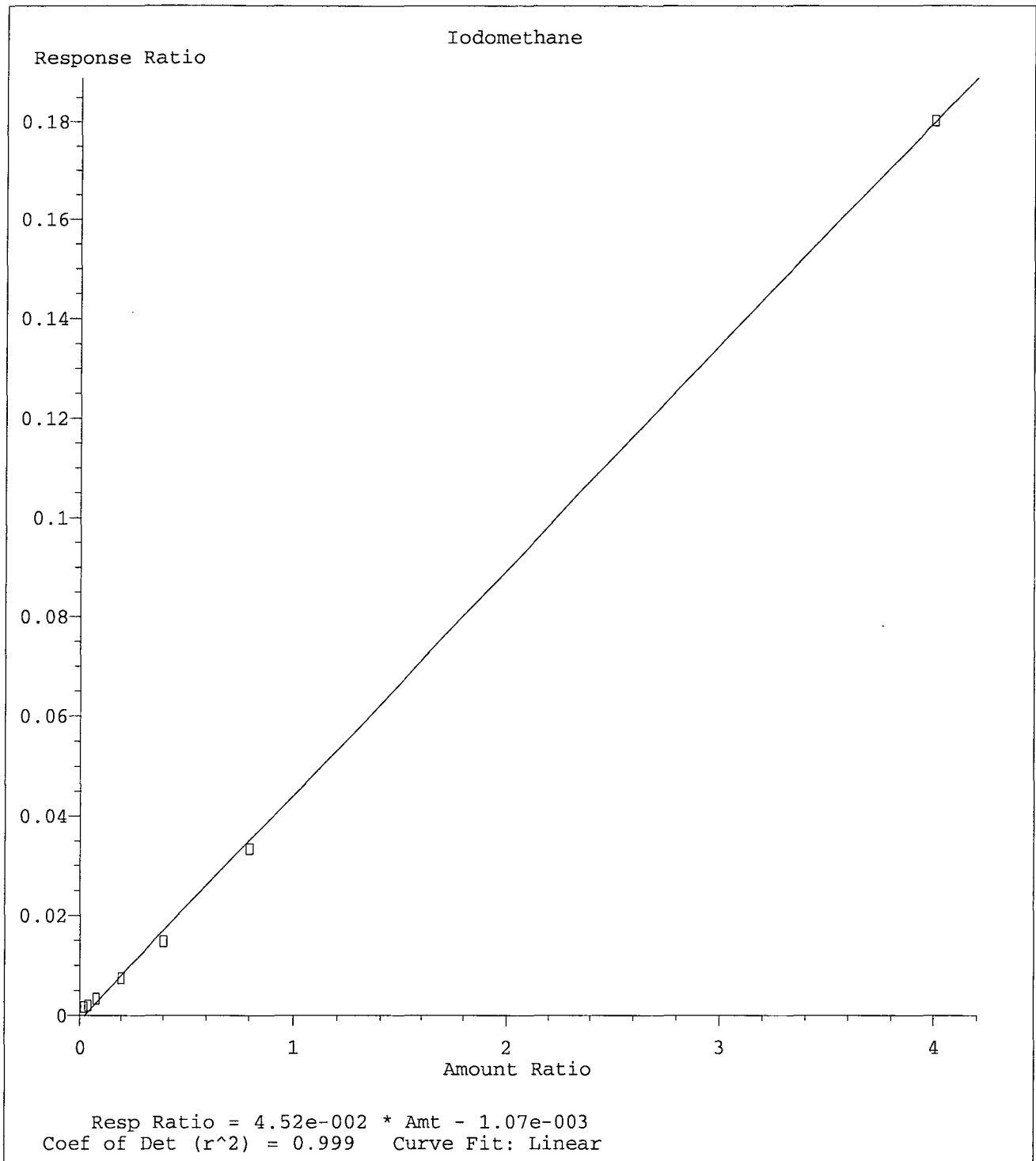
Method Name: M:\THOR\DATA\T190726\T0726W.M
Calibration Table Last Updated: Mon Jul 29 09:43:56 2019



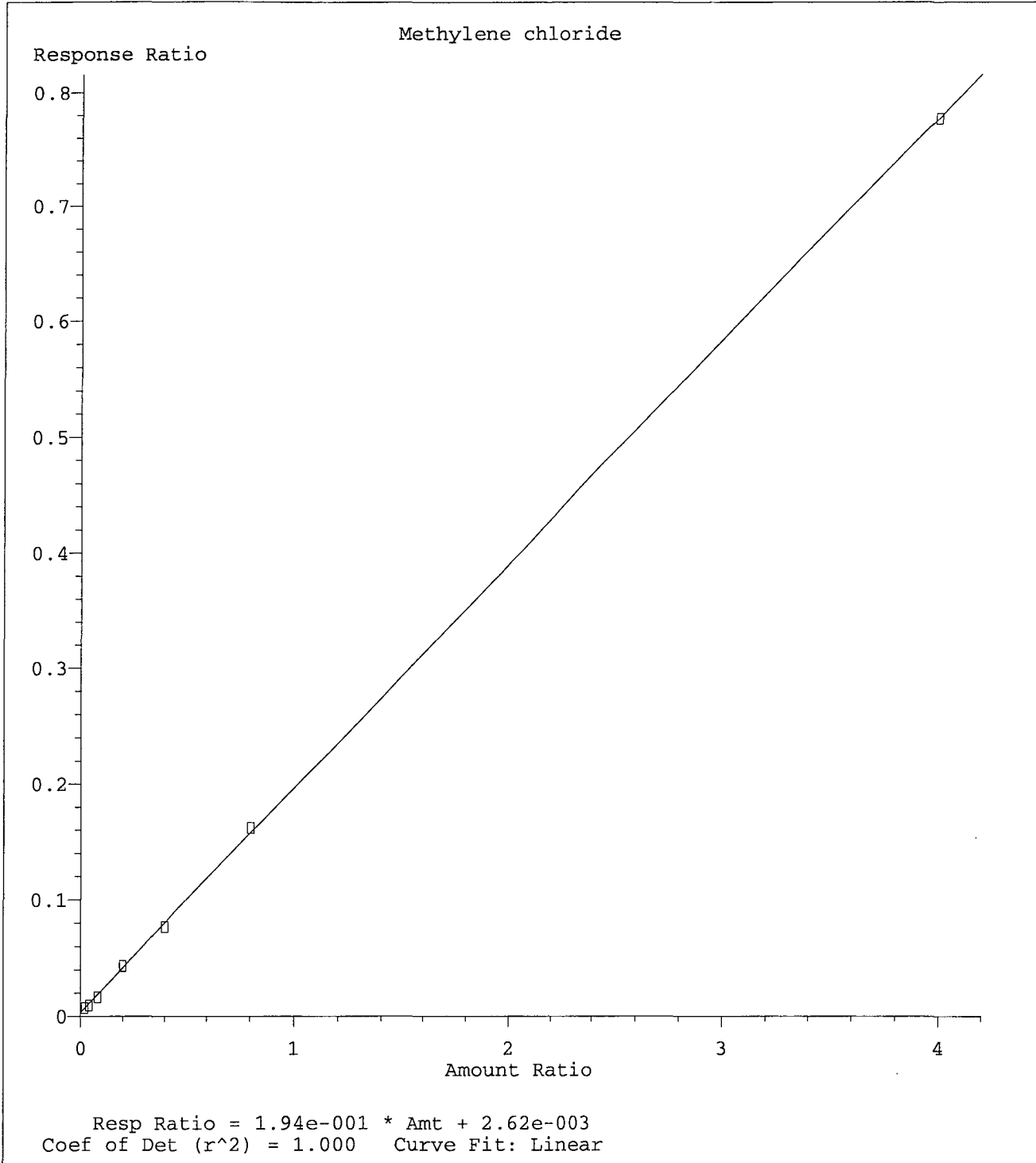
Method Name: M:\THOR\DATA\T190726\T0726W.M
 Calibration Table Last Updated: Mon Jul 29 09:43:56 2019



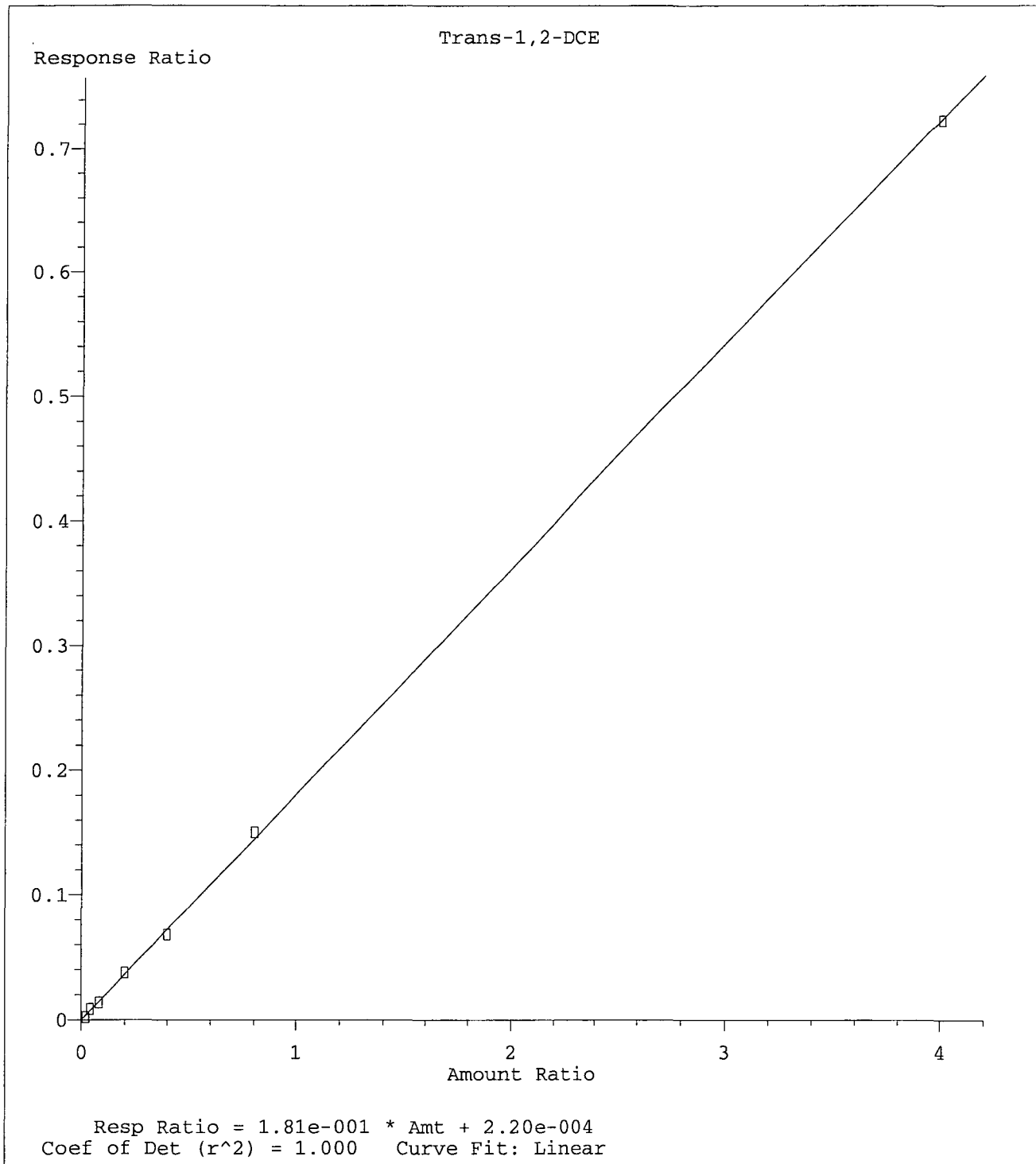
Method Name: M:\THOR\DATA\T190726\T0726W.M
Calibration Table Last Updated: Mon Jul 29 09:43:56 2019



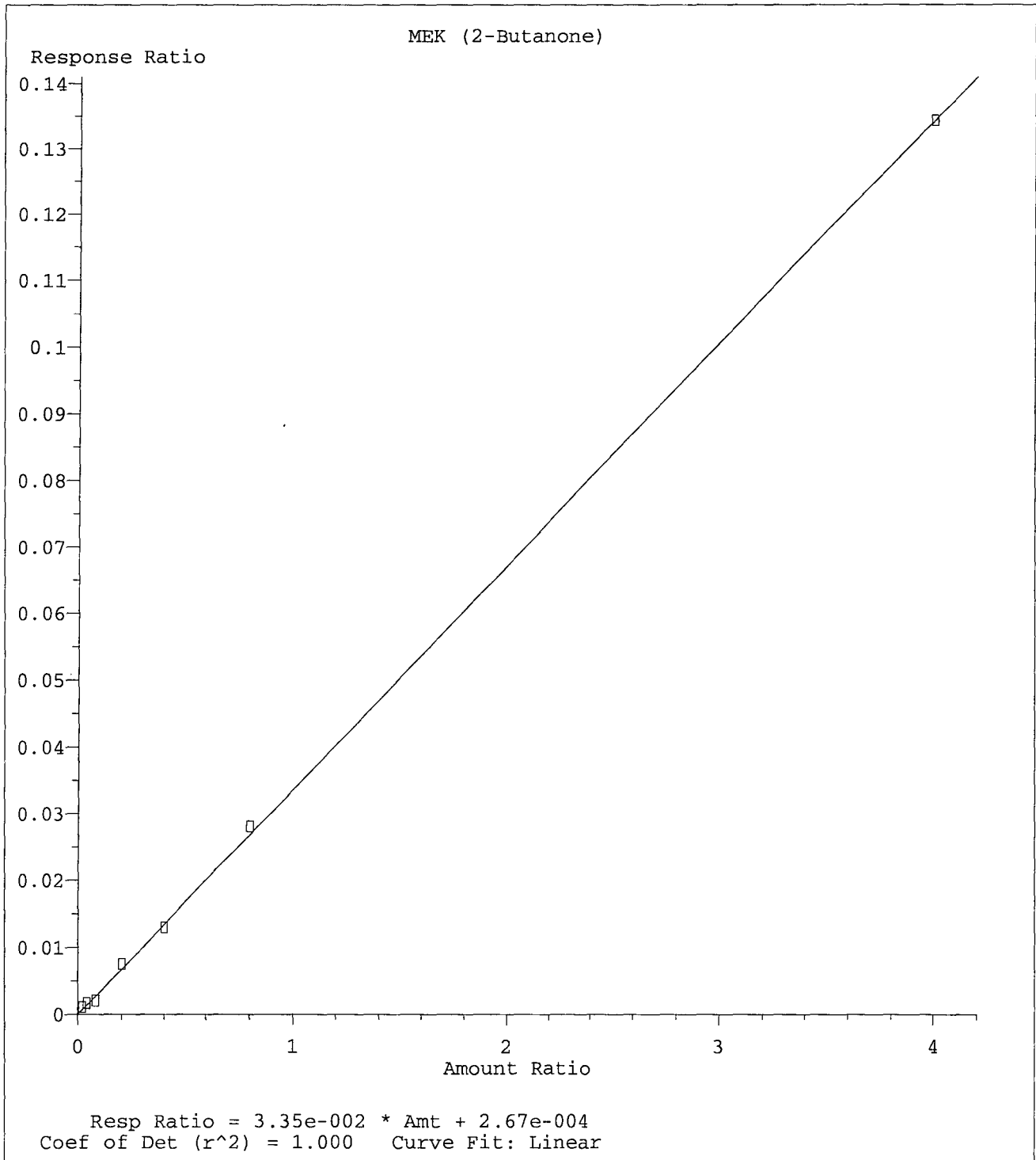
Method Name: M:\THOR\DATA\T190726\T0726W.M
Calibration Table Last Updated: Mon Jul 29 09:43:56 2019



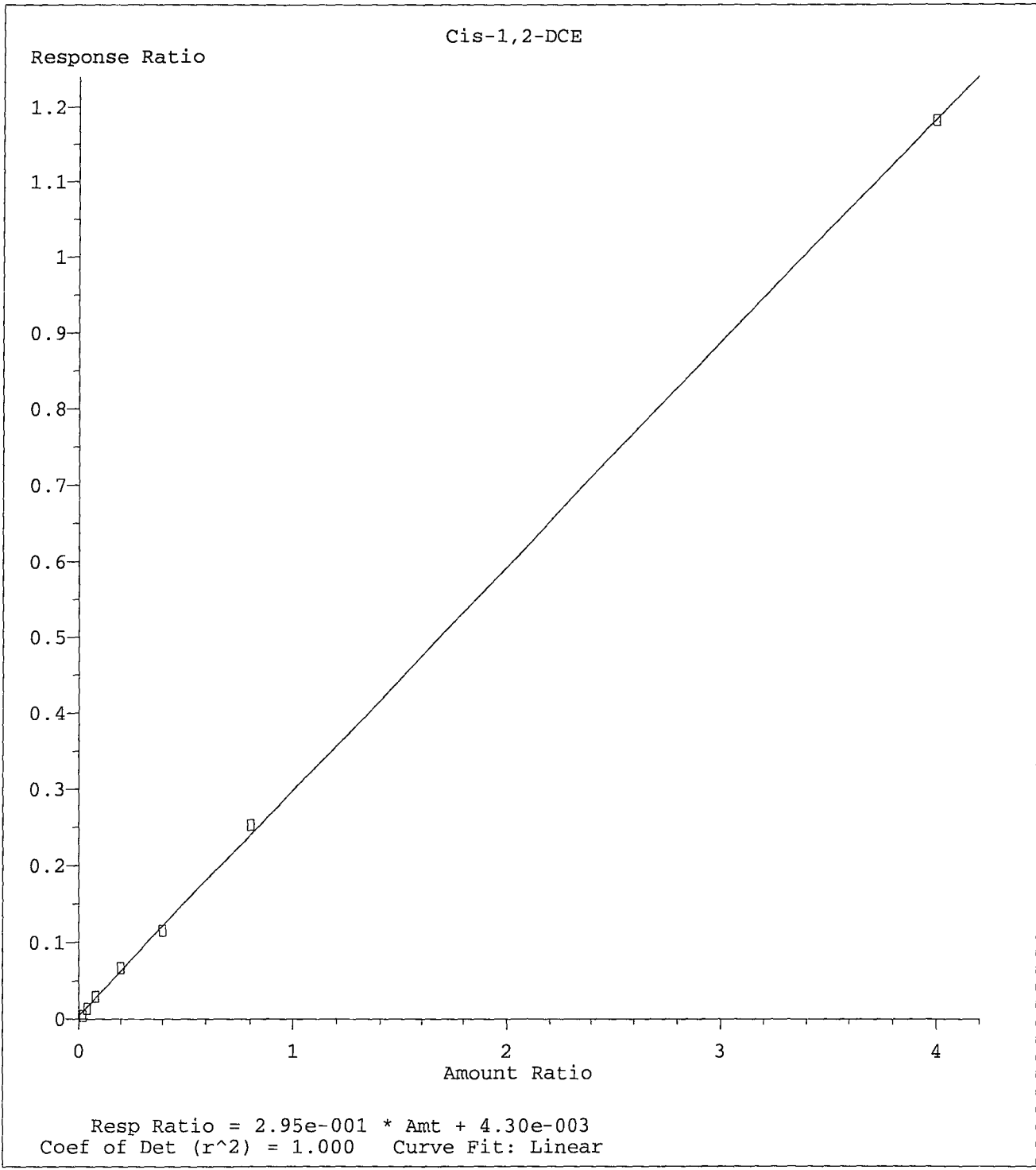
Method Name: M:\THOR\DATA\T190726\T0726W.M
Calibration Table Last Updated: Mon Jul 29 09:43:56 2019



Method Name: M:\THOR\DATA\T190726\T0726W.M
Calibration Table Last Updated: Mon Jul 29 09:43:56 2019

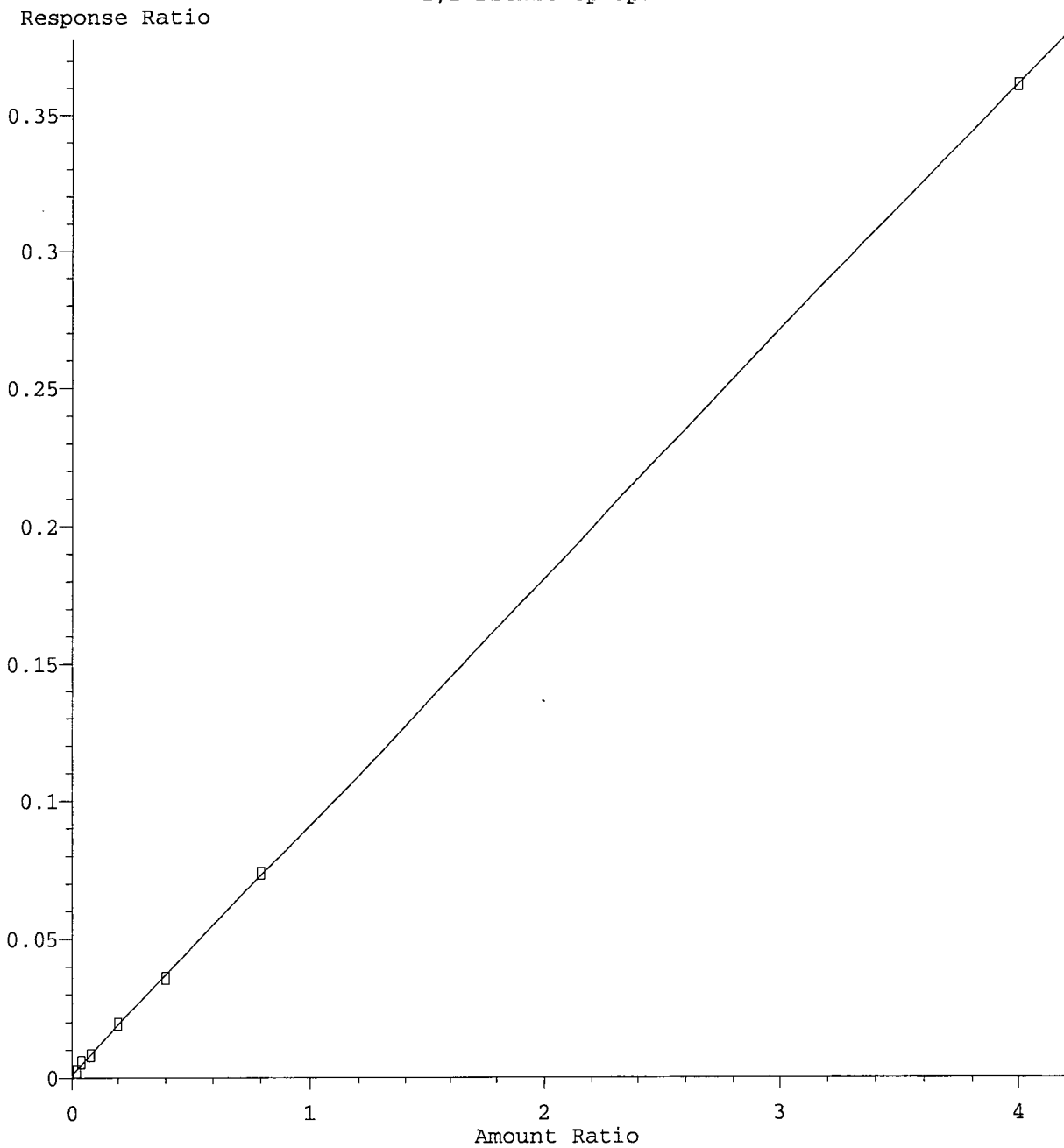


Method Name: M:\THOR\DATA\T190726\T0726W.M
Calibration Table Last Updated: Mon Jul 29 09:43:56 2019



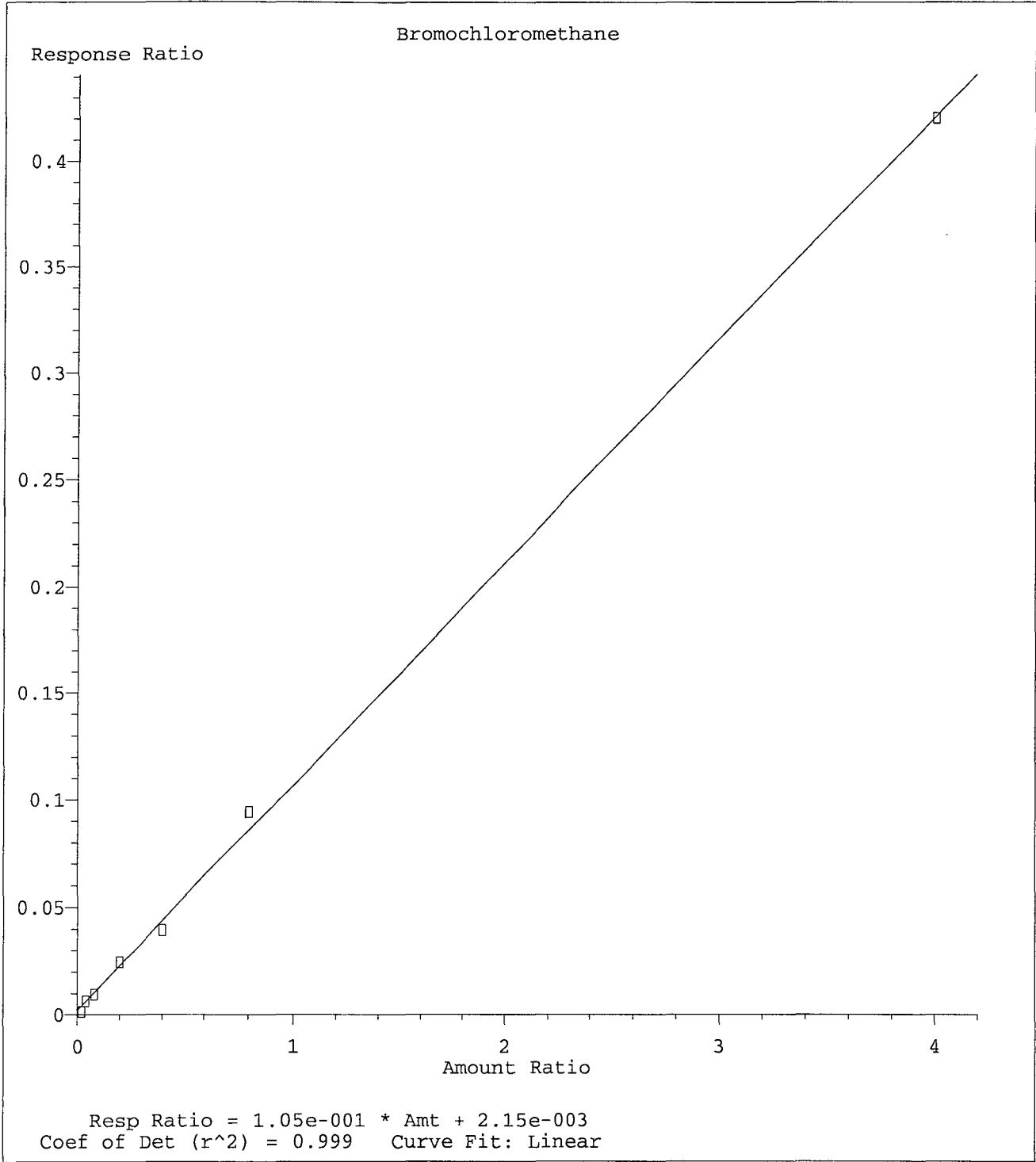
Method Name: M:\THOR\DATA\T190726\T0726W.M
Calibration Table Last Updated: Mon Jul 29 09:43:56 2019

2,2-Dichloropropane

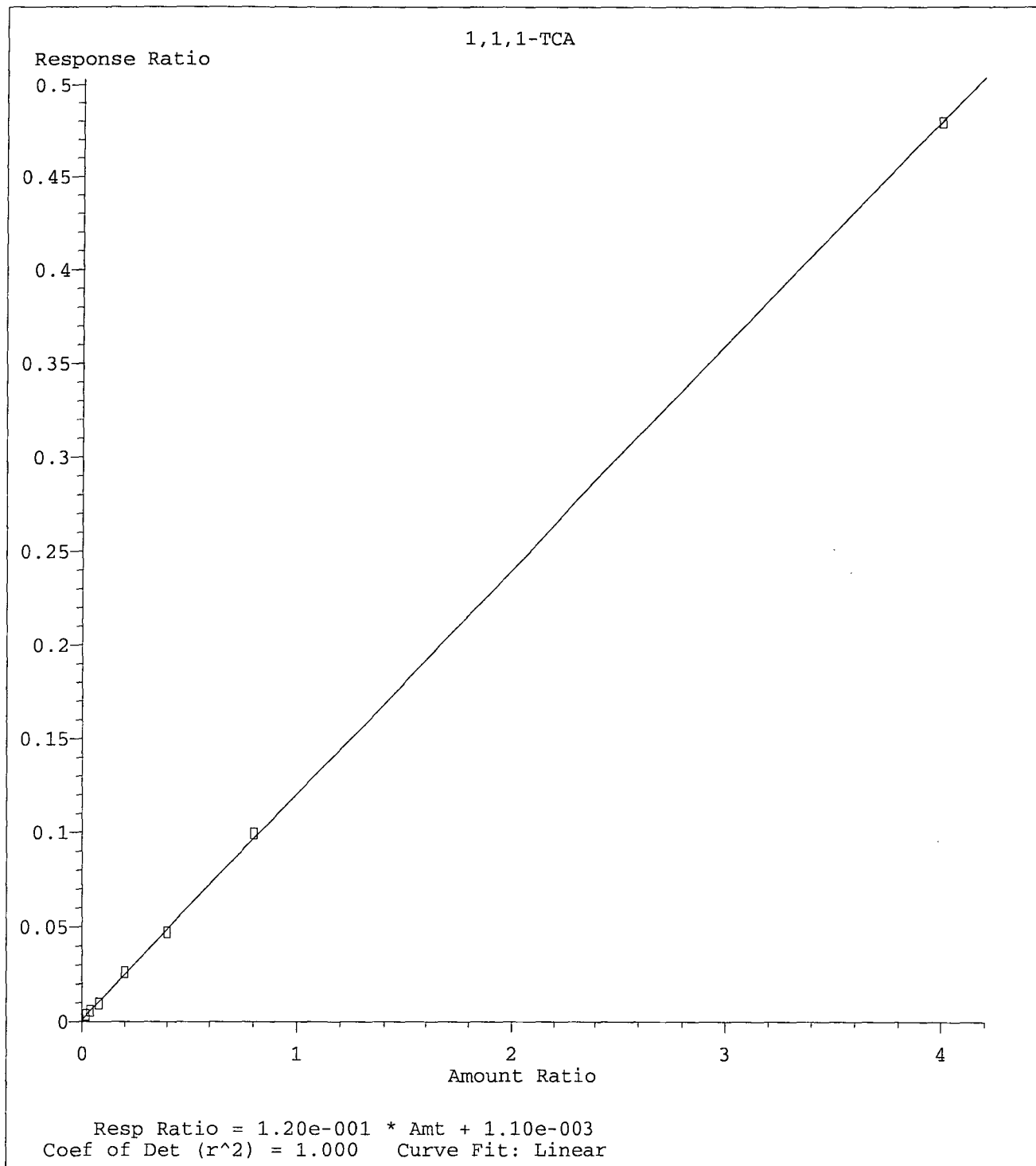


Resp Ratio = $9.00e-002 * Amt + 1.03e-003$
Coef of Det (r^2) = 1.000 Curve Fit: Linear

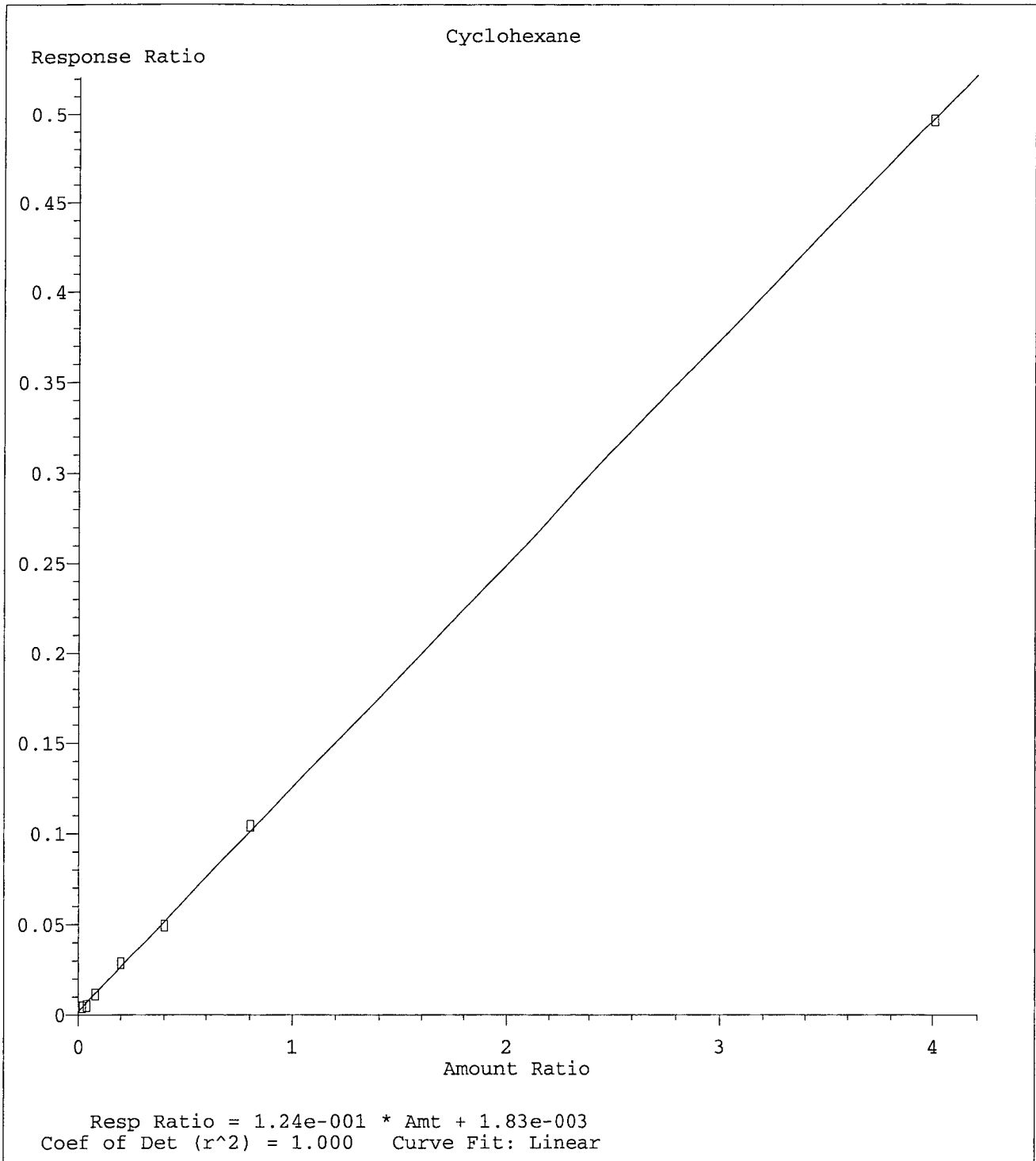
Method Name: M:\THOR\DATA\T190726\T0726W.M
Calibration Table Last Updated: Mon Jul 29 09:43:56 2019



Method Name: M:\THOR\DATA\T190726\T0726W.M
Calibration Table Last Updated: Mon Jul 29 09:43:56 2019

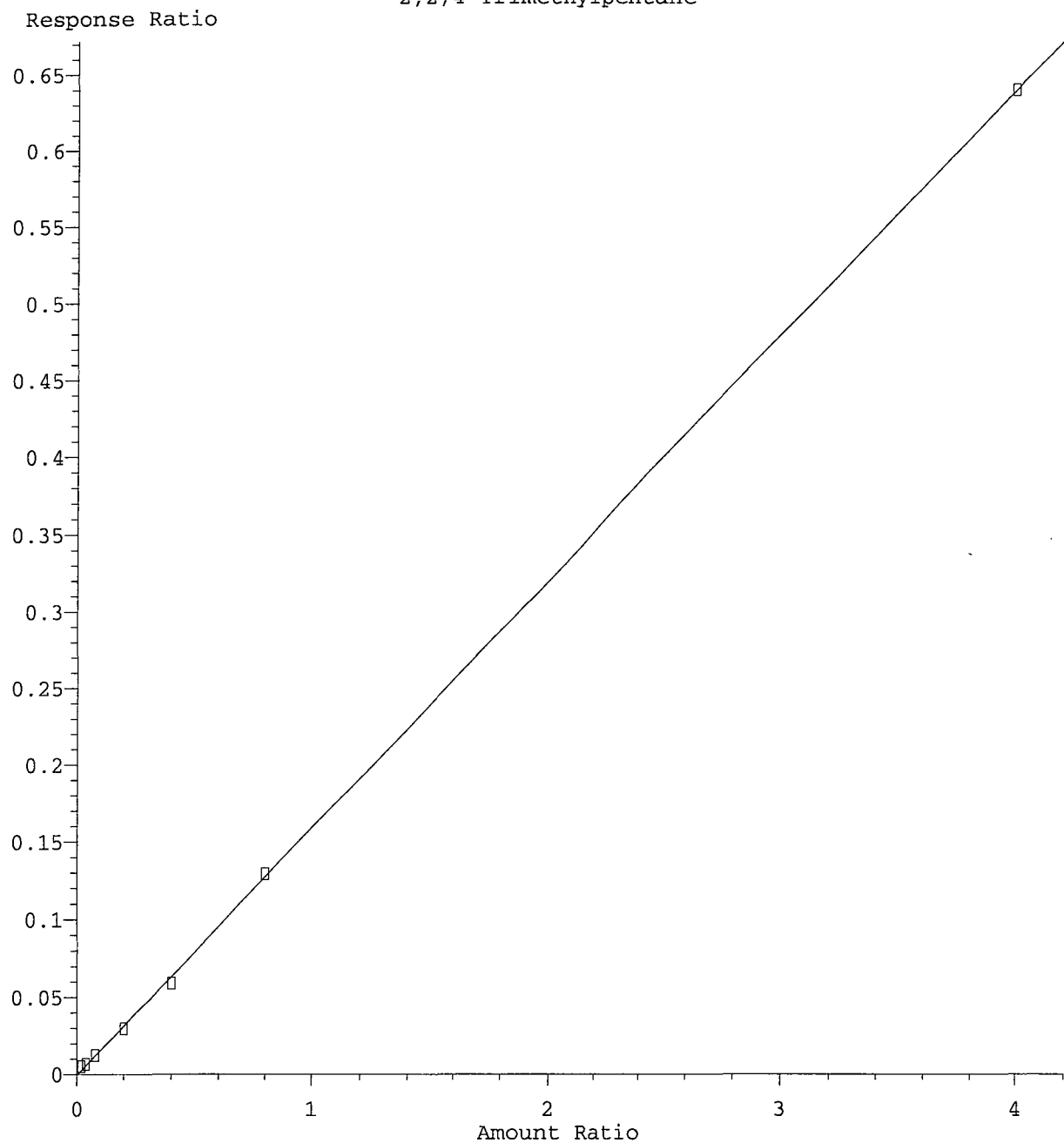


Method Name: M:\THOR\DATA\T190726\T0726W.M
Calibration Table Last Updated: Mon Jul 29 09:43:56 2019



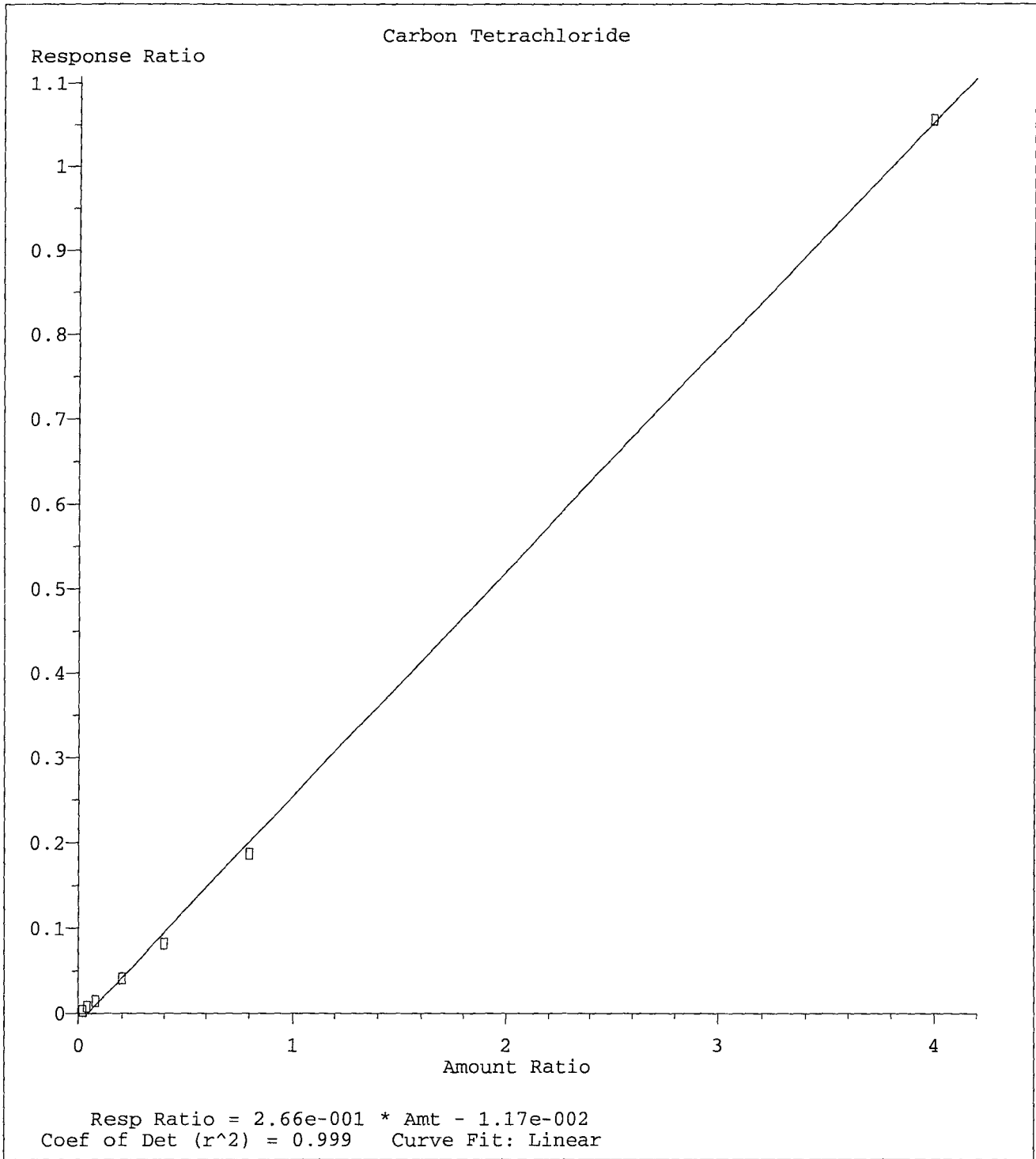
Method Name: M:\THOR\DATA\T190726\T0726W.M
Calibration Table Last Updated: Mon Jul 29 09:43:56 2019

2,2,4-Trimethylpentane

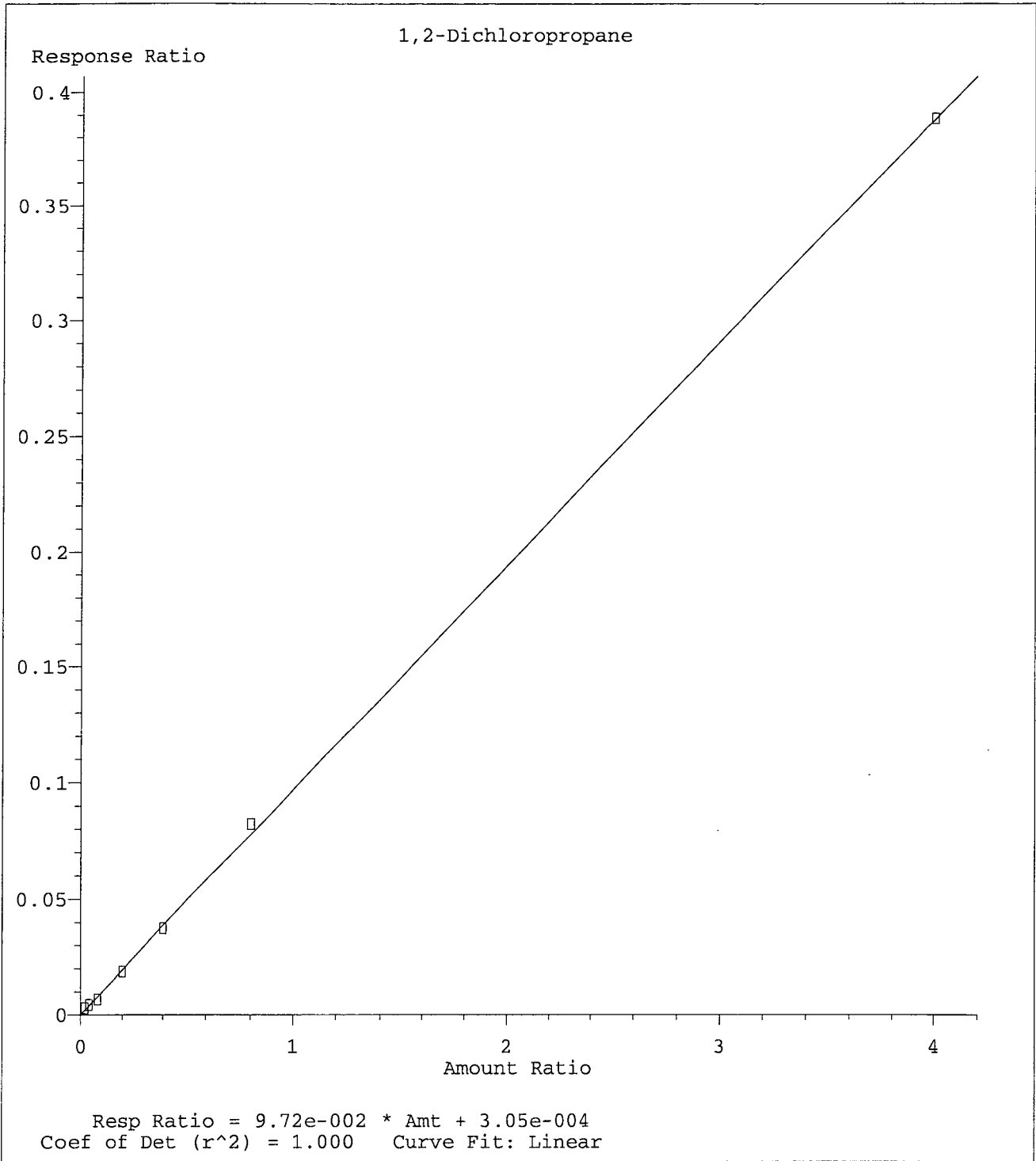


Resp Ratio = 1.60e-001 * Amt - 7.71e-004
Coef of Det (r^2) = 1.000 Curve Fit: Linear

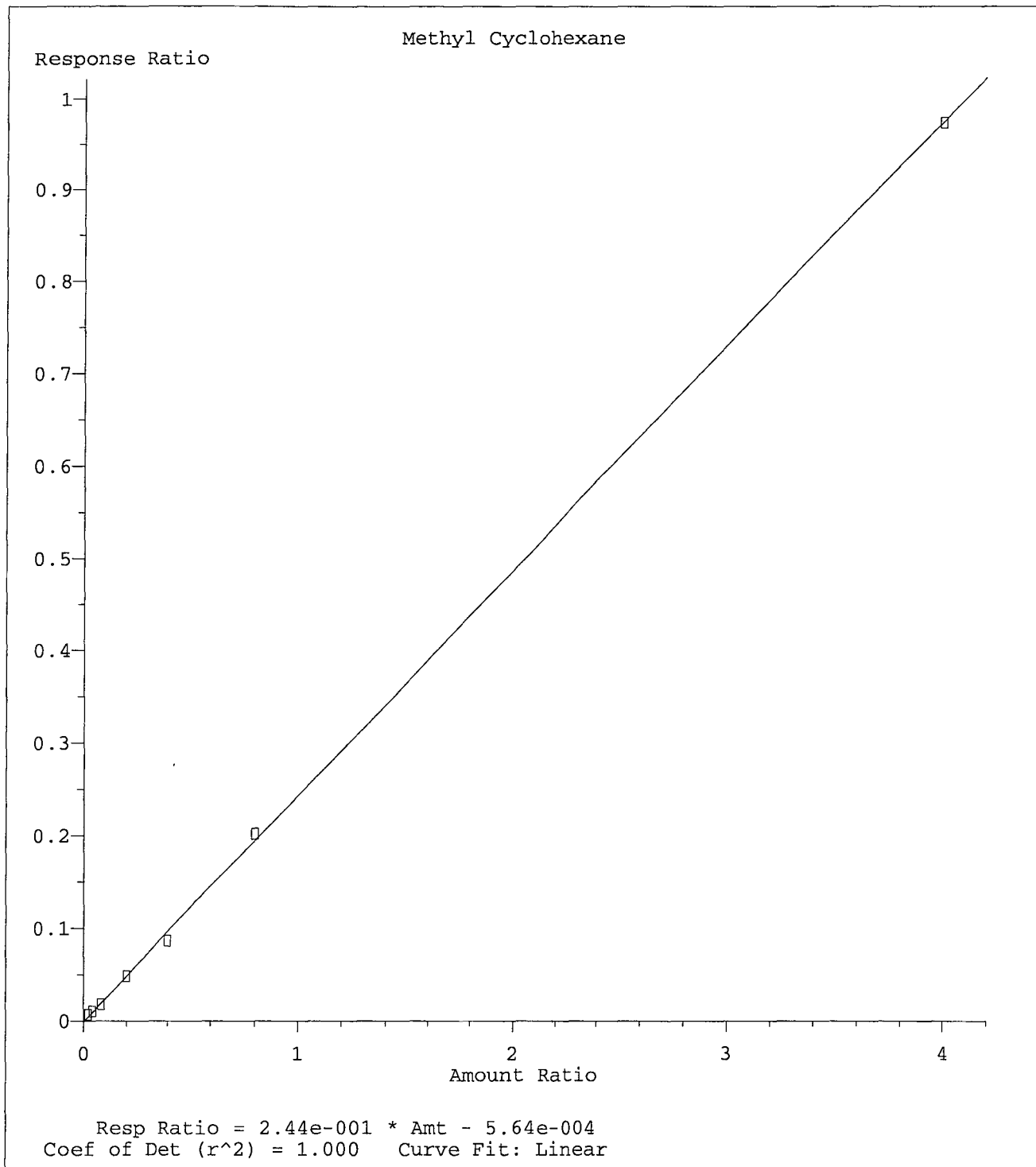
Method Name: M:\THOR\DATA\T190726\T0726W.M
Calibration Table Last Updated: Mon Jul 29 09:43:56 2019



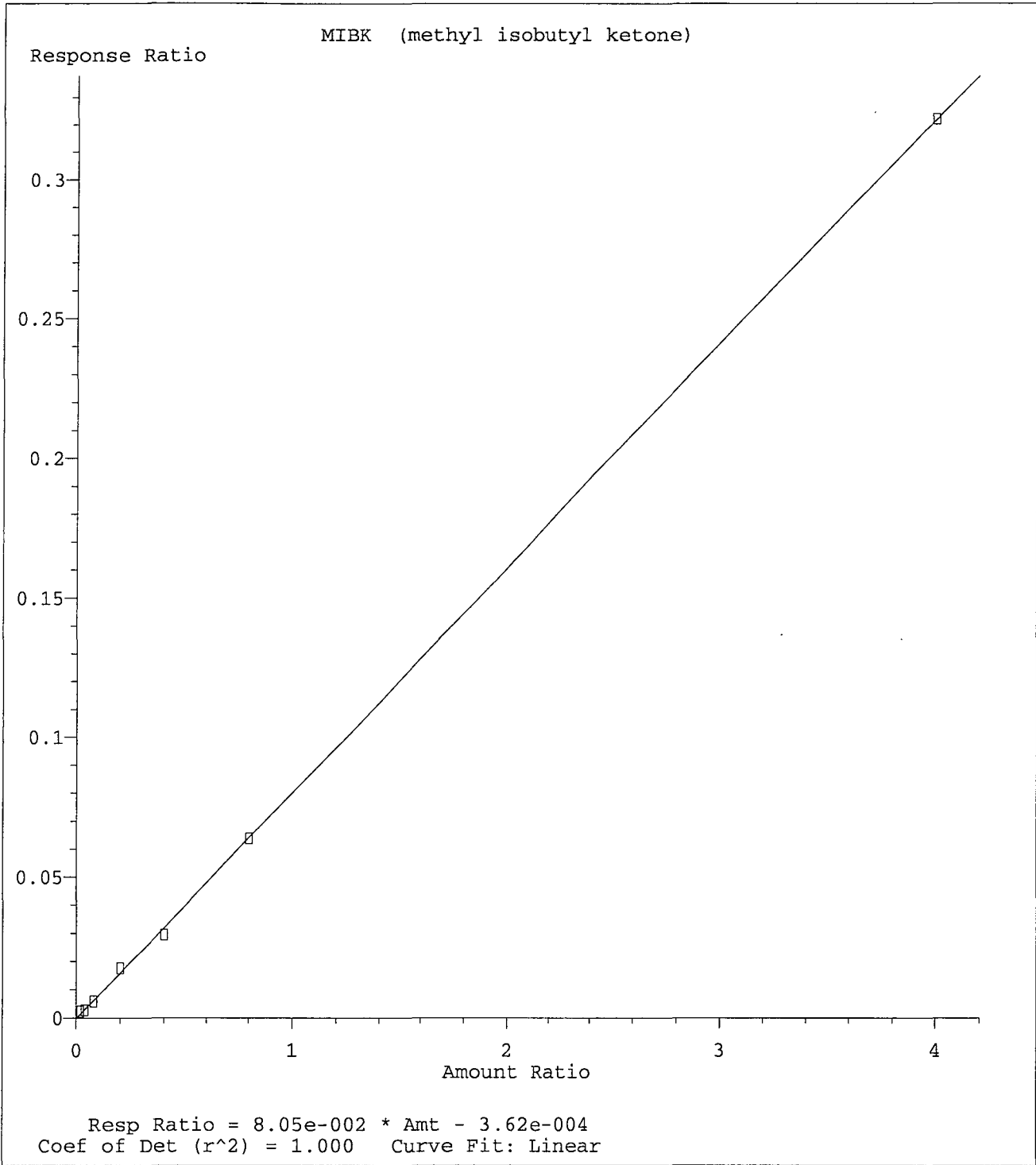
Method Name: M:\THOR\DATA\T190726\T0726W.M
Calibration Table Last Updated: Mon Jul 29 09:43:56 2019



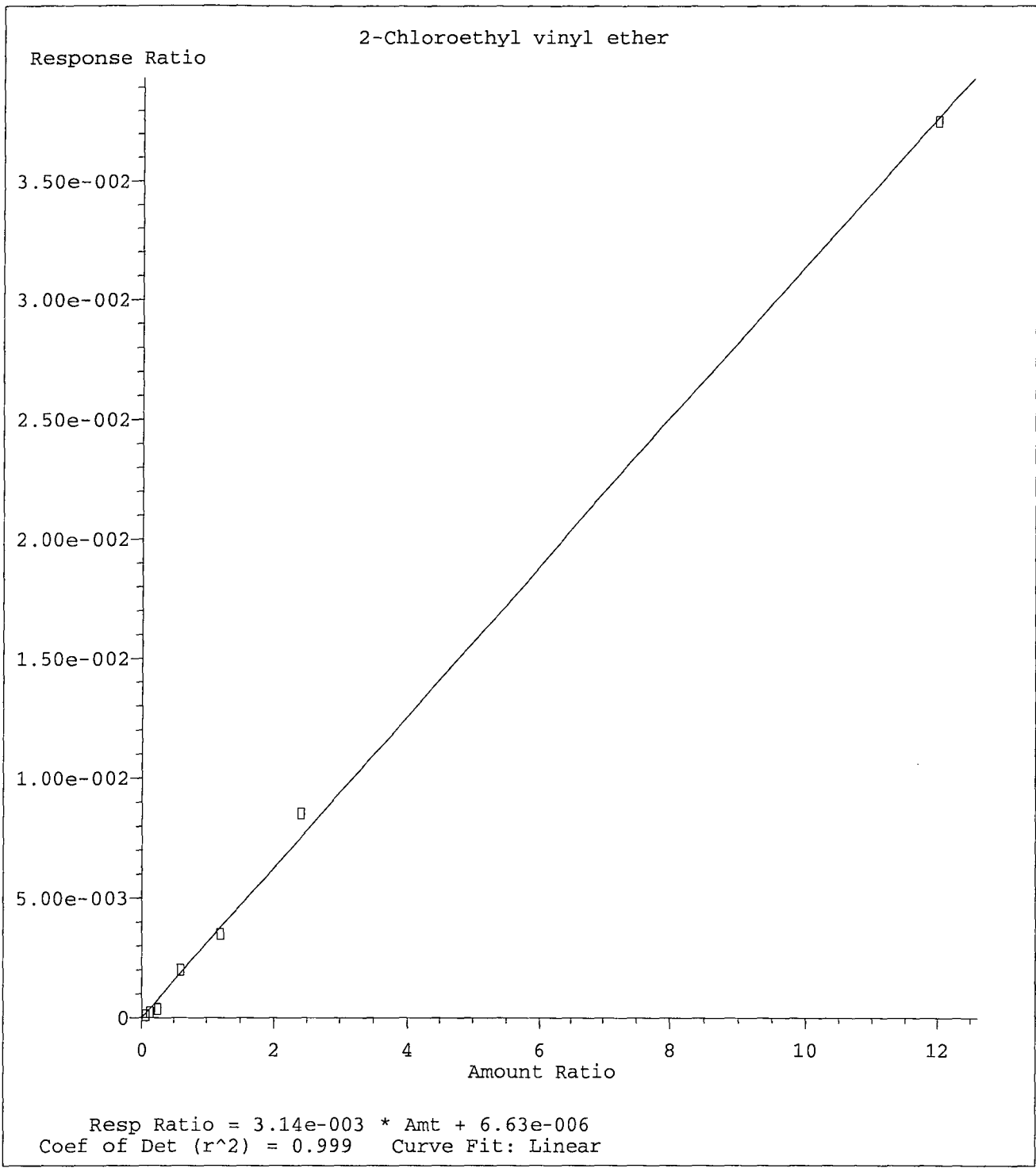
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Calibration Table Last Updated: Mon Jul 29 09:43:56 2019



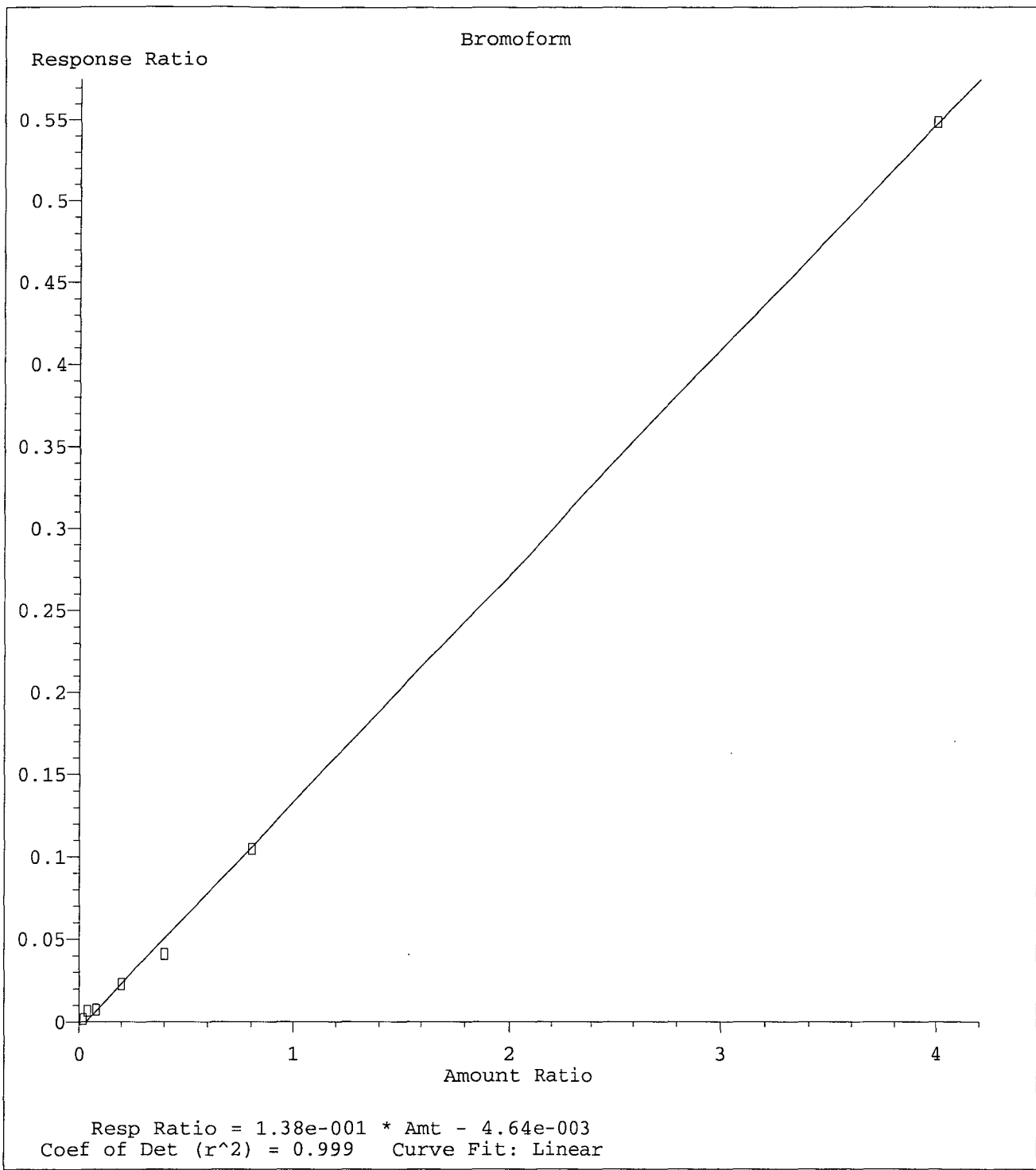
Method Name: M:\THOR\DATA\T190726\T0726W.M
Calibration Table Last Updated: Mon Jul 29 09:43:56 2019



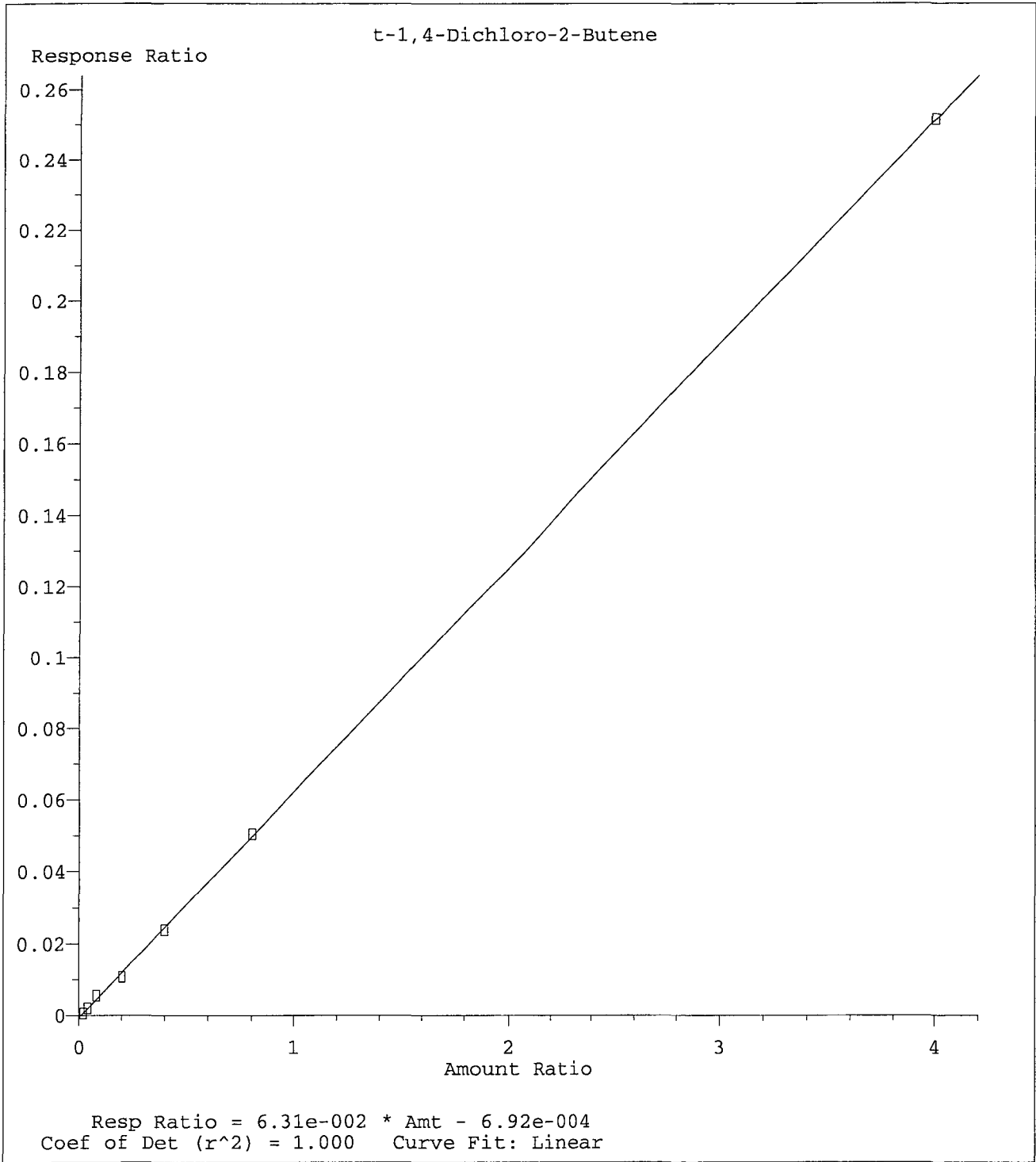
Method Name: M:\THOR\DATA\T190726\T0726W.M
Calibration Table Last Updated: Mon Jul 29 09:43:56 2019



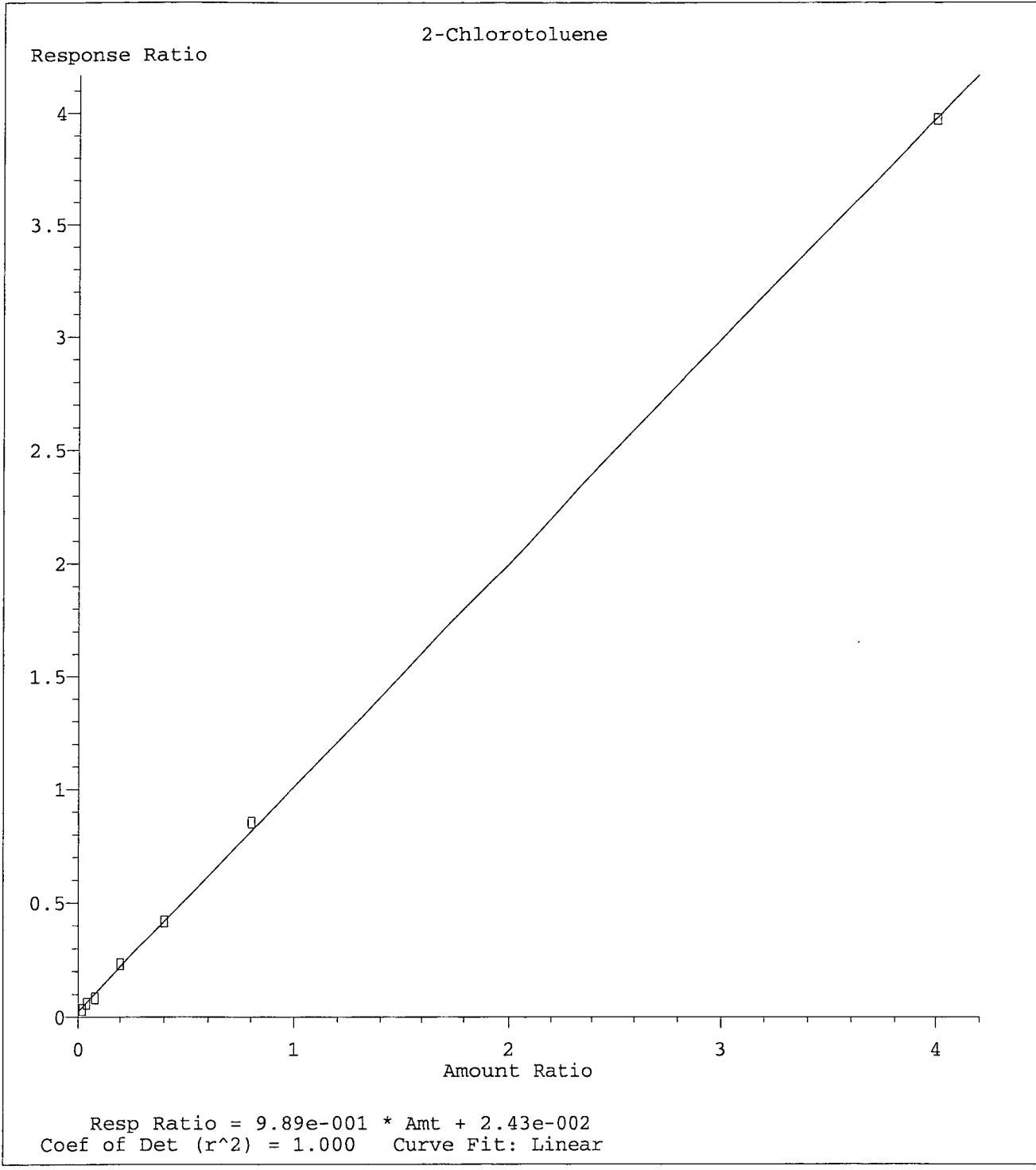
Method Name: M:\THOR\DATA\T190726\T0726W.M
Calibration Table Last Updated: Mon Jul 29 09:43:56 2019



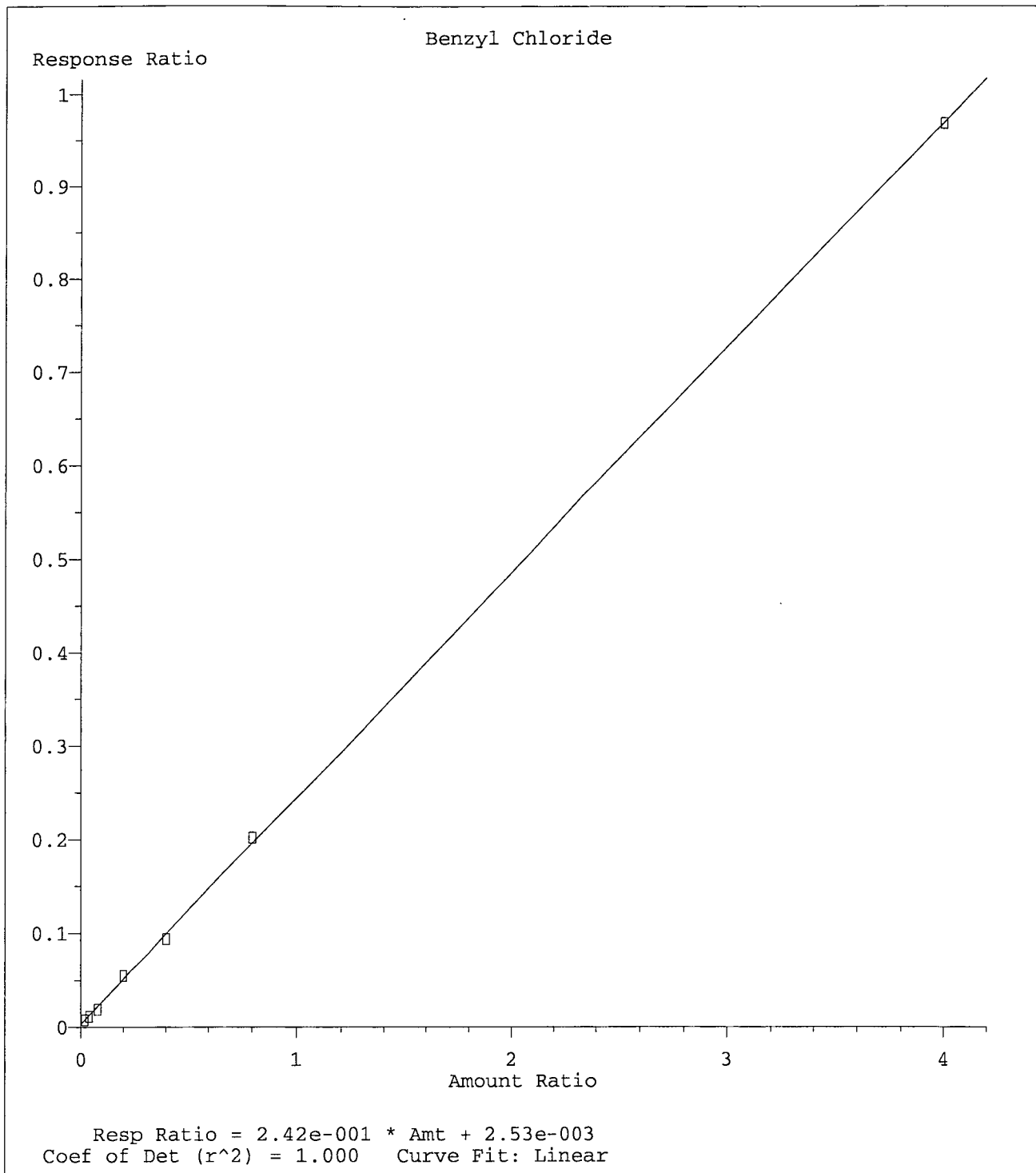
Method Name: M:\THOR\DATA\T190726\T0726W.M
Calibration Table Last Updated: Mon Jul 29 09:43:56 2019



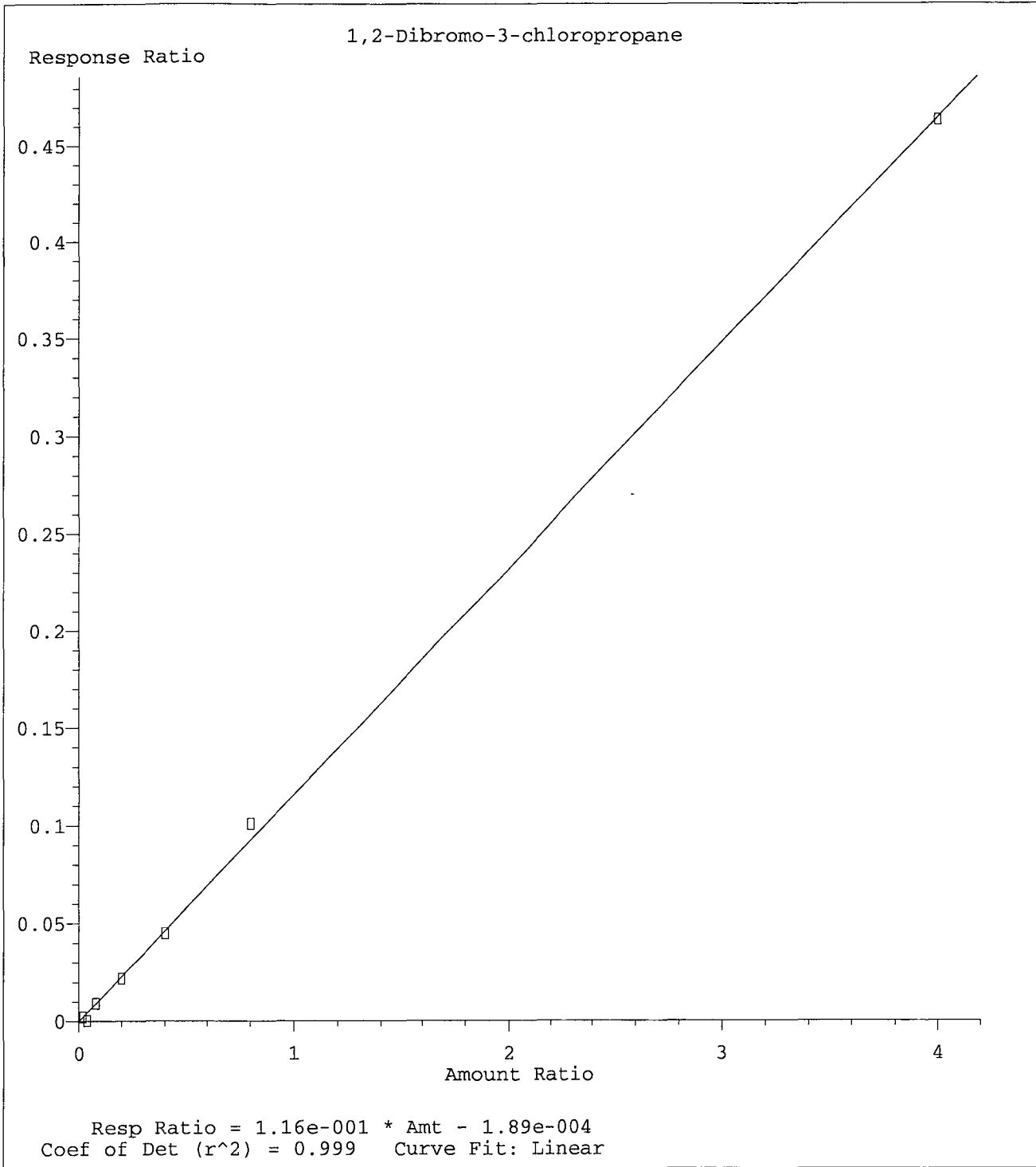
Method Name: M:\THOR\DATA\T190726\T0726W.M
Calibration Table Last Updated: Mon Jul 29 09:43:56 2019



Method Name: M:\THOR\DATA\T190726\T0726W.M
Calibration Table Last Updated: Mon Jul 29 09:43:56 2019



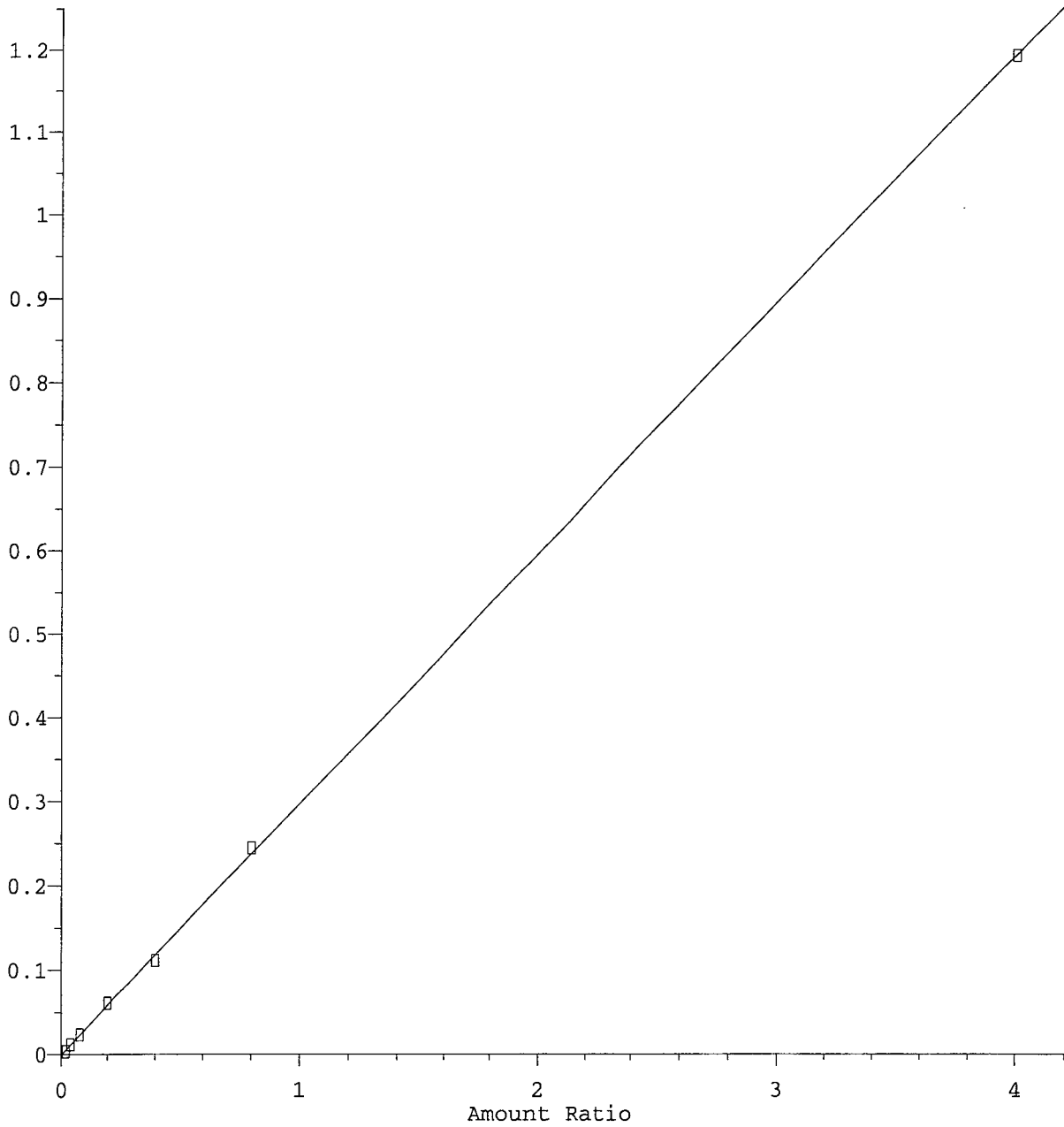
Method Name: M:\THOR\DATA\T190726\T0726W.M
Calibration Table Last Updated: Mon Jul 29 09:43:56 2019



Method Name: M:\THOR\DATA\T190726\T0726W.M
Calibration Table Last Updated: Mon Jul 29 09:43:56 2019

Hexachlorobutadiene

Response Ratio



Resp Ratio = 2.98e-001 * Amt - 7.97e-004
Coef of Det (r^2) = 1.000 Curve Fit: Linear

Method Name: M:\THOR\DATA\T190726\T0726W.M
Calibration Table Last Updated: Mon Jul 29 09:43:56 2019

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/26/19
Instrument: Thor
Initial Cal. Date: 07/26/19
Data File: 0726T16.D

		Compound	MEAN	CCRF	%D	%Drift	
1	TM	Chlorotrifluoroethene	0.0942	0.0970	3.0	TM	
2	TML	Dichlorodifluoromethane	0.0908	0.0645	29	TML	13
3	TM	Freon 114	0.1734	0.1690	2.5	TM	
4	TM**L	Chloromethane	0.5592	0.4050	28	TM**L	1.7
5	TM*	Vinyl chloride	0.2184	0.2204	0.91	TM*	
6	TM	2-Chloro-1,1,1-trifluoroethane	0.0309	0.0317	2.5	TM	
7	TML	Bromomethane	0.0983	0.0738	25	TML	8.8
8	TML	Chloroethane	0.1599	0.1224	23	TML	0.59
9	TM	Dichlorofluoromethane	0.2992	0.3023	1.1	TM	
10	TM	Trichlorofluoromethane	0.3139	0.2950	6.0	TM	
11	TM	Diethyl ether	0.0000	0.0024	0.00	TM	
12	TM	Acrolein	0.0110	0.0125	13	TM	
13	TML	Acetone	0.0914	0.0952	4.2	TML	18
14	TML	Freon-113	0.0952	0.0819	14	TML	2.0
15	TM*	1,1-DCE	0.2662	0.2642	0.74	TM*	
16	TML	2-Propanol	0.0152	0.0137	9.4	TML	0.56
17	TML	Acetonitrile	0.0321	0.0287	11	TML	0.94
18	TM	t-Butanol	0.0114	0.0106	6.7	TM	
19	TM	Methyl Acetate	0.1716	0.1740	1.4	TM	
20	TML	Iodomethane	0.0480	0.0430	10	TML	1.1
21	TM	Acrylonitrile	0.0680	0.0723	6.3	TM	
22	TML	Methylene chloride	0.2284	0.1937	15	TML	3.5
23	TM	Carbon disulfide	0.4154	0.4237	2.0	TM	
24	TM	Methyl t-butyl ether (MtBE)	0.5122	0.4769	6.9	TM	
25	TML	Trans-1,2-DCE	0.1752	0.1907	8.8	TML	5.2
26	TM	Hexane	0.0000	0.0347	0.00	TM	
27	TM	Diisopropyl Ether	0.1967	0.1930	1.9	TM	
28	TM**	2,2-Dichloro-1,1,1-trifluoroethane	0.0000	0.0005	0.00	TM**	
29	TM**	1,1-DCA	0.3473	0.3289	5.3	TM**	
30	TM	Vinyl Acetate	0.1446	0.1427	1.3	TM	
31	TM	Ethyl tert Butyl Ether	0.3686	0.3686	0.00	TM	
32	TML	MEK (2-Butanone)	0.0371	0.0361	2.6	TML	5.5
33	TML	Cis-1,2-DCE	0.3051	0.3111	2.0	TML	1.9
34	TML	2,2-Dichloropropane	0.1039	0.0882	15	TML	4.8
35	TM	2-Methylpentane	0.0000	0.0009	0.00	TM	
36	TM	3-Methylpentane	0.0000	0.1052	0.00	TM	
37	TM*	Chloroform	0.3665	0.3481	5.0	TM*	
38	TML	Bromochloromethane	0.1137	0.1209	6.4	TML	10
39	TML	1,1,1-TCA	0.1329	0.1140	14	TML	7.1
40	TML	Cyclohexane	0.1420	0.1279	9.9	TML	0.40

Average

7.3

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 07/26/19
Instrument: Thor
Cal. Date: 07/26/19
Data File: 0726T16.D

		Compound	MEAN	CCRF	%D	%Drift	
41	TM	1,1-Dichloropropene	0.2517	0.2432	3.4	TM	
42	TML	2,2,4-Trimethylpentane	0.1698	0.1470	13	TML	7.0
43	TML	Carbon Tetrachloride	0.2053	0.2216	8.0	TML	5.6
44	TM	Tert Amyl Methyl Ether	0.3460	0.3300	4.6	TM	
45	TM	Methylcyclopentane	0.0000	0.0213	0.00	TM	
46	TM	1,2-DCA	0.3029	0.2698	11	TM	
47	TM	Benzene	0.7507	0.7641	1.8	TM	
48	TM	TCE	0.2052	0.2161	5.3	TM	
49	TM	2-Pentanone	0.1477	0.1431	3.1	TM	
50	TM*L	1,2-Dichloropropane	0.1026	0.1017	0.86	TM*L	3.8
51	TM	Bromodichloromethane	0.1501	0.1440	4.1	TM	
52	TML	Methyl Cyclohexane	0.2552	0.2325	8.9	TML	4.0
53	TM	Dibromomethane	0.1411	0.1373	2.7	TM	
54	TML	MIBK (methyl isobutyl ketone)	0.0824	0.0839	1.7	TML	5.2
55	TM	1-Bromo-2-chloroethane	0.2524	0.2478	1.8	TM	
56	TML	2-Chloroethyl vinyl ether	0.0026	0.0034	31	TML	6.8
57	TM	Cis-1,3-Dichloropropene	0.1746	0.1671	4.3	TM	
58	TM*	Toluene	0.8250	0.8367	1.4	TM*	
59	TM	Trans-1,3-Dichloropropene	0.2708	0.2619	3.3	TM	
60	TM	1,1,2-TCA	0.1600	0.1511	5.5	TM	
61	TM	2-Hexanone	0.0459	0.0521	13	TM	
62	TM	1,2-EDB	0.2111	0.2169	2.7	TM	
63	TM	Tetrachloroethene	0.2463	0.2572	4.4	TM	
64	TM	1-Chlorohexane	0.1917	0.1814	5.4	TM	
65	TM	1,1,1,2-Tetrachloroethane	0.1336	0.1354	1.3	TM	
66	TM	m&p-Xylene	0.2014	0.2071	2.8	TM	
67	TM	o-Xylene	0.3279	0.3276	0.07	TM	
68	TM	Styrene	0.4673	0.4791	2.5	TM	
69	TM	1,3-Dichloropropane	0.2018	0.2084	3.3	TM	
70	TM	Dibromochloromethane	0.1417	0.1434	1.2	TM	
71	TM**	Chlorobenzene	0.5685	0.5726	0.71	TM**	
72	TM*	Ethylbenzene	0.8916	0.8934	0.20	TM*	
73	TM**L	Bromoform	0.1170	0.1082	7.5	TM**L	13
74	TM	Isopropylbenzene	1.536	1.541	0.32	TM	
75	TM**	1,1,2,2-Tetrachloroethane	0.4966	0.4945	0.42	TM**	
76	TM	1,2,3-Trichloropropane	0.1802	0.1652	8.3	TM	
77	TML	t-1,4-Dichloro-2-Butene	0.0552	0.0633	15	TML	3.2
78	TM	Bromobenzene	0.4965	0.4920	0.91	TM	
79	TM	n-Propylbenzene	1.616	1.558	3.6	TM	
80	TM	4-Ethyltoluene	1.143	1.132	1.0	TM	
					Average	4.8	

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 07/26/19
Instrument: Thor
Cal. Date: 07/26/19
Data File: 0726T16.D

		Compound	MEAN	CCRF	%D	%Drift
81	TML	2-Chlorotoluene	1.189	1.121	5.7	TML 7.2
82	TM	1,3,5-Trimethylbenzene	1.200	1.155	3.7	TM
83	TM	4-Chlorotoluene	1.218	1.216	0.15	TM
84	TM	Tert-Butylbenzene	1.152	1.074	6.7	TM
85	TM	1,2,4-Trimethylbenzene	1.217	1.162	4.6	TM
86	TM	Sec-Butylbenzene	1.405	1.370	2.5	TM
87	TM	p-Isopropyltoluene	1.260	1.157	8.2	TM
88	TML	Benzyl Chloride	0.2713	0.2224	18	TML 11
89	TM	1,3-DCB	0.8721	0.8402	3.7	TM
90	TM	1,4-DCB	0.8683	0.8349	3.8	TM
91	TM	n-Butylbenzene	1.008	1.030	2.2	TM
92	TM	1,2-DCB	0.8104	0.8072	0.39	TM
93	TM	Hexachloroethane	0.1553	0.1428	8.0	TM
94	TML	1,2-Dibromo-3-chloropropane	0.0983	0.1183	20	TML 2.3
95	TM	1,2,4-Trichlorobenzene	0.3176	0.3376	6.3	TM
96	TML	Hexachlorobutadiene	0.2775	0.3049	9.9	TML 2.8
97	TM	Naphthalene	0.6873	0.6987	1.7	TM
98	TM	1,2,3-Trichlorobenzene	0.1008	0.0905	10	TM
99						
100						
101						
102						
103						
104						
105						
106						
107						
108						
109						
110						
111						
112						
113						
114						
115						
116						
117						
118						
119						
120						

Average

6.4

Data File : M:\THOR\DATA\T190726\0726T16.D
 Acq On : 26 Jul 19 19:13
 Sample : SS 10ug/L VOC STD 07/26/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 16
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 29 9:38 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:38:07 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	510848	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	497280	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	272960	25.0000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	239932	22.2144	ppb	0.00
Spiked Amount	25.000		Recovery	=	88.856%	
45) 1,2-DCA-D4(S)	5.05	65	272912	22.1501	ppb	0.00
Spiked Amount	25.000		Recovery	=	88.600%	
66) Toluene-D8(S)	7.32	98	838559	22.3706	ppb	0.00
Spiked Amount	25.000		Recovery	=	89.484%	
74) 4-Bromofluorobenzene(S)	9.98	95	325207	22.4695	ppb	0.00
Spiked Amount	25.000		Recovery	=	89.880%	
Target Compounds						
2) Chlorotrifluoroethene	0.85	116	198264	102.9733	ppb	98
3) Dichlorodifluoromethane	0.87	87	13178	8.6753	ppb	98
4) Freon 114	0.95	85	34536	9.7479	ppb	100
5) Chloromethane	0.98	50	82752	10.1714	ppb	99
6) Vinyl chloride	1.05	62	45037	10.0912	ppb	93
7) 2-Chloro-1,1,1-trifluoroet	0.85	118	64787	102.4932	ppb	# 100
8) Bromomethane	1.24	94	15090	10.8761	ppb	# 78
9) Chloroethane	1.32	64	25004	9.9409	ppb	97
10) Dichlorofluoromethane	1.47	67	61774	10.1054	ppb	94
11) Trichlorofluoromethane	1.50	101	60286	9.3995	ppb	97
13) Acrolein	1.81	55	31863	141.3945	ppb	94
14) Acetone	1.94	43	19458	11.8310	ppb	91
15) Freon-113	1.90	101	16744	9.7994	ppb	94
16) 1,1-DCE	1.88	61	53989	9.9259	ppb	96
17) 2-Propanol	2.10	45	28095	99.4388	ppb	99
18) Acetonitrile	2.17	41	73222	123.8238	ppb	95
19) t-Butanol	2.50	59	27184	116.6847	ppb	98
20) Methyl Acetate	2.24	43	35565	10.1443	ppb	99
21) Iodomethane	1.99	142	8792	10.1134	ppb	99
22) Acrylonitrile	2.56	52	14779	10.6289	ppb	82
23) Methylene chloride	2.31	84	39585	9.6549	ppb	98
24) Carbon disulfide	2.04	76	86583	10.2008	ppb	95
25) Methyl t-butyl ether (MtBE)	2.61	73	97454	9.3121	ppb	96
26) Trans-1,2-DCE	2.58	96	38964	10.5164	ppb	93
28) Diisopropyl Ether	3.22	45	39440	9.8141	ppb	96
30) 1,1-DCA	3.05	63	67205	9.4691	ppb	94
31) Vinyl Acetate	3.22	87	29150	9.8653	ppb	97
32) Ethyl tert Butyl Ether	3.73	59	75320	10.0000	ppb	93
33) MEK (2-Butanone)	3.94	43	7371	10.5545	ppb	95
34) Cis-1,2-DCE	3.86	61	63570	10.1877	ppb	96
35) 2,2-Dichloropropane	3.83	77	18024	9.5183	ppb	# 64
38) Chloroform	4.39	83	71121	9.4970	ppb	91
39) Bromochloromethane	4.22	128	24714	11.0253	ppb	93
41) 1,1,1-TCA	4.60	97	23288	9.2931	ppb	92
42) Cyclohexane	4.67	41	26128	9.9595	ppb	90
43) 1,1-Dichloropropene	4.85	75	49704	9.6643	ppb	96
44) 2,2,4-Trimethylpentane	5.28	57	30048	9.2998	ppb	99
46) Carbon Tetrachloride	4.83	117	45287	9.4389	ppb	98
47) Tert Amyl Methyl Ether	5.35	73	67435	9.5371	ppb	# 97

(#) = qualifier out of range (m) = manual integration
 0726T16.D T0726W.M Mon Jul 29 14:19:22 2019

Data File : M:\THOR\DATA\T190726\0726T16.D
 Acq On : 26 Jul 19 19:13
 Sample : SS 10ug/L VOC STD 07/26/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 16
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 29 9:38 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:38:07 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) 1,2-DCA	5.15	62	55124	8.9074	ppb	95
50) Benzene	5.11	78	156137	10.1791	ppb	98
51) TCE	5.95	95	44154	10.5317	ppb	92
52) 2-Pentanone	6.23	43	365405	121.1017	ppb	99
53) 1,2-Dichloropropane	6.20	63	20776	10.3833	ppb #	100
54) Bromodichloromethane	6.55	83	29416	9.5885	ppb #	99
55) Methyl Cyclohexane	6.16	83	47516	9.6035	ppb	98
56) Dibromomethane	6.32	93	28060	9.7345	ppb	96
57) MIBK (methyl isobutyl ket	7.26	58	17137	10.5242	ppb #	78
58) 1-Bromo-2-chloroethane	6.85	63	50641	9.8183	ppb	99
59) 2-Chloroethyl vinyl ether	6.85	107	2061	32.0456	ppb	96
60) Cis-1,3-Dichloropropene	7.05	75	34144	9.5718	ppb	96
61) Toluene	7.39	91	170967	10.1413	ppb	99
62) Trans-1,3-Dichloropropene	7.66	75	53511	9.6702	ppb	97
63) 1,1,2-TCA	7.83	83	30877	9.4456	ppb	95
64) 2-Hexanone	8.14	58	10640	11.3415	ppb #	96
67) 1,2-EDB	8.30	107	43140	10.2725	ppb	98
68) Tetrachloroethene	7.95	164	51160	10.4427	ppb	97
69) 1-Chlorohexane	8.85	91	36080	9.4627	ppb	97
70) 1,1,1,2-Tetrachloroethane	8.92	131	26936	10.1347	ppb	94
71) m&p-Xylene	9.08	106	82392	20.5691	ppb	98
72) o-Xylene	9.47	106	65168	9.9927	ppb	89
73) Styrene	9.48	104	95289	10.2506	ppb	99
75) 1,3-Dichloropropane	7.99	76	41448	10.3272	ppb	99
76) Dibromochloromethane	8.21	129	28528	10.1240	ppb	95
77) Chlorobenzene	8.82	112	113889	10.0711	ppb	96
78) Ethylbenzene	8.96	91	177718	10.0202	ppb	96
79) Bromoform	9.64	173	21528	8.6855	ppb	98
81) Isopropylbenzene	9.85	105	168272	10.0320	ppb	98
82) 1,1,2,2-Tetrachloroethane	10.15	83	53990	9.9583	ppb #	89
83) 1,2,3-Trichloropropane	10.17	110	18041	9.1683	ppb	99
84) t-1,4-Dichloro-2-Butene	10.21	53	6916	10.3166	ppb #	75
85) Bromobenzene	10.10	156	53719	9.9090	ppb	98
86) n-Propylbenzene	10.26	91	170152	9.6425	ppb	100
87) 4-Ethyltoluene	10.37	105	123580	9.8999	ppb	98
88) 2-Chlorotoluene	10.31	91	122380	10.7241	ppb	99
89) 1,3,5-Trimethylbenzene	10.44	105	126095	9.6271	ppb	99
90) 4-Chlorotoluene	10.42	91	132771	9.9850	ppb	100
91) Tert-Butylbenzene	10.75	119	117306	9.3279	ppb	98
92) 1,2,4-Trimethylbenzene	10.80	105	126840	9.5437	ppb	96
93) Sec-Butylbenzene	10.97	105	149566	9.7479	ppb	100
94) p-Isopropyltoluene	11.13	119	126287	9.1809	ppb	99
95) Benzyl Chloride	11.28	91	24280	8.9413	ppb	98
96) 1,3-DCB	11.04	146	91736	9.6340	ppb	96
97) 1,4-DCB	11.14	146	91158	9.6154	ppb	95
98) n-Butylbenzene	11.53	91	112507	10.2183	ppb	96
99) 1,2-DCB	11.49	146	88138	9.9610	ppb	97
100) Hexachloroethane	11.74	117	15590	9.1971	ppb #	97
101) 1,2-Dibromo-3-chloropropan	12.26	157	12920	10.2271	ppb	94
102) 1,2,4-Trichlorobenzene	13.08	182	36864	10.6320	ppb	96
103) Hexachlorobutadiene	13.28	225	33290	10.2830	ppb	98
104) Naphthalene	13.31	128	76288	10.1660	ppb	99
105) 1,2,3-Trichlorobenzene	13.55	145	9886	8.9809	ppb	90

(#) = qualifier out of range (m) = manual integration
 0726T16.D T0726W.M Mon Jul 29 14:19:23 2019

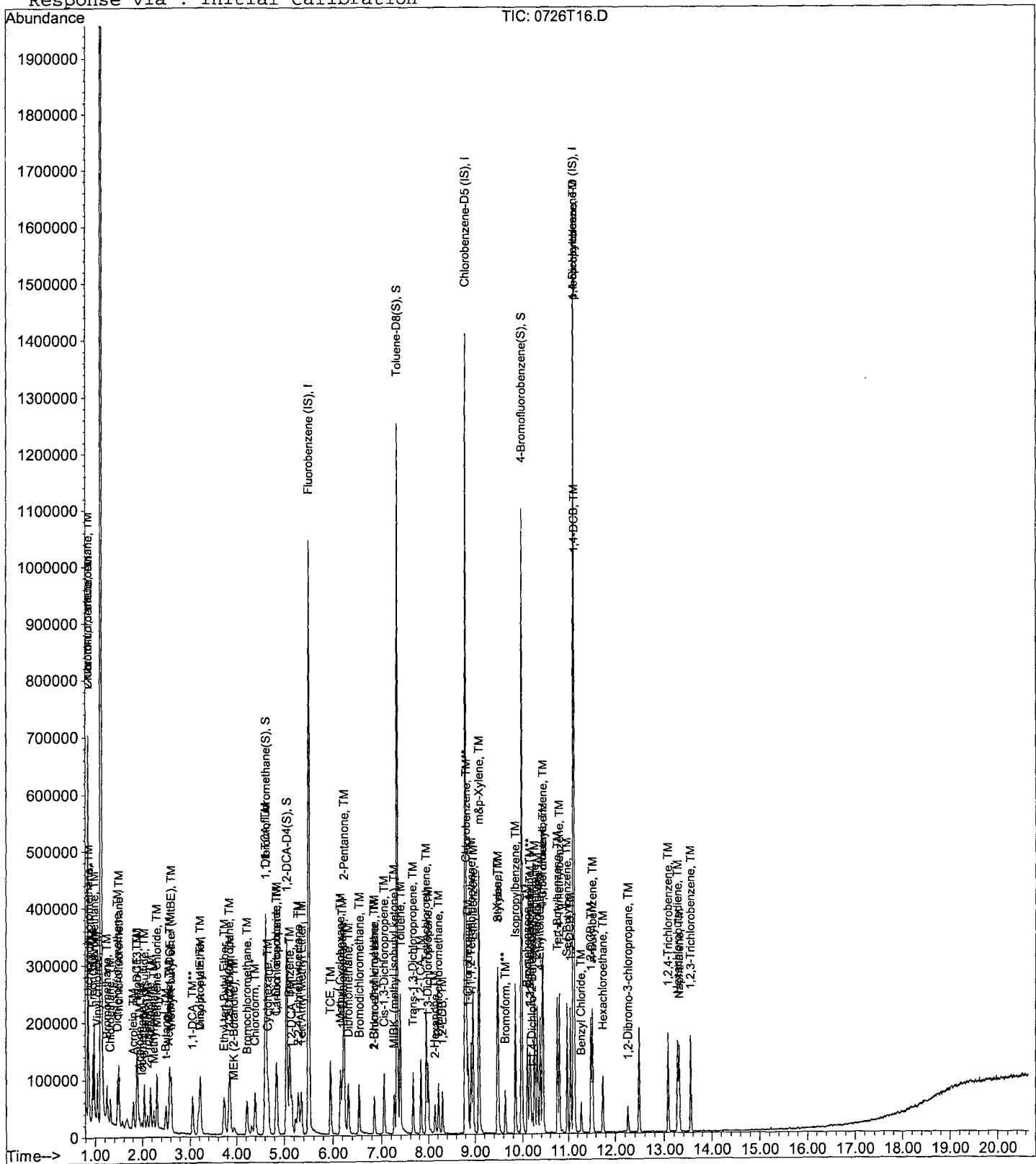
Data File : M:\THOR\DATA\T190726\0726T16.D
Acq On : 26 Jul 19 19:13
Sample : SS 10ug/L VOC STD 07/26/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 16
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 29 9:38 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/30/19
Instrument: Thor
Initial Cal. Date: 07/26/19
Data File: 0730T05.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Fluorobenzene (IS)	ISTD			I
2	TM Chlorotrifluoroethene	0.0942	0.0997	5.8	TM
3	TML Dichlorodifluoromethane	0.0908	0.0631	31	TML 15
4	TM Freon 114	0.1734	0.1873	8.0	TM
5	TM**L Chloromethane	0.5592	0.3883	31	TM**L 3.3
6	TM* Vinyl chloride	0.2184	0.2220	1.6	TM*
7	TM 2-Chloro-1,1,1-trifluoroethane	0.0309	0.0319	3.0	TM
8	TML Bromomethane	0.0983	0.0684	30	TML 4.4
9	TML Chloroethane	0.1599	0.1334	17	TML 35 *
10	TM Dichlorofluoromethane	0.2992	0.3047	1.9	TM
11	TM Trichlorofluoromethane	0.3139	0.3227	2.8	TM
12	TM Diethyl ether	0.0000	0.0008	0.00	TM
13	TM Acrolein	0.0110	0.0115	4.6	TM
14	TML Acetone	0.0914	0.0916	0.25	TML 13
15	TML Freon-113	0.0952	0.0958	0.63	TML 14
16	TM* 1,1-DCE	0.2662	0.2634	1.0	TM*
17	TML 2-Propanol	0.0152	0.0115	24	TML 17
18	TML Acetonitrile	0.0321	0.0269	16	TML 15
19	TM t-Butanol	0.0114	0.0095	17	TM
20	TM Methyl Acetate	0.1716	0.1458	15	TM
21	TML Iodomethane	0.0480	0.0381	21	TML 9.8
22	TM Acrylonitrile	0.0680	0.0633	7.0	TM
23	TML Methylene chloride	0.2284	0.1999	12	TML 0.25
24	TM Carbon disulfide	0.4154	0.4117	0.88	TM
25	TM Methyl t-butyl ether (MtBE)	0.5122	0.4782	6.6	TM
26	TML Trans-1,2-DCE	0.1752	0.2014	15	TML 11
27	TM Hexane	0.0000	0.0298	0.00	TM
28	TM Diisopropyl Ether	0.1967	0.1907	3.0	TM
29	TM** 2,2-Dichloro-1,1,1-trifluoroethane	0.0000	0.0007	0.00	TM**
30	TM** 1,1-DCA	0.3473	0.3331	4.1	TM**
31	TM Vinyl Acetate	0.1446	0.1494	3.3	TM
32	TM Ethyl tert Butyl Ether	0.3686	0.3625	1.7	TM
33	TML MEK (2-Butanone)	0.0371	0.0301	19	TML 8.5
34	TML Cis-1,2-DCE	0.3051	0.3187	4.5	TML 4.5
35	TML 2,2-Dichloropropane	0.1039	0.1016	2.2	TML 10
36	TM 2-Methylpentane	0.0000	0.0003	0.00	TM
37	TM 3-Methylpentane	0.0000	0.1068	0.00	TM
38	TM* Chloroform	0.3665	0.3565	2.7	TM*
39	TML Bromochloromethane	0.1137	0.1274	12	TML 16
40	S Dibromofluoromethane(S)	0.5286	0.5168	2.2	S

Average

8.4

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 07/30/19

Matrix: 0

Instrument: Thor

Cal. Date: 07/26/19

Data File: 0730T05.D

		Compound	MEAN	CCRF	%D	%Drift	
41	TML	1,1,1-TCA	0.1329	0.1317	0.90	TML	7.9
42	TML	Cyclohexane	0.1420	0.1341	5.5	TML	4.9
43	TM	1,1-Dichloropropene	0.2517	0.2535	0.71	TM	
44	TML	2,2,4-Trimethylpentane	0.1698	0.1633	3.8	TML	3.1
45	S	1,2-DCA-D4(S)	0.6030	0.5777	4.2	S	
46	TML	Carbon Tetrachloride	0.2053	0.2261	10	TML	8.0
47	TM	Tert Amyl Methyl Ether	0.3460	0.3093	11	TM	
48	TM	Methylcyclopentane	0.0000	0.0010	0.00	TM	
49	TM	1,2-DCA	0.3029	0.2884	4.8	TM	
50	TM	Benzene	0.7507	0.7517	0.14	TM	
51	TM	TCE	0.2052	0.2108	2.7	TM	
52	TM	2-Pentanone	0.1477	0.1248	15	TM	
53	TM*L	1,2-Dichloropropane	0.1026	0.0951	7.3	TM*L	2.9
54	TM	Bromodichloromethane	0.1501	0.1501	0.04	TM	
55	TML	Methyl Cyclohexane	0.2552	0.2435	4.6	TML	0.56
56	TM	Dibromomethane	0.1411	0.1459	3.4	TM	
57	TML	MIBK (methyl isobutyl ketone)	0.0824	0.0671	19	TML	13
58	TM	1-Bromo-2-chloroethane	0.2524	0.2409	4.6	TM	
59	TML	2-Chloroethyl vinyl ether	0.0026	0.0015	42	TML	53 * NT
60	TM	Cis-1,3-Dichloropropene	0.1746	0.1821	4.3	TM	
61	TM*	Toluene	0.8250	0.8266	0.19	TM*	
62	TM	Trans-1,3-Dichloropropene	0.2708	0.2583	4.6	TM	
63	TM	1,1,2-TCA	0.1600	0.1606	0.37	TM	
64	TM	2-Hexanone	0.0459	0.0358	22	TM	* NT
65	I	Chlorobenzene-D5 (IS)	ISTD			I	
66	S	Toluene-D8(S)	1.884	1.845	2.1	S	
67	TM	1,2-EDB	0.2111	0.2142	1.5	TM	
68	TM	Tetrachloroethene	0.2463	0.2702	9.7	TM	
69	TM	1-Chlorohexane	0.1917	0.1867	2.6	TM	
70	TM	1,1,1,2-Tetrachloroethane	0.1336	0.1424	6.6	TM	
71	TM	m&p-Xylene	0.2014	0.2041	1.4	TM	
72	TM	o-Xylene	0.3279	0.3395	3.5	TM	
73	TM	Styrene	0.4673	0.4544	2.8	TM	
74	S	4-Bromofluorobenzene(S)	0.7276	0.7076	2.7	S	
75	TM	1,3-Dichloropropane	0.2018	0.1938	4.0	TM	
76	TM	Dibromochloromethane	0.1417	0.1505	6.2	TM	
77	TM**	Chlorobenzene	0.5685	0.5949	4.6	TM**	
78	TM*	Ethylbenzene	0.8916	0.9080	1.8	TM*	
79	TM**L	Bromoform	0.1170	0.1197	2.3	TM**L	4.8
80	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	

Average

5.9

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 07/30/19

Matrix: 0

Instrument: Thor

Cal. Date: 07/26/19

Data File: 0730T05.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Isopropylbenzene	1.536	1.558	1.4	TM
82	TM**	1,1,2,2-Tetrachloroethane	0.4966	0.4716	5.0	TM**
83	TM	1,2,3-Trichloropropane	0.1802	0.1619	10	TM
84	TML	t-1,4-Dichloro-2-Butene	0.0552	0.0491	11	TML 19
85	TM	Bromobenzene	0.4965	0.5093	2.6	TM
86	TM	n-Propylbenzene	1.616	1.586	1.8	TM
87	TM	4-Ethyltoluene	1.143	1.095	4.2	TM
88	TML	2-Chlorotoluene	1.189	1.135	4.5	TML 8.7
89	TM	1,3,5-Trimethylbenzene	1.200	1.168	2.6	TM
90	TM	4-Chlorotoluene	1.218	1.178	3.3	TM
91	TM	Tert-Butylbenzene	1.152	1.129	2.0	TM
92	TM	1,2,4-Trimethylbenzene	1.217	1.134	6.9	TM
93	TM	Sec-Butylbenzene	1.405	1.386	1.4	TM
94	TM	p-Isopropyltoluene	1.260	1.187	5.8	TM
95	TML	Benzyl Chloride	0.2713	0.2185	19	TML 12
96	TM	1,3-DCB	0.8721	0.8423	3.4	TM
97	TM	1,4-DCB	0.8683	0.8196	5.6	TM
98	TM	n-Butylbenzene	1.008	0.9635	4.4	TM
99	TM	1,2-DCB	0.8104	0.8154	0.61	TM
100	TM	Hexachloroethane	0.1553	0.1644	5.9	TM
101	TML	1,2-Dibromo-3-chloropropane	0.0983	0.1090	11	TML 5.7
102	TM	1,2,4-Trichlorobenzene	0.3176	0.3062	3.6	TM
103	TML	Hexachlorobutadiene	0.2775	0.3161	14	TML 6.6
104	TM	Naphthalene	0.6873	0.5515	20	TM
105	TM	1,2,3-Trichlorobenzene	0.1008	0.1009	0.03	TM
106						
107						
108						
109						
110						
111						
112						
113						
114						
115						
116						
117						
118						
119						
120						

Average

6.0

Data File : M:\THOR\DATA\T190726\0730T05.D
 Acq On : 30 Jul 19 11:16
 Sample : 190730A CCV 10ug/L
 Misc : IS&S 7/6/19, 6/2/19

Vial: 2
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 30 11:38 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Sat Jul 27 09:53:13 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	450432	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	432320	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	238592	25.0000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	232796	24.4446	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.780%	
45) 1,2-DCA-D4(S)	5.05	65	260230	23.9537	ppb	0.00
Spiked Amount	25.000		Recovery	=	95.816%	
66) Toluene-D8(S)	7.32	98	797720	24.4788	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.916%	
74) 4-Bromofluorobenzene(S)	9.98	95	305923	24.3132	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.252%	
Target Compounds						
2) Chlorotrifluoroethene	0.85	116	179619	103.9845	ppb	Qvalue 98
3) Dichlorodifluoromethane	0.87	87	11367	8.4738	ppb	97
4) Freon 114	0.95	85	33753	10.8048	ppb	94
5) Chloromethane	0.98	50	69968	9.6723	ppb	98
6) Vinyl chloride	1.05	62	40001	10.1650	ppb	99
7) 2-Chloro-1,1,1-trifluoroet	0.85	118	57403	100.8958	ppb	# 100
8) Bromomethane	1.24	94	12321	10.4421	ppb	# 74
9) Chloroethane	1.32	64	24040	13.4611	ppb	95
10) Dichlorofluoromethane	1.47	67	54903	10.1860	ppb	94
11) Trichlorofluoromethane	1.50	101	58150	10.2826	ppb	95
13) Acrolein	1.81	55	25970	122.9136	ppb	85
14) Acetone	1.94	43	16508	11.3175	ppb	99
15) Freon-113	1.90	101	17264	11.4419	ppb	93
16) 1,1-DCE	1.88	61	47456	9.8951	ppb	97
17) 2-Propanol	2.10	45	20675	83.2534	ppb	# 87
18) Acetonitrile	2.17	41	60525	105.9046	ppb	95
19) t-Butanol	2.49	59	21368	104.0224	ppb	98
20) Methyl Acetate	2.24	43	26266	8.4968	ppb	97
21) Iodomethane	1.99	142	6862	9.0198	ppb	95
22) Acrylonitrile	2.56	52	11396	9.2952	ppb	95
23) Methylene chloride	2.31	84	36020	9.9746	ppb	95
24) Carbon disulfide	2.04	76	74178	9.9115	ppb	99
25) Methyl t-butyl ether (MtBE)	2.61	73	86158	9.3370	ppb	95
26) Trans-1,2-DCE	2.58	96	36284	11.1083	ppb	96
27) Hexane	2.49	57	5374	0.4005	ppb	# 95
28) Diisopropyl Ether	3.22	45	34360	9.6969	ppb	94
30) 1,1-DCA	3.05	63	60011	9.5896	ppb	# 96
31) Vinyl Acetate	3.22	87	26916	10.3311	ppb	99
32) Ethyl tert Butyl Ether	3.73	59	65315	9.8348	ppb	100
33) MEK (2-Butanone)	3.94	43	5429	9.1527	ppb	97
34) Cis-1,2-DCE	3.86	61	57427	10.4466	ppb	94
35) 2,2-Dichloropropane	3.84	77	18308	11.0116	ppb	# 53
38) Chloroform	4.39	83	64231	9.7274	ppb	# 76
39) Bromochloromethane	4.22	128	22958	11.6432	ppb	93
41) 1,1,1-TCA	4.60	97	23736	10.7928	ppb	98
42) Cyclohexane	4.67	41	24162	10.4886	ppb	94
43) 1,1-Dichloropropene	4.84	75	45671	10.0712	ppb	97
44) 2,2,4-Trimethylpentane	5.29	57	29424	10.3149	ppb	97
46) Carbon Tetrachloride	4.83	117	40731	9.2012	ppb	97

(#) = qualifier out of range (m) = manual integration
 0730T05.D T0726W.M Wed Jul 31 10:14:46 2019

Data File : M:\THOR\DATA\T190726\0730T05.D
 Acq On : 30 Jul 19 11:16
 Sample : 190730A CCV 10ug/L
 Misc : IS&S 7/6/19, 6/2/19

Vial: 2
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 30 11:38 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Sat Jul 27 09:53:13 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47) Tert Amyl Methyl Ether	5.35	73	55731	8.9390	ppb	# 95
49) 1,2-DCA	5.15	62	51957	9.5218	ppb	94
50) Benzene	5.11	78	135436	10.0138	ppb	97
51) TCE	5.95	95	37982	10.2747	ppb	96
52) 2-Pentanone	6.23	43	281059	104.1657	ppb	96
53) 1,2-Dichloropropane	6.20	63	17136	9.7078	ppb	# 100
54) Bromodichloromethane	6.55	83	27040	9.9962	ppb	97
55) Methyl Cyclohexane	6.16	83	43881	10.0556	ppb	95
56) Dibromomethane	6.32	93	26289	10.3434	ppb	91
57) MIBK (methyl isobutyl ket	7.26	58	12086	8.6654	ppb	# 76
58) 1-Bromo-2-chloroethane	6.85	63	43400	9.5430	ppb	95
59) 2-Chloroethyl vinyl ether	6.85	107	797	14.0248	ppb	# 31
60) Cis-1,3-Dichloropropene	7.05	75	32816	10.4334	ppb	88
61) Toluene	7.39	91	148936	10.0194	ppb	99
62) Trans-1,3-Dichloropropene	7.66	75	46544	9.5393	ppb	99
63) 1,1,2-TCA	7.83	83	28929	10.0367	ppb	86
64) 2-Hexanone	8.14	58	6455	7.8035	ppb	90
67) 1,2-EDB	8.30	107	37049	10.1477	ppb	91
68) Tetrachloroethene	7.95	164	46723	10.9700	ppb	93
69) 1-Chlorohexane	8.85	91	32293	9.7421	ppb	100
70) 1,1,1,2-Tetrachloroethane	8.92	131	24632	10.6604	ppb	96
71) m&p-Xylene	9.08	106	70600	20.1358	ppb	92
72) o-Xylene	9.47	106	58702	10.3537	ppb	95
73) Styrene	9.48	104	78586	9.7241	ppb	100
75) 1,3-Dichloropropane	7.99	76	33512	9.6045	ppb	98
76) Dibromochloromethane	8.21	129	26024	10.6230	ppb	99
77) Chlorobenzene	8.82	112	102880	10.4646	ppb	98
78) Ethylbenzene	8.96	91	157013	10.1830	ppb	99
79) Bromoform	9.63	173	20696	9.5155	ppb	95
81) Isopropylbenzene	9.85	105	148678	10.1406	ppb	98
82) 1,1,2,2-Tetrachloroethane	10.15	83	45012	9.4983	ppb	94
83) 1,2,3-Trichloropropane	10.17	110	15454	8.9849	ppb	92
84) t-1,4-Dichloro-2-Butene	10.21	53	4686	8.0586	ppb	93
85) Bromobenzene	10.10	156	48603	10.2568	ppb	92
86) n-Propylbenzene	10.26	91	151395	9.8154	ppb	99
87) 4-Ethyltoluene	10.37	105	104526	9.5796	ppb	99
88) 2-Chlorotoluene	10.31	91	108365	10.8718	ppb	98
89) 1,3,5-Trimethylbenzene	10.44	105	111455	9.7351	ppb	99
90) 4-Chlorotoluene	10.42	91	112428	9.6731	ppb	99
91) Tert-Butylbenzene	10.75	119	107768	9.8038	ppb	97
92) 1,2,4-Trimethylbenzene	10.80	105	108200	9.3139	ppb	100
93) Sec-Butylbenzene	10.97	105	132257	9.8614	ppb	98
94) p-Isopropyltoluene	11.12	119	113295	9.4228	ppb	97
95) Benzyl Chloride	11.28	91	20856	8.7821	ppb	# 94
96) 1,3-DCB	11.04	146	80390	9.6585	ppb	98
97) 1,4-DCB	11.14	146	78220	9.4391	ppb	98
98) n-Butylbenzene	11.53	91	91958	9.5550	ppb	98
99) 1,2-DCB	11.49	146	77815	10.0611	ppb	99
100) Hexachloroethane	11.74	117	15685	10.5860	ppb	# 87
101) 1,2-Dibromo-3-chloropropan	12.26	157	10407	9.4277	ppb	93
102) 1,2,4-Trichlorobenzene	13.08	182	29224	9.6426	ppb	93
103) Hexachlorobutadiene	13.28	225	30168	10.6585	ppb	98
104) Naphthalene	13.31	128	52632	8.0239	ppb	96
105) 1,2,3-Trichlorobenzene	13.55	145	9625	10.0033	ppb	81

(#) = qualifier out of range (m) = manual integration
 0730T05.D T0726W.M Wed Jul 31 10:14:47 2019

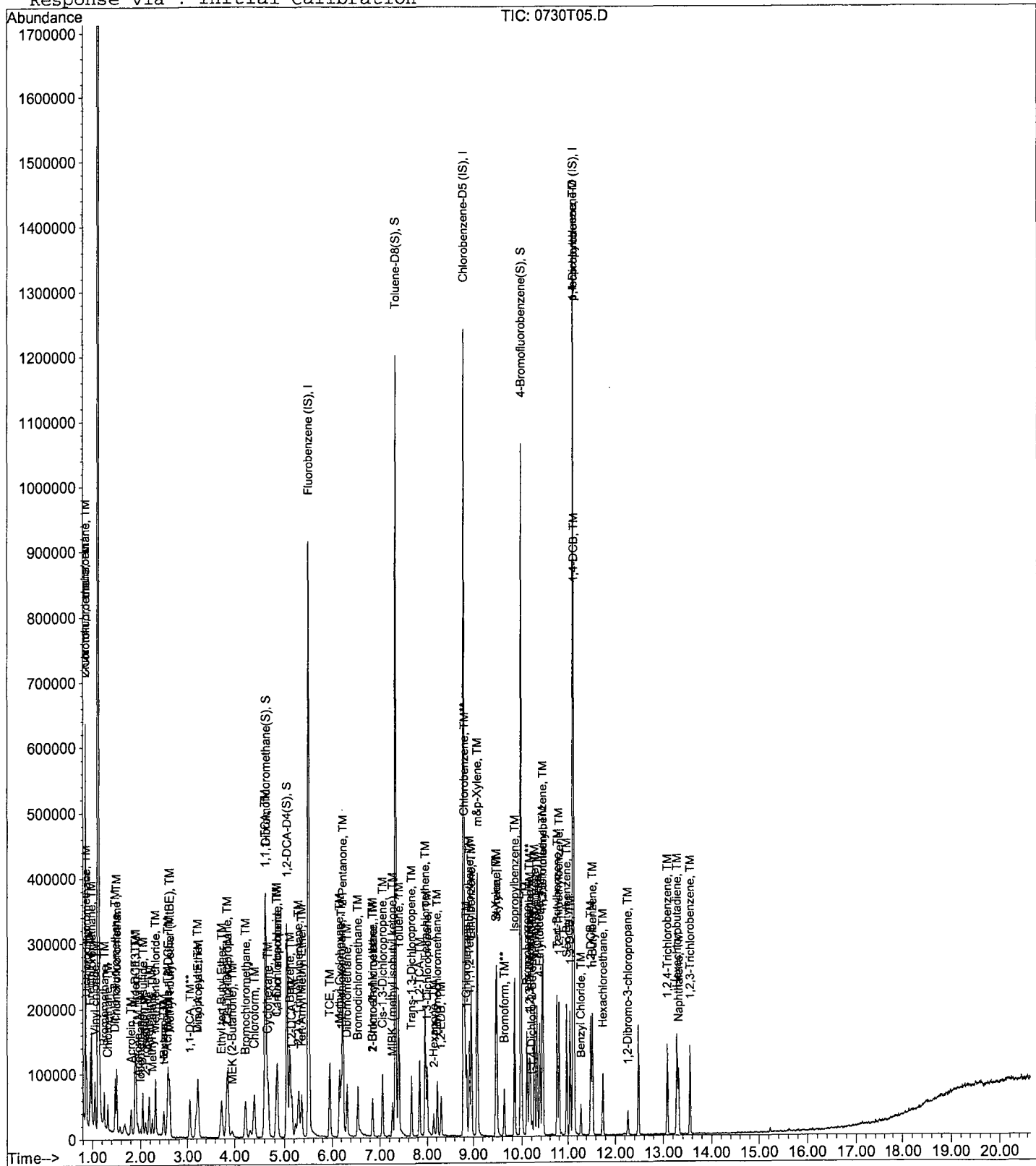
Data File : M:\THOR\DATA\T190726\0730T05.D
Acq On : 30 Jul 19 11:16
Sample : 190730A CCV 10ug/L
Misc : IS&S 7/6/19, 6/2/19

Vial: 2
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 11:38 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 07/30/19

Matrix: _____

Instrument: Thor

Initial Cal. Date: 07/26/19

Data File: 0730T29.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	Fluorobenzene (IS)	ISTD			I
2	TM	Chlorotrifluoroethene	0.0942	0.0796	16	TM
3	TML	Dichlorodifluoromethane	0.0908	0.0669	26	TML 9.8
4	TM	Freon 114	0.1734	0.1421	18	TM
5	TM**L	Chloromethane	0.5592	0.3395	39	TM**L 17
6	TM*	Vinyl chloride	0.2184	0.1764	19	TM*
7	TM	2-Chloro-1,1,1-trifluoroethane	0.0309	0.0258	17	TM
8	TML	Bromomethane	0.0983	0.0587	40	TML 15
9	TML	Chloroethane	0.1599	0.1080	32	TML 13
10	TM	Dichlorofluoromethane	0.2992	0.2655	11	TM
11	TM	Trichlorofluoromethane	0.3139	0.2760	12	TM
12	TM	Diethyl ether	0.0000	0.0003	0.00	TM
13	TM	Acrolein	0.0110	0.0089	19	TM
14	TML	Acetone	0.0914	0.0909	0.57	TML 12
15	TML	Freon-113	0.0952	0.0742	22	TML 11
16	TM*	1,1-DCE	0.2662	0.2189	18	TM*
17	TML	2-Propanol	0.0152	0.0116	24	TML 16
18	TML	Acetonitrile	0.0321	0.0256	20	TML 13
19	TM	t-Butanol	0.0114	0.0081	29	TM
20	TM	Methyl Acetate	0.1716	0.1301	24	TM
21	TML	Iodomethane	0.0480	0.0274	43	TML 33
22	TM	Acrylonitrile	0.0680	0.0547	20	TM
23	TML	Methylene chloride	0.2284	0.1791	22	TML 11
24	TM	Carbon disulfide	0.4154	0.3484	16	TM
25	TM	Methyl t-butyl ether (MtBE)	0.5122	0.4160	19	TM
26	TML	Trans-1,2-DCE	0.1752	0.1618	7.7	TML 11
27	TM	Hexane	0.0000	0.0297	0.00	TM
28	TM	Diisopropyl Ether	0.1967	0.1727	12	TM
29	TM**	2,2-Dichloro-1,1,1-trifluoroethane	0.0000	0.0006	0.00	TM**
30	TM**	1,1-DCA	0.3473	0.2988	14	TM**
31	TM	Vinyl Acetate	0.1446	0.1277	12	TM
32	TM	Ethyl tert Butyl Ether	0.3686	0.3074	17	TM
33	TML	MEK (2-Butanone)	0.0371	0.0259	30	TML 25
34	TML	Cis-1,2-DCE	0.3051	0.2675	12	TML 13
35	TML	2,2-Dichloropropane	0.1039	0.0684	34	TML 27
36	TM	2-Methylpentane	0.0000	0.0004	0.00	TM
37	TM	3-Methylpentane	0.0000	0.0844	0.00	TM
38	TM*	Chloroform	0.3665	0.3206	13	TM*
39	TML	Bromochloromethane	0.1137	0.1110	2.3	TML 0.77
40	S	Dibromofluoromethane(S)	0.5286	0.4765	9.9	S

Average

17.2

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 07/30/19

Matrix: 0

Instrument: Thor

Cal. Date: 07/26/19

Data File: 0730T29.D

		Compound	MEAN	CCRF	%D		%Drift
41	TML	1,1,1-TCA	0.1329	0.1129	15	TML	7.9
42	TML	Cyclohexane	0.1420	0.1071	25	TML	17
43	TM	1,1-Dichloropropene	0.2517	0.2090	17	TM	
44	TML	2,2,4-Trimethylpentane	0.1698	0.1137	33	TML	28
45	S	1,2-DCA-D4(S)	0.6030	0.5359	11	S	
46	TML	Carbon Tetrachloride	0.2053	0.1983	3.4	TML	14
47	TM	Tert Amyl Methyl Ether	0.3460	0.2831	18	TM	
48	TM	Methylcyclopentane	0.0000	0.0189	0.00	TM	
49	TM	1,2-DCA	0.3029	0.2498	18	TM	
50	TM	Benzene	0.7507	0.6541	13	TM	
51	TM	TCE	0.2052	0.1860	9.3	TM	
52	TM	2-Pentanone	0.1477	0.1153	22	TM	
53	TM*L	1,2-Dichloropropane	0.1026	0.0866	16	TM*L	12
54	TM	Bromodichloromethane	0.1501	0.1302	13	TM	
55	TML	Methyl Cyclohexane	0.2552	0.1875	27	TML	22
56	TM	Dibromomethane	0.1411	0.1283	9.1	TM	
57	TML	MIBK (methyl isobutyl ketone)	0.0824	0.0607	26	TML	23
58	TM	1-Bromo-2-chloroethane	0.2524	0.2169	14	TM	
59	TML	2-Chloroethyl vinyl ether	0.0026	0.0024	7.9	TML	25
60	TM	Cis-1,3-Dichloropropene	0.1746	0.1539	12	TM	
61	TM*	Toluene	0.8250	0.7311	11	TM*	
62	TM	Trans-1,3-Dichloropropene	0.2708	0.2221	18	TM	
63	TM	1,1,2-TCA	0.1600	0.1446	9.6	TM	
64	TM	2-Hexanone	0.0459	0.0338	26	TM	
65	I	Chlorobenzene-D5 (IS)	ISTD			I	
66	S	Toluene-D8(S)	1.884	1.655	12	S	
67	TM	1,2-EDB	0.2111	0.1775	16	TM	
68	TM	Tetrachloroethene	0.2463	0.2253	8.5	TM	
69	TM	1-Chlorohexane	0.1917	0.1464	24	TM	
70	TM	1,1,1,2-Tetrachloroethane	0.1336	0.1197	10	TM	
71	TM	m&p-Xylene	0.2014	0.1765	12	TM	
72	TM	o-Xylene	0.3279	0.2912	11	TM	
73	TM	Styrene	0.4673	0.3648	22	TM	
74	S	4-Bromofluorobenzene(S)	0.7276	0.6346	13	S	
75	TM	1,3-Dichloropropane	0.2018	0.1665	17	TM	
76	TM	Dibromochloromethane	0.1417	0.1279	9.7	TM	
77	TM**	Chlorobenzene	0.5685	0.5156	9.3	TM**	
78	TM*	Ethylbenzene	0.8916	0.7655	14	TM*	
79	TM**L	Bromoform	0.1170	0.1035	12	TM**L	17
80	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	

Average

14.9

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 07/30/19
Instrument: Thor
Cal. Date: 07/26/19
Data File: 0730T29.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Isopropylbenzene	1.536	1.301	15	TM
82	TM**	1,1,2,2-Tetrachloroethane	0.4966	0.4230	15	TM**
83	TM	1,2,3-Trichloropropane	0.1802	0.1433	21	TM
84	TML	t-1,4-Dichloro-2-Butene	0.0552	0.0465	16	TML 24
85	TM	Bromobenzene	0.4965	0.4450	10	TM
86	TM	n-Propylbenzene	1.616	1.321	18	TM
87	TM	4-Ethyltoluene	1.143	0.9622	16	TM
88	TML	2-Chlorotoluene	1.189	0.9633	19	TML 8.7
89	TM	1,3,5-Trimethylbenzene	1.200	0.9939	17	TM
90	TM	4-Chlorotoluene	1.218	1.037	15	TM
91	TM	Tert-Butylbenzene	1.152	0.9128	21	TM
92	TM	1,2,4-Trimethylbenzene	1.217	1.023	16	TM
93	TM	Sec-Butylbenzene	1.405	1.145	19	TM
94	TM	p-Isopropyltoluene	1.260	1.010	20	TM
95	TML	Benzyl Chloride	0.2713	0.1279	53	TML 50
96	TM	1,3-DCB	0.8721	0.7491	14	TM
97	TM	1,4-DCB	0.8683	0.7521	13	TM
98	TM	n-Butylbenzene	1.008	0.8184	19	TM
99	TM	1,2-DCB	0.8104	0.7307	9.8	TM
100	TM	Hexachloroethane	0.1553	0.1499	3.4	TM
101	TML	1,2-Dibromo-3-chloropropane	0.0983	0.1036	5.4	TML 10
102	TM	1,2,4-Trichlorobenzene	0.3176	0.2728	14	TM
103	TML	Hexachlorobutadiene	0.2775	0.2803	1.0	TML 5.4
104	TM	Naphthalene	0.6873	0.5090	26	TM
105	TM	1,2,3-Trichlorobenzene	0.1008	0.0783	22	TM
106						
107						
108						
109						
110						
111						
112						
113						
114						
115						
116						
117						
118						
119						
120						

Average

16.7

Data File : M:\THOR\DATA\T190726\0730T29.D
 Acq On : 30 Jul 19 22:31
 Sample : Ending CCV 10ug/L 07/30/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 26
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 31 10:16 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	474240	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	473664	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	256576	25.0000	ppb	0.00

System Monitoring Compounds

40) Dibromofluoromethane(S)	4.62	111	225964	22.5361	ppb	0.00
Spiked Amount	25.000		Recovery	=	90.144%	
45) 1,2-DCA-D4(S)	5.05	65	254134	22.2182	ppb	0.00
Spiked Amount	25.000		Recovery	=	88.872%	
66) Toluene-D8(S)	7.32	98	783996	21.9578	ppb	0.00
Spiked Amount	25.000		Recovery	=	87.832%	
74) 4-Bromofluorobenzene(S)	9.98	95	300588	21.8040	ppb	0.00
Spiked Amount	25.000		Recovery	=	87.216%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chlorotrifluoroethene	0.85	116	150919	84.4342	ppb	97
3) Dichlorodifluoromethane	0.87	87	12694	9.0242	ppb	90
4) Freon 114	0.95	85	26960	8.1970	ppb	90
5) Chloromethane	0.98	50	64406	8.2719	ppb	100
6) Vinyl chloride	1.05	62	33466	8.0774	ppb	90
7) 2-Chloro-1,1,1-trifluoroet	0.85	118	48900	83.3316	ppb #	100
8) Bromomethane	1.24	94	11140	8.4687	ppb #	82
9) Chloroethane	1.32	64	20493	8.7077	ppb	95
10) Dichlorofluoromethane	1.47	67	50356	8.8734	ppb	96
11) Trichlorofluoromethane	1.50	101	52352	8.7926	ppb	91
13) Acrolein	1.80	55	21053	100.6360	ppb #	57
14) Acetone	1.94	43	17239	11.1659	ppb	91
15) Freon-113	1.90	101	14076	8.8563	ppb	96
16) 1,1-DCE	1.88	61	41524	8.2235	ppb	94
17) 2-Propanol	2.11	45	21959	83.9043	ppb #	84
18) Acetonitrile	2.17	41	60634	108.8688	ppb	99
19) t-Butanol	2.49	59	19128	88.4430	ppb	95
20) Methyl Acetate	2.24	43	24672	7.5805	ppb	100
21) Iodomethane	1.99	142	5207	6.6654	ppb	99
22) Acrylonitrile	2.56	52	10380	8.0414	ppb	86
23) Methylene chloride	2.31	84	33976	8.9010	ppb	95
24) Carbon disulfide	2.04	76	66097	8.3884	ppb	98
25) Methyl t-butyl ether (MtBE)	2.61	73	78914	8.1226	ppb	96
26) Trans-1,2-DCE	2.58	96	30684	8.9163	ppb	93
28) Diisopropyl Ether	3.22	45	32752	8.7790	ppb	98
30) 1,1-DCA	3.05	63	56690	8.6041	ppb	100
31) Vinyl Acetate	3.22	87	24223	8.8307	ppb	96
32) Ethyl tert Butyl Ether	3.73	59	58307	8.3388	ppb	90
33) MEK (2-Butanone)	3.95	43	4910	7.5172	ppb	95
34) Cis-1,2-DCE	3.86	61	50740	8.7081	ppb	98
35) 2,2-Dichloropropane	3.84	77	12982	7.3207	ppb #	64
38) Chloroform	4.39	83	60810	8.7470	ppb	96
39) Bromochloromethane	4.21	128	21058	10.0773	ppb	94
41) 1,1,1-TCA	4.60	97	21424	9.2072	ppb	98
42) Cyclohexane	4.67	41	20308	8.2785	ppb	97
43) 1,1-Dichloropropene	4.85	75	39648	8.3041	ppb	97
44) 2,2,4-Trimethylpentane	5.29	57	21560	7.2152	ppb	97
46) Carbon Tetrachloride	4.83	117	37613	8.5605	ppb	93
47) Tert Amyl Methyl Ether	5.35	73	53703	8.1813	ppb	98

(#) = qualifier out of range (m) = manual integration

0730T29.D T0726W.M Wed Jul 31 10:16:47 2019

Data File : M:\THOR\DATA\T190726\0730T29.D
 Acq On : 30 Jul 19 22:31
 Sample : Ending CCV 10ug/L 07/30/19
 Misc : IS&S 7/6/19, 6/2/19

Vial: 26
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 31 10:16 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) 1,2-DCA	5.15	62	47377	8.2466	ppb	94
50) Benzene	5.11	78	124089	8.7142	ppb	96
51) TCE	5.95	95	35282	9.0651	ppb	96
52) 2-Pentanone	6.23	43	273486	97.6347	ppb	98
53) 1,2-Dichloropropane	6.20	63	16432	8.8346	ppb #	100
54) Bromodichloromethane	6.54	83	24696	8.6713	ppb	99
55) Methyl Cyclohexane	6.16	83	35566	7.7544	ppb	91
56) Dibromomethane	6.32	93	24333	9.0932	ppb	99
57) MIBK (methyl isobutyl ket	7.26	58	11520	7.6518	ppb #	87
58) 1-Bromo-2-chloroethane	6.85	63	41148	8.5936	ppb	96
59) 2-Chloroethyl vinyl ether	6.86	107	1343	22.4779	ppb	100
60) Cis-1,3-Dichloropropene	7.05	75	29200	8.8177	ppb	90
61) Toluene	7.39	91	138691	8.8618	ppb	96
62) Trans-1,3-Dichloropropene	7.66	75	42124	8.2000	ppb	95
63) 1,1,2-TCA	7.83	83	27437	9.0412	ppb	90
64) 2-Hexanone	8.14	58	6404	7.3531	ppb	95
67) 1,2-EDB	8.30	107	33624	8.4058	ppb	96
68) Tetrachloroethene	7.95	164	42684	9.1469	ppb	96
69) 1-Chlorohexane	8.85	91	27732	7.6359	ppb	98
70) 1,1,1,2-Tetrachloroethane	8.92	131	22672	8.9557	ppb	95
71) m&p-Xylene	9.08	106	66880	17.5290	ppb	99
72) o-Xylene	9.47	106	55179	8.8829	ppb	87
73) Styrene	9.48	104	69122	7.8065	ppb	97
75) 1,3-Dichloropropane	7.99	76	31544	8.2514	ppb	97
76) Dibromochloromethane	8.21	129	24240	9.0311	ppb	92
77) Chlorobenzene	8.82	112	97681	9.0685	ppb	100
78) Ethylbenzene	8.96	91	145036	8.5852	ppb	97
79) Bromoform	9.64	173	19616	8.3452	ppb	98
81) Isopropylbenzene	9.85	105	133484	8.4662	ppb	100
82) 1,1,2,2-Tetrachloroethane	10.15	83	43413	8.5187	ppb	91
83) 1,2,3-Trichloropropane	10.17	110	14703	7.9491	ppb	92
84) t-1,4-Dichloro-2-Butene	10.21	53	4768	7.6397	ppb #	75
85) Bromobenzene	10.10	156	45672	8.9627	ppb	97
86) n-Propylbenzene	10.26	91	135576	8.1737	ppb	96
87) 4-Ethyltoluene	10.37	105	98755	8.4163	ppb	99
88) 2-Chlorotoluene	10.31	91	98862	9.1302	ppb	96
89) 1,3,5-Trimethylbenzene	10.44	105	102008	8.2855	ppb	100
90) 4-Chlorotoluene	10.43	91	106460	8.5176	ppb	99
91) Tert-Butylbenzene	10.75	119	93681	7.9249	ppb	96
92) 1,2,4-Trimethylbenzene	10.80	105	105028	8.4071	ppb	97
93) Sec-Butylbenzene	10.97	105	117481	8.1457	ppb	100
94) p-Isopropyltoluene	11.12	119	103688	8.0193	ppb	99
95) Benzyl Chloride	11.28	91	13131	5.0330	ppb #	96
96) 1,3-DCB	11.04	146	76881	8.5895	ppb	98
97) 1,4-DCB	11.13	146	77190	8.6620	ppb	99
98) n-Butylbenzene	11.53	91	83990	8.1154	ppb	98
99) 1,2-DCB	11.49	146	74990	9.0162	ppb	95
100) Hexachloroethane	11.74	117	15387	9.6570	ppb #	81
101) 1,2-Dibromo-3-chloropropan	12.26	157	10634	8.9602	ppb	91
102) 1,2,4-Trichlorobenzene	13.08	182	28000	8.5912	ppb	85
103) Hexachlorobutadiene	13.28	225	28764	9.4577	ppb	96
104) Naphthalene	13.31	128	52240	7.4059	ppb	99
105) 1,2,3-Trichlorobenzene	13.55	145	8031	7.7616	ppb	92

(#) = qualifier out of range (m) = manual integration
 0730T29.D T0726W.M Wed Jul 31 10:16:48 2019

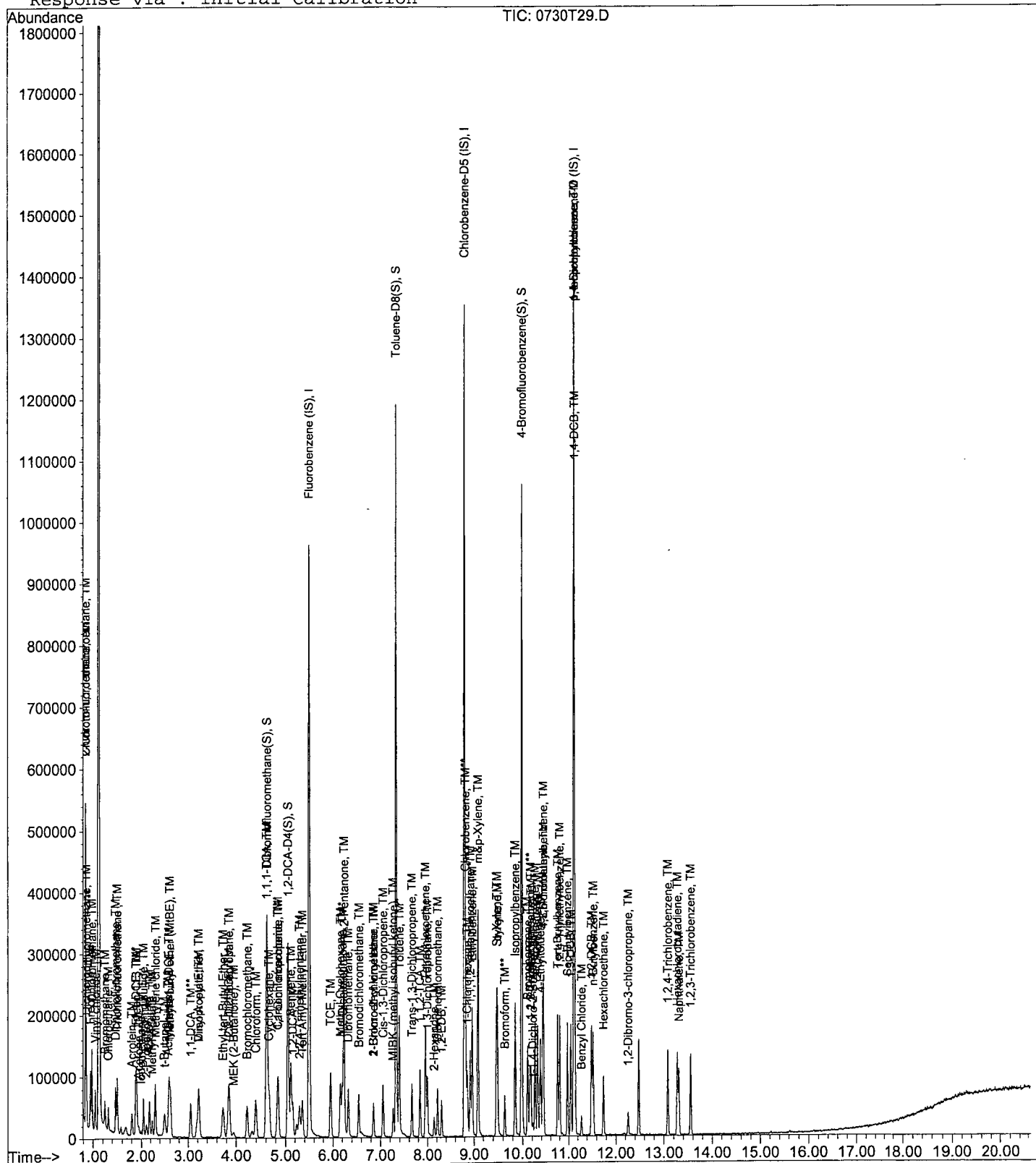
Data File : M:\THOR\DATA\T190726\0730T29.D
Acq On : 30 Jul 19 22:31
Sample : Ending CCV 10ug/L 07/30/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 26
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 31 10:16 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



ORGANICS
Raw Data

Data File : M:\THOR\DATA\T190726\0730T12.D
 Acq On : 30 Jul 19 14:33
 Sample : AZ95418W01
 Misc : IS&S 7/6/19, 6/2/19

Vial: 9
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 31 12:25 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	445888	25.00000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	433984	25.00000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	227776	25.00000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	218373	23.16383	ppb	0.00
Spiked Amount	25.000					
					Recovery =	92.656%
45) 1,2-DCA-D4(S)	5.05	65	247974	23.05815	ppb	0.00
Spiked Amount	25.000					
					Recovery =	92.232%
66) Toluene-D8(S)	7.32	98	739065	22.59197	ppb	0.00
Spiked Amount	25.000					
					Recovery =	90.368%
74) 4-Bromofluorobenzene(S)	9.98	95	276402	21.88276	ppb	0.00
Spiked Amount	25.000					
					Recovery =	87.532%

Target Compounds Qvalue

Quantitation Report

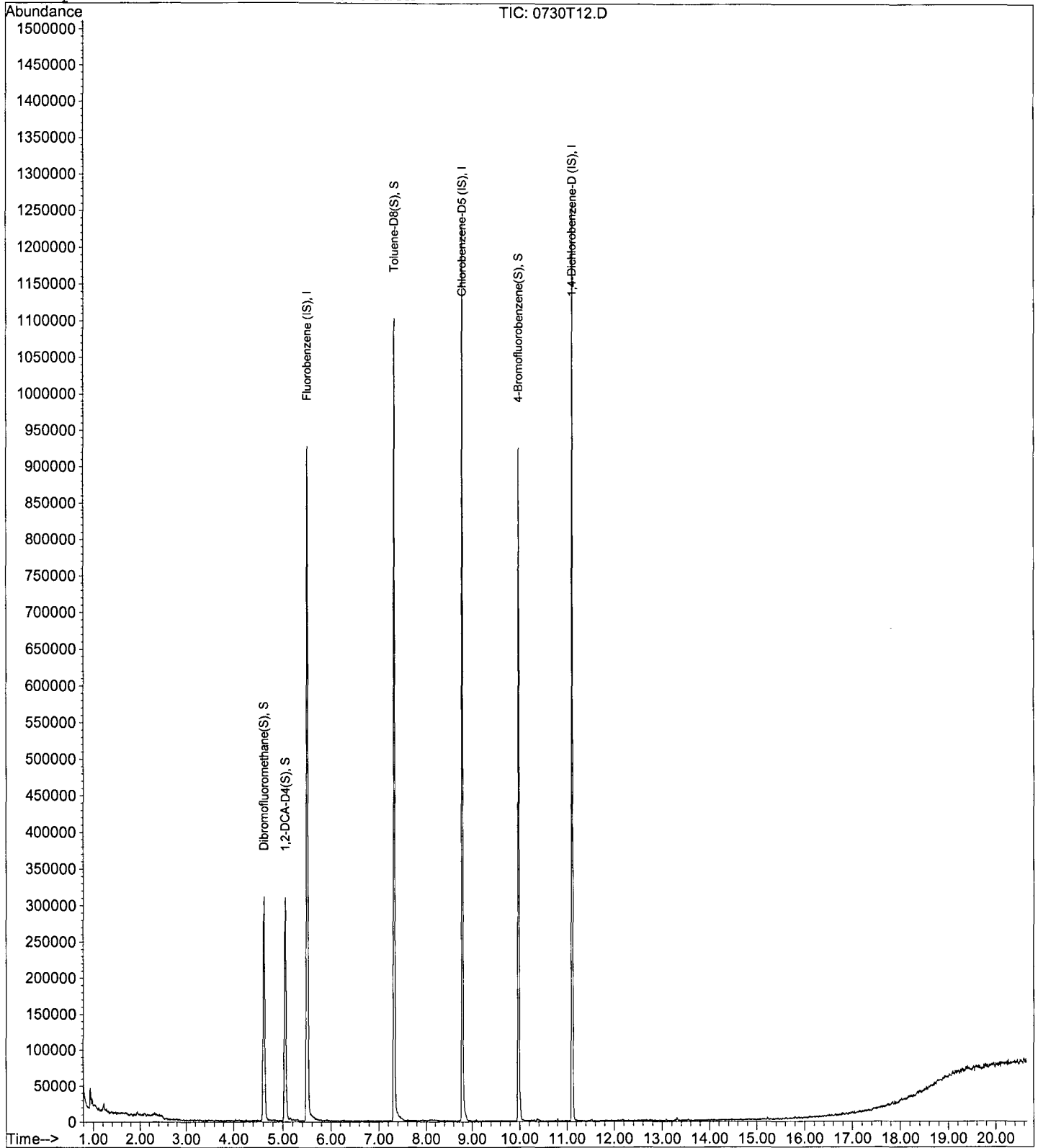
Data File : M:\THOR\DATA\T190726\0730T12.D
Acq On : 30 Jul 19 14:33
Sample : AZ95418W01
Misc : IS&S 7/6/19, 6/2/19

Vial: 9
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 31 12:25 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0730T13.D
 Acq On : 30 Jul 19 15:01
 Sample : AZ95419W01
 Misc : IS&S 7/6/19, 6/2/19

Vial: 10
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 31 12:25 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	440512	25.00000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	430208	25.00000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	220224	25.00000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	227555	24.43238	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	97.728%
45) 1,2-DCA-D4(S)	5.05	65	254268	23.93194	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	95.728%
66) Toluene-D8(S)	7.32	98	759678	23.42590	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	93.704%
74) 4-Bromofluorobenzene(S)	9.98	95	284438	22.71663	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	90.868%

Target Compounds

Qvalue

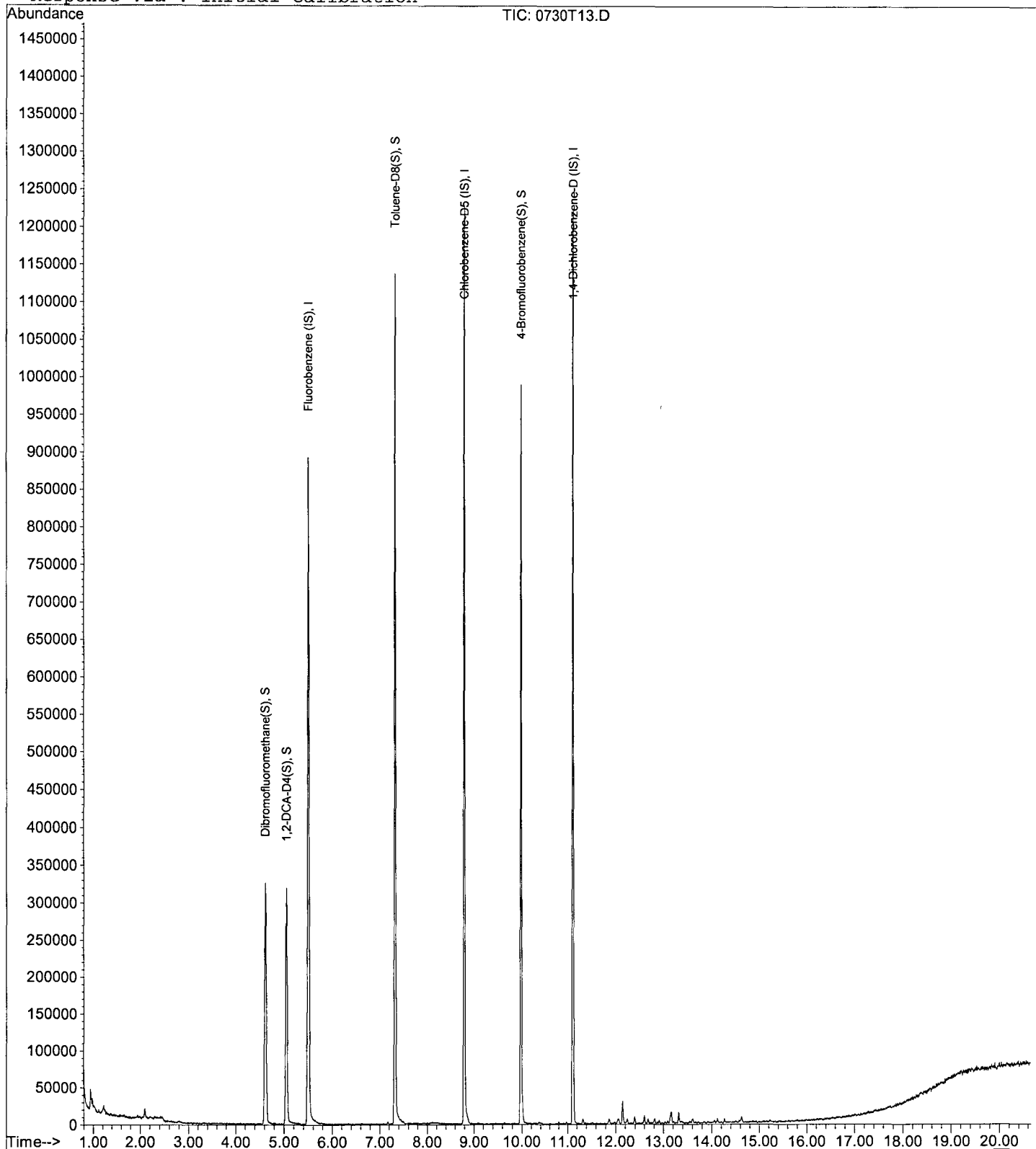
Data File : M:\THOR\DATA\T190726\0730T13.D
Acq On : 30 Jul 19 15:01
Sample : AZ95419W01
Misc : IS&S 7/6/19, 6/2/19

Vial: 10
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 31 12:25 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0730T14.D
 Acq On : 30 Jul 19 15:29
 Sample : AZ95420W01
 Misc : IS&S 7/6/19, 6/2/19

Vial: 11
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 31 12:25 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	418816	25.00000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	411840	25.00000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	220800	25.00000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	241418	27.26362	ppb	0.00
Spiked Amount	25.000					
					Recovery = 109.056%	
45) 1,2-DCA-D4(S)	5.05	65	276635	27.38595	ppb	0.00
Spiked Amount	25.000					
					Recovery = 109.544%	
66) Toluene-D8(S)	7.32	98	825026	26.57567	ppb	0.00
Spiked Amount	25.000					
					Recovery = 106.304%	
74) 4-Bromofluorobenzene(S)	9.98	95	306831	25.59796	ppb	0.00
Spiked Amount	25.000					
					Recovery = 102.392%	

Target Compounds

Qvalue

Quantitation Report

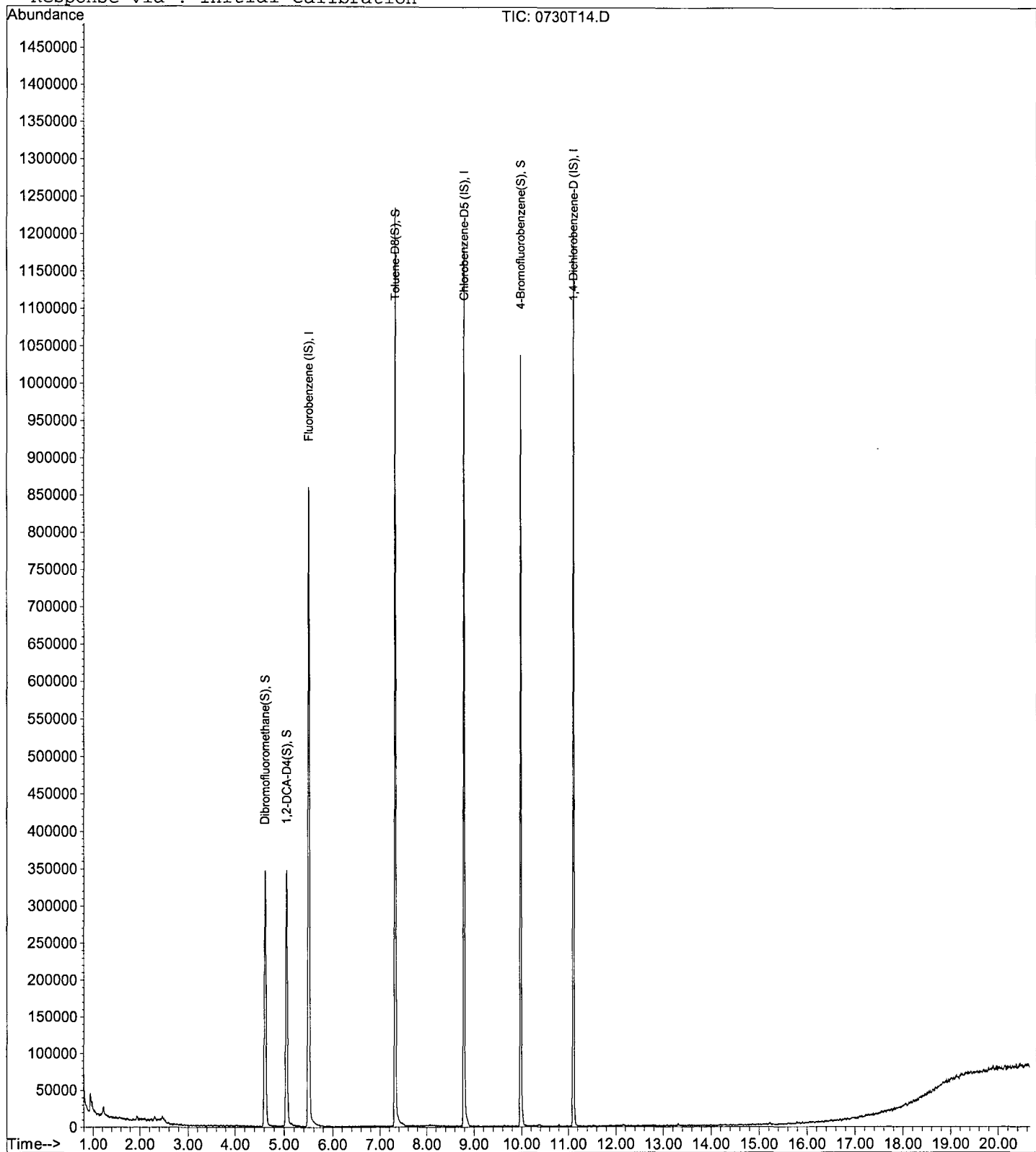
Data File : M:\THOR\DATA\T190726\0730T14.D
Acq On : 30 Jul 19 15:29
Sample : AZ95420W01
Misc : IS&S 7/6/19, 6/2/19

Vial: 11
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 31 12:25 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0730T15.D Vial: 12
 Acq On : 30 Jul 19 15:57 Operator:
 Sample : AZ95421W01 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 31 12:27 2019 Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	443584	25.00000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	431040	25.00000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	213696	25.00000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	230713	24.59990	ppb	0.00
Spiked Amount				25.000		
					Recovery =	98.400%
45) 1,2-DCA-D4(S)	5.05	65	258750	24.18513	ppb	0.00
Spiked Amount				25.000		
					Recovery =	96.740%
66) Toluene-D8(S)	7.32	98	777874	23.94070	ppb	0.00
Spiked Amount				25.000		
					Recovery =	95.764%
74) 4-Bromofluorobenzene(S)	9.98	95	289834	23.10290	ppb	0.00
Spiked Amount				25.000		
					Recovery =	92.412%

Target Compounds Qvalue

Quantitation Report

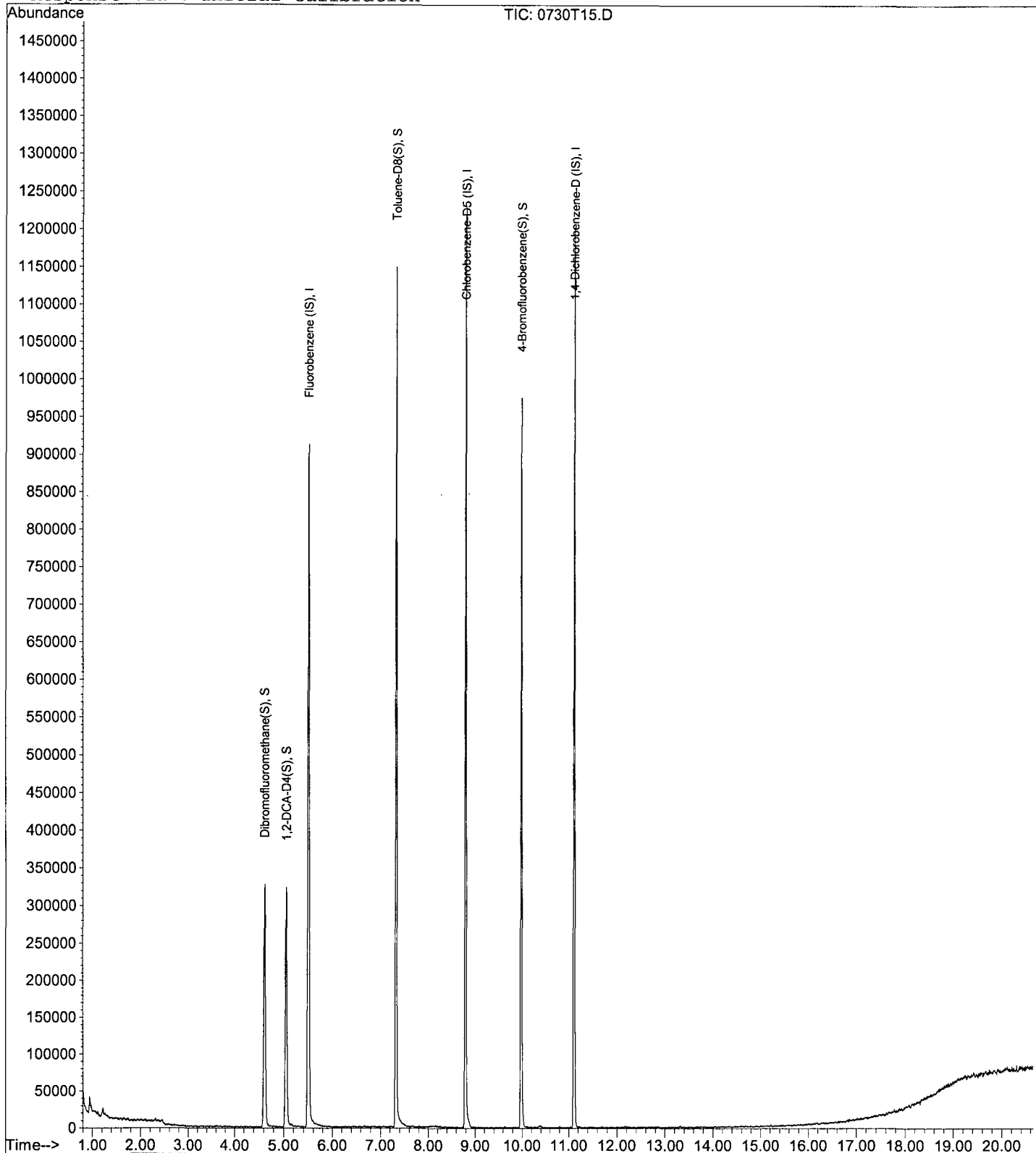
Data File : M:\THOR\DATA\T190726\0730T15.D
Acq On : 30 Jul 19 15:57
Sample : AZ95421W01
Misc : IS&S 7/6/19, 6/2/19

Vial: 12
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 31 12:27 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0730T16.D
 Acq On : 30 Jul 19 16:25
 Sample : AZ95422W01
 Misc : IS&S 7/6/19, 6/2/19

Vial: 13
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 31 12:27 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	429760	25.00000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	409536	25.00000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	210176	25.00000	ppb	0.00

System Monitoring Compounds

40) Dibromofluoromethane(S)	4.62	111	220688	24.28790	ppb	0.00
Spiked Amount				25.000		
					Recovery =	97.152%
45) 1,2-DCA-D4(S)	5.05	65	247588	23.88623	ppb	0.00
Spiked Amount				25.000		
					Recovery =	95.544%
66) Toluene-D8(S)	7.32	98	733053	23.74589	ppb	0.00
Spiked Amount				25.000		
					Recovery =	94.984%
74) 4-Bromofluorobenzene(S)	9.98	95	279120	23.41713	ppb	0.00
Spiked Amount				25.000		
					Recovery =	93.668%

Target Compounds

Qvalue

Quantitation Report

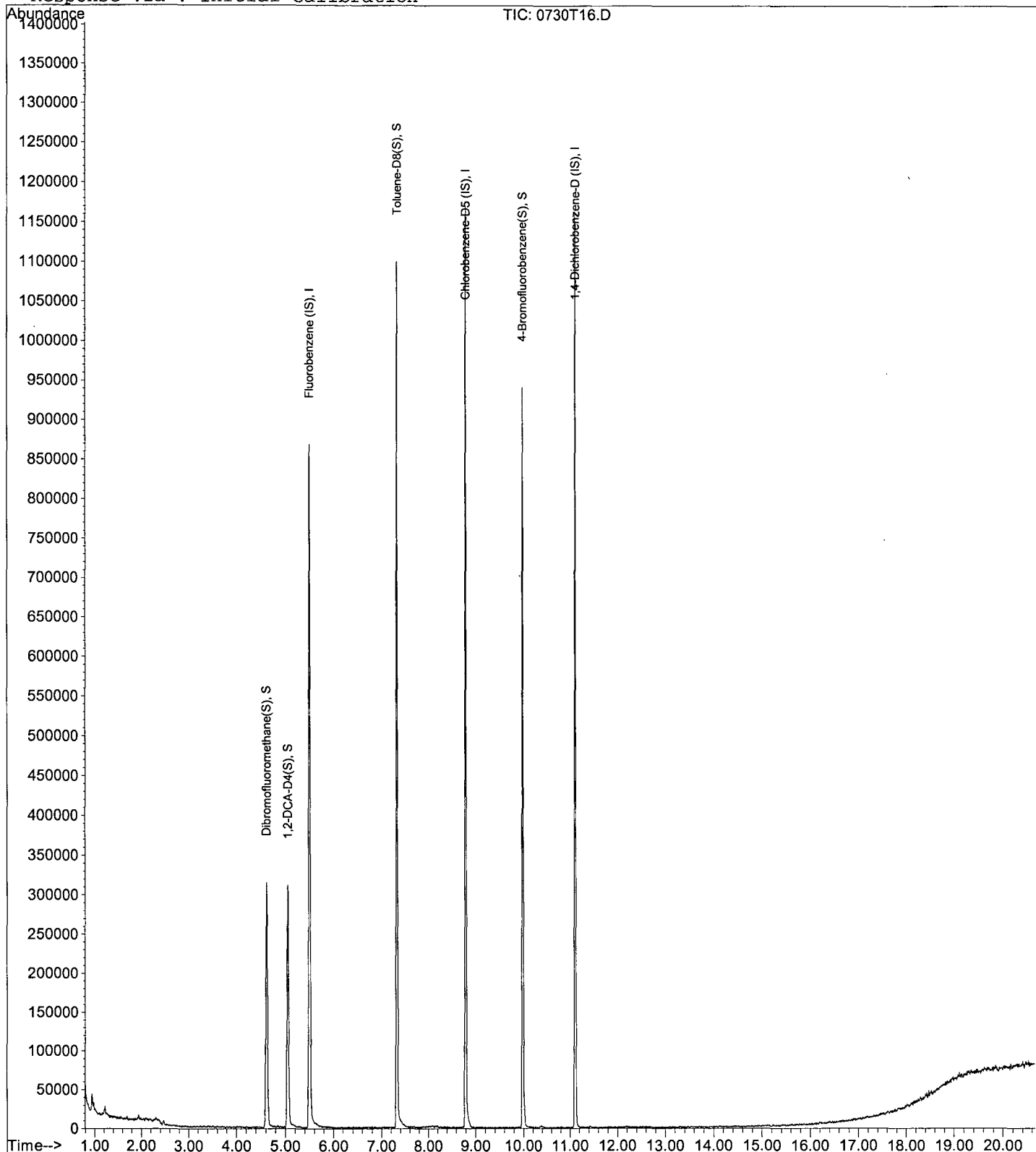
Data File : M:\THOR\DATA\T190726\0730T16.D
Acq On : 30 Jul 19 16:25
Sample : AZ95422W01
Misc : IS&S 7/6/19, 6/2/19

Vial: 13
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 31 12:27 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0730T17.D Vial: 14
 Acq On : 30 Jul 19 16:53 Operator:
 Sample : AZ95423W01 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 31 12:28 2019 Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	435136	25.00000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	418496	25.00000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	216128	25.00000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	309939	33.68902	ppb	0.00
Spiked Amount				25.000		
					Recovery = 134.756%	
45) 1,2-DCA-D4(S)	5.05	65	350146	33.36324	ppb	0.00
Spiked Amount				25.000		
					Recovery = 133.452%	
66) Toluene-D8(S)	7.32	98	1036202	32.84719	ppb	0.00
Spiked Amount				25.000		
					Recovery = 131.388%	
74) 4-Bromofluorobenzene(S)	9.98	95	387458	31.81032	ppb	0.00
Spiked Amount				25.000		
					Recovery = 127.240%	

Target Compounds Qvalue

Quantitation Report

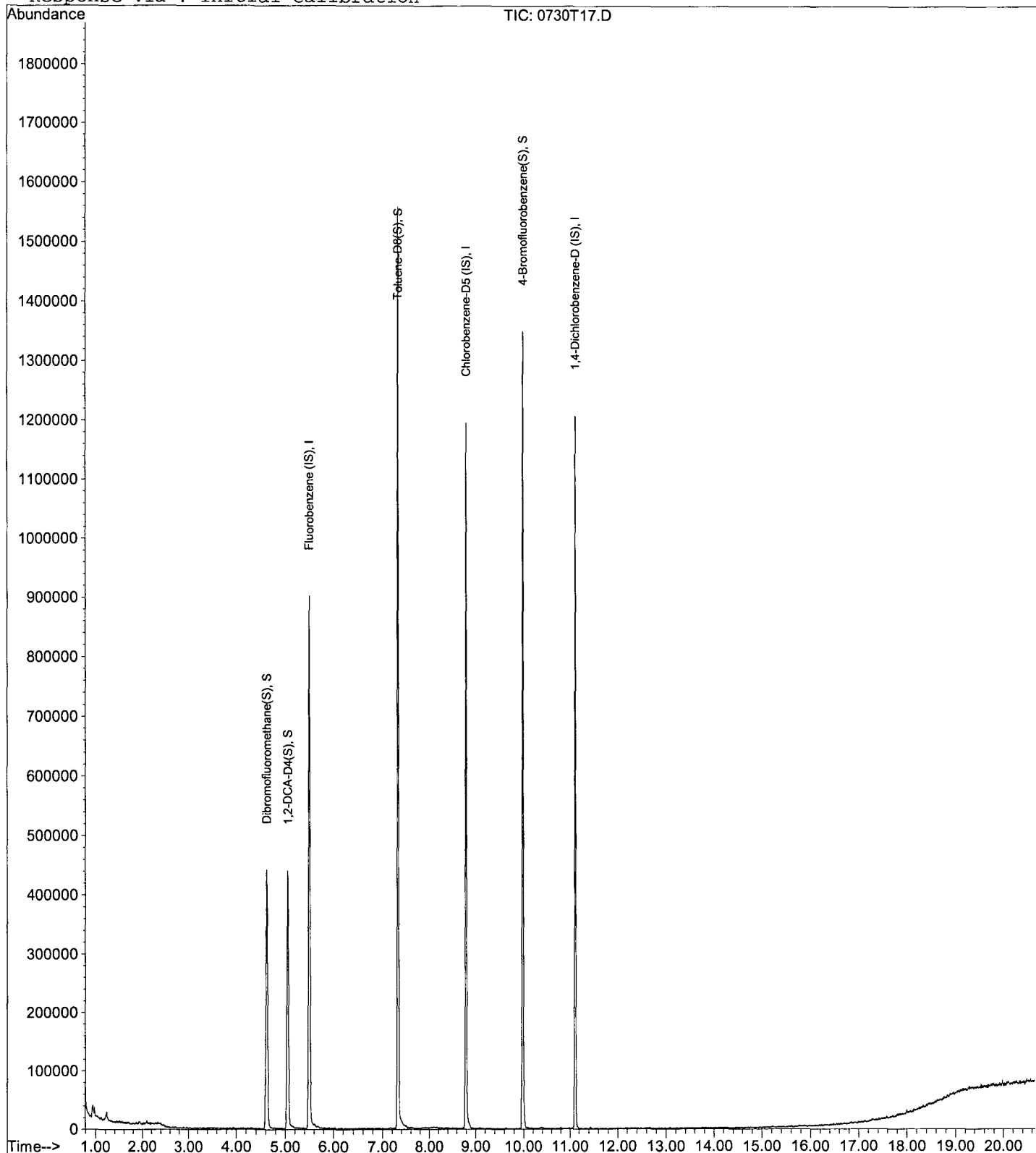
Data File : M:\THOR\DATA\T190726\0730T17.D
Acq On : 30 Jul 19 16:53
Sample : AZ95423W01
Misc : IS&S 7/6/19, 6/2/19

Vial: 14
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 31 12:28 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0730T11.D
 Acq On : 30 Jul 19 14:05
 Sample : 190730A BLK
 Misc : IS&S 7/6/19, 6/2/19

Vial: 8
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 31 12:24 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	437824	25.00000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	436032	25.00000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	217984	25.00000	ppb	0.00

System Monitoring Compounds

40) Dibromofluoromethane(S)	4.62	111	231590	25.01828	ppb	0.00
Spiked Amount				25.000		
						Recovery = 100.072%
45) 1,2-DCA-D4(S)	5.05	65	261328	24.74745	ppb	0.00
Spiked Amount				25.000		
						Recovery = 98.988%
66) Toluene-D8(S)	7.32	98	780084	23.73385	ppb	0.00
Spiked Amount				25.000		
						Recovery = 94.936%
74) 4-Bromofluorobenzene(S)	9.98	95	298291	23.50480	ppb	0.00
Spiked Amount				25.000		
						Recovery = 94.020%

Target Compounds

Qvalue

Quantitation Report

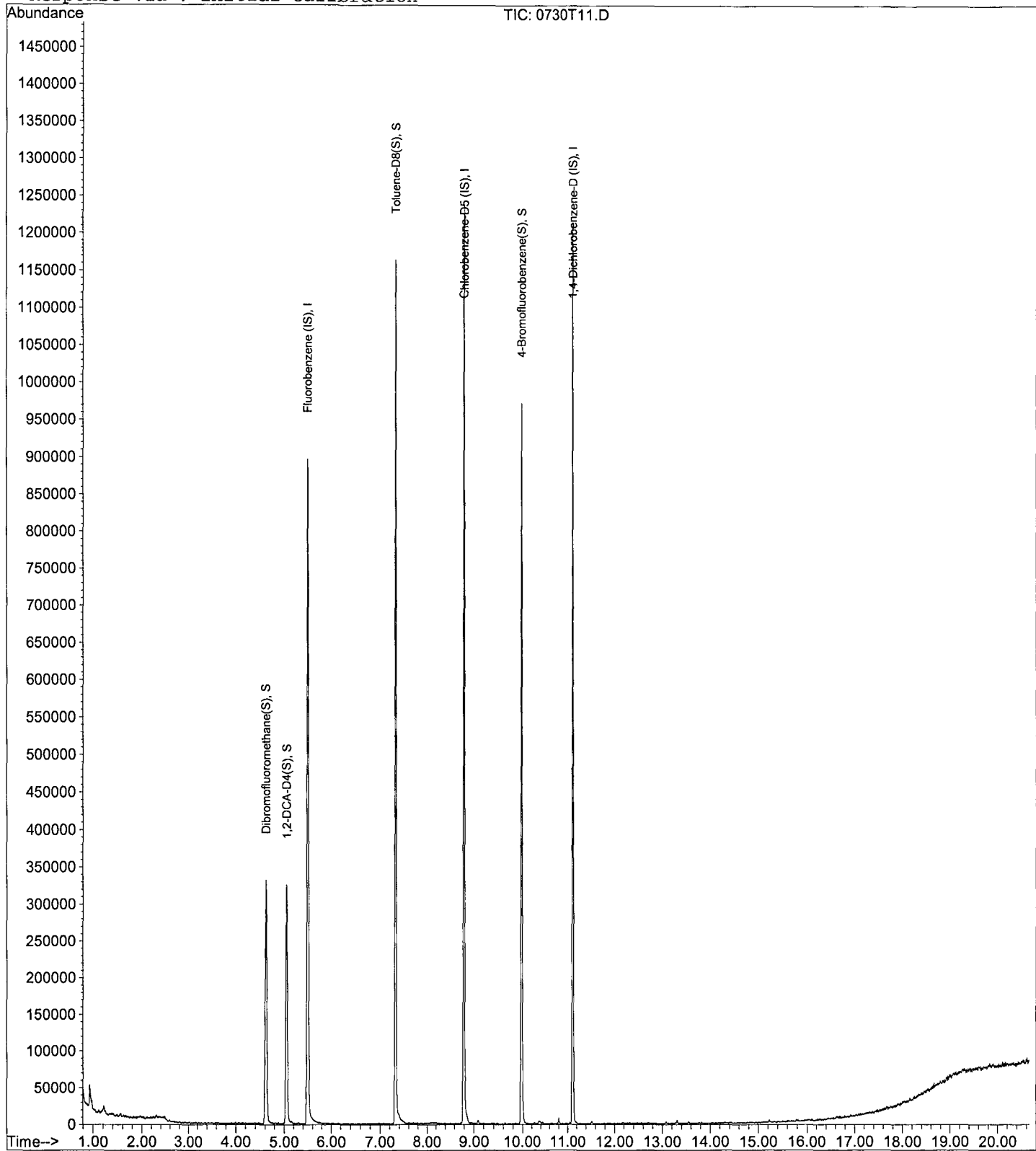
Data File : M:\THOR\DATA\T190726\0730T11.D
Acq On : 30 Jul 19 14:05
Sample : 190730A BLK
Misc : IS&S 7/6/19, 6/2/19

Vial: 8
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 31 12:24 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0730T06.D
 Acq On : 30 Jul 19 11:44
 Sample : 190730A LCS 10ug/L
 Misc : IS&S 7/6/19, 6/2/19

Vial: 3
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 31 10:25 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	460224	25.00000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	455296	25.00000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	239424	25.00000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	247219	25.40679	ppb	0.00
Spiked Amount	25.000		Recovery	=	101.628%	
45) 1,2-DCA-D4(S)	5.05	65	282998	25.49518	ppb	0.00
Spiked Amount	25.000		Recovery	=	101.980%	
66) Toluene-D8(S)	7.32	98	861886	25.11315	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.452%	
74) 4-Bromofluorobenzene(S)	9.98	95	329050	24.83149	ppb	0.00
Spiked Amount	25.000		Recovery	=	99.324%	
Target Compounds						
2) Chlorotrifluoroethene	0.85	116	167543	96.58940	ppb	99
3) Dichlorodifluoromethane	0.87	87	10724	7.77870	ppb	96
4) Freon 114	0.95	85	29083	9.11176	ppb	96
5) Chloromethane	0.98	50	63041	8.35682	ppb	95
6) Vinyl chloride	1.05	62	35337	8.78870	ppb	93
7) 2-Chloro-1,1,1-trifluoroet	0.85	118	52860	92.82325	ppb	# 100
8) Bromomethane	1.25	94	12160	9.63551	ppb	# 73
9) Chloroethane	1.32	64	20364	8.93050	ppb	95
10) Dichlorofluoromethane	1.47	67	53002	9.62412	ppb	96
11) Trichlorofluoromethane	1.50	101	53815	9.31355	ppb	93
13) Acrolein	1.81	55	23449	115.50280	ppb	96
14) Acetone	1.94	43	13799	8.73021	ppb	96
15) Freon-113	1.90	101	15053	9.77838	ppb	94
16) 1,1-DCE	1.88	61	43959	8.97088	ppb	97
17) 2-Propanol	2.10	45	21375	84.15662	ppb	# 88
18) Acetonitrile	2.17	41	58244	107.61342	ppb	91
19) t-Butanol	2.50	59	22592	107.64094	ppb	97
20) Methyl Acetate	2.24	43	29386	9.30386	ppb	99
21) Iodomethane	1.99	142	6087	7.90859	ppb	# 89
22) Acrylonitrile	2.56	52	11474	9.15965	ppb	75
23) Methylene chloride	2.31	84	33931	9.16979	ppb	97
24) Carbon disulfide	2.04	76	71702	9.37686	ppb	95
25) Methyl t-butyl ether (MtBE)	2.61	73	84109	8.92098	ppb	94
26) Trans-1,2-DCE	2.58	96	33080	9.90863	ppb	98
28) Diisopropyl Ether	3.22	45	33056	9.13037	ppb	97
30) 1,1-DCA	3.05	63	60473	9.45782	ppb	94
31) Vinyl Acetate	3.22	87	24776	9.30736	ppb	92
32) Ethyl tert Butyl Ether	3.73	59	63850	9.40961	ppb	95
33) MEK (2-Butanone)	3.95	43	6189	9.82328	ppb	90
34) Cis-1,2-DCE	3.85	61	52467	9.30265	ppb	95
35) 2,2-Dichloropropane	3.84	77	18312	10.77067	ppb	# 55
38) Chloroform	4.39	83	61690	9.14378	ppb	95
39) Bromochloromethane	4.22	128	20719	10.22415	ppb	78
41) 1,1,1-TCA	4.61	97	20944	9.27668	ppb	85
42) Cyclohexane	4.66	41	21089	8.88454	ppb	# 66
43) 1,1-Dichloropropene	4.85	75	41193	8.89045	ppb	99
44) 2,2,4-Trimethylpentane	5.29	57	29888	10.25531	ppb	97
46) Carbon Tetrachloride	4.83	117	39440	9.16107	ppb	98
47) Tert Amyl Methyl Ether	5.35	73	54199	8.50836	ppb	97

(#) = qualifier out of range (m) = manual integration
 0730T06.D T0726W.M Thu Aug 15 09:21:40 2019

Data File : M:\THOR\DATA\T190726\0730T06.D
 Acq On : 30 Jul 19 11:44
 Sample : 190730A LCS 10ug/L
 Misc : IS&S 7/6/19, 6/2/19

Vial: 3
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 31 10:25 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) 1,2-DCA	5.15	62	50457	9.05016	ppb	93
50) Benzene	5.11	78	131191	9.49356	ppb	94
51) TCE	5.95	95	36496	9.66264	ppb	98
52) 2-Pentanone	6.23	43	302718	111.36183	ppb	97
53) 1,2-Dichloropropane	6.20	63	15975	8.85064	ppb #	100
54) Bromodichloromethane	6.54	83	25048	9.06277	ppb	98
55) Methyl Cyclohexane	6.16	83	40583	9.10751	ppb	95
56) Dibromomethane	6.32	93	25219	9.71129	ppb	95
57) MIBK (methyl isobutyl ket	7.26	58	12136	8.29680	ppb #	77
58) 1-Bromo-2-chloroethane	6.85	63	42926	9.23798	ppb	97
59) 2-Chloroethyl vinyl ether	6.85	107	1247	21.50453	ppb #	49
60) Cis-1,3-Dichloropropene	7.05	75	29688	9.23810	ppb	93
61) Toluene	7.39	91	143540	9.45095	ppb	97
62) Trans-1,3-Dichloropropene	7.66	75	47874	9.60316	ppb	97
63) 1,1,2-TCA	7.83	83	27586	9.36712	ppb	87
64) 2-Hexanone	8.14	58	6360	7.52502	ppb #	79
67) 1,2-EDB	8.30	107	37899	9.85670	ppb	92
68) Tetrachloroethene	7.95	164	42134	9.39335	ppb	93
69) 1-Chlorohexane	8.85	91	32487	9.30603	ppb	97
70) 1,1,1,2-Tetrachloroethane	8.92	131	24240	9.96132	ppb	96
71) m&p-Xylene	9.08	106	69472	18.94293	ppb	98
72) o-Xylene	9.47	106	54177	9.07340	ppb	97
73) Styrene	9.48	104	77645	9.12281	ppb	96
75) 1,3-Dichloropropane	7.99	76	36088	9.82082	ppb	97
76) Dibromochloromethane	8.21	129	26008	10.08076	ppb	96
77) Chlorobenzene	8.82	112	98817	9.54408	ppb	97
78) Ethylbenzene	8.96	91	153924	9.47893	ppb	100
79) Bromoform	9.64	173	19608	8.64474	ppb #	30
81) Isopropylbenzene	9.85	105	143267	9.73761	ppb	97
82) 1,1,2,2-Tetrachloroethane	10.15	83	45072	9.47786	ppb	92
83) 1,2,3-Trichloropropane	10.17	110	15108	8.75318	ppb	96
84) t-1,4-Dichloro-2-Butene	10.21	53	4308	7.40584	ppb	94
85) Bromobenzene	10.10	156	47175	9.92081	ppb	99
86) n-Propylbenzene	10.26	91	144935	9.36394	ppb	97
87) 4-Ethyltoluene	10.37	105	102760	9.38505	ppb	100
88) 2-Chlorotoluene	10.31	91	101882	10.14717	ppb	98
89) 1,3,5-Trimethylbenzene	10.44	105	109443	9.52618	ppb	98
90) 4-Chlorotoluene	10.42	91	113375	9.72065	ppb	97
91) Tert-Butylbenzene	10.75	119	101133	9.16824	ppb	98
92) 1,2,4-Trimethylbenzene	10.80	105	107133	9.18996	ppb	100
93) Sec-Butylbenzene	10.97	105	128383	9.53933	ppb	100
94) p-Isopropyltoluene	11.13	119	112145	9.29474	ppb	99
95) Benzyl Chloride	11.28	91	21712	9.12063	ppb	98
96) 1,3-DCB	11.05	146	81712	9.78324	ppb	98
97) 1,4-DCB	11.14	146	78296	9.41548	ppb	93
98) n-Butylbenzene	11.53	91	95130	9.85026	ppb	99
99) 1,2-DCB	11.49	146	77733	10.01556	ppb	99
100) Hexachloroethane	11.74	117	12465	8.38357	ppb #	98
101) 1,2-Dibromo-3-chloropropan	12.26	157	10701	9.65936	ppb	94
102) 1,2,4-Trichlorobenzene	13.08	182	32016	10.52712	ppb	98
103) Hexachlorobutadiene	13.28	225	31319	11.02438	ppb	96
104) Naphthalene	13.31	128	65440	9.94186	ppb	94
105) 1,2,3-Trichlorobenzene	13.55	145	10073	10.43256	ppb	87

(#) = qualifier out of range (m) = manual integration

0730T06.D T0726W.M Thu Aug 15 09:21:41 2019

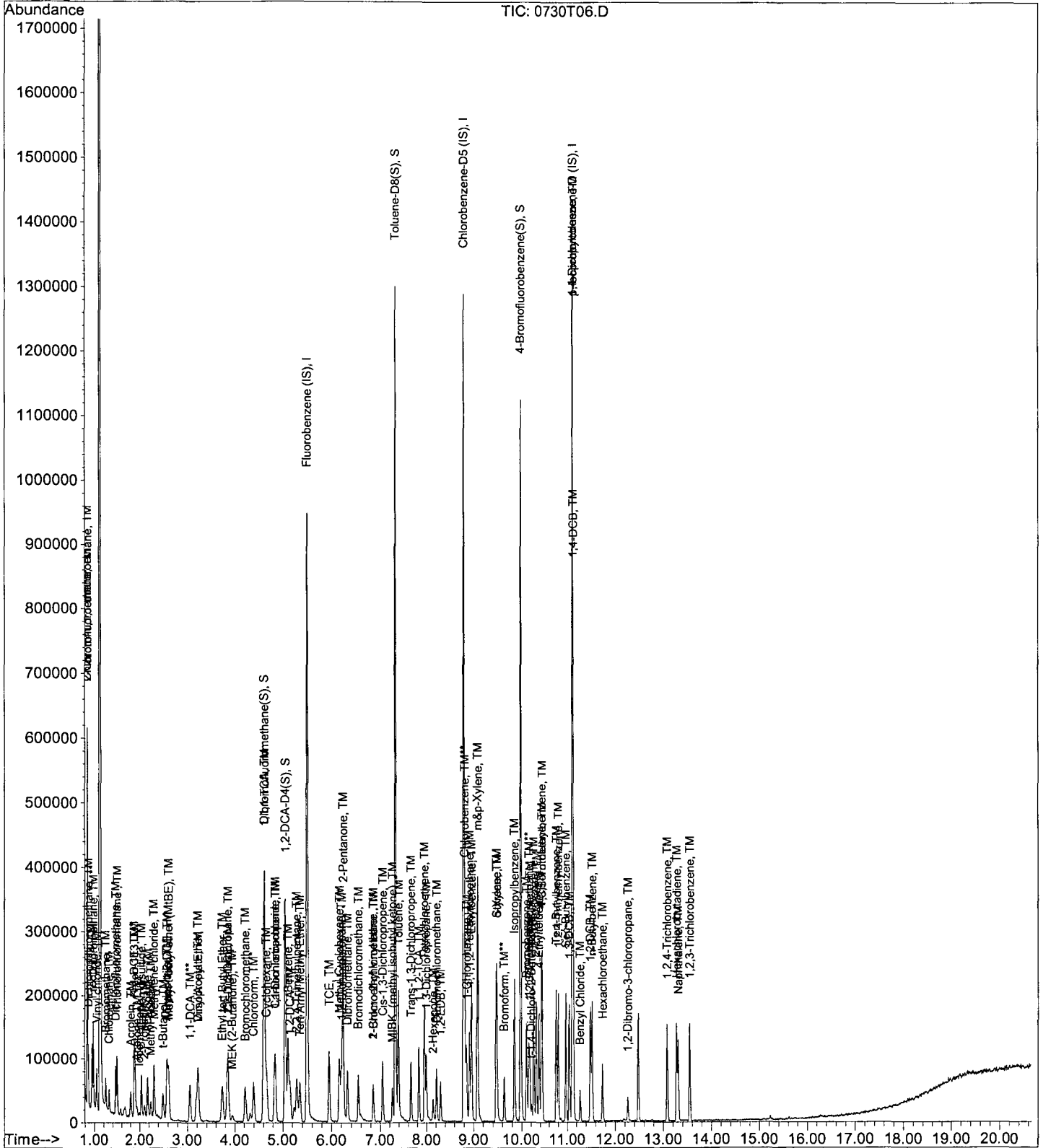
Data File : M:\THOR\DATA\T190726\0730T06.D
Acq On : 30 Jul 19 11:44
Sample : 190730A LCS 10ug/L
Misc : IS&S 7/6/19, 6/2/19

Vial: 3
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 31 10:25 2019

Quant Results File: T0726W.RES

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0730T07.D
 Acq On : 30 Jul 19 12:12
 Sample : 190730A LCSD 10ug/L
 Misc : IS&S 7/6/19, 6/2/19

Vial: 4
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 31 10:25 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	453120	25.00000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	459456	25.00000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	246848	25.00000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	222389	23.21332	ppb	0.00
Spiked Amount	25.000		Recovery	=	92.852%	
45) 1,2-DCA-D4(S)	5.05	65	256076	23.43148	ppb	0.00
Spiked Amount	25.000		Recovery	=	93.724%	
66) Toluene-D8(S)	7.32	98	768877	22.20026	ppb	0.00
Spiked Amount	25.000		Recovery	=	88.800%	
74) 4-Bromofluorobenzene(S)	9.98	95	297431	22.24216	ppb	0.00
Spiked Amount	25.000		Recovery	=	88.968%	
Target Compounds						
2) Chlorotrifluoroethene	0.85	116	168616	98.73202	ppb	98
3) Dichlorodifluoromethane	0.87	87	13684	10.25786	ppb	99
4) Freon 114	0.95	85	30907	9.83504	ppb	95
5) Chloromethane	0.98	50	69343	9.52167	ppb	99
6) Vinyl chloride	1.05	62	37231	9.40493	ppb	95
7) 2-Chloro-1,1,1-trifluoroet	0.85	118	55639	99.23502	ppb	# 100
8) Bromomethane	1.25	94	12869	10.42310	ppb	# 80
9) Chloroethane	1.32	64	23420	10.53022	ppb	94
10) Dichlorofluoromethane	1.47	67	54551	10.06068	ppb	98
11) Trichlorofluoromethane	1.50	101	55539	9.76261	ppb	99
13) Acrolein	1.81	55	24602	123.08202	ppb	87
14) Acetone	1.94	43	14473	9.47898	ppb	94
15) Freon-113	1.90	101	15549	10.26808	ppb	93
16) 1,1-DCE	1.88	61	46942	9.72982	ppb	96
17) 2-Propanol	2.11	45	25070	100.02981	ppb	100
18) Acetonitrile	2.17	41	65379	124.74363	ppb	99
19) t-Butanol	2.50	59	22328	108.05097	ppb	99
20) Methyl Acetate	2.24	43	30175	9.70345	ppb	97
21) Iodomethane	1.99	142	6857	8.96369	ppb	# 85
22) Acrylonitrile	2.56	52	11750	9.52704	ppb	82
23) Methylene chloride	2.31	84	37520	10.34028	ppb	99
24) Carbon disulfide	2.04	76	73882	9.81343	ppb	97
25) Methyl t-butyl ether (MtBE)	2.61	73	87144	9.38779	ppb	96
26) Trans-1,2-DCE	2.58	96	34503	10.49871	ppb	95
28) Diisopropyl Ether	3.22	45	31448	8.82241	ppb	# 86
30) 1,1-DCA	3.05	63	60738	9.64820	ppb	96
31) Vinyl Acetate	3.22	87	25492	9.72647	ppb	92
32) Ethyl tert Butyl Ether	3.73	59	65161	9.75336	ppb	95
33) MEK (2-Butanone)	3.94	43	5600	9.01166	ppb	96
34) Cis-1,2-DCE	3.86	61	59619	10.79267	ppb	95
35) 2,2-Dichloropropane	3.84	77	18376	10.98327	ppb	# 57
38) Chloroform	4.39	83	65950	9.92846	ppb	86
39) Bromochloromethane	4.22	128	22020	11.07731	ppb	100
41) 1,1,1-TCA	4.60	97	22792	10.27772	ppb	92
42) Cyclohexane	4.67	41	22001	9.43610	ppb	87
43) 1,1-Dichloropropene	4.85	75	43858	9.61403	ppb	98
44) 2,2,4-Trimethylpentane	5.28	57	28296	9.86590	ppb	99
46) Carbon Tetrachloride	4.83	117	38757	9.14566	ppb	95
47) Tert Amyl Methyl Ether	5.35	73	59675	9.51487	ppb	96

(#) = qualifier out of range (m) = manual integration
 0730T07.D T0726W.M Thu Aug 15 09:21:43 2019

Data File : M:\THOR\DATA\T190726\0730T07.D
 Acq On : 30 Jul 19 12:12
 Sample : 190730A LCSD 10ug/L
 Misc : IS&S 7/6/19, 6/2/19

Vial: 4
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 31 10:25 2019

Quant Results File: T0726W.RES

Quant Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) 1,2-DCA	5.15	62	51016	9.29389	ppb	95
50) Benzene	5.11	78	137342	10.09449	ppb	97
51) TCE	5.95	95	38605	10.38126	ppb	90
52) 2-Pentanone	6.23	43	313764	117.23499	ppb	98
53) 1,2-Dichloropropane	6.20	63	19752	11.13484	ppb #	100
54) Bromodichloromethane	6.55	83	26848	9.86633	ppb	98
55) Methyl Cyclohexane	6.16	83	40528	9.23693	ppb	99
56) Dibromomethane	6.33	93	24833	9.71257	ppb	96
57) MIBK (methyl isobutyl ket	7.26	58	12983	9.00529	ppb #	78
58) 1-Bromo-2-chloroethane	6.85	63	42028	9.18652	ppb	93
59) 2-Chloroethyl vinyl ether	6.85	107	1658	29.05899	ppb #	60
60) Cis-1,3-Dichloropropene	7.05	75	31128	9.83805	ppb	95
61) Toluene	7.39	91	148875	9.95589	ppb	97
62) Trans-1,3-Dichloropropene	7.66	75	48994	9.98190	ppb	99
63) 1,1,2-TCA	7.83	83	28260	9.74643	ppb	87
64) 2-Hexanone	8.14	58	7313	8.78825	ppb	89
67) 1,2-EDB	8.30	107	38339	9.88086	ppb	94
68) Tetrachloroethene	7.95	164	44883	9.91561	ppb	94
69) 1-Chlorohexane	8.85	91	33880	9.61718	ppb	97
70) 1,1,1,2-Tetrachloroethane	8.92	131	26304	10.71164	ppb	91
71) m&p-Xylene	9.08	106	73152	19.76576	ppb	97
72) o-Xylene	9.47	106	57934	9.61476	ppb	95
73) Styrene	9.48	104	84278	9.81249	ppb	97
75) 1,3-Dichloropropane	7.99	76	36944	9.96274	ppb	99
76) Dibromochloromethane	8.21	129	25928	9.95876	ppb	99
77) Chlorobenzene	8.82	112	105092	10.05824	ppb	98
78) Ethylbenzene	8.96	91	161880	9.87862	ppb	97
79) Bromoform	9.64	173	19976	8.71922	ppb	99
81) Isopropylbenzene	9.85	105	153422	10.11421	ppb	98
82) 1,1,2,2-Tetrachloroethane	10.15	83	48649	9.92237	ppb	93
83) 1,2,3-Trichloropropane	10.17	110	16107	9.05131	ppb	94
84) t-1,4-Dichloro-2-Butene	10.21	53	5116	8.48872	ppb	91
85) Bromobenzene	10.10	156	50557	10.31227	ppb	94
86) n-Propylbenzene	10.26	91	153415	9.61372	ppb	97
87) 4-Ethyltoluene	10.37	105	107351	9.50947	ppb	97
88) 2-Chlorotoluene	10.31	91	108937	10.54627	ppb	100
89) 1,3,5-Trimethylbenzene	10.44	105	113872	9.61360	ppb	99
90) 4-Chlorotoluene	10.42	91	116042	9.65009	ppb	98
91) Tert-Butylbenzene	10.75	119	107999	9.49623	ppb	97
92) 1,2,4-Trimethylbenzene	10.80	105	113545	9.44705	ppb	99
93) Sec-Butylbenzene	10.97	105	140315	10.11236	ppb	99
94) p-Isopropyltoluene	11.13	119	117819	9.47133	ppb	95
95) Benzyl Chloride	11.28	91	23312	9.50908	ppb	92
96) 1,3-DCB	11.04	146	86570	10.05316	ppb	93
97) 1,4-DCB	11.13	146	84864	9.89839	ppb	96
98) n-Butylbenzene	11.53	91	101553	10.19908	ppb	98
99) 1,2-DCB	11.49	146	81887	10.23347	ppb	97
100) Hexachloroethane	11.74	117	15534	10.13347	ppb #	96
101) 1,2-Dibromo-3-chloropropan	12.26	157	11780	10.31079	ppb	97
102) 1,2,4-Trichlorobenzene	13.08	182	35536	11.33312	ppb	97
103) Hexachlorobutadiene	13.27	225	30444	10.39790	ppb	92
104) Naphthalene	13.31	128	66512	9.80082	ppb	98
105) 1,2,3-Trichlorobenzene	13.55	145	9382	9.42466	ppb	87

(#) = qualifier out of range (m) = manual integration
 0730T07.D T0726W.M Thu Aug 15 09:21:43 2019

Quantitation Report

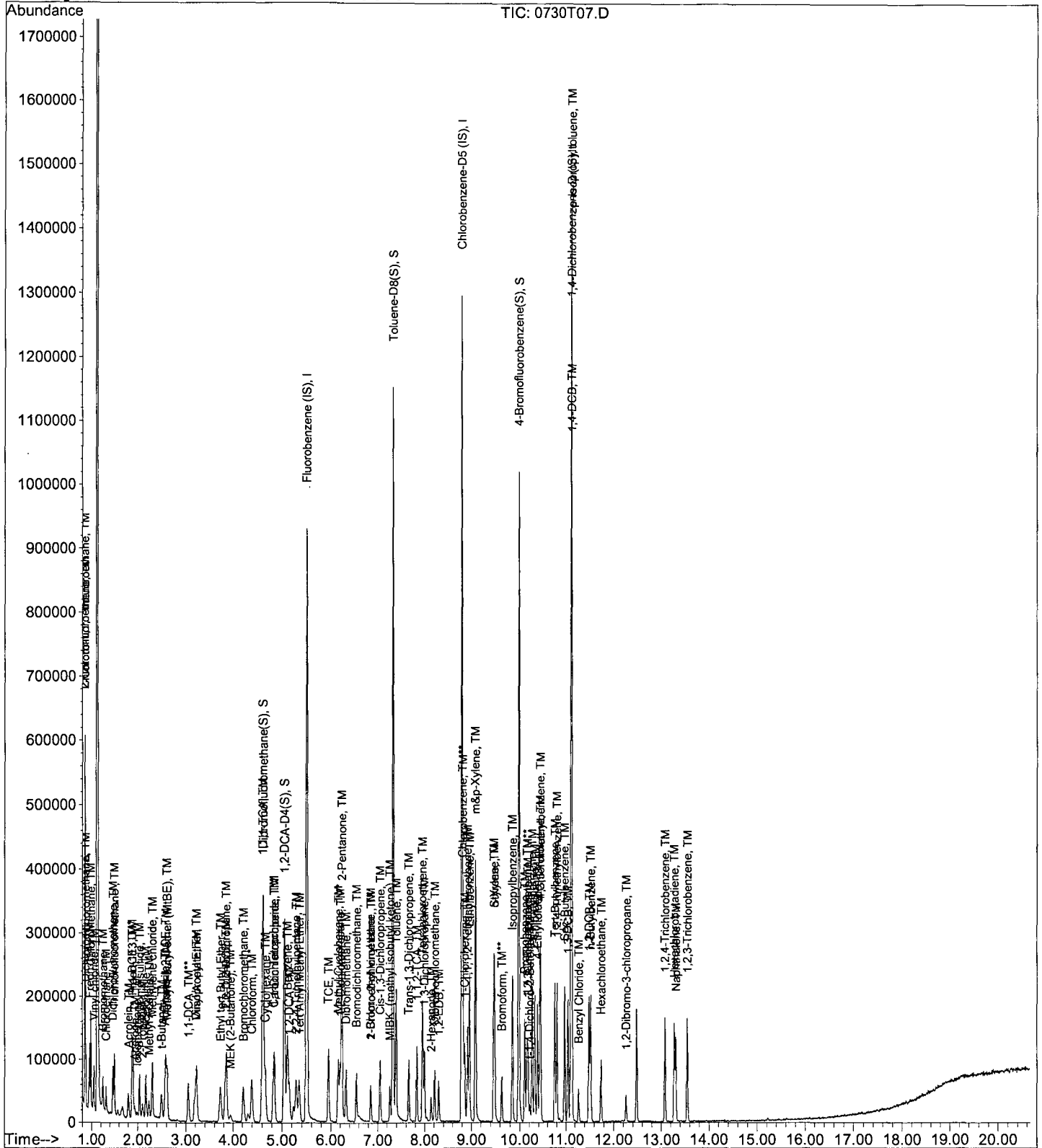
Data File : M:\THOR\DATA\T190726\0730T07.D
Acq On : 30 Jul 19 12:12
Sample : 190730A LCSD 10ug/L
Misc : IS&S 7/6/19, 6/2/19

Vial: 4
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 31 10:25 2019

Quant Results File: T0726W.RES

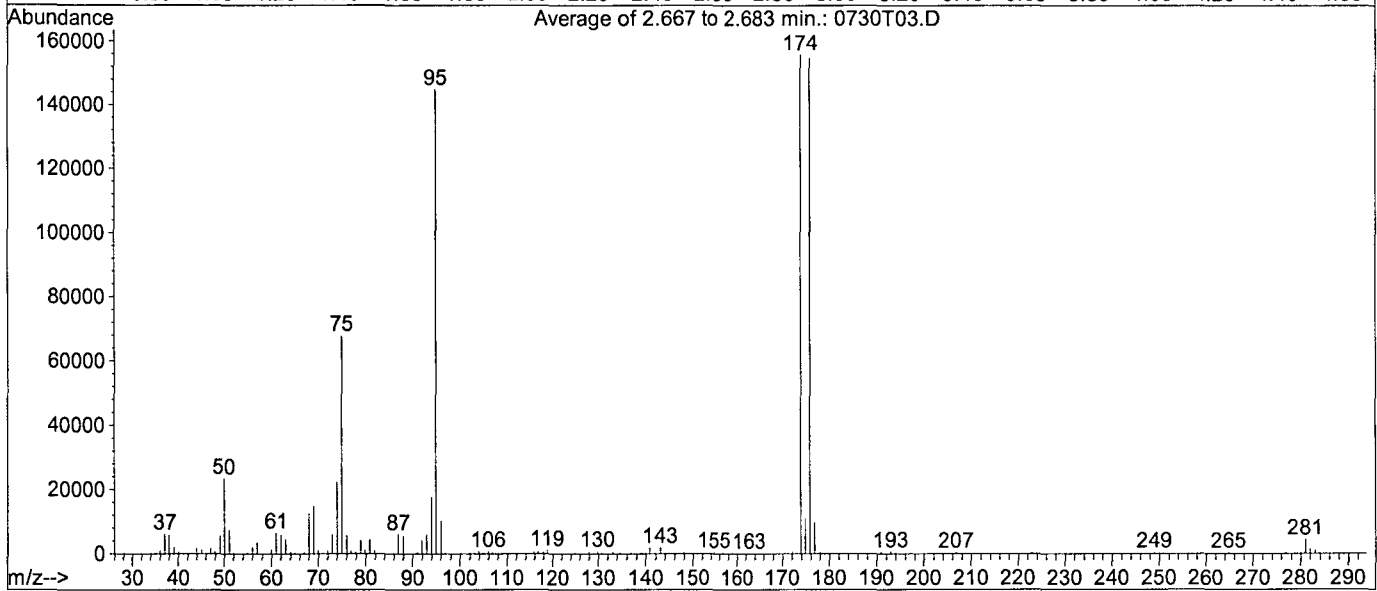
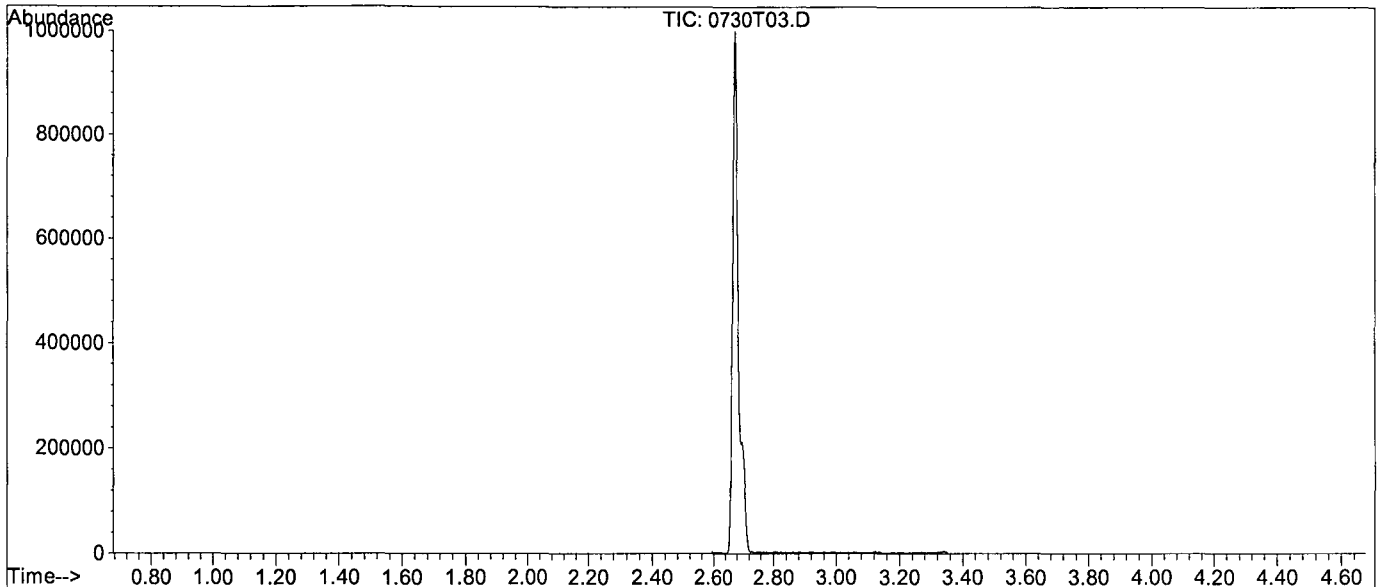
Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Jul 29 09:43:56 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0730T03.D
 Acq On : 30 Jul 19 10:25
 Sample : 25ug/mL BFB STD 7/5/19
 Misc : 2ul

Vial: 1
 Operator:
 Inst : Thor
 Multiplr: 1.00

Method : M:\THOR\DATA\T190725\T0725W.M (RTE Integrator)
 Title : METHOD 8260B



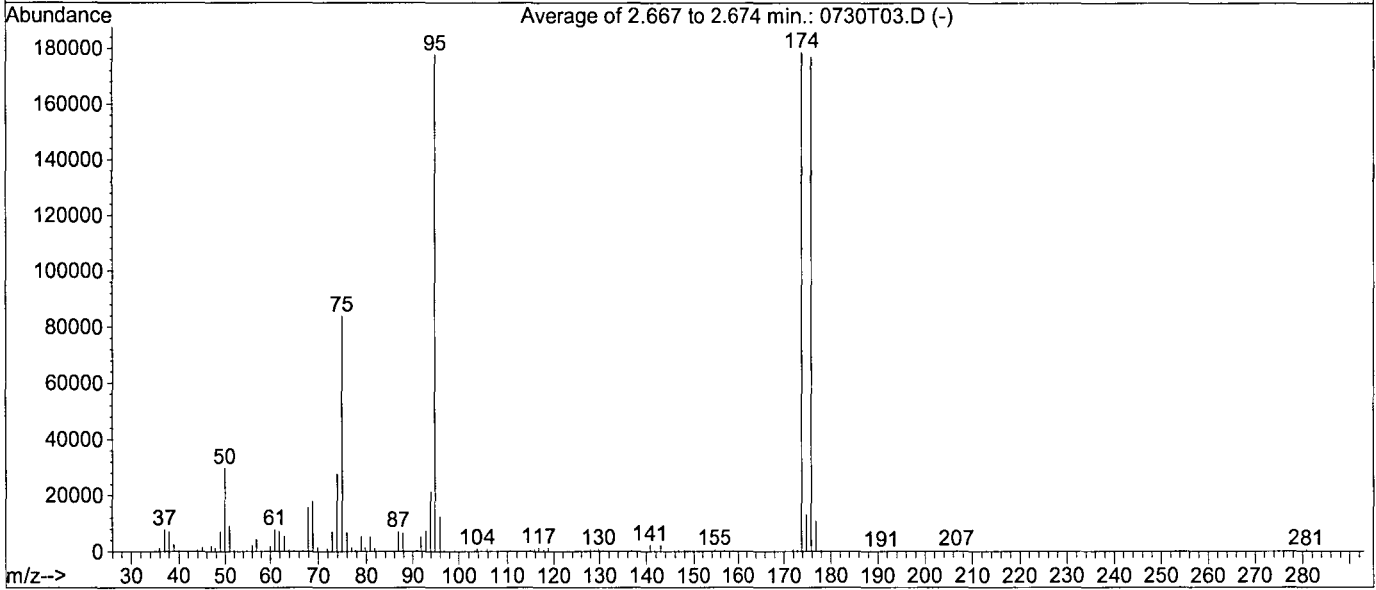
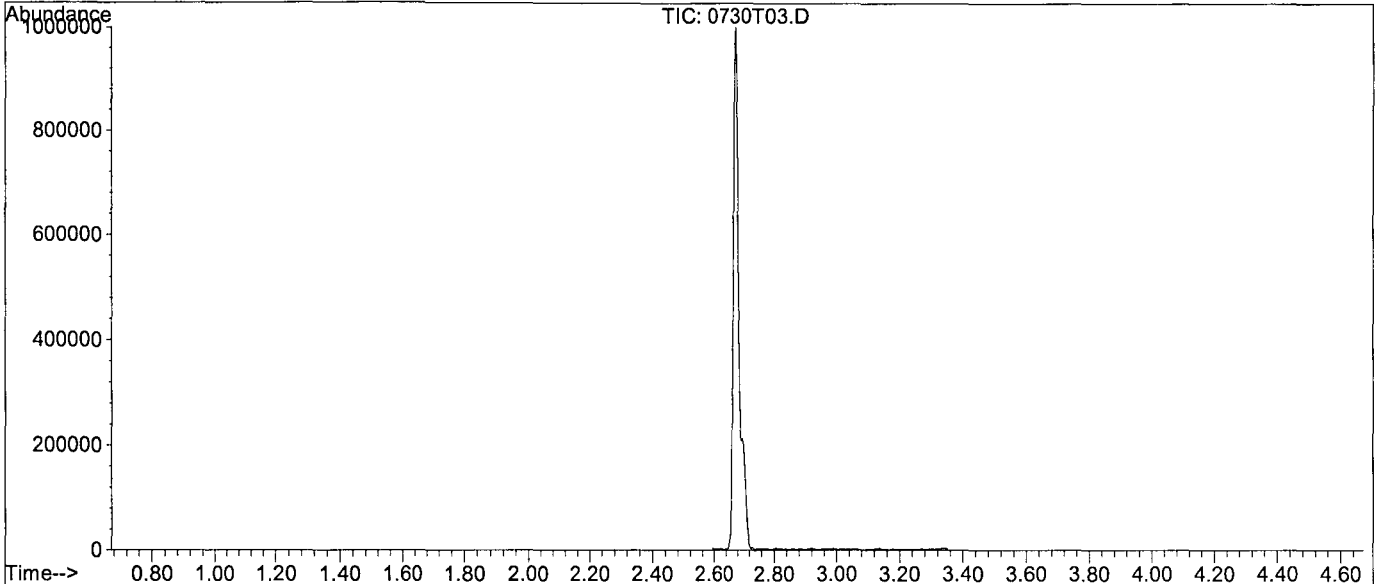
Spectrum Information: Average of 2.667 to 2.683 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.1	23324	PASS
75	95	30	60	46.8	67725	PASS
95	95	100	100	100.0	144719	PASS
96	95	5	9	7.0	10162	PASS
173	174	0.00	2	0.2	317	PASS
174	95	50	200	107.5	155584	PASS
175	174	5	9	7.0	10917	PASS
176	174	95	101	99.4	154579	PASS
177	176	5	9	6.3	9695	PASS

Data File : M:\THOR\DATA\T190726\0730T03.D
 Acq On : 30 Jul 19 10:25
 Sample : 25ug/mL BFB STD 7/5/19
 Misc : 2ul

Vial: 1
 Operator:
 Inst : Thor
 Multiplr: 1.00

Method : M:\THOR\DATA\T190726\T0726W.M (RTE Integrator)
 Title : METHOD 8260B



Spectrum Information: Average of 2.667 to 2.674 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.7	29645	PASS
75	95	30	60	47.2	83819	PASS
95	95	100	100	100.0	177664	PASS
96	95	5	9	7.0	12358	PASS
173	174	0.00	2	0.4	635	PASS
174	95	50	200	100.5	178517	PASS
175	174	5	9	7.4	13134	PASS
176	174	95	101	99.0	176789	PASS
177	176	5	9	6.2	10933	PASS

Thor 8260 Standard Prep

Thor 8260 Water Calibration Curve										
0.3ug/L				Prepared By (Initials): <u>CMM</u>						
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	0.3ug/L	5	Prepared 07/26/19	09/24/19	N/A	3uL	50mL	P&T Water	0.3
VOA STD. 10	O2SI		5	Prepared 07/26/19	09/24/19	N/A	3uL			0.3
VOA STD. 12	O2SI		5	Prepared 07/26/19	09/24/19	N/A	3uL			0.3
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	2uL			10
0.5ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	0.5ug/L	5	Prepared 07/26/19	09/24/19	N/A	5uL	50mL	P&T Water	0.5
VOA STD. 10	O2SI		5	Prepared 07/26/19	09/24/19	N/A	5uL			0.5
VOA STD. 12	O2SI		5	Prepared 07/26/19	09/24/19	N/A	5uL			0.5
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	5uL			25
1.0ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	1.0ug/L	5	Prepared 07/26/19	09/24/19	N/A	10uL	50mL	P&T Water	1
VOA STD. 10	O2SI		5	Prepared 07/26/19	09/24/19	N/A	10uL			1
VOA STD. 12	O2SI		5	Prepared 07/26/19	09/24/19	N/A	10uL			1
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	10uL			50
2.0ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	2.0ug/L	5	Prepared 07/26/19	09/24/19	N/A	20uL	50mL	P&T Water	2
VOA STD. 10	O2SI		5	Prepared 07/26/19	09/24/19	N/A	20uL			2
VOA STD. 12	O2SI		5	Prepared 07/26/19	09/24/19	N/A	20uL			2
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	15uL			75
5ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	5ug/L	50	Prepared 07/26/19	09/24/19	N/A	5uL	50mL	P&T Water	5
VOA STD. 8	Phenova		50	Prepared 07/26/19	07/31/19	N/A	5uL			5
VOA STD. 1	O2SI		50	Prepared 07/26/19	09/24/19	N/A	5uL			5
VOA STD. 2	O2SI		50	Prepared 07/26/19	09/24/19	N/A	5uL			5
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	20uL			100
10ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	10ug/L	50	Prepared 07/26/19	09/24/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova		50	Prepared 07/26/19	07/31/19	N/A	10uL			10
VOA STD. 1	O2SI		50	Prepared 07/26/19	09/24/19	N/A	10uL			10
VOA STD. 2	O2SI		50	Prepared 07/26/19	09/24/19	N/A	10uL			10
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	25uL			125

20ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	20ug/L	50	Prepared 07/26/19	09/24/19	N/A	20uL	50mL	P&T Water	20
VOA STD. 8	Phenova		50	Prepared 07/26/19	07/31/19	N/A	20uL			20
VOA STD. 1	O2SI		50	Prepared 07/26/19	09/24/19	N/A	20uL			20
VOA STD. 2	O2SI		50	Prepared 07/26/19	09/24/19	N/A	20uL			20
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	30uL			150
40ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	40ug/L	50	Prepared 07/26/19	09/24/19	N/A	40uL	50mL	P&T Water	40
VOA STD. 8	Phenova		50	Prepared 07/26/19	07/31/19	N/A	40uL			40
VOA STD. 1	O2SI		50	Prepared 07/26/19	09/24/19	N/A	40uL			40
VOA STD. 2	O2SI		50	Prepared 07/26/19	09/24/19	N/A	40uL			40
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	35uL			175
100ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	100ug/L	50	Prepared 07/26/19	09/24/19	N/A	100uL	50mL	P&T Water	100
VOA STD. 8	Phenova		50	Prepared 07/26/19	07/31/19	N/A	100uL			100
VOA STD. 1	O2SI		50	Prepared 07/26/19	09/24/19	N/A	100uL			100
VOA STD. 2	O2SI		50	Prepared 07/26/19	09/24/19	N/A	100uL			100
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	40uL			200
Thor 8260 Water Second Source (SS)										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 4	Phenova	8260 Water SS	50	Prepared 07/26/19	09/24/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 5	O2SI		50	Prepared 07/26/19	09/24/19	N/A	10uL			10
VOA STD. 6	Various		50	Prepared 07/26/19	07/17/19	N/A	10uL			10
VOA STD. TBA	Various		250	Prepared 07/26/19	07/17/19	N/A	25uL			250
8260 Water Continuing Calibrations (CCV)/ Lab Control Spikes (LCS)										
Prepared: 07/26/19										
Expires: 07/27/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	CCV/ LCS	50	Prepared 07/26/19	09/24/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova		50	Prepared 07/26/19	07/31/19	N/A	10uL			10
VOA STD. 1	O2SI		50	Prepared 07/26/19	09/24/19	N/A	10uL			10
VOA STD. 2	O2SI		50	Prepared 07/26/19	09/24/19	N/A	10uL			10
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	25uL			125
LCS (X4 Ketones)										
Prepared: 07/26/19										
Expires: 07/27/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	LCS X4 Ketones	50	Prepared 07/26/19	09/24/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova		50	Prepared 07/26/19	07/31/19	N/A	10uL			10
VOA STD. 1	O2SI		50	Prepared 07/26/19	09/24/19	N/A	10uL			10
VOA STD. 2	O2SI		50	Prepared 07/26/19	09/24/19	N/A	40uL			40
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	25uL			125

Primary and Secondary Working Standards

Primary Standards										
VOA STD 7										
Prepared: 07/26/19 G										
Expires: 09/24/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Gasses STD	Phenova	ALO-101206	2,000	CL12965-40902	07/26/20	11/30/23	100uL	4mL	Methanol	50
Hexachloroethane	Absolute	70199	1,000	091818-41092	07/26/20	09/18/23	200uL			50
Benzyl Chloride	Absolute	70037	1,000	061919-41087	07/26/20	06/19/20	200uL			50
VOA STD 8										
Prepared: 07/26/19 H										
Expires: 07/31/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Additions STD	Phenova	ALO-130175	2,000	CL12744-40591	07/09/20	08/31/20	100uL	4mL	Methanol	50
502.2 Cal. Std.	Phenova	ALO-101200	2,000	CL12489-40595	07/09/20	05/31/23	100uL			50
Vinyl Acetate	Phenova	ALO-101228	2,000	CL13816-41081	07/09/20	07/31/19	100uL			50
VOA STD TBA										
Prepared: 07/26/19 I										
Expires: 07/31/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Custom VOC Mix	Phenova	ALO-130176	2,000	CL12929-41066	07/17/20	11/30/20	500uL	4mL	Methanol	250
Acrolein	Phenova	ALO-130549	10,000	CL13820-41082	07/09/20	07/31/19	100uL			250
VOA STD 1										
Prepared: 07/26/19 J										
Expires: 09/24/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
2-CEVE	Absolute	071018-40341	2,000	071018-40713	07/05/20	07/10/21	50	2mL	Methanol	50
VOA STD 2										
Prepared: 07/26/19 K										
Expires: 09/24/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Ketones Std.	Phenova	ALO-109211	2,000	CL12729-40181	07/09/20	08/31/28	100	4mL	Methanol	50
VOA STD 9										
Prepared: 07/26/19 L										
Expires: 09/24/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA STD. 7		VOA STD. 9	50	Prepared 07/26/19	05/21/20	N/A	200uL	2mL	Methanol	5
VOA STD. 8			50	Prepared 07/26/19	05/21/20	N/A	200uL			5
VOA STD. 10										
Prepared: 07/26/19 M										
Expires: 09/24/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA STD. 1		VOA STD. 10	50	Prepared 07/26/19	05/21/20	N/A	200uL	2mL	Methanol	5
VOA STD. 12										
Prepared: 07/26/19 N										
Expires: 09/24/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA STD. 2		VOA STD. 12	50	Prepared 07/26/19	05/21/20	N/A	200uL	2mL	Methanol	5

Second Source (SS) Standards										
VOA STD. 3										
Prepared: 07/26/19 O										
Expires: 09/24/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): CMM										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Ketones Standard	Phenova	ALO-101211	2,000	CL12730-40609	07/09/20	08/31/28	50uL	2mL	Methanol	50
VOA STD. 5										
Prepared: 07/26/19 P										
Expires: 09/24/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): CMM										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
8260 Gases (SS)	Phenova	ALO-101206	2,000	CL12966-40912	06/26/20	11/30/23	50uL	2mL	Methanol	50
2-CEVE (SS)	Absolute	82408	2,000	071018-40965	0709/2020	07/10/21	50uL			50
VOA STD. 6										
Prepared: 07/26/19 Q										
Expires: 07/17/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): CMM										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
502.2 Calibration STD. (54-compounds)	Phenova	ALO-101200	2,000	CL12490-40917	07/09/20	05/31/23	50uL	2mL	Methanol	50
Vinyl Acetate	Phenova	ALO-101228	2,000	CL13739-40986	06/25/20	07/17/19	50uL			50
Hexachloroethane	Accustan	AS-E0011	1,000	219061767-41116	07/26/20	06/28/29	100uL			50
Benzyl Chloride	Accustan	M-8010-01	200	219041664	07/26/20	05/22/21	500uL			50
VOA STD. TBA										
Prepared: 07/26/19 R										
Expires: 07/17/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): CMM										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Custom VOA Mix (4-3)	Phenova	ALO-130176	2,000	CL12542-39863	07/17/20	05/31/20	250uL	2mL	Methanol	250
Acrolein	Phenova	ALO-101224	10,000	CL13741-40987	06/25/20	07/17/19	50uL			250
VOA STD. 0										
Prepared: 07/26/19 S										
Expires: 07/09/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): CMM										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Addition STD.	Phenova	ALO-130175	2,000	CL12744-40994	07/09/19	08/31/20	50uL	2mL	Methanol	50
BFB Tune										
Prepared: 07/24/19										
Expires: 01/19/21										
Methanol Lot No. 58019-00958										
Prepared By (Initials): CMM										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
4-Bromofluorobenzene	O2SI	020135-03	2,500	342387-39071	07/24/20	01/19/21	20uL	2mL	Methanol	25

Injection Log

Directory: M:\THOR\DATA\T190726\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	0726T00.D	1	25ug/mL BFB STD 7/5/19	2ul	26 Jul 19 11:50
4	0726T04.D	1	0.3ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 13:35
5	0726T05.D	1	0.5ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 14:03
6	0726T06.D	1	1.0ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 14:31
7	0726T07.D	1	2.0ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 14:59
8	0726T08.D	1	5.0ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 15:27
9	0726T09.D	1	10ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 15:55
10	0726T10.D	1	20ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 16:24
12	0726T12.D	1	100ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 17:20
16	0726T16.D	1	SS 10ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 19:13
1	0730T03.D	1	25ug/mL BFB STD 7/5/19	2ul	30 Jul 19 10:25
2	0730T05.D	1	190730A CCV 10ug/L	IS&S 7/6/19, 6/2/19	30 Jul 19 11:16
3	0730T06.D	1	190730A LCS 10ug/L	IS&S 7/6/19, 6/2/19	30 Jul 19 11:44
4	0730T07.D	1	190730A LCSD 10ug/L	IS&S 7/6/19, 6/2/19	30 Jul 19 12:12
8	0730T11.D	1	190730A BLK	IS&S 7/6/19, 6/2/19	30 Jul 19 14:05
9	0730T12.D	1	AZ95418W01	IS&S 7/6/19, 6/2/19	30 Jul 19 14:33
10	0730T13.D	1	AZ95419W01	IS&S 7/6/19, 6/2/19	30 Jul 19 15:01
11	0730T14.D	1	AZ95420W01	IS&S 7/6/19, 6/2/19	30 Jul 19 15:29
12	0730T15.D	1	AZ95421W01	IS&S 7/6/19, 6/2/19	30 Jul 19 15:57
13	0730T16.D	1	AZ95422W01	IS&S 7/6/19, 6/2/19	30 Jul 19 16:25
14	0730T17.D	1	AZ95423W01	IS&S 7/6/19, 6/2/19	30 Jul 19 16:53
26	0730T29.D	1	Ending CCV 10ug/L 07/30/19	IS&S 7/6/19, 6/2/19	30 Jul 19 22:31

**ORGANICS
Calibration Data**

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/29/19
Instrument: Thor

Initials: DP *KP*

0729T07.D 0729T08.D 0729T09.D 0729T10.D 0729T11.D 0729T12.D 0729T13.D

	Compound	1	2	3	4	5	6	7			Avg	%RSD	Type	r^2	Q	MRF
1	I Fluorobenzene (IS)															
2	TMHBL Gasoline C6-C10	15.3	5.605	2.936	1.288	0.8227	0.7011	0.6296			3.9	137	TMHBL	0.991		
3	I Chlorobenzene-D5 (IS)															
4	I 1,4-Dichlorobenzene-D (IS)															
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
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24																
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27																
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29																
30																
31																
32																
33																
34																
35																

Data File : M:\THOR\DATA\T190726\0729T07.D Vial: 7
 Acq On : 29 Jul 19 11:30 Operator:
 Sample : 20ug/L GAS STD 07/29/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:43 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:41:37 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.94	TIC	824552	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.70	TIC	1356871	25.0000	ppb	-0.10
4) 1,4-Dichlorobenzene-D (IS)	11.09	TIC	1400587	25.0000	ppb	-0.02

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.70	TIC	10095006m	111.9185	ppb	100

Quantitation Report

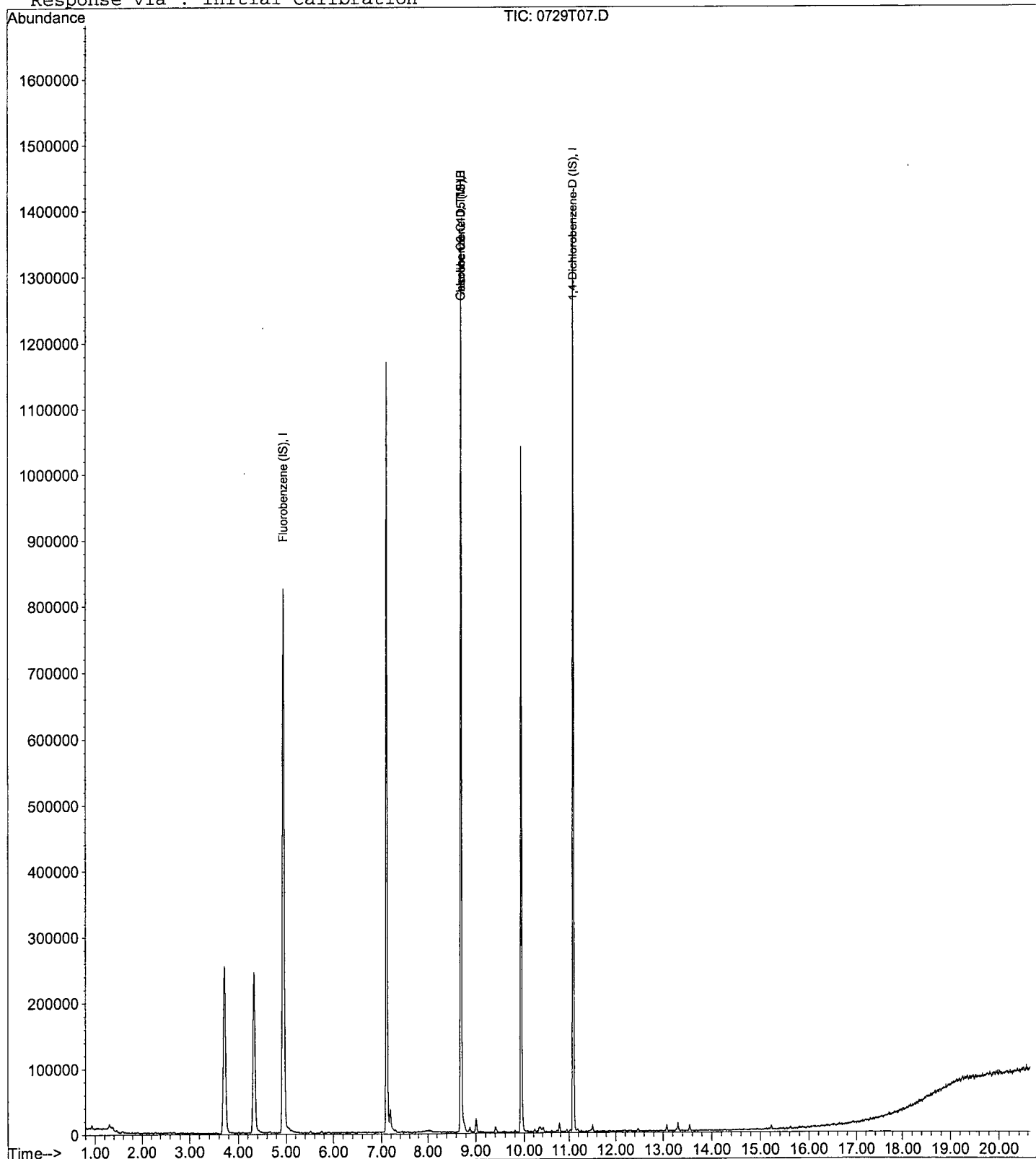
Data File : M:\THOR\DATA\T190726\0729T07.D
Acq On : 29 Jul 19 11:30
Sample : 20ug/L GAS STD 07/29/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 7
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:43 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T08.D Vial: 8
 Acq On : 29 Jul 19 11:57 Operator:
 Sample : 50ug/L GAS STD 07/29/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:40 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:36:38 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards,	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	961592	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1332586	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1332589	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.79	TIC	10779166m	159.0952	ppb	100

Quantitation Report

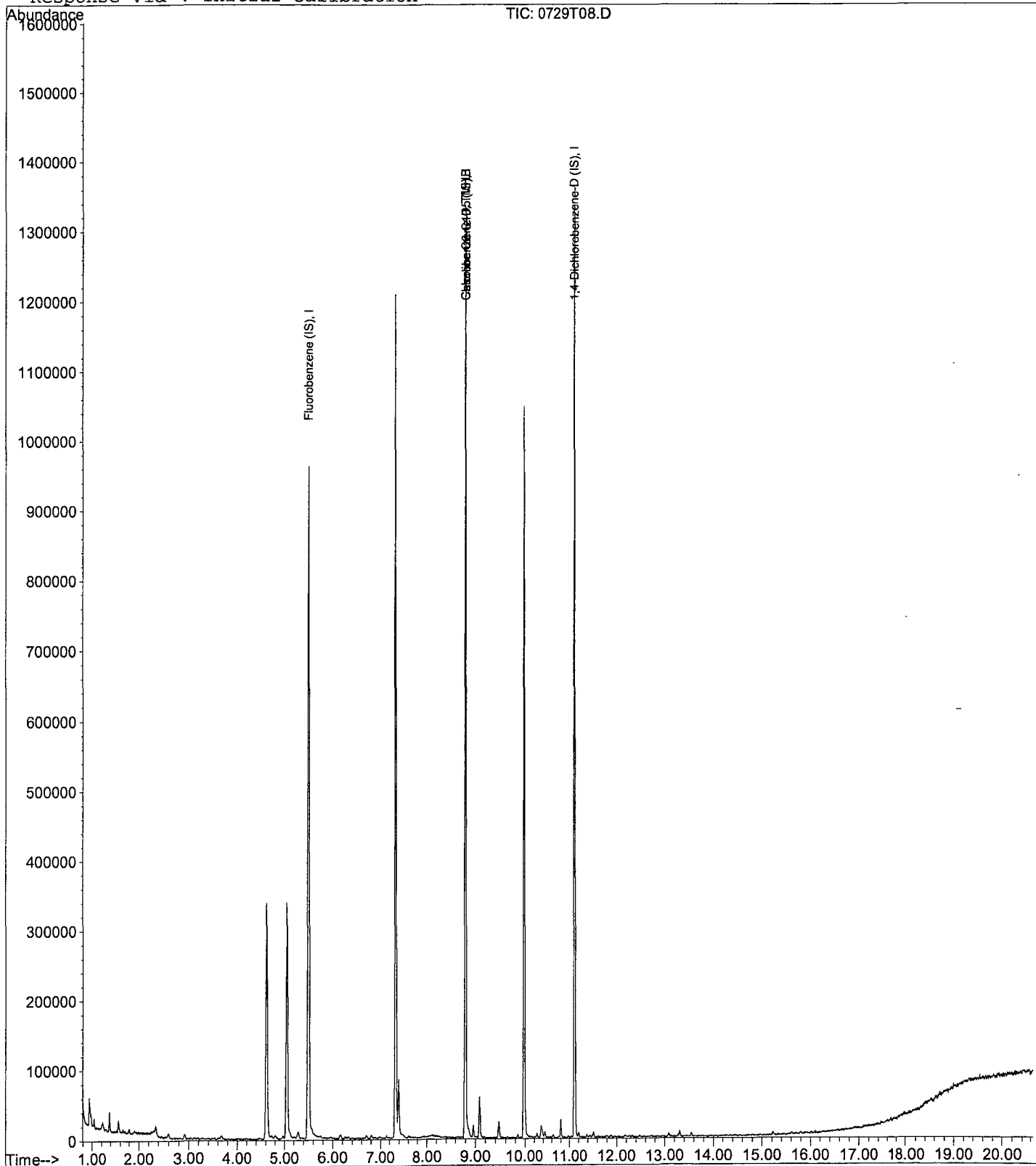
Data File : M:\THOR\DATA\T190726\0729T08.D
Acq On : 29 Jul 19 11:57
Sample : 50ug/L GAS STD 07/29/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 8
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:40 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T09.D Vial: 9
 Acq On : 29 Jul 19 12:25 Operator:
 Sample : 100ug/L GAS STD 07/29/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:40 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:36:38 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	992106	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1336771	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1363693	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.79	TIC	11652728m	193.4339	ppb	100

Quantitation Report

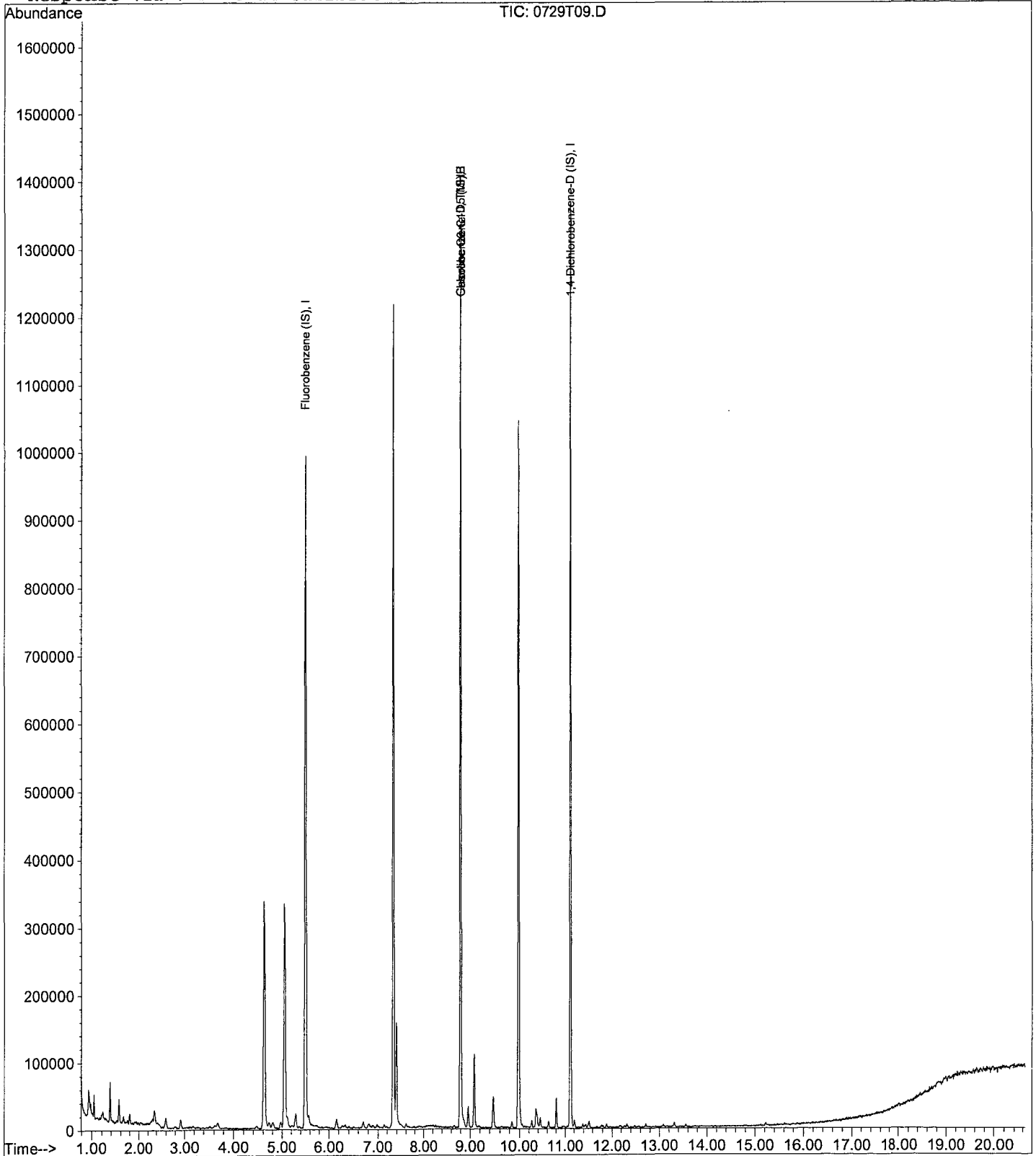
Data File : M:\THOR\DATA\T190726\0729T09.D
Acq On : 29 Jul 19 12:25
Sample : 100ug/L GAS STD 07/29/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 9
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:40 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T10.D Vial: 10
 Acq On : 29 Jul 19 12:53 Operator:
 Sample : 300ug/L GAS STD 07/29/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:39 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:36:38 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	986267	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1333798	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1392591	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	7.32	TIC	15244145m	431.2920	ppb	100

Quantitation Report

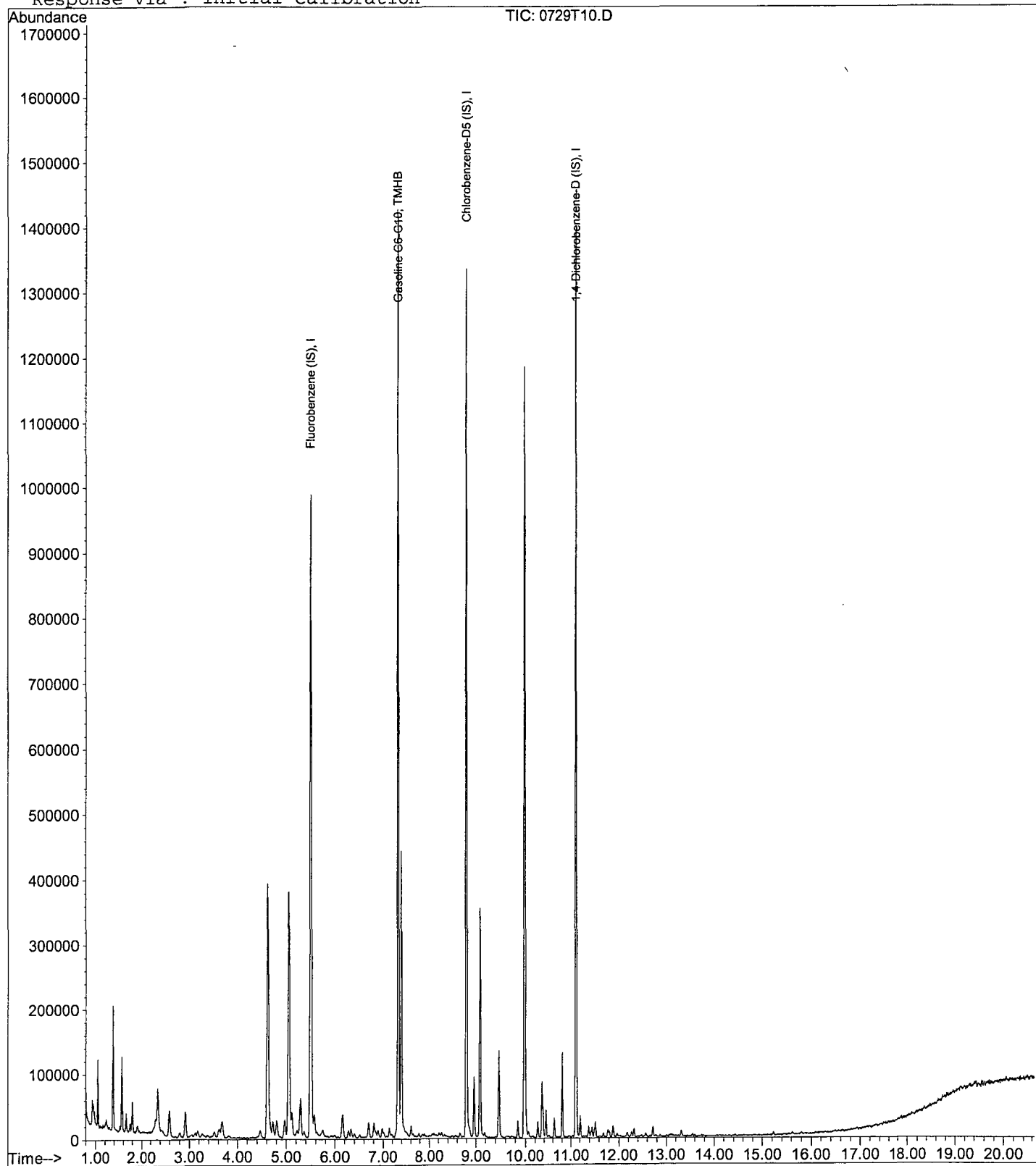
Data File : M:\THOR\DATA\T190726\0729T10.D
Acq On : 29 Jul 19 12:53
Sample : 300ug/L GAS STD 07/29/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 10
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:39 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T11.D Vial: 11
 Acq On : 29 Jul 19 13:21 Operator:
 Sample : 600ug/L GAS STD 07/29/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:39 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:36:38 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	970215	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1309357	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1343197	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	7.32	TIC	19155547m	706.0849	ppb	100

Quantitation Report

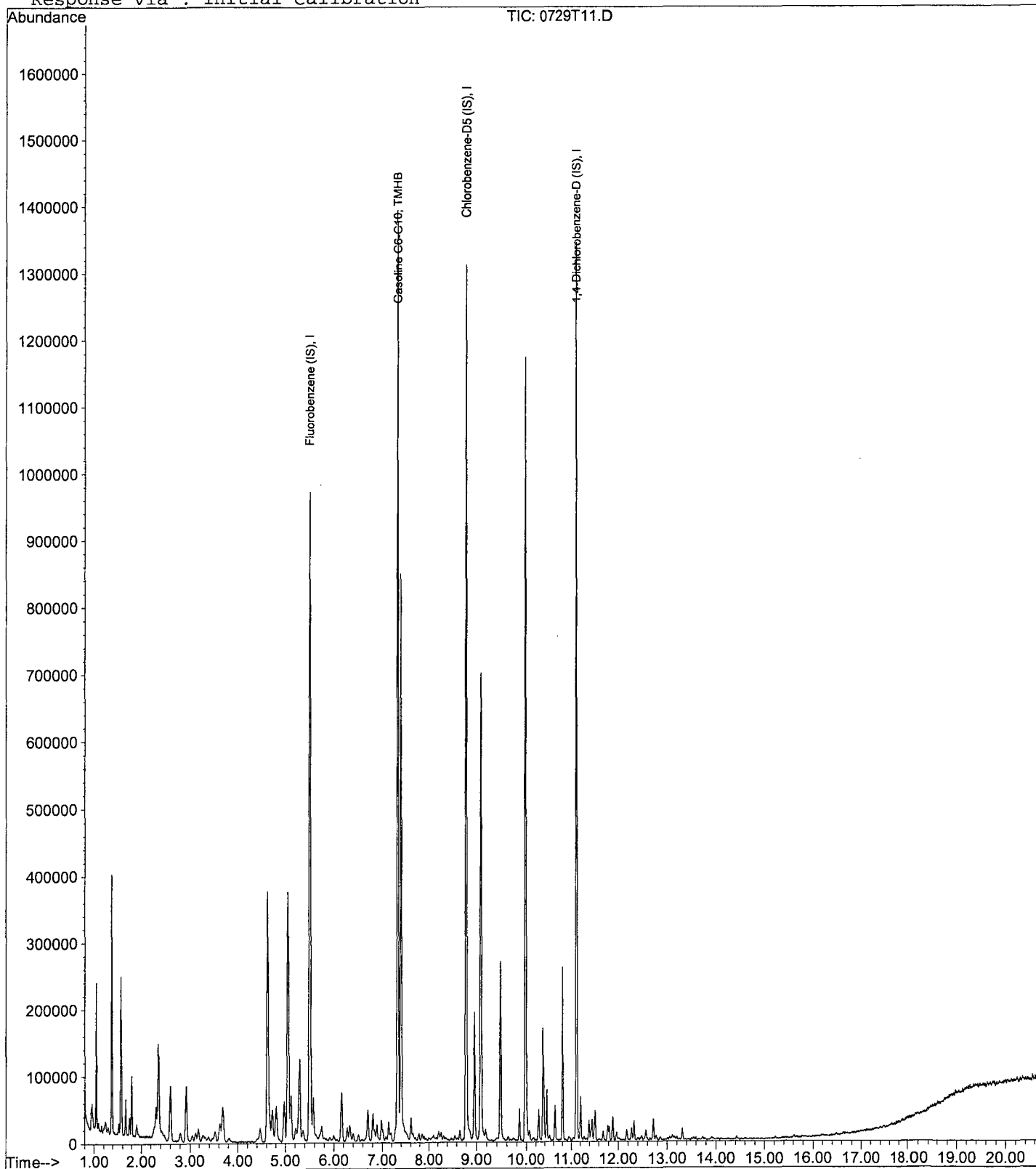
Data File : M:\THOR\DATA\T190726\0729T11.D
Acq On : 29 Jul 19 13:21
Sample : 600ug/L GAS STD 07/29/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 11
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:39 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T12.D Vial: 12
 Acq On : 29 Jul 19 13:50 Operator:
 Sample : 800ug/L GAS STD 07/29/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:38 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:36:38 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	965531	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1326588	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1372302	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.79	TIC	21661828m	878.6017	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

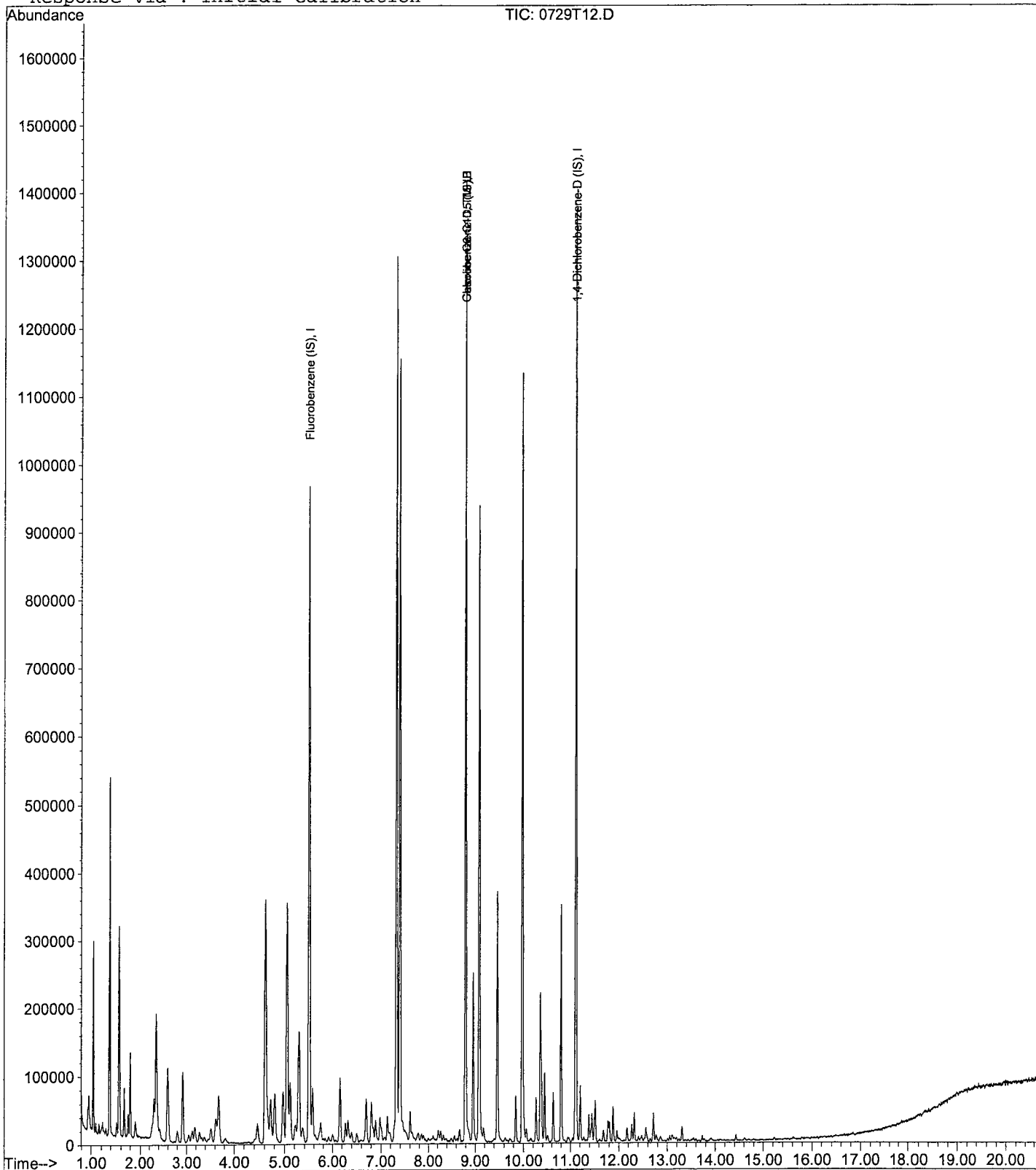
Data File : M:\THOR\DATA\T190726\0729T12.D
Acq On : 29 Jul 19 13:50
Sample : 800ug/L GAS STD 07/29/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 12
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:38 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T13.D Vial: 13
 Acq On : 29 Jul 19 14:18 Operator:
 Sample : 1000ug/L GAS STD 07/29/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:37 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:36:38 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	944837	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1305243	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1343908	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	7.39	TIC	23793184m	1054.6846	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

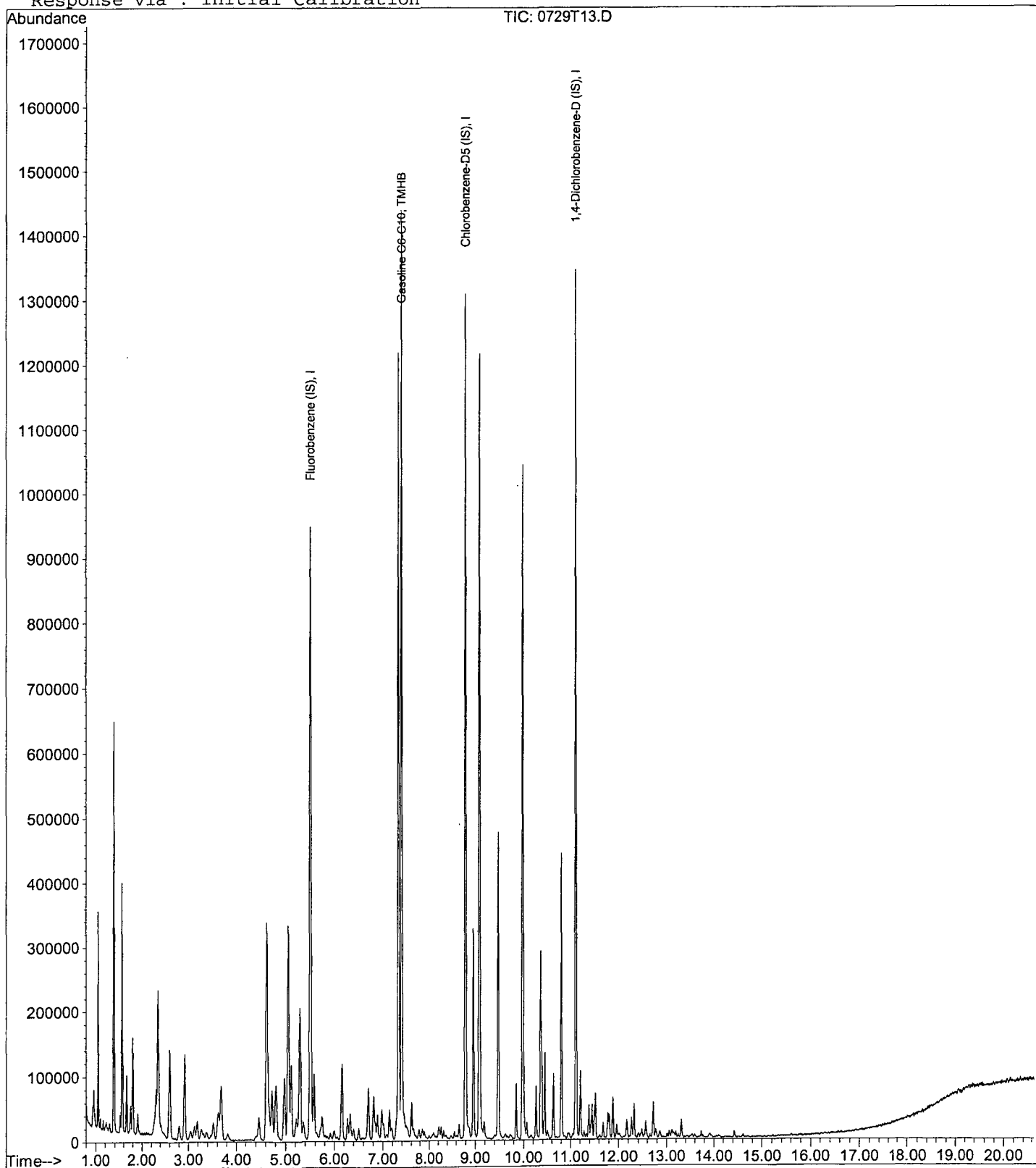
Data File : M:\THOR\DATA\T190726\0729T13.D
Acq On : 29 Jul 19 14:18
Sample : 1000ug/L GAS STD 07/29/19
Misc : IS&S 7/6/19, 6/2/19

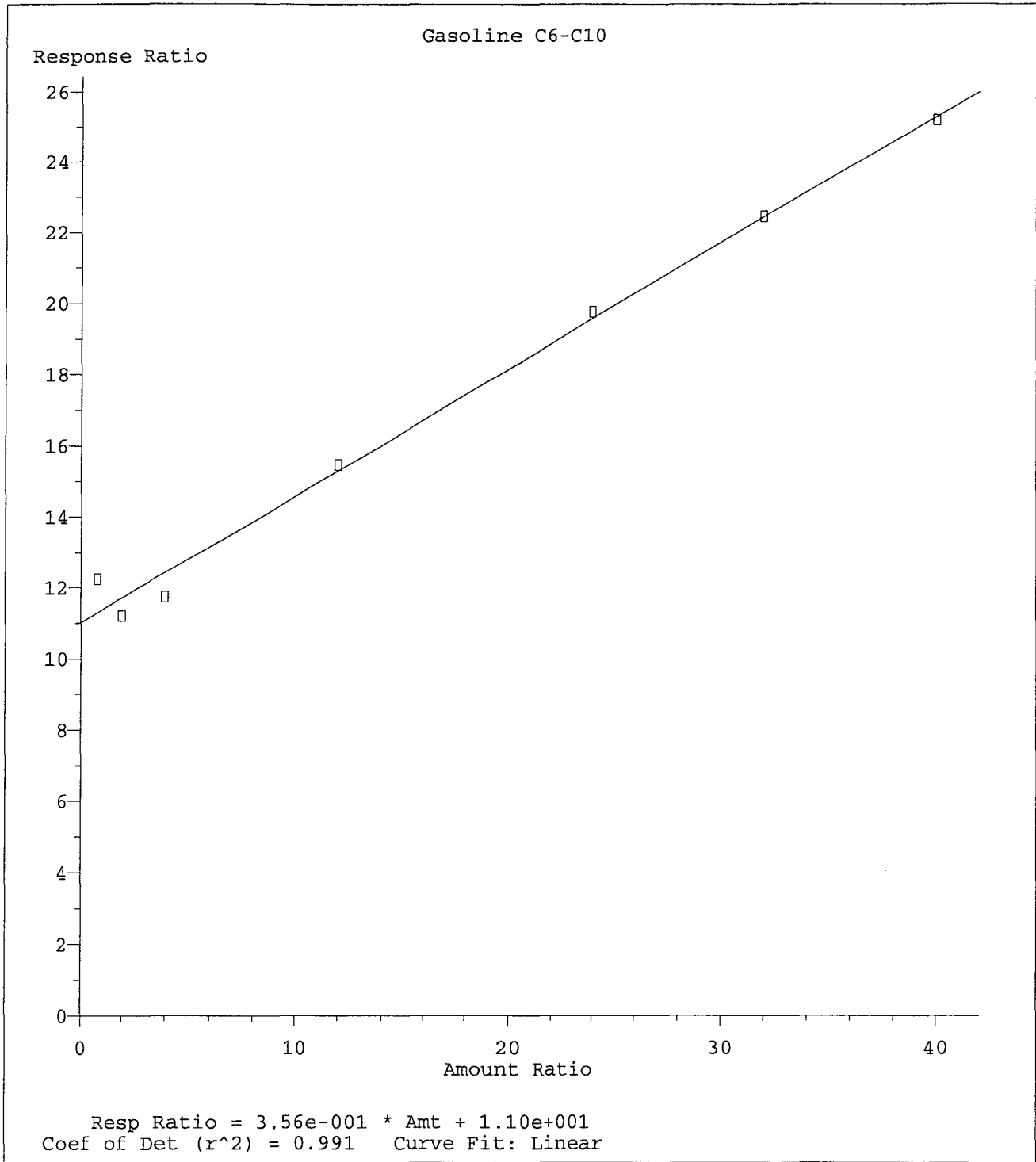
Vial: 13
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:37 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration





Method Name: M:\THOR\DATA\T190726\TGAS729.M
 Calibration Table Last Updated: Tue Jul 30 09:43:35 2019

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/29/19
Instrument: Thor
Initial Cal. Date: 07/29/19
Data File: 0729T15.D

	Compound	MEAN	CCRF	%D	%Drift
1	TMHB Gasoline C6-C10	3.898	1.237	68	TMHBL 10
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
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25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40	Average			68.0	

Data File : M:\THOR\DATA\T190726\0729T15.D Vial: 15
 Acq On : 29 Jul 19 15:14 Operator:
 Sample : SS 300ug/L GAS STD 07/29/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:45 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:43:35 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	952929	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1284649	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1335531	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.79	TIC	14146757m	268.7713	ppb	100

Quantitation Report

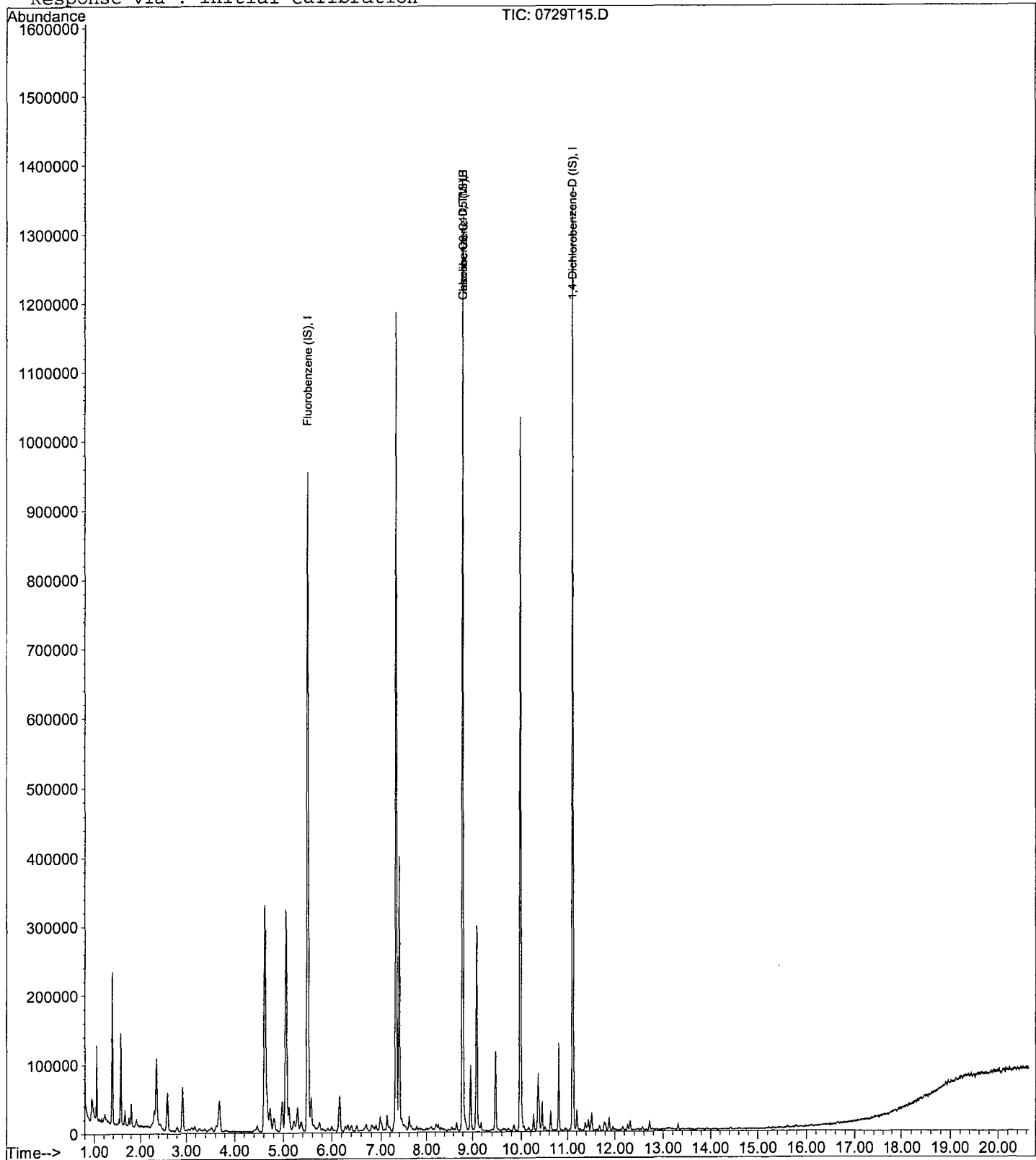
Data File : M:\THOR\DATA\T190726\0729T15.D
Acq On : 29 Jul 19 15:14
Sample : SS 300ug/L GAS STD 07/29/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 15
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:45 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. _____

SDG No: _____

Case No: _____

Initial Cal. Date: 07/29/19 _____

Matrix: _____

Instrument: Thor _____

Initials: DP *LP*

0729T07.D 0729T08.D 0729T09.D 0729T10.D 0729T11.D 0729T12.D 0729T13.D

	Compound	1	2	3	4	5	6	7				Avg	%RSD	Type	r^2	Q	MRF
1	I Fluorobenzene (IS)																
2	TMHBL Gasoline C6-C10	15.3	5.605	2.936	1.288	0.8227	0.7011	0.6296				3.9	137	TMHBL	0.991		
3	I Chlorobenzene-D5 (IS)																
4	I 1,4-Dichlorobenzene-D (IS)																
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
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31																	
32																	
33																	
34																	
35																	

Data File : M:\THOR\DATA\T190726\0729T07.D Vial: 7
 Acq On : 29 Jul 19 11:30 Operator:
 Sample : 20ug/L GAS STD 07/29/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:43 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:41:37 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.94	TIC	824552	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.70	TIC	1356871	25.0000	ppb	-0.10
4) 1,4-Dichlorobenzene-D (IS)	11.09	TIC	1400587	25.0000	ppb	-0.02

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.70	TIC	10095006m	111.9185	ppb	100

Quantitation Report

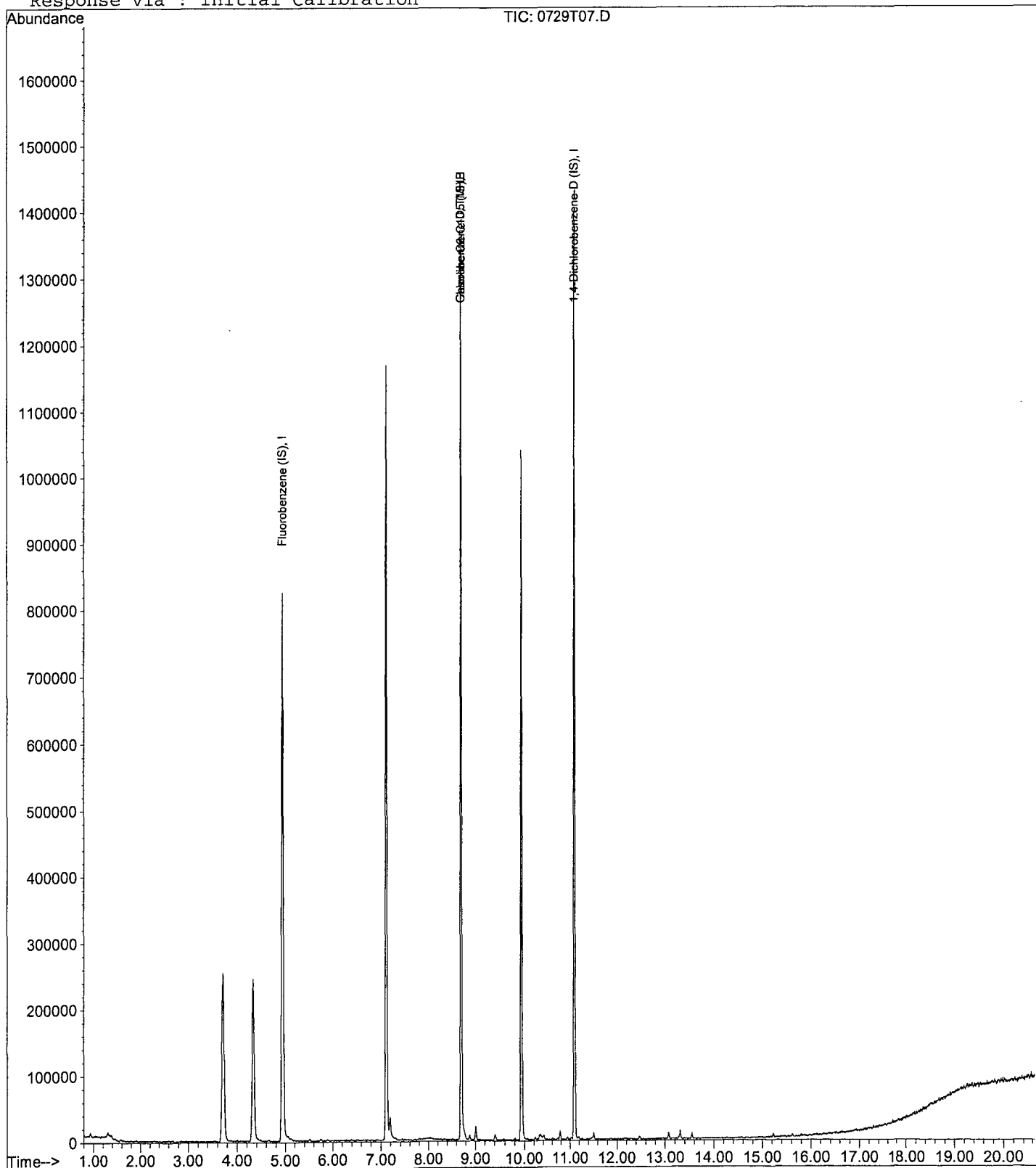
Data File : M:\THOR\DATA\T190726\0729T07.D
Acq On : 29 Jul 19 11:30
Sample : 20ug/L GAS STD 07/29/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 7
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:43 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T08.D Vial: 8
 Acq On : 29 Jul 19 11:57 Operator:
 Sample : 50ug/L GAS STD 07/29/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:40 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:36:38 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	961592	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1332586	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1332589	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.79	TIC	10779166m	159.0952	ppb	100

Quantitation Report

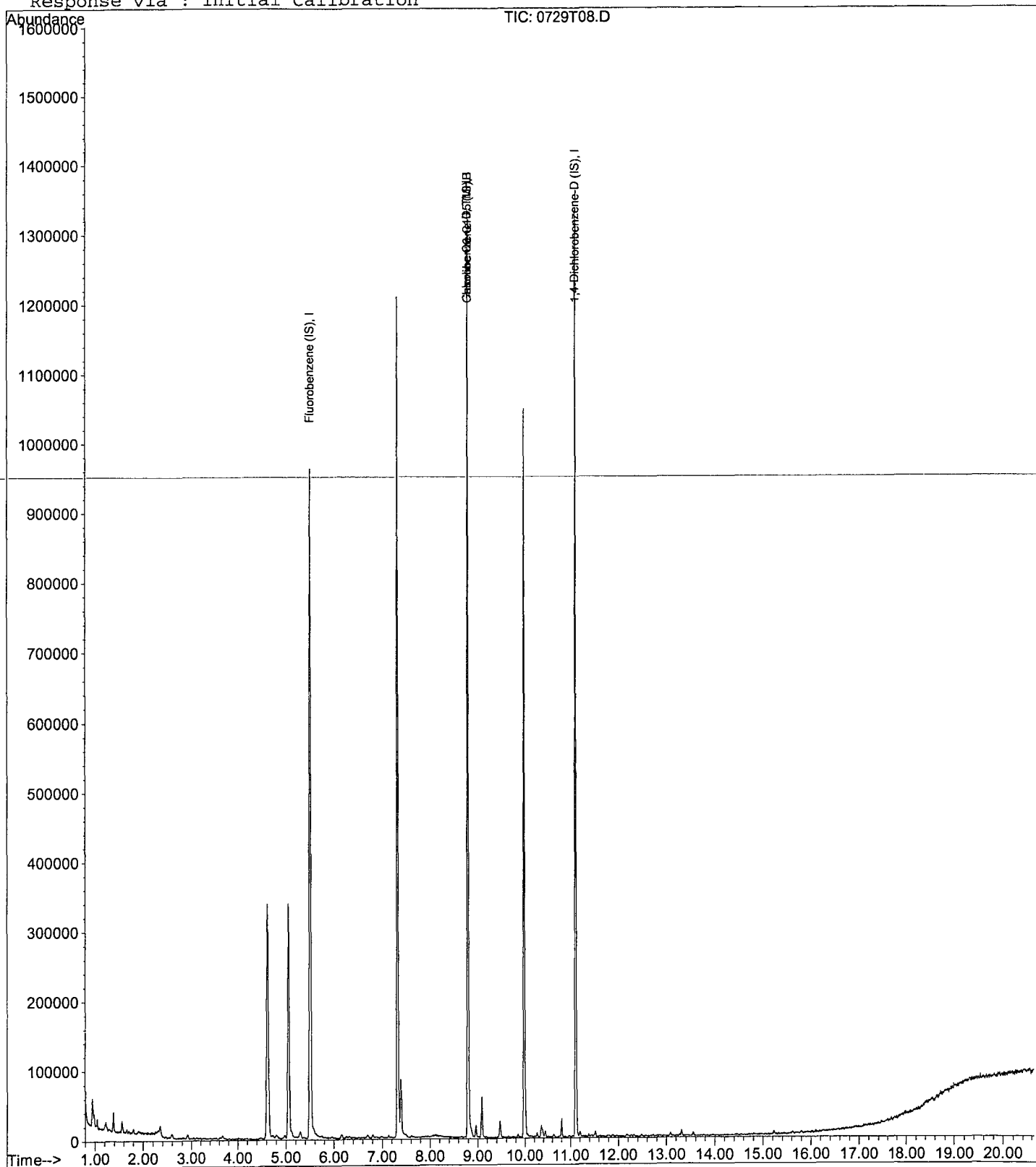
Data File : M:\THOR\DATA\T190726\0729T08.D
Acq On : 29 Jul 19 11:57
Sample : 50ug/L GAS STD 07/29/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 8
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:40 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T09.D Vial: 9
 Acq On : 29 Jul 19 12:25 Operator:
 Sample : 100ug/L GAS STD 07/29/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:40 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:36:38 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	992106	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1336771	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1363693	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.79	TIC	11652728m	193.4339	ppb	100

Quantitation Report

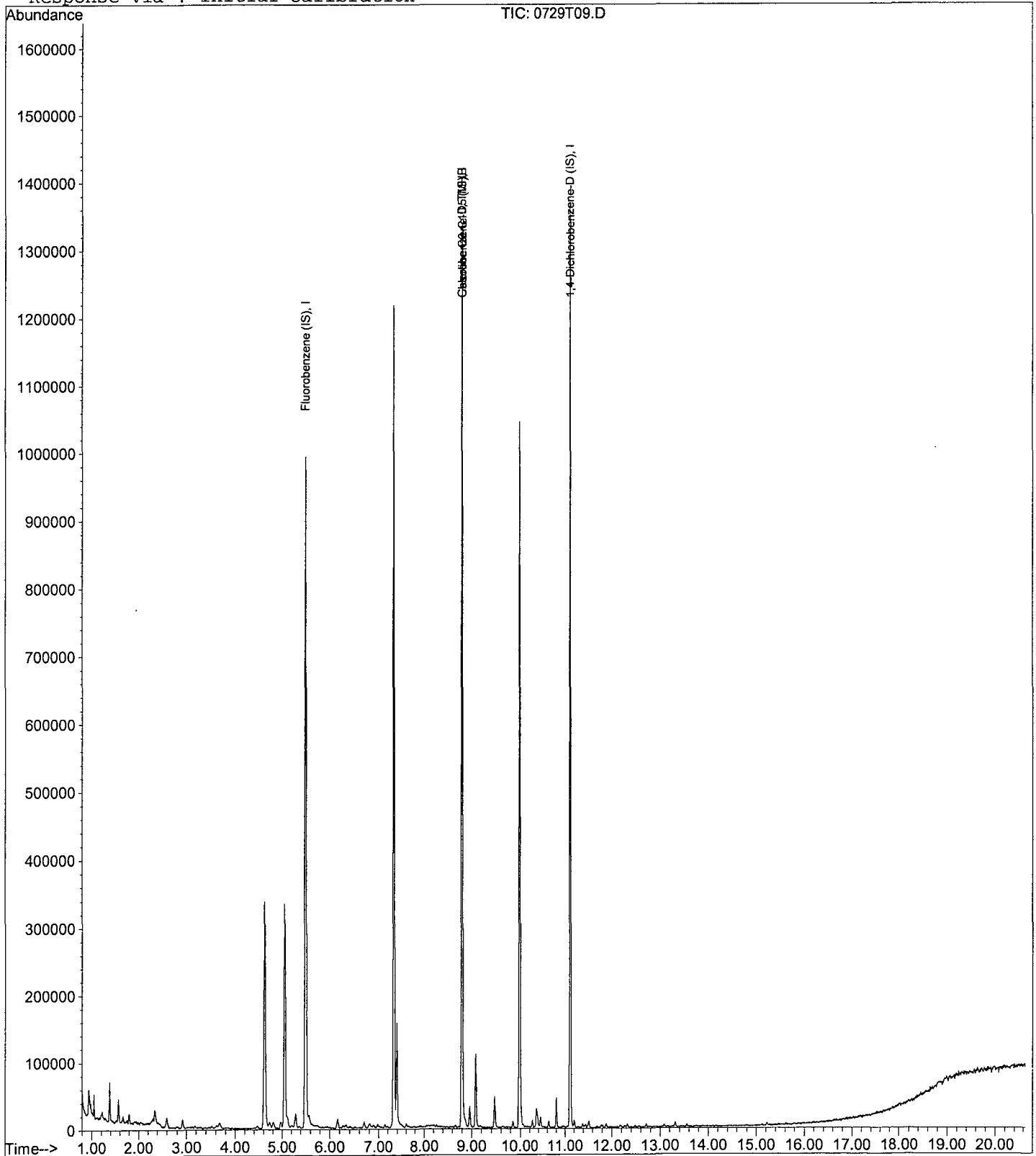
Data File : M:\THOR\DATA\T190726\0729T09.D
Acq On : 29 Jul 19 12:25
Sample : 100ug/L GAS STD 07/29/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 9
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:40 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T10.D Vial: 10
 Acq On : 29 Jul 19 12:53 Operator:
 Sample : 300ug/L GAS STD 07/29/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:39 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:36:38 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	986267	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1333798	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1392591	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	7.32	TIC	15244145m	431.2920	ppb	100

Quantitation Report

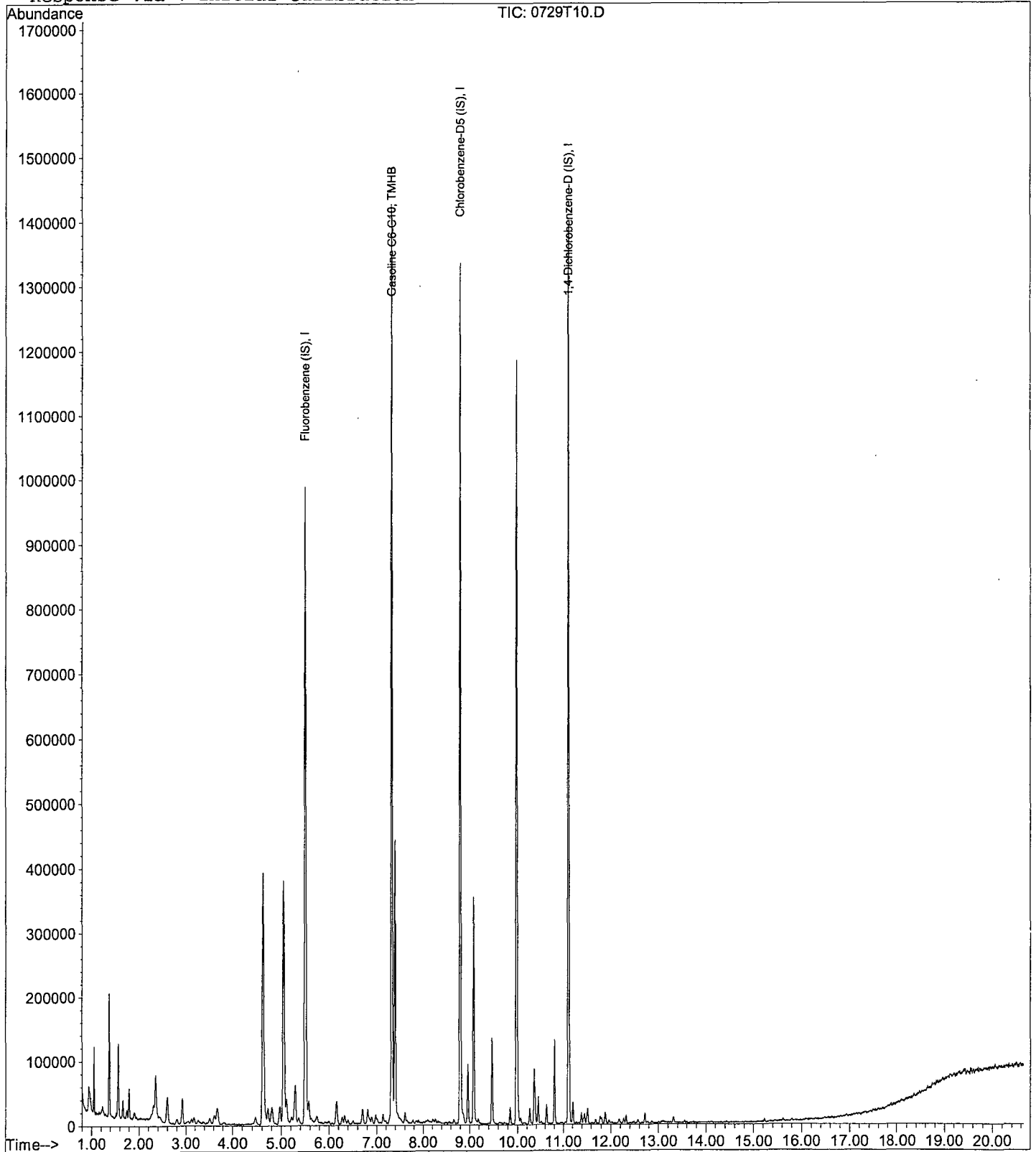
Data File : M:\THOR\DATA\T190726\0729T10.D
Acq On : 29 Jul 19 12:53
Sample : 300ug/L GAS STD 07/29/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 10
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:39 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T11.D Vial: 11
 Acq On : 29 Jul 19 13:21 Operator:
 Sample : 600ug/L GAS STD 07/29/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:39 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:36:38 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	970215	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1309357	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1343197	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	7.32	TIC	19155547m	706.0849	ppb	100

Quantitation Report

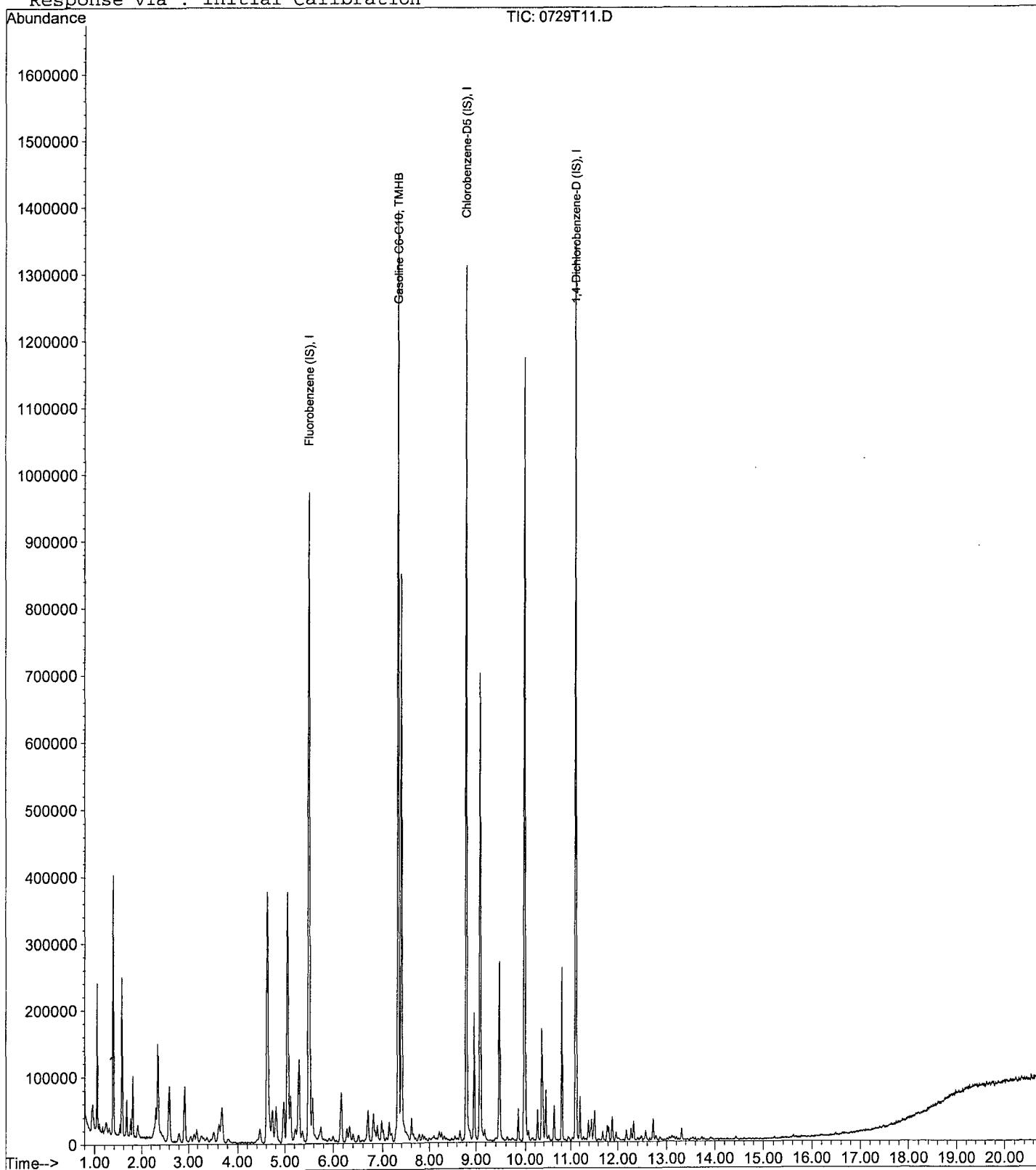
Data File : M:\THOR\DATA\T190726\0729T11.D
Acq On : 29 Jul 19 13:21
Sample : 600ug/L GAS STD 07/29/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 11
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:39 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T12.D Vial: 12
 Acq On : 29 Jul 19 13:50 Operator:
 Sample : 800ug/L GAS STD 07/29/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:38 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:36:38 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	965531	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1326588	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1372302	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.79	TIC	21661828m	878.6017	ppb	100

Quantitation Report

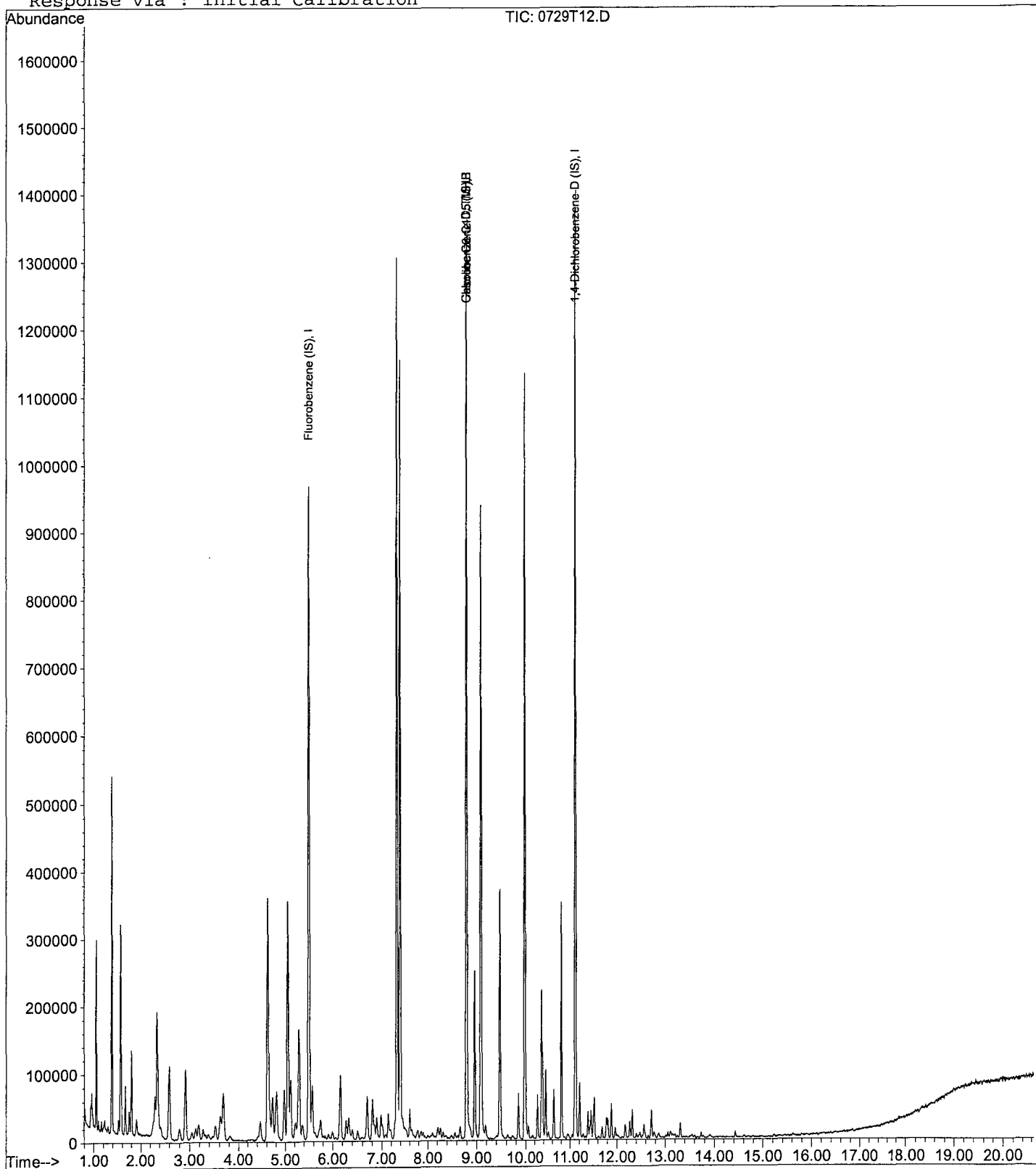
Data File : M:\THOR\DATA\T190726\0729T12.D
Acq On : 29 Jul 19 13:50
Sample : 800ug/L GAS STD 07/29/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 12
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:38 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0729T13.D Vial: 13
 Acq On : 29 Jul 19 14:18 Operator:
 Sample : 1000ug/L GAS STD 07/29/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:37 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:36:38 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	944837	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1305243	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1343908	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	7.39	TIC	23793184m	1054.6846	ppb	100

Quantitation Report

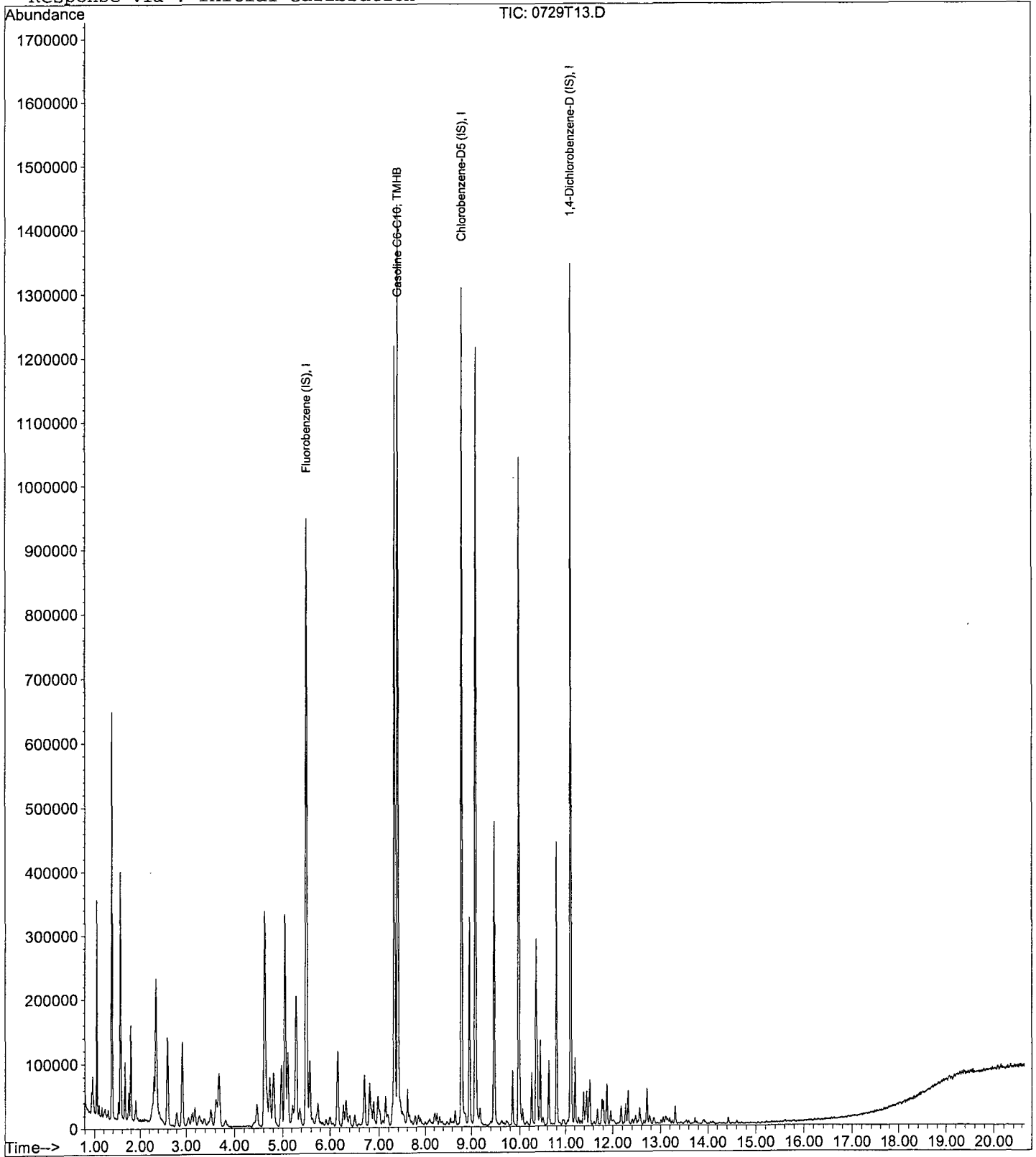
Data File : M:\THOR\DATA\T190726\0729T13.D
Acq On : 29 Jul 19 14:18
Sample : 1000ug/L GAS STD 07/29/19
Misc : IS&S 7/6/19, 6/2/19

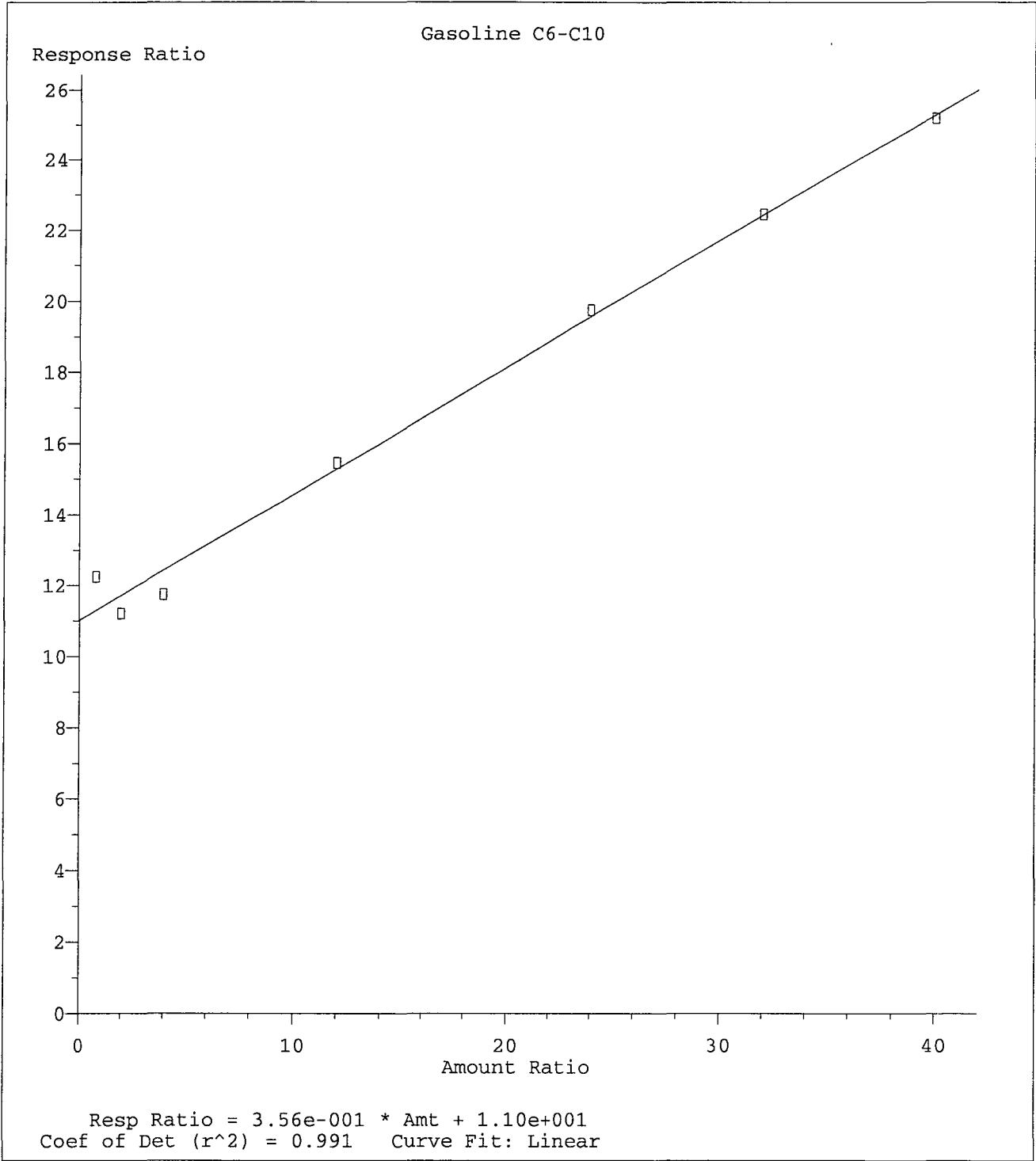
Vial: 13
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:37 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration





Method Name: M:\THOR\DATA\T190726\TGAS729.M
Calibration Table Last Updated: Tue Jul 30 09:43:35 2019

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/29/19
Instrument: Thor
Initial Cal. Date: 07/29/19
Data File: 0729T15.D

	Compound	MEAN	CCRF	%D	%Drift
1	TMHB Gasoline C6-C10	3.898	1.237	68	TMHBL 10
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
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26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40	Average			68.0	

Data File : M:\THOR\DATA\T190726\0729T15.D Vial: 15
 Acq On : 29 Jul 19 15:14 Operator:
 Sample : SS 300ug/L GAS STD 07/29/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 9:45 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:43:35 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	952929	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1284649	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1335531	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.79	TIC	14146757m	268.7713	ppb	100

Quantitation Report

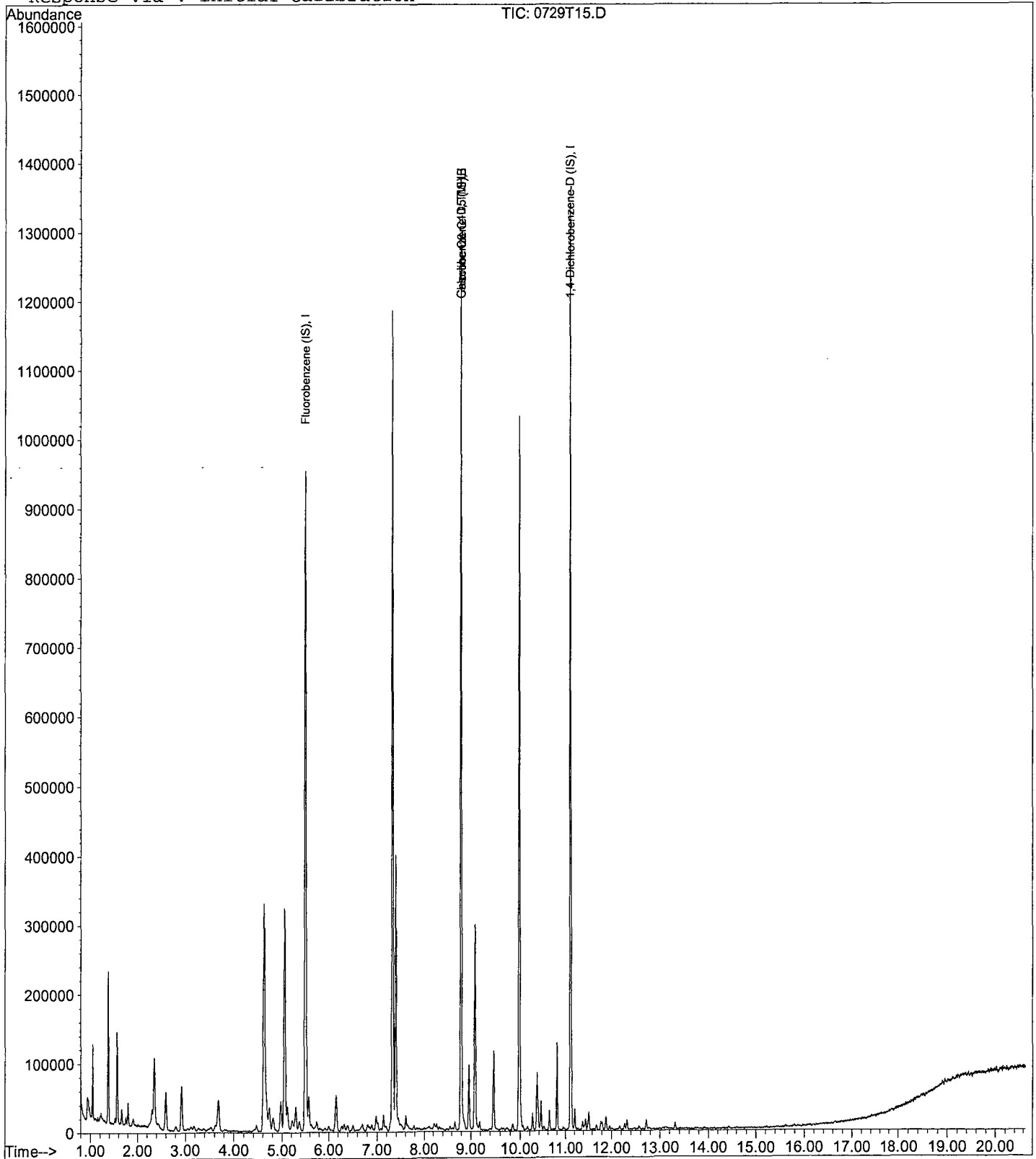
Data File : M:\THOR\DATA\T190726\0729T15.D
Acq On : 29 Jul 19 15:14
Sample : SS 300ug/L GAS STD 07/29/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 15
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 9:45 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 7/30/2019

Matrix: _____

Instrument: Thor

Initial Cal. Date: 7/29/2019

Data File: 0730T08.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Fluorobenzene (IS)	ISTD			I
2	TMHB Gasoline C6-C10	3.898	1.254	68	TMHBL 5.6
3	I Chlorobenzene-D5 (IS)	ISTD			I
4	I 1,4-Dichlorobenzene-D (IS)	ISTD			I
5					
6					
7					
8					
9					
10					
11					
12					
13					
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35					
36					
37					
38					
39					
40	Average			68.0	

Data File : M:\THOR\DATA\T190726\0730T08.D Vial: 5
 Acq On : 30 Jul 19 12:40 Operator:
 Sample : 190730A CCV 300ug/L Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 30 13:04 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:43:35 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	926396	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1227218	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1287817	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.79	TIC	13945096m	283.32383	ppb	100

Quantitation Report

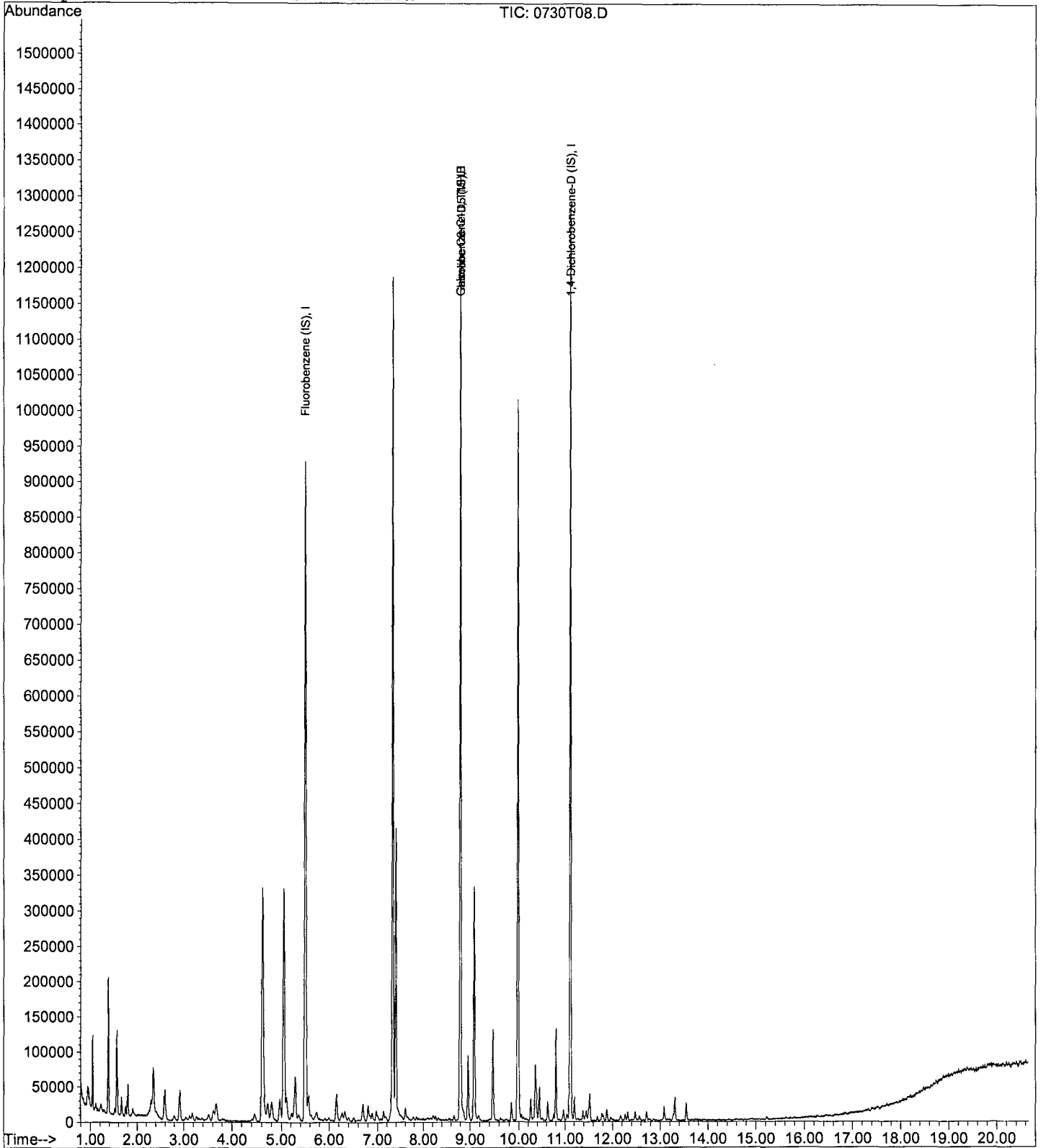
Data File : M:\THOR\DATA\T190726\0730T08.D
Acq On : 30 Jul 19 12:40
Sample : 190730A CCV 300ug/L
Misc : IS&S 7/6/19, 6/2/19

Vial: 5
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 30 13:04 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 7/30/2019
Instrument: Thor
Initial Cal. Date: 7/29/2019
Data File: 0730T30.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	Fluorobenzene (IS)	ISTD			I
2	TMHB	Gasoline C6-C10	3.898	1.327	66	TMHBL 15
3	I	Chlorobenzene-D5 (IS)	ISTD			I
4	I	1,4-Dichlorobenzene-D (IS)	ISTD			I
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
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27						
28						
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30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40		Average			66.0	

Data File : M:\THOR\DATA\T190726\0730T30.D Vial: 27
 Acq On : 30 Jul 19 22:59 Operator:
 Sample : Ending CCV 300ug/L 07/30/19 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 31 12:46 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:43:35 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	827865	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1125182	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1150639	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	7.32	TIC	13186580m	344.71217	ppb	100

Quantitation Report

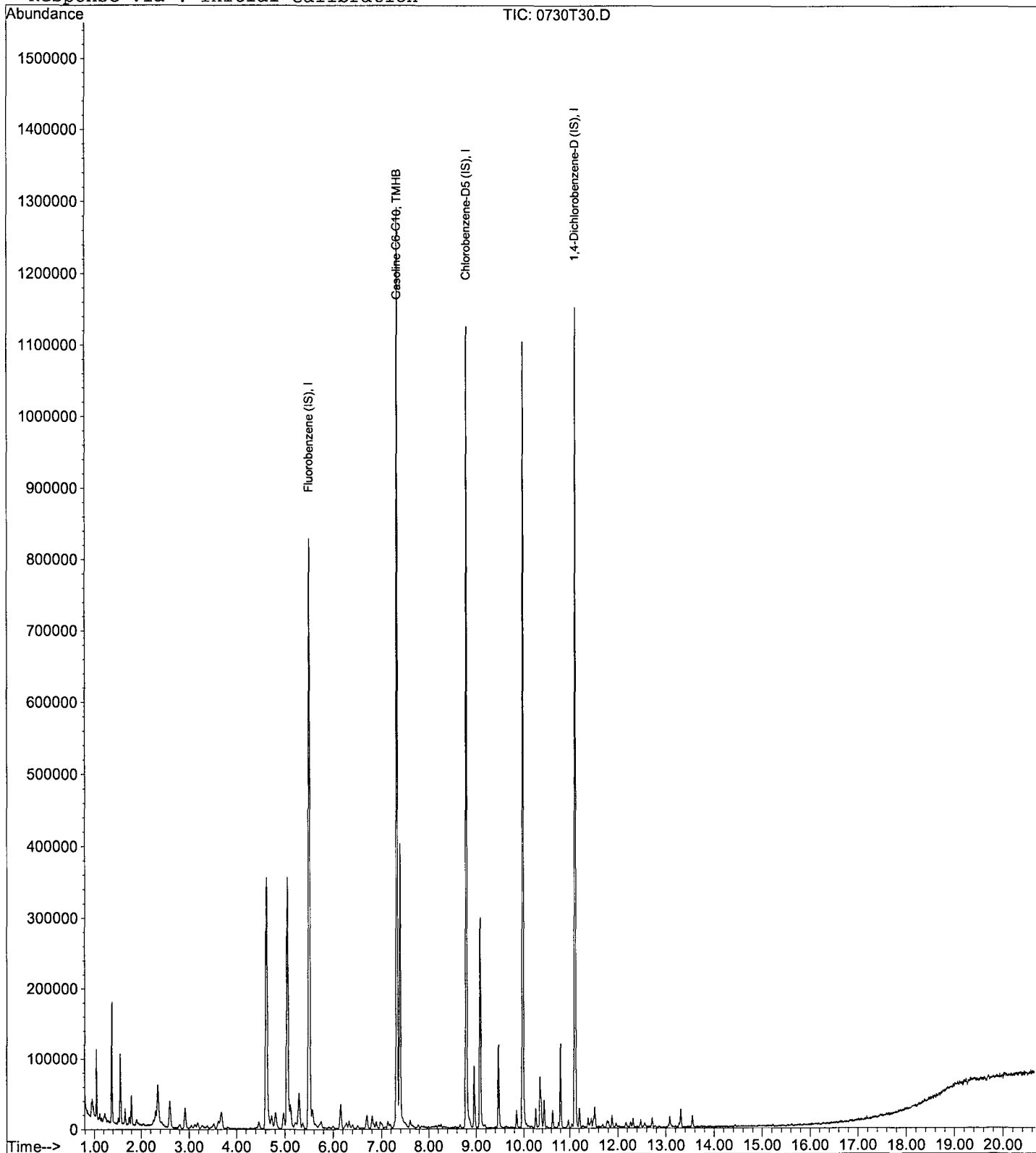
Data File : M:\THOR\DATA\T190726\0730T30.D
Acq On : 30 Jul 19 22:59
Sample : Ending CCV 300ug/L 07/30/19
Misc : IS&S 7/6/19, 6/2/19

Vial: 27
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 31 12:46 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



ORGANICS
Raw Data

Data File : M:\THOR\DATA\T190726\0730T12.D Vial: 9
 Acq On : 30 Jul 19 14:33 Operator:
 Sample : AZ95418W01 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 31 12:41 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:43:35 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	926281	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1234696	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1259013	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\THOR\DATA\T190726\0730T12.D
 Acq On : 30 Jul 19 14:33
 Sample : AZ95418W01
 Misc : IS&S 7/6/19, 6/2/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 31 12:46 2019

Vial: 9
 Operator:
 Inst : Thor
 Multiplr: 1.00000

Quant Results File: TSUR0726.RES

Quant Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	445888	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.79	117	433984	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.11	152	227776	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.62	111	218373	23.16383	ppb	0.00
Spiked Amount	25.000		Recovery	=	92.656%	
3) 1,2-DCA-D4(S)	5.05	65	247974	23.05815	ppb	0.00
Spiked Amount	25.000		Recovery	=	92.232%	
5) Toluene-D8(S)	7.32	98	739065	22.59197	ppb	0.00
Spiked Amount	25.000		Recovery	=	90.368%	
6) 4-Bromofluorobenzene(S)	9.98	95	276402	21.88276	ppb	0.00
Spiked Amount	25.000		Recovery	=	87.532%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0730T12.D TSUR0726.M Thu Aug 15 09:39:30 2019

Quantitation Report

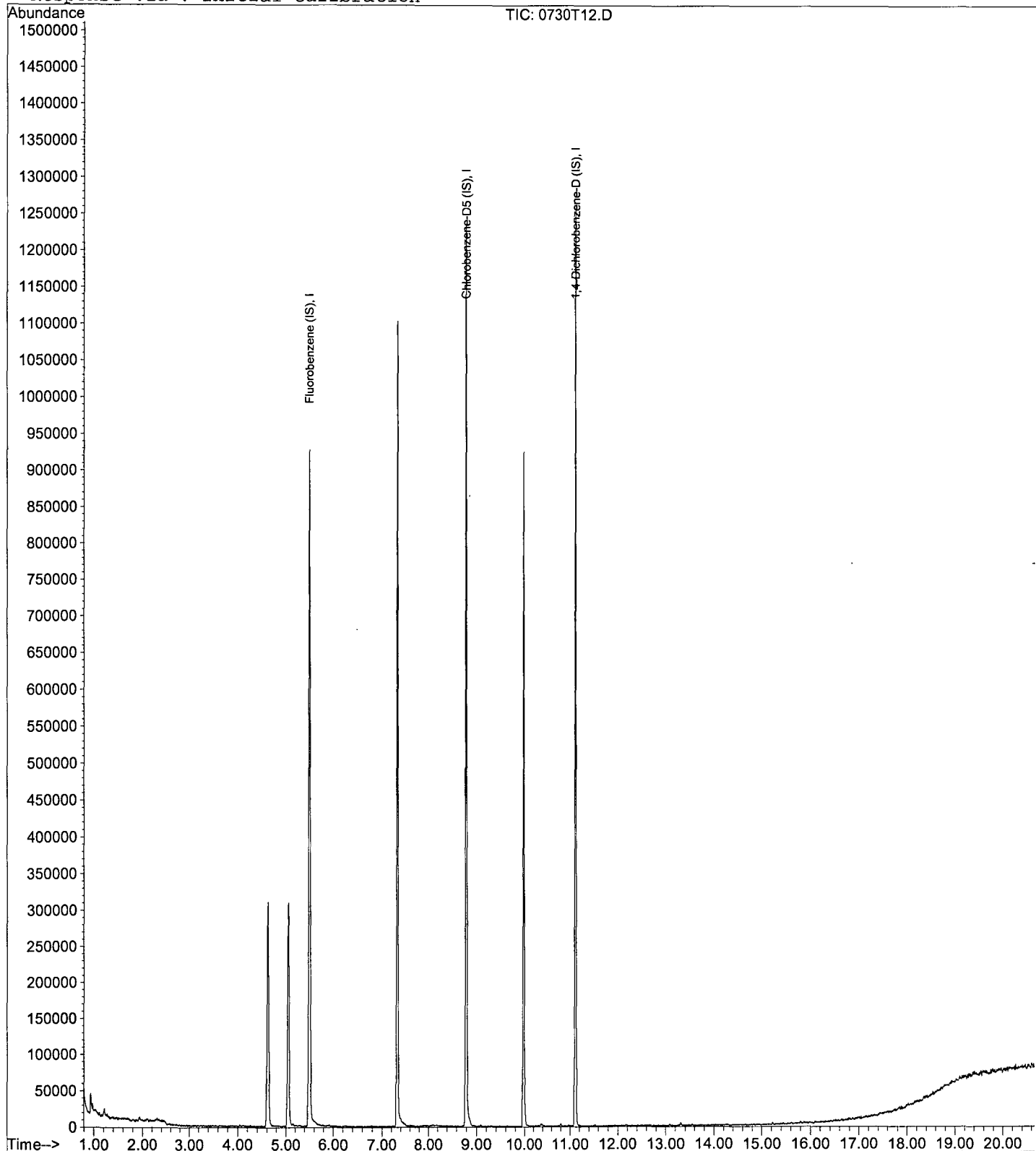
Data File : M:\THOR\DATA\T190726\0730T12.D
Acq On : 30 Jul 19 14:33
Sample : AZ95418W01
Misc : IS&S 7/6/19, 6/2/19

Vial: 9
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 31 12:41 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0730T13.D Vial: 10
 Acq On : 30 Jul 19 15:01 Operator:
 Sample : AZ95419W01 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 31 12:41 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:43:35 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	892085	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1225118	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1223994	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\THOR\DATA\T190726\0730T13.D
 Acq On : 30 Jul 19 15:01
 Sample : AZ95419W01
 Misc : IS&S 7/6/19, 6/2/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 31 12:46 2019

Vial: 10
 Operator:
 Inst : Thor
 Multiplr: 1.00000

Quant Results File: TSUR0726.RES

Quant Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	440512	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.79	117	430208	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.11	152	220224	25.00000	ppb	0.00

System Monitoring Compounds

2) Dibromofluoromethane(S)	4.62	111	227555	24.43238	ppb	0.00
Spiked Amount	25.000		Recovery	= 97.728%		
3) 1,2-DCA-D4(S)	5.05	65	254268	23.93194	ppb	0.00
Spiked Amount	25.000		Recovery	= 95.728%		
5) Toluene-D8(S)	7.32	98	759678	23.42590	ppb	0.00
Spiked Amount	25.000		Recovery	= 93.704%		
6) 4-Bromofluorobenzene(S)	9.98	95	284438	22.71663	ppb	0.00
Spiked Amount	25.000		Recovery	= 90.868%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0730T13.D TSUR0726.M Thu Aug 15 09:39:39 2019

Quantitation Report

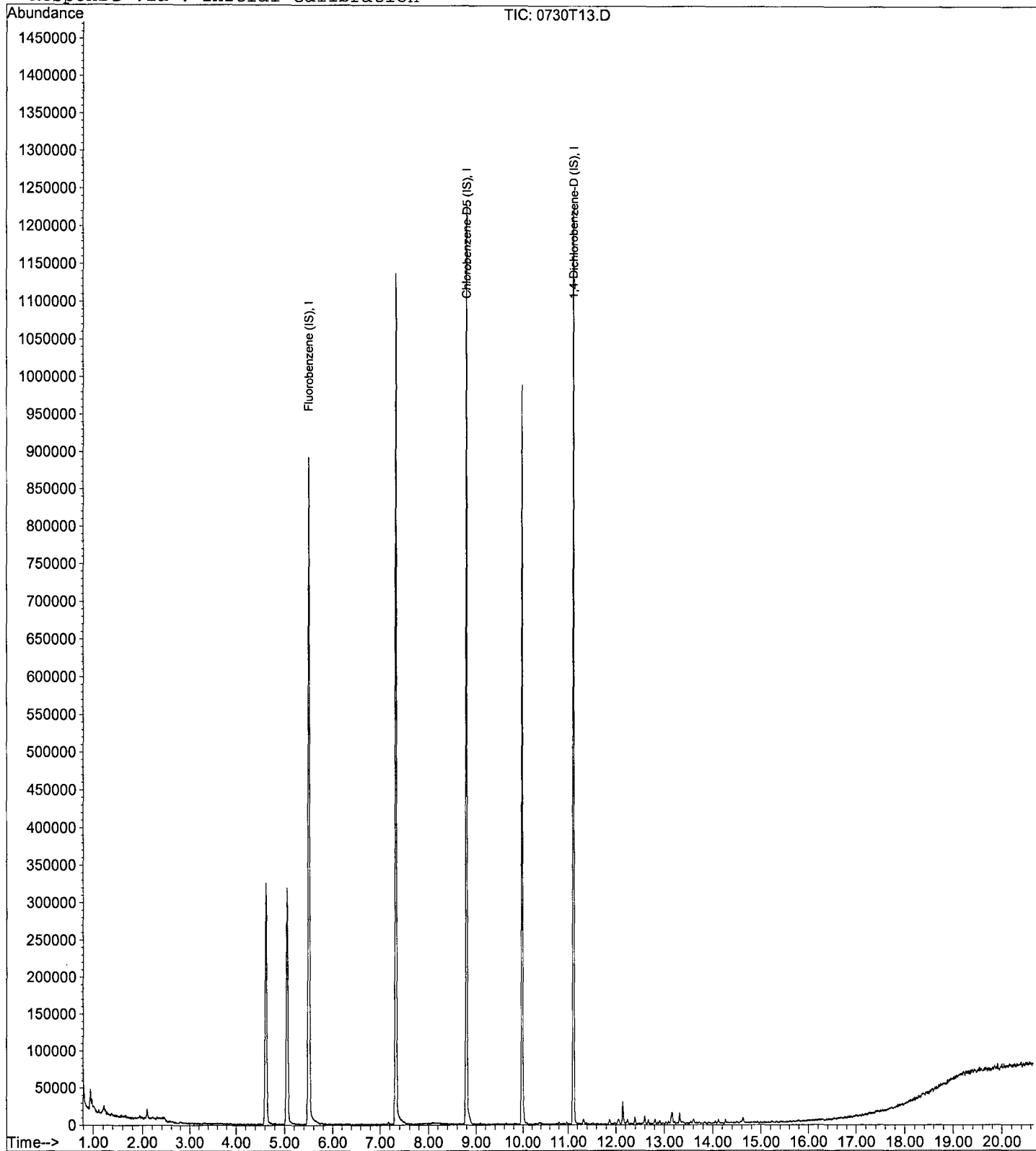
Data File : M:\THOR\DATA\T190726\0730T13.D
Acq On : 30 Jul 19 15:01
Sample : AZ95419W01
Misc : IS&S 7/6/19, 6/2/19

Vial: 10
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 31 12:41 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0730T14.D Vial: 11
 Acq On : 30 Jul 19 15:29 Operator:
 Sample : AZ95420W01 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 31 12:41 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:43:35 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	859660	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1186407	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1209802	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\THOR\DATA\T190726\0730T14.D
 Acq On : 30 Jul 19 15:29
 Sample : AZ95420W01
 Misc : IS&S 7/6/19, 6/2/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 31 12:46 2019

Vial: 11
 Operator:
 Inst : Thor
 Multiplr: 1.00000

Quant Results File: TSUR0726.RES

Quant Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	418816	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.79	117	411840	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.11	152	220800	25.00000	ppb	0.00

System Monitoring Compounds

2) Dibromofluoromethane(S)	4.62	111	241418	27.26362	ppb	0.00
Spiked Amount	25.000			Recovery	= 109.056%	
3) 1,2-DCA-D4(S)	5.05	65	276635	27.38595	ppb	0.00
Spiked Amount	25.000			Recovery	= 109.544%	
5) Toluene-D8(S)	7.32	98	825026	26.57567	ppb	0.00
Spiked Amount	25.000			Recovery	= 106.304%	
6) 4-Bromofluorobenzene(S)	9.98	95	306831	25.59796	ppb	0.00
Spiked Amount	25.000			Recovery	= 102.392%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0730T14.D TSUR0726.M Thu Aug 15 09:39:50 2019

Quantitation Report

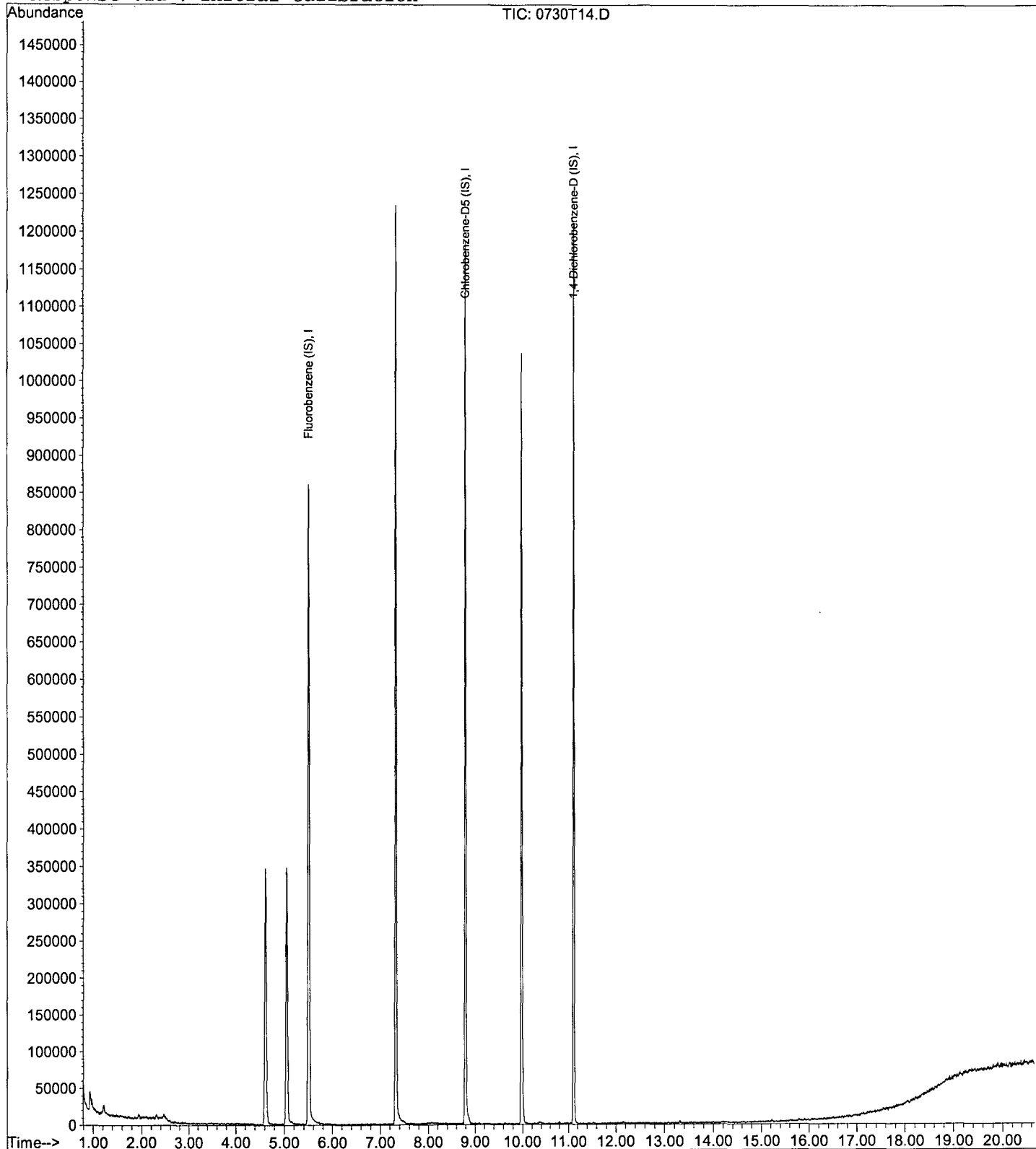
Data File : M:\THOR\DATA\T190726\0730T14.D
Acq On : 30 Jul 19 15:29
Sample : AZ95420W01
Misc : IS&S 7/6/19, 6/2/19

Vial: 11
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 31 12:41 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0730T15.D Vial: 12
 Acq On : 30 Jul 19 15:57 Operator:
 Sample : AZ95421W01 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 31 12:42 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:43:35 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.50	TIC	912207	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1228731	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1201989	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\THOR\DATA\T190726\0730T15.D
 Acq On : 30 Jul 19 15:57
 Sample : AZ95421W01
 Misc : IS&S 7/6/19, 6/2/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 31 12:46 2019

Vial: 12
 Operator:
 Inst : Thor
 Multiplr: 1.00000

Quant Results File: TSUR0726.RES

Quant Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	443584	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.79	117	431040	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.11	152	213696	25.00000	ppb	0.00

System Monitoring Compounds

2) Dibromofluoromethane(S)	4.62	111	230713	24.59990	ppb	0.00
Spiked Amount	25.000		Recovery	= 98.400%		
3) 1,2-DCA-D4(S)	5.05	65	258750	24.18513	ppb	0.00
Spiked Amount	25.000		Recovery	= 96.740%		
5) Toluene-D8(S)	7.32	98	777874	23.94070	ppb	0.00
Spiked Amount	25.000		Recovery	= 95.764%		
6) 4-Bromofluorobenzene(S)	9.98	95	289834	23.10290	ppb	0.00
Spiked Amount	25.000		Recovery	= 92.412%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0730T15.D TSUR0726.M Thu Aug 15 09:39:59 2019

Quantitation Report

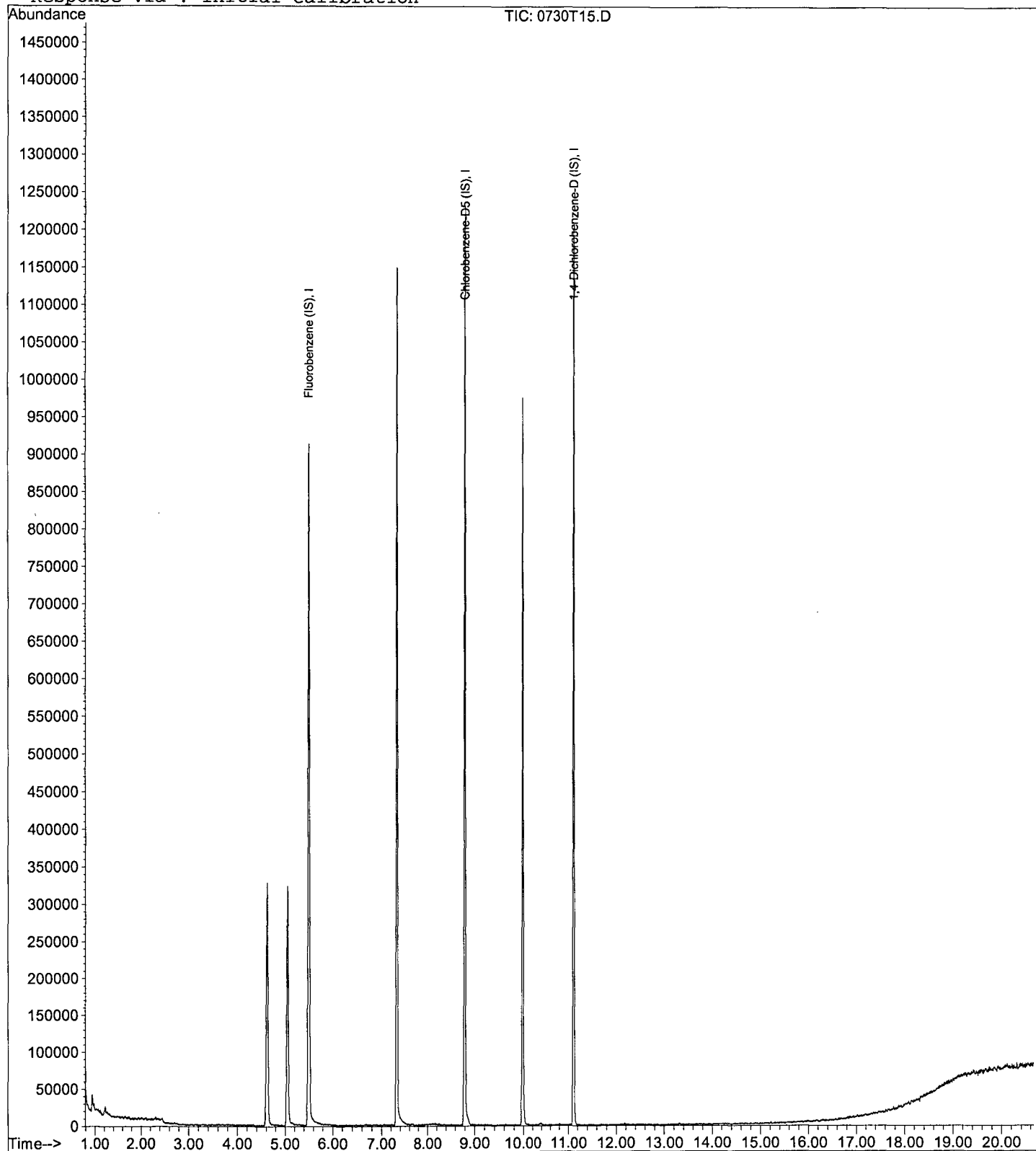
Data File : M:\THOR\DATA\T190726\0730T15.D
Acq On : 30 Jul 19 15:57
Sample : AZ95421W01
Misc : IS&S 7/6/19, 6/2/19

Vial: 12
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 31 12:42 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0730T16.D Vial: 13
 Acq On : 30 Jul 19 16:25 Operator:
 Sample : AZ95422W01 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 31 12:42 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:43:35 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	866646	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1166725	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1158770	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\THOR\DATA\T190726\0730T16.D
 Acq On : 30 Jul 19 16:25
 Sample : AZ95422W01
 Misc : IS&S 7/6/19, 6/2/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 31 12:46 2019

Vial: 13
 Operator:
 Inst : Thor
 Multiplr: 1.00000

Quant Results File: TSUR0726.RES

Quant Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	429760	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.79	117	409536	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.11	152	210176	25.00000	ppb	0.00

System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.62	111	220688	24.28790	ppb	0.00
Spiked Amount	25.000		Recovery	= 97.152%		
3) 1,2-DCA-D4(S)	5.05	65	247588	23.88623	ppb	0.00
Spiked Amount	25.000		Recovery	= 95.544%		
5) Toluene-D8(S)	7.32	98	733053	23.74589	ppb	0.00
Spiked Amount	25.000		Recovery	= 94.984%		
6) 4-Bromofluorobenzene(S)	9.98	95	279120	23.41713	ppb	0.00
Spiked Amount	25.000		Recovery	= 93.668%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0730T16.D TSUR0726.M Thu Aug 15 09:40:10 2019

Quantitation Report

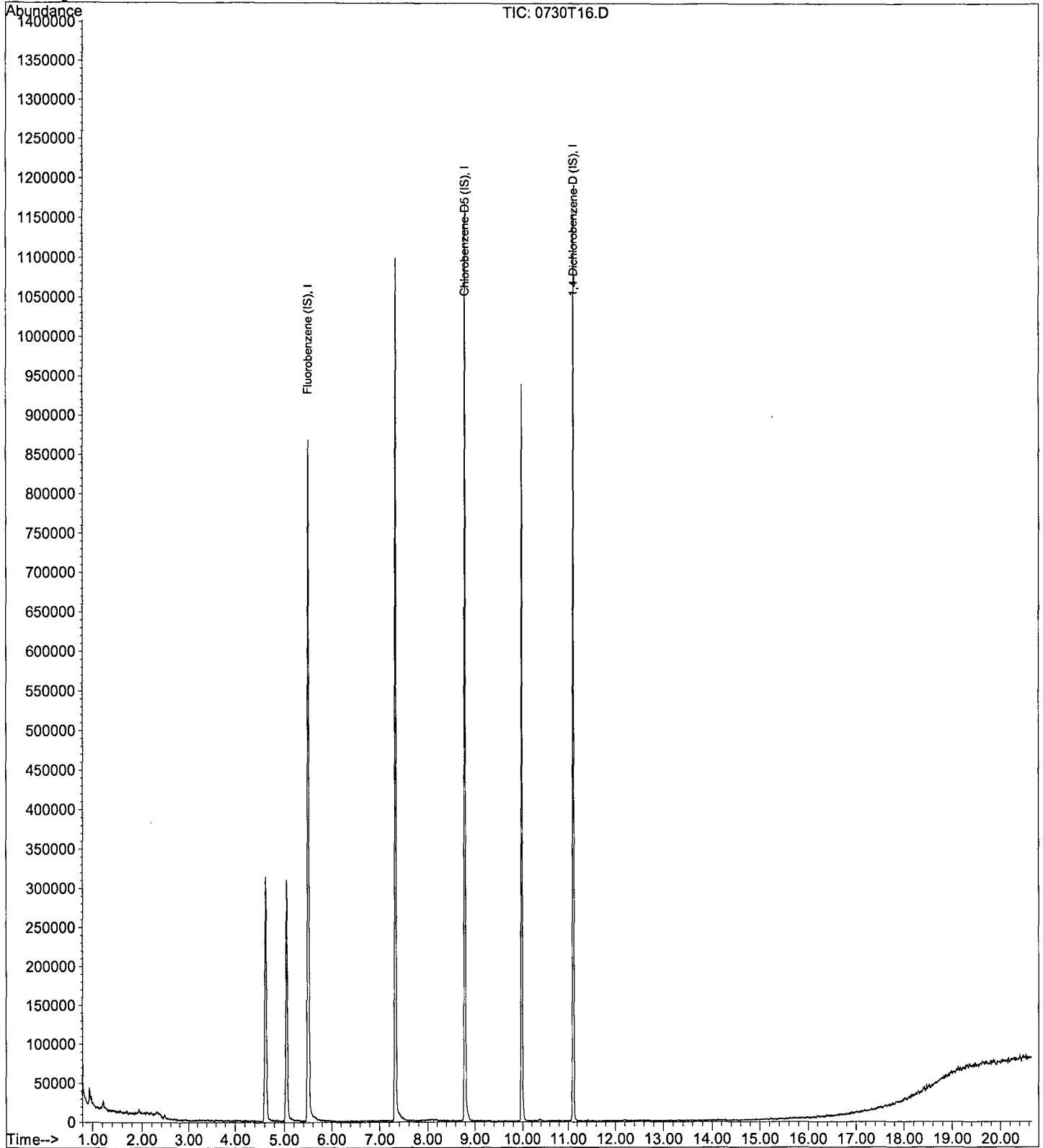
Data File : M:\THOR\DATA\T190726\0730T16.D
Acq On : 30 Jul 19 16:25
Sample : AZ95422W01
Misc : IS&S 7/6/19, 6/2/19

Vial: 13
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 31 12:42 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0730T17.D Vial: 14
 Acq On : 30 Jul 19 16:53 Operator:
 Sample : AZ95423W01 Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 31 12:42 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:43:35 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	900215	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1193043	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1206381	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\THOR\DATA\T190726\0730T17.D
 Acq On : 30 Jul 19 16:53
 Sample : AZ95423W01
 Misc : IS&S 7/6/19, 6/2/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 31 12:47 2019

Vial: 14
 Operator:
 Inst : Thor
 Multiplr: 1.00000

Quant Results File: TSUR0726.RES

Quant Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	435136	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.79	117	418496	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.11	152	216128	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.62	111	309939	33.68902	ppb	0.00
Spiked Amount	25.000					
					Recovery = 134.756%	
3) 1,2-DCA-D4(S)	5.05	65	350146	33.36324	ppb	0.00
Spiked Amount	25.000					
					Recovery = 133.452%	
5) Toluene-D8(S)	7.32	98	1036202	32.84719	ppb	0.00
Spiked Amount	25.000					
					Recovery = 131.388%	
6) 4-Bromofluorobenzene(S)	9.98	95	387458	31.81032	ppb	0.00
Spiked Amount	25.000					
					Recovery = 127.240%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0730T17.D TSUR0726.M Thu Aug 15 09:40:18 2019

Quantitation Report

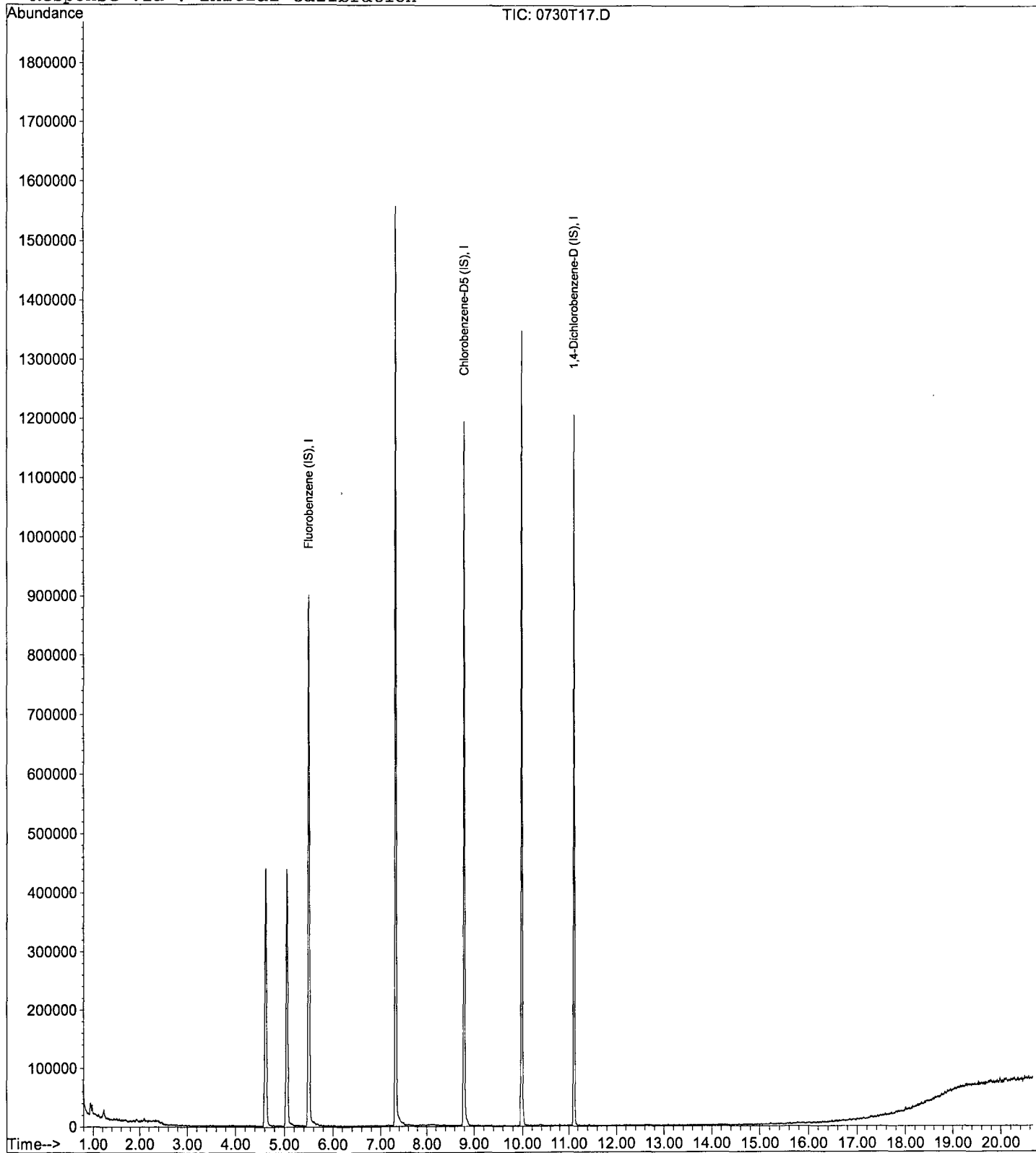
Data File : M:\THOR\DATA\T190726\0730T17.D
Acq On : 30 Jul 19 16:53
Sample : AZ95423W01
Misc : IS&S 7/6/19, 6/2/19

Vial: 14
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 31 12:42 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0730T11.D
 Acq On : 30 Jul 19 14:05
 Sample : 190730A BLK
 Misc : IS&S 7/6/19, 6/2/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 31 12:46 2019

Vial: 8
 Operator:
 Inst : Thor
 Multiplr: 1.00000

Quant Results File: TSUR0726.RES

Quant Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	437824	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.79	117	436032	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.11	152	217984	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.62	111	231590	25.01828	ppb	0.00
Spiked Amount	25.000			Recovery	= 100.072%	
3) 1,2-DCA-D4(S)	5.05	65	261328	24.74745	ppb	0.00
Spiked Amount	25.000			Recovery	= 98.988%	
5) Toluene-D8(S)	7.32	98	780084	23.73385	ppb	0.00
Spiked Amount	25.000			Recovery	= 94.936%	
6) 4-Bromofluorobenzene(S)	9.98	95	298291	23.50480	ppb	0.00
Spiked Amount	25.000			Recovery	= 94.020%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0730T11.D TSUR0726.M Thu Aug 15 09:39:21 2019

Data File : M:\THOR\DATA\T190726\0730T11.D
 Acq On : 30 Jul 19 14:05
 Sample : 190730A BLK
 Misc : IS&S 7/6/19, 6/2/19

Vial: 8
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Jul 31 12:41 2019

Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:43:35 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	895995	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1234874	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1212528	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds

Qvalue

Quantitation Report

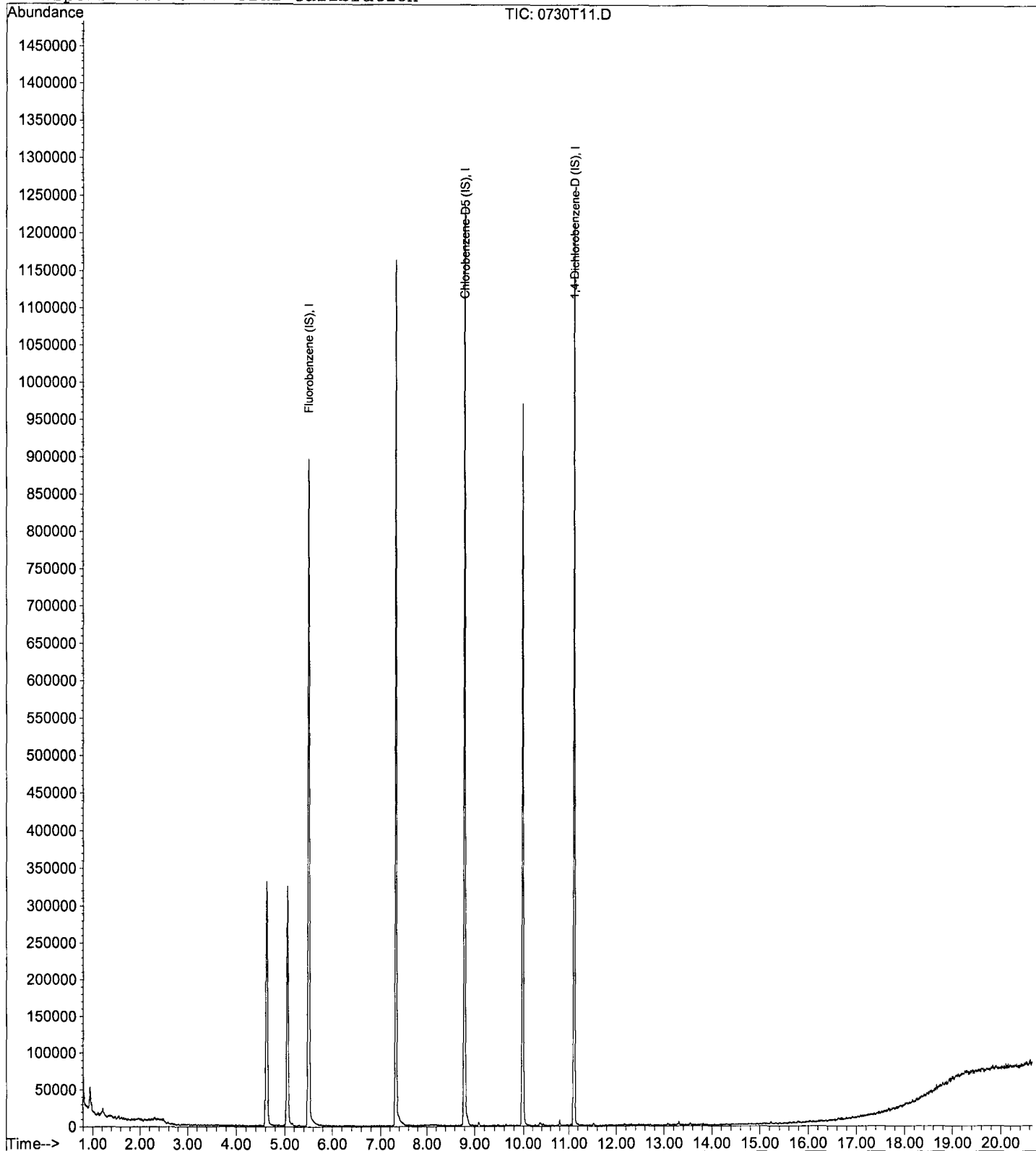
Data File : M:\THOR\DATA\T190726\0730T11.D
Acq On : 30 Jul 19 14:05
Sample : 190730A BLK
Misc : IS&S 7/6/19, 6/2/19

Vial: 8
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 31 12:41 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0730T09.D Vial: 6
 Acq On : 30 Jul 19 13:08 Operator:
 Sample : 190730A LCS 300ug/L Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 31 12:41 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:43:35 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	930611	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1266229	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1297078	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.79	TIC	13943885m	278.45117	ppb	100

(#) = qualifier out of range (m) = manual integration

Data File : M:\THOR\DATA\T190726\0730T09.D
 Acq On : 30 Jul 19 13:08
 Sample : 190730A LCS 300ug/L
 Misc : IS&S 7/6/19, 6/2/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 31 12:46 2019

Vial: 6
 Operator:
 Inst : Thor
 Multiplr: 1.00000

Quant Results File: TSUR0726.RES

Quant Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	450944	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.79	117	447424	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.11	152	234880	25.00000	ppb	0.00

System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.62	111	244566	25.65137	ppb	0.00
Spiked Amount	25.000		Recovery	= 102.604%		
3) 1,2-DCA-D4(S)	5.05	65	274395	25.22886	ppb	0.00
Spiked Amount	25.000		Recovery	= 100.916%		
5) Toluene-D8(S)	7.32	98	834375	24.73929	ppb	0.00
Spiked Amount	25.000		Recovery	= 98.956%		
6) 4-Bromofluorobenzene(S)	9.98	95	311314	23.90640	ppb	0.00
Spiked Amount	25.000		Recovery	= 95.624%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0730T09.D TSUR0726.M Thu Aug 15 09:38:58 2019

Quantitation Report

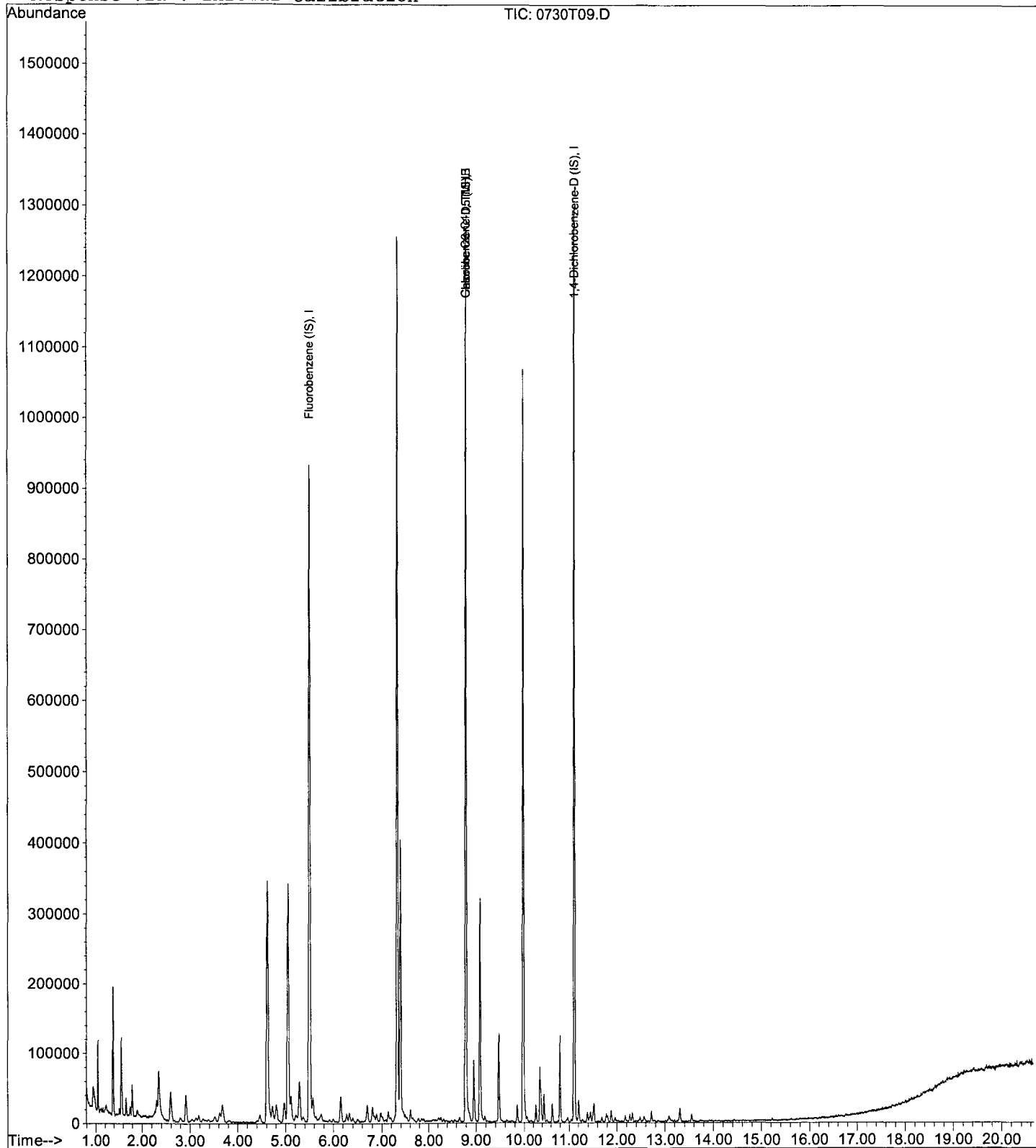
Data File : M:\THOR\DATA\T190726\0730T09.D
Acq On : 30 Jul 19 13:08
Sample : 190730A LCS 300ug/L
Misc : IS&S 7/6/19, 6/2/19

Vial: 6
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 31 12:41 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190726\0730T10.D Vial: 7
 Acq On : 30 Jul 19 13:36 Operator:
 Sample : 190730A LCSD 300ug/L Inst : Thor
 Misc : IS&S 7/6/19, 6/2/19 Multiplr: 1.00

Quant Time: Jul 31 12:41 2019 Quant Results File: TGAS729.RES

Quant Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Tue Jul 30 09:43:35 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	TIC	892884	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.79	TIC	1200184	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.11	TIC	1214454	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	7.32	TIC	13770360m	309.22110	ppb	100

Data File : M:\THOR\DATA\T190726\0730T10.D
 Acq On : 30 Jul 19 13:36
 Sample : 190730A LCSD 300ug/L
 Misc : IS&S 7/6/19, 6/2/19
 MS Integration Params: LSCINT.P
 Quant Time: Jul 31 12:46 2019

Vial: 7
 Operator:
 Inst : Thor
 Multiplr: 1.00000

Quant Results File: TSUR0726.RES

Quant Method : M:\THOR\DATA\T190726\TSUR0726.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Jul 29 09:43:56 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	434240	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.79	117	422272	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.11	152	221568	25.00000	ppb	0.00

System Monitoring Compounds

2) Dibromofluoromethane(S)	4.62	111	246945	26.89723	ppb	0.00
Spiked Amount	25.000		Recovery	=	107.588%	
3) 1,2-DCA-D4(S)	5.05	65	281048	26.83457	ppb	0.00
Spiked Amount	25.000		Recovery	=	107.340%	
5) Toluene-D8(S)	7.32	98	846256	26.58610	ppb	0.00
Spiked Amount	25.000		Recovery	=	106.344%	
6) 4-Bromofluorobenzene(S)	9.98	95	312159	25.39910	ppb	0.00
Spiked Amount	25.000		Recovery	=	101.596%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0730T10.D TSUR0726.M Thu Aug 15 09:39:08 2019

Quantitation Report

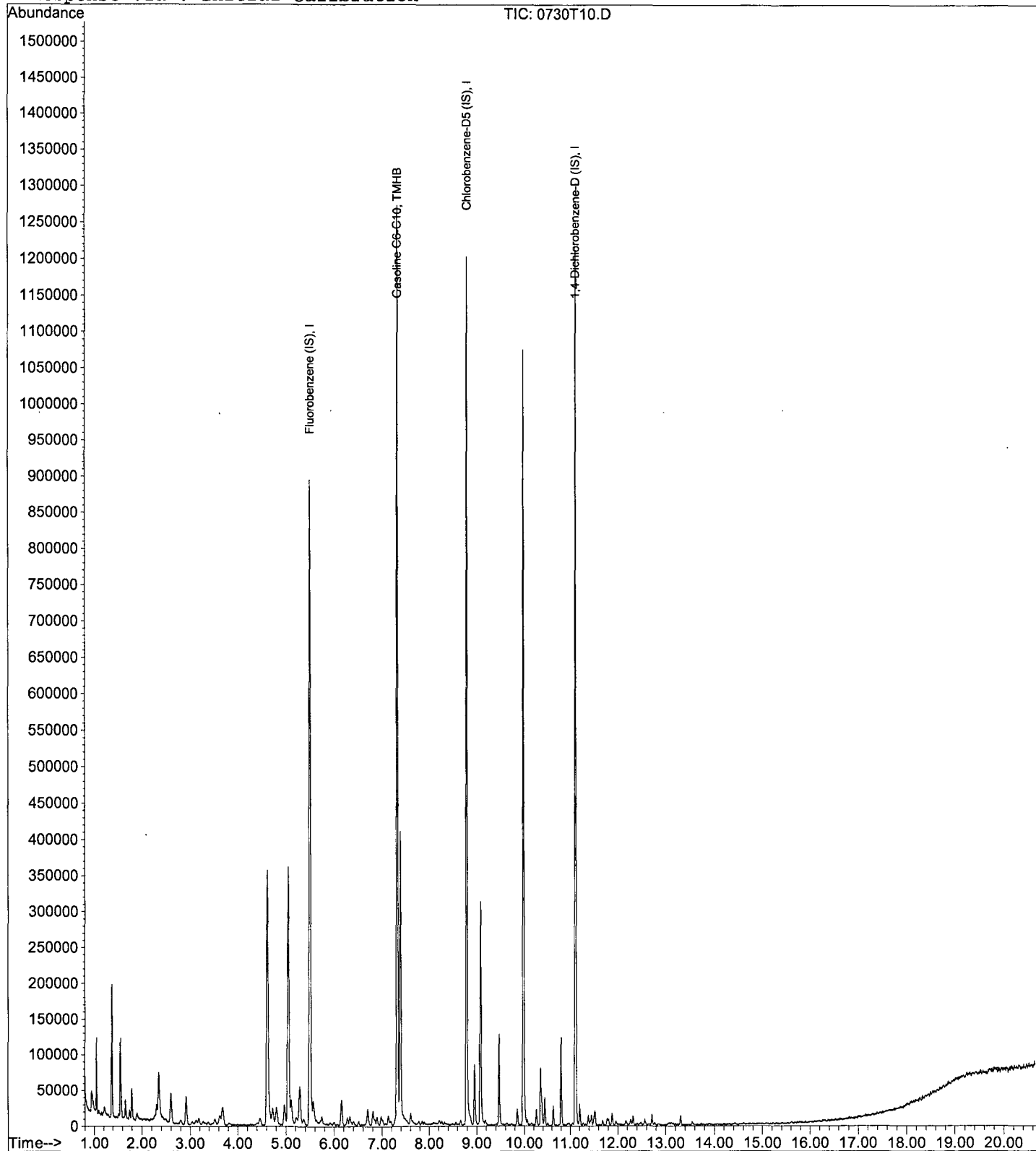
Data File : M:\THOR\DATA\T190726\0730T10.D
Acq On : 30 Jul 19 13:36
Sample : 190730A LCSD 300ug/L
Misc : IS&S 7/6/19, 6/2/19

Vial: 7
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Jul 31 12:41 2019

Quant Results File: TGAS729.RES

Method : M:\THOR\DATA\T190726\TGAS729.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 30 09:43:35 2019
Response via : Initial Calibration



Thor 8260 Standard Prep

Thor 8260 Water Calibration Curve										
0.3ug/L						Prepared By (Initials): <u>CMM</u>				
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	0.3ug/L	5	Prepared 07/26/19	09/24/19	N/A	3uL	50mL	P&T Water	0.3
VOA STD. 10	O2SI		5	Prepared 07/26/19	09/24/19	N/A	3uL			0.3
VOA STD. 12	O2SI		5	Prepared 07/26/19	09/24/19	N/A	3uL			0.3
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	2uL			10
0.5ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	0.5ug/L	5	Prepared 07/26/19	09/24/19	N/A	5uL	50mL	P&T Water	0.5
VOA STD. 10	O2SI		5	Prepared 07/26/19	09/24/19	N/A	5uL			0.5
VOA STD. 12	O2SI		5	Prepared 07/26/19	09/24/19	N/A	5uL			0.5
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	5uL			25
1.0ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	1.0ug/L	5	Prepared 07/26/19	09/24/19	N/A	10uL	50mL	P&T Water	1
VOA STD. 10	O2SI		5	Prepared 07/26/19	09/24/19	N/A	10uL			1
VOA STD. 12	O2SI		5	Prepared 07/26/19	09/24/19	N/A	10uL			1
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	10uL			50
2.0ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	2.0ug/L	5	Prepared 07/26/19	09/24/19	N/A	20uL	50mL	P&T Water	2
VOA STD. 10	O2SI		5	Prepared 07/26/19	09/24/19	N/A	20uL			2
VOA STD. 12	O2SI		5	Prepared 07/26/19	09/24/19	N/A	20uL			2
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	15uL			75
5ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	5ug/L	50	Prepared 07/26/19	09/24/19	N/A	5uL	50mL	P&T Water	5
VOA STD. 8	Phenova		50	Prepared 07/26/19	07/31/19	N/A	5uL			5
VOA STD. 1	O2SI		50	Prepared 07/26/19	09/24/19	N/A	5uL			5
VOA STD. 2	O2SI		50	Prepared 07/26/19	09/24/19	N/A	5uL			5
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	20uL			100
10ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	10ug/L	50	Prepared 07/26/19	09/24/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova		50	Prepared 07/26/19	07/31/19	N/A	10uL			10
VOA STD. 1	O2SI		50	Prepared 07/26/19	09/24/19	N/A	10uL			10
VOA STD. 2	O2SI		50	Prepared 07/26/19	09/24/19	N/A	10uL			10
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	25uL			125

20ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	20ug/L	50	Prepared 07/26/19	09/24/19	N/A	20uL	50mL	P&T Water	20
VOA STD. 8	Phenova		50	Prepared 07/26/19	07/31/19	N/A	20uL			20
VOA STD. 1	O2SI		50	Prepared 07/26/19	09/24/19	N/A	20uL			20
VOA STD. 2	O2SI		50	Prepared 07/26/19	09/24/19	N/A	20uL			20
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	30uL			150
40ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	40ug/L	50	Prepared 07/26/19	09/24/19	N/A	40uL	50mL	P&T Water	40
VOA STD. 8	Phenova		50	Prepared 07/26/19	07/31/19	N/A	40uL			40
VOA STD. 1	O2SI		50	Prepared 07/26/19	09/24/19	N/A	40uL			40
VOA STD. 2	O2SI		50	Prepared 07/26/19	09/24/19	N/A	40uL			40
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	35uL			175
100ug/L										
Prepared: 07/26/19										
Expires: 08/25/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	100ug/L	50	Prepared 07/26/19	09/24/19	N/A	100uL	50mL	P&T Water	100
VOA STD. 8	Phenova		50	Prepared 07/26/19	07/31/19	N/A	100uL			100
VOA STD. 1	O2SI		50	Prepared 07/26/19	09/24/19	N/A	100uL			100
VOA STD. 2	O2SI		50	Prepared 07/26/19	09/24/19	N/A	100uL			100
VOA STD. TBA	Various		250	Prepared 07/26/19	07/31/19	N/A	40uL			200
Thor 8260 Water Second Source (SS)										
Prepared: 07/26/19										
Expires: 08/25/19										
						Prepared By (Initials): CMM				
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 4	Phenova	8260 Water SS	50	Prepared 07/26/19	09/24/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 5	O2SI	8260 Water SS	50	Prepared 07/26/19	09/24/19	N/A	10uL			10
VOA STD. 6	Various	8260 Water SS	50	Prepared 07/26/19	07/17/19	N/A	10uL			10
VOA STD. TBA	Various	8260 Water SS	250	Prepared 07/26/19	07/17/19	N/A	25uL			250
8260 Water Continuing Calibrations (CCV)/ Lab Control Spikes (LCS)										
Prepared: 07/26/19										
Expires: 07/27/19										
						Prepared By (Initials): CMM				
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	CCV/ LCS	50	Prepared 07/26/19	09/24/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova	CCV/ LCS	50	Prepared 07/26/19	07/31/19	N/A	10uL			10
VOA STD. 1	O2SI	CCV/ LCS	50	Prepared 07/26/19	09/24/19	N/A	10uL			10
VOA STD. 2	O2SI	CCV/ LCS	50	Prepared 07/26/19	09/24/19	N/A	10uL			10
VOA STD. TBA	Various	CCV/ LCS	250	Prepared 07/26/19	07/31/19	N/A	25uL			125
LCS (X4 Ketones)										
Prepared: 07/26/19										
Expires: 07/27/19										
						Prepared By (Initials): CMM				
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	LCS X4 Ketones	50	Prepared 07/26/19	09/24/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova	LCS X4 Ketones	50	Prepared 07/26/19	07/31/19	N/A	10uL			10
VOA STD. 1	O2SI	LCS X4 Ketones	50	Prepared 07/26/19	09/24/19	N/A	10uL			10
VOA STD. 2	O2SI	LCS X4 Ketones	50	Prepared 07/26/19	09/24/19	N/A	40uL			40
VOA STD. TBA	Various	LCS X4 Ketones	250	Prepared 07/26/19	07/31/19	N/A	25uL			125

Primary and Secondary Working Standards

Primary Standards										
VOA STD 7										
Prepared: 07/26/19 G										
Expires: 09/24/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Gasses STD	Phenova	ALO-101206	2,000	CL12965-40902	07/26/20	11/30/23	100uL			50
Hexachloroethane	Absolute	70199	1,000	091818-41092	07/26/20	09/18/23	200uL	4mL	Methanol	50
Benzyl Chloride	Absolute	70037	1,000	061919-41087	07/26/20	06/19/20	200uL			50
VOA STD 8										
Prepared: 07/26/19 H										
Expires: 07/31/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Additions STD	Phenova	ALO-130175	2,000	CL12744-40591	07/09/20	08/31/20	100uL			50
502.2 Cal. Std.	Phenova	ALO-101200	2,000	CL12489-40595	07/09/20	05/31/23	100uL	4mL	Methanol	50
Vinyl Acetate	Phenova	ALO-101228	2,000	CL13816-41081	07/09/20	07/31/19	100uL			50
VOA STD TBA										
Prepared: 07/26/19 I										
Expires: 07/31/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Custom VOC Mix	Phenova	ALO-130176	2,000	CL12929-41066	07/17/20	11/30/20	500uL			250
Acrolein	Phenova	ALO-130549	10,000	CL13820-41082	07/09/20	07/31/19	100uL	4mL	Methanol	250
VOA STD 1										
Prepared: 07/26/19 J										
Expires: 09/24/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
2-CEVE	Absolute	071018-40341	2,000	071018-40713	07/05/20	07/10/21	50	2mL	Methanol	50
VOA STD 2										
Prepared: 07/26/19 K										
Expires: 09/24/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Ketones Std.	Phenova	ALO-109211	2,000	CL12729-40181	07/09/20	08/31/28	100	4mL	Methanol	50
VOA STD 9										
Prepared: 07/26/19 L										
Expires: 09/24/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA STD. 7		VOA STD. 9	50	Prepared 07/26/19	05/21/20	N/A	200uL			5
VOA STD. 8			50	Prepared 07/26/19	05/21/20	N/A	200uL	2mL	Methanol	5
VOA STD. 10										
Prepared: 07/26/19 M										
Expires: 09/24/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA STD. 1		VOA STD. 10	50	Prepared 07/26/19	05/21/20	N/A	200uL	2mL	Methanol	5
VOA STD. 12										
Prepared: 07/26/19 N										
Expires: 09/24/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA STD. 2		VOA STD. 12	50	Prepared 07/26/19	05/21/20	N/A	200uL	2mL	Methanol	5

Second Source (SS) Standards										
VOA STD. 3										
Prepared: 07/26/19 O										
Expires: 09/24/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): CMM										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Ketones Standard	Phenova	ALO-101211	2,000	CL12730-40609	07/09/20	08/31/28	50uL	2mL	Methanol	50
VOA STD. 5										
Prepared: 07/26/19 P										
Expires: 09/24/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): CMM										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
8260 Gases (SS)	Phenova	ALO-101206	2,000	CL12966-40912	06/26/20	11/30/23	50uL	2mL	Methanol	50
2-CEVE (SS)	Absolute	82408	2,000	071018-40965	0709/2020	07/10/21	50uL			50
VOA STD. 6										
Prepared: 07/26/19 Q										
Expires: 07/17/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): CMM										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
502.2 Calibration STD. (54-compounds)	Phenova	ALO-101200	2,000	CL12490-40917	07/09/20	05/31/23	50uL	2mL	Methanol	50
Vinyl Acetate	Phenova	ALO-101228	2,000	CL13739-40986	06/25/20	07/17/19	50uL			50
Hexachloroethane	Accustan	AS-E0011	1,000	219061767-41116	07/26/20	06/28/29	100uL			50
Benzyl Chloride	Accustan	M-8010-01	200	219041664	07/26/20	05/22/21	500uL			50
VOA STD. TBA										
Prepared: 07/26/19 R										
Expires: 07/17/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): CMM										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Custom VOA Mix (4-3)	Phenova	ALO-130176	2,000	CL12542-39863	07/17/20	05/31/20	250uL	2mL	Methanol	250
Acrolein	Phenova	ALO-101224	10,000	CL13741-40987	06/25/20	07/17/19	50uL			250
VOA STD. 0										
Prepared: 07/26/19 S										
Expires: 07/09/19										
Methanol Lot No. 58019-00962										
Prepared By (Initials): CMM										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Addition STD.	Phenova	ALO-130175	2,000	CL12744-40994	07/09/19	08/31/20	50uL	2mL	Methanol	50
BFB Tune										
Prepared: 07/24/19										
Expires: 01/19/21										
Methanol Lot No. 58019-00958										
Prepared By (Initials): CMM										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
4-Bromofluorobenzene	O2SI	020135-03	2,500	342387-39071	07/24/20	01/19/21	20uL	2mL	Methanol	25

Thor Gas Standard Prep

Gas Primary Working Standard										
Prepared: 07/16/19						Prepared By (Initials): <u>DG</u>				
Expires: 07/15/20										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
50,000ug/mL Gas STD	Restek	30205	50,000	A0132443-39859	07/16/20	12/31/24	80uL	2mL	Methanol	2,000
Gas Second Source (SS) Working Standard										
Prepared: 07/16/19						Prepared By (Initials): <u>DG</u>				
Expires: 07/15/20										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Gasoline (5,000ppm)	O2SI	020246-06	5,000	CL11750-40999	07/16/20	02/28/27	800uL	2mL	Methanol	2,000
Thor Gas Calibration Curve										
Prepared: 07/29/18						Prepared By (Initials): <u>CMM</u>				
Expires: 09/27/18										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA Gasses Standards	Phenova	20ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	1uL	100mL	P&T Water	20
VOA Gasses Standards	Phenova	50ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	2.5uL	100mL	P&T Water	50
VOA Gasses Standards	Phenova	100ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	5uL	100mL	P&T Water	100
VOA Gasses Standards	Phenova	300ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	15uL	100mL	P&T Water	300
VOA Gasses Standards	Phenova	600ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	30uL	100mL	P&T Water	600
VOA Gasses Standards	Phenova	800ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	40uL	100mL	P&T Water	800
VOA Gasses Standards	Phenova	1,000ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	50uL	100mL	P&T Water	1,000
Thor Gas Second Source										
Prepared: 07/29/18						Prepared By (Initials): <u>CMM</u>				
Expires: 09/27/18										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
50,000ug/mL Gas STD	Phenova	SS 300ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	15uL	100mL	P&T Water	300
Thor Gas Continuing Calibrations/Lab Control Spikes										
Prepared: 07/29/18						Prepared By (Initials): <u>CMM</u>				
Expires: 07/30/18										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Gasses Standards	Phenova	300ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	15uL	100mL	P&T Water	300
Thor Gas Surrogate										
Prepared: 08/13/18						Prepared By (Initials): <u>PC</u>				
Expires: 04/02/19										
Methanol Lot No. 57159										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
8260B Surrogate Solution	O2SI	120002-01	2,000	275545-36329	06/09/19	04/02/19	375uL	15mL	Methanol	50
Thor Gas Internal Standard										
Prepared: 05/09/18						Prepared By (Initials): <u>PC</u>				
Expires: 04/13/19										
Methanol Lot No. 58149										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
IS Solution	O2SI	120004-02	2,000	326533-38443	04/13/19	04/27/21	375uL	15mL	Methanol	50

Gas Primary Working Standard										
Prepared: 07/16/19						Prepared By (Initials): <u>DG</u>				
Expires: 12/31/24										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
50,000ug/mL Gas STD	Restek	30205	50,000	A0132443-39859	07/16/20	12/31/24	80uL	2mL	Methanol	2,000
Gas Second Source (SS) Working Standard										
Prepared: 07/16/19						Prepared By (Initials): <u>DG</u>				
Expires: 10/31/20										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Gasoline (50,000ppm)	Phenova	ALO-101543	50,000	CL11750-40999	07/16/20	02/28/27	80uL	2mL	Methanol	2,000

Injection Log

Directory: M:\THOR\DATA\T190726\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
4	0726T04.D	1	0.3ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 13:35
5	0726T05.D	1	0.5ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 14:03
6	0726T06.D	1	1.0ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 14:31
7	0726T07.D	1	2.0ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 14:59
8	0726T08.D	1	5.0ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 15:27
9	0726T09.D	1	10ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 15:55
10	0726T10.D	1	20ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 16:24
12	0726T12.D	1	100ug/L VOC STD 07/26/19	IS&S 7/6/19, 6/2/19	26 Jul 19 17:20
7	0729T07.D	1	20ug/L GAS STD 07/29/19	IS&S 7/6/19, 6/2/19	29 Jul 19 11:30
8	0729T08.D	1	50ug/L GAS STD 07/29/19	IS&S 7/6/19, 6/2/19	29 Jul 19 11:57
9	0729T09.D	1	100ug/L GAS STD 07/29/19	IS&S 7/6/19, 6/2/19	29 Jul 19 12:25
10	0729T10.D	1	300ug/L GAS STD 07/29/19	IS&S 7/6/19, 6/2/19	29 Jul 19 12:53
11	0729T11.D	1	600ug/L GAS STD 07/29/19	IS&S 7/6/19, 6/2/19	29 Jul 19 13:21
12	0729T12.D	1	800ug/L GAS STD 07/29/19	IS&S 7/6/19, 6/2/19	29 Jul 19 13:50
13	0729T13.D	1	1000ug/L GAS STD 07/29/19	IS&S 7/6/19, 6/2/19	29 Jul 19 14:18
15	0729T15.D	1	SS 300ug/L GAS STD 07/29/19	IS&S 7/6/19, 6/2/19	29 Jul 19 15:14
5	0730T08.D	1	190730A CCV 300ug/L	IS&S 7/6/19, 6/2/19	30 Jul 19 12:40
6	0730T09.D	1	190730A LCS 300ug/L	IS&S 7/6/19, 6/2/19	30 Jul 19 13:08
7	0730T10.D	1	190730A LCSD 300ug/L	IS&S 7/6/19, 6/2/19	30 Jul 19 13:36
8	0730T11.D	1	190730A BLK	IS&S 7/6/19, 6/2/19	30 Jul 19 14:05
9	0730T12.D	1	AZ95418W01	IS&S 7/6/19, 6/2/19	30 Jul 19 14:33
10	0730T13.D	1	AZ95419W01	IS&S 7/6/19, 6/2/19	30 Jul 19 15:01
11	0730T14.D	1	AZ95420W01	IS&S 7/6/19, 6/2/19	30 Jul 19 15:29
12	0730T15.D	1	AZ95421W01	IS&S 7/6/19, 6/2/19	30 Jul 19 15:57
13	0730T16.D	1	AZ95422W01	IS&S 7/6/19, 6/2/19	30 Jul 19 16:25
14	0730T17.D	1	AZ95423W01	IS&S 7/6/19, 6/2/19	30 Jul 19 16:53
27	0730T30.D	1	Ending CCV 300ug/L 07/30/19	IS&S 7/6/19, 6/2/19	30 Jul 19 22:59

ORGANICS
Calibration Data

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 06/18/19
Instrument: 7890

Initials: *[Signature]*

19081802.D 19081803.D 19081804.D 19081805.D 19081806.D 19081807.D 19081808.D

	Compound	1	2	3	4	5	6	7					Avg	%RSD	Type	r^2	Q
1	ATML Methane	14748	10458	7136	9743	10449	11201	10592					10618	21	ATM	1.000	
2	ATML Ethane	13248	9958	6804	8700	8955	9680	8769					9445	21	ATM	0.999	
3	ATML Ethene	11298	8564	5896	7589	7406	8291	7253					8042	21	ATM	0.999	
4																	
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1.791451

Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\190618RS\19061802.D Vial: 3
 Acq On : 18 Jun 19 12:33 Operator: cmm
 Sample : RSK Std 1 06/18/19 Inst : 7890
 Misc : 125 uL from Std 3 Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jun 18 12:56 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jun 18 12:54:55 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

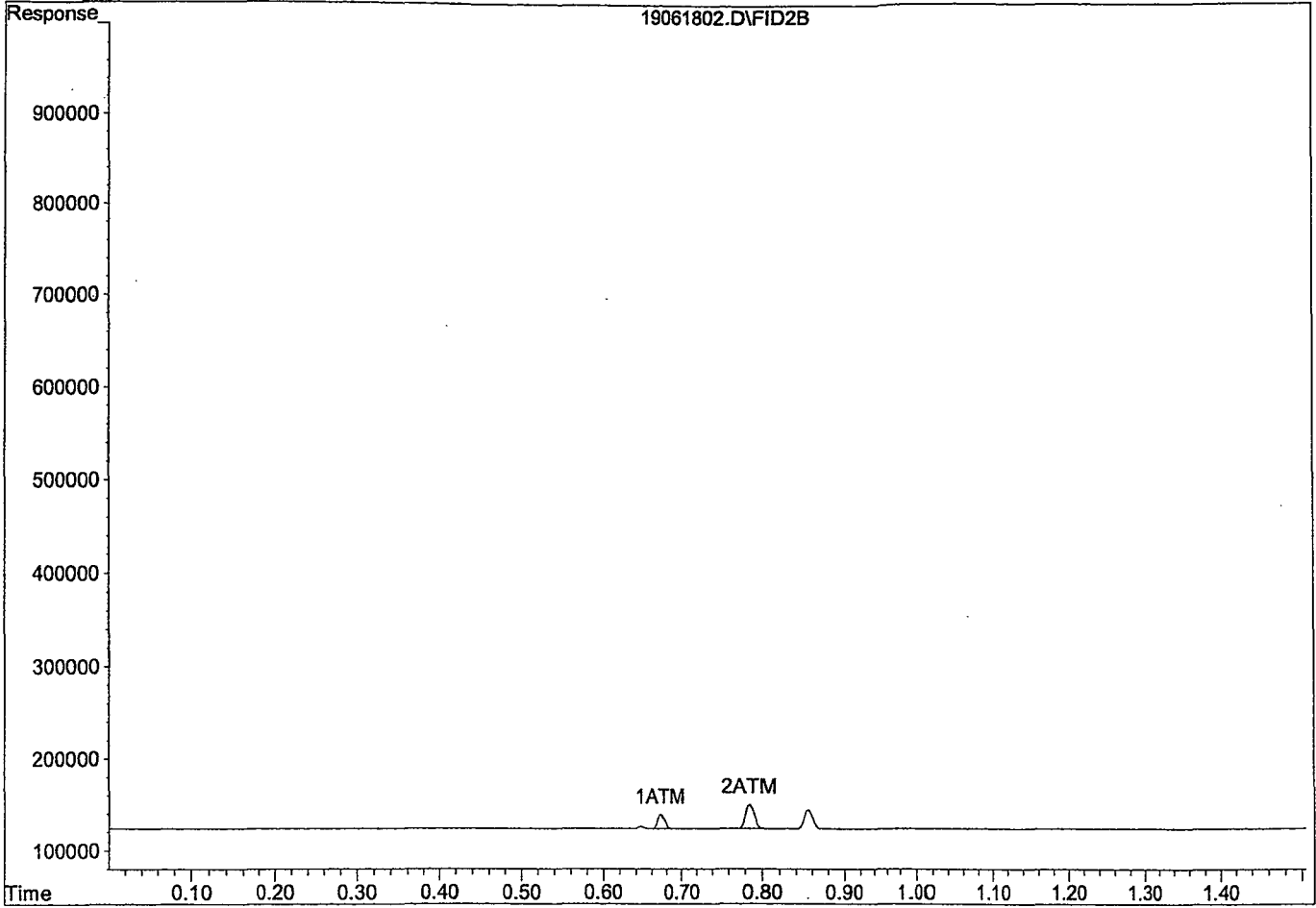
Compound	R.T.	Response	Conc Units

Target Compounds			
1) ATM Methane	0.67	15338	2.205 ppb
2) ATM Ethane	0.78	25899	0.205 ppb
Target Compounds			
3) ATM Ethene	0.85	20619	N.D. ppb

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19061802.D

Sample : RSK Std 1 06/18/19



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\190618RS\19061803.D Vial: 4
 Acq On : 18 Jun 19 12:36 Operator: cmm
 Sample : RSK Std 2 06/18/19 Inst : 7890
 Misc : 250 uL from Std 3 Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jun 18 12:56 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jun 18 12:54:55 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

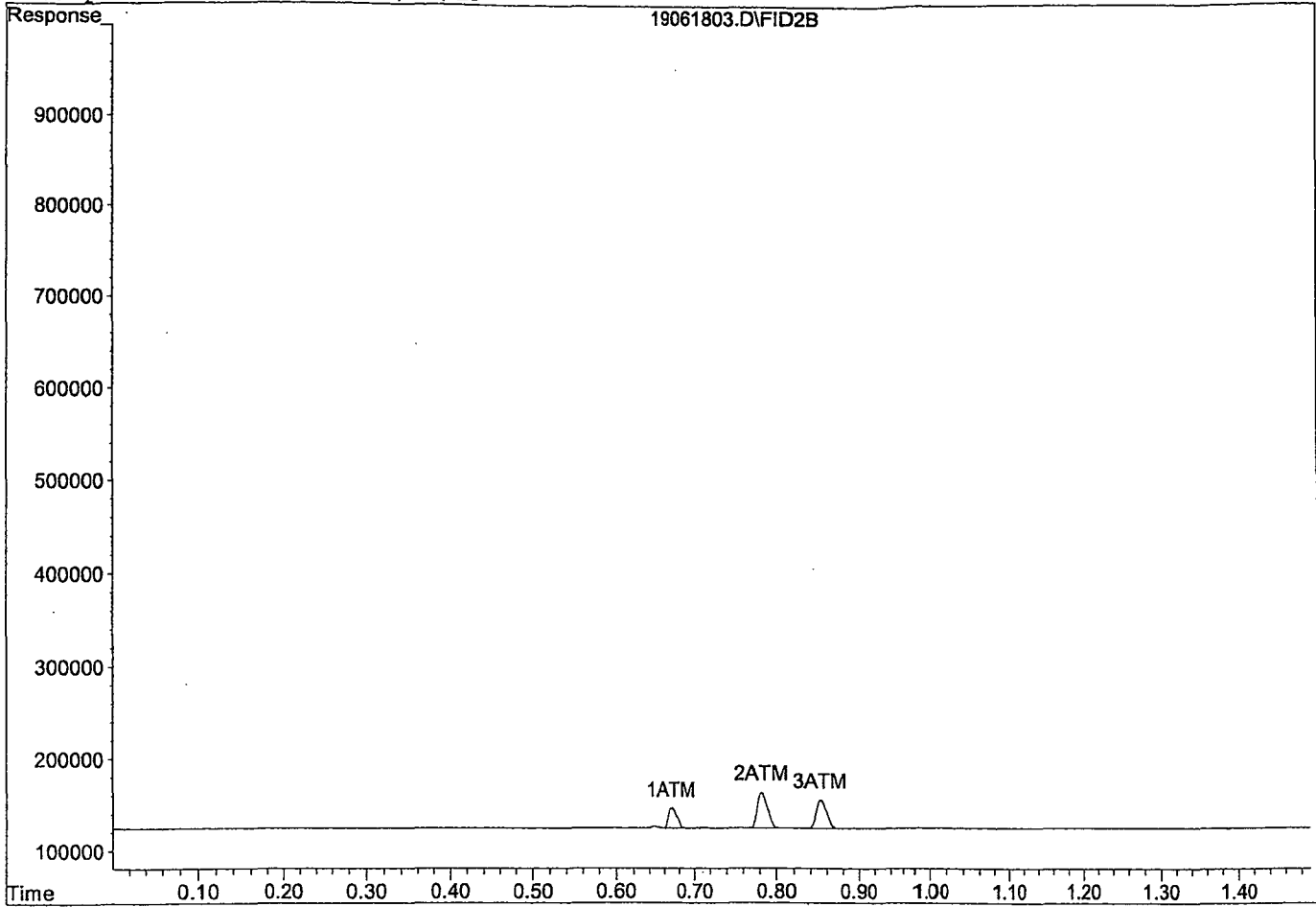
Target Compounds			
1) ATM Methane	0.67	21752	3.413 ppb
2) ATM Ethane	0.78	38887	3.163 ppb
3) ATM Ethene	0.85	31260	0.873 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19061803.D

Sample : RSK Std 2 06/18/19



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\190618RS\19061804.D Vial: 5
 Acq On : 18 Jun 19 12:39 Operator: cmm
 Sample : RSK Std 3 06/18/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jun 18 12:56 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jun 18 12:54:55 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

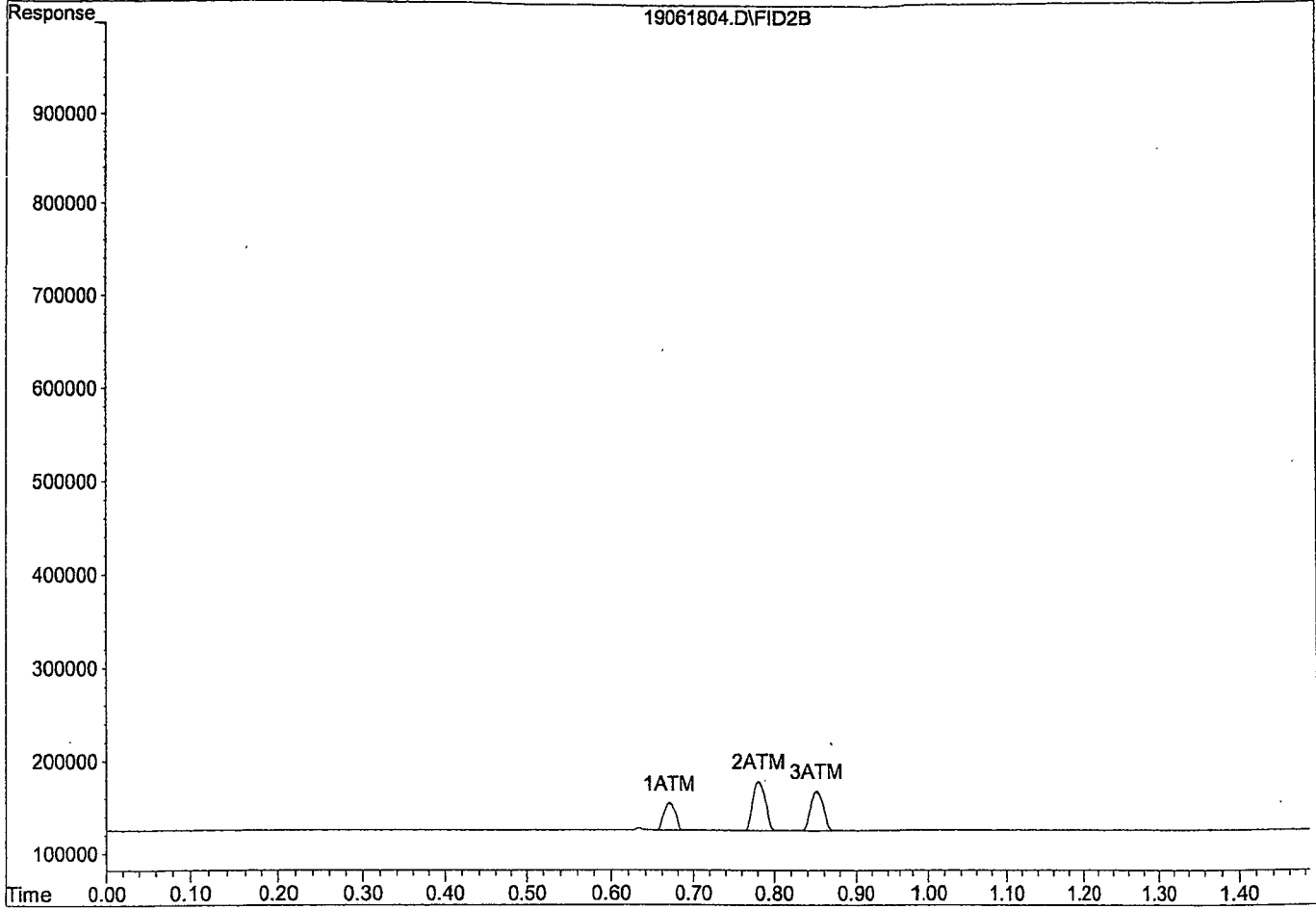
Target Compounds			
1) ATM Methane	0.67	29757	4.921 ppb
2) ATM Ethane	0.78	53072	6.393 ppb
3) ATM Ethene	0.85	43038	4.115 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19061804.D

Sample : RSK Std 3 06/18/19



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\190618RS\19061805.D Vial: 6
 Acq On : 18 Jun 19 12:42 Operator: cmm
 Sample : RSK Std 4 06/18/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jun 18 12:56 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jun 18 12:54:55 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

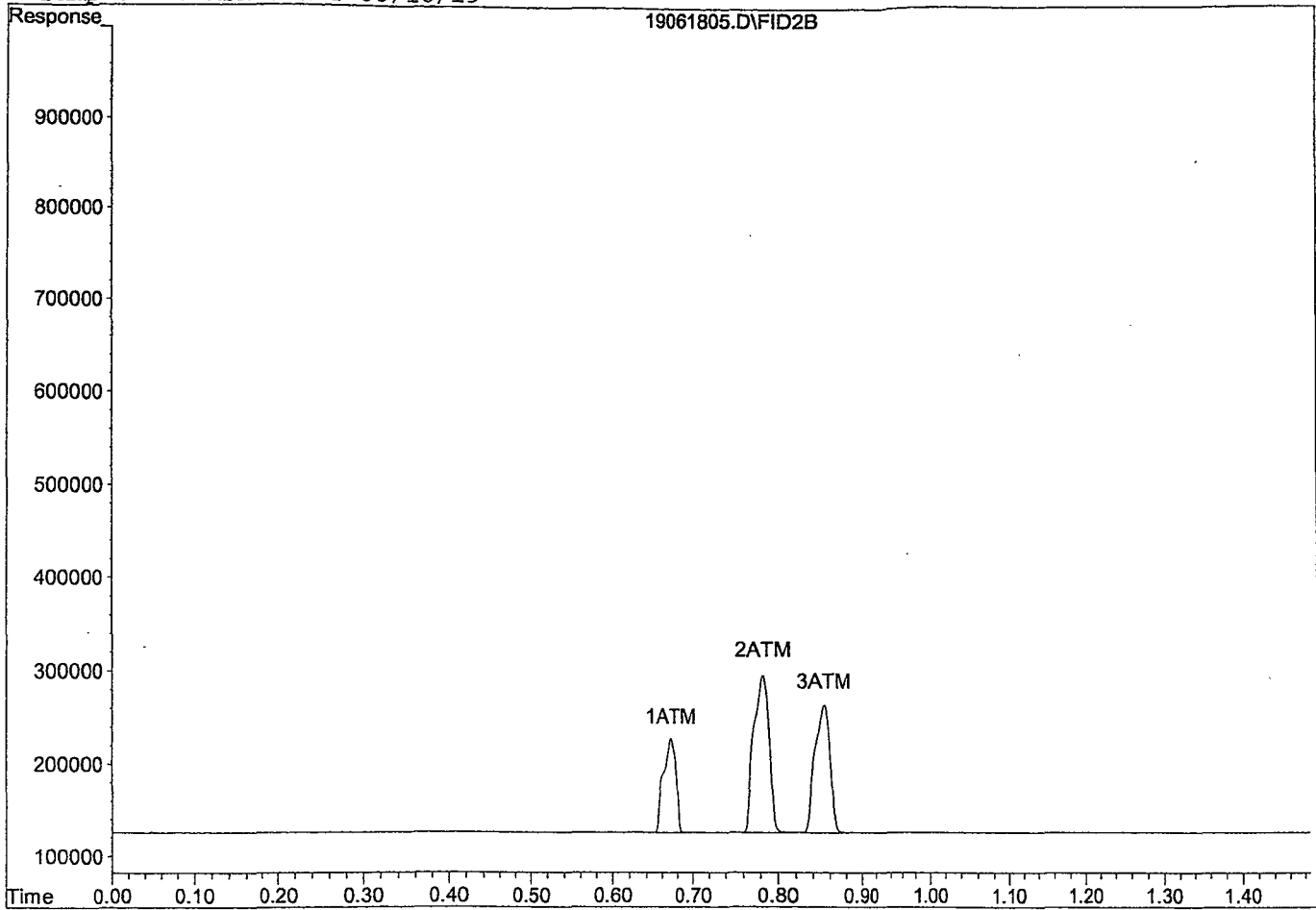
Target Compounds			
1) ATM Methane	0.67	101573	18.453 ppb
2) ATM Ethane	0.78	170046	33.032 ppb
3) ATM Ethene	0.85	138343	30.353 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19061805.D

Sample : RSK Std 4 06/18/19



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\190618RS\19061806.D Vial: 7
 Acq On : 18 Jun 19 12:44 Operator: cmm
 Sample : RSK Std 5 06/18/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jun 18 12:56 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jun 18 12:54:55 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

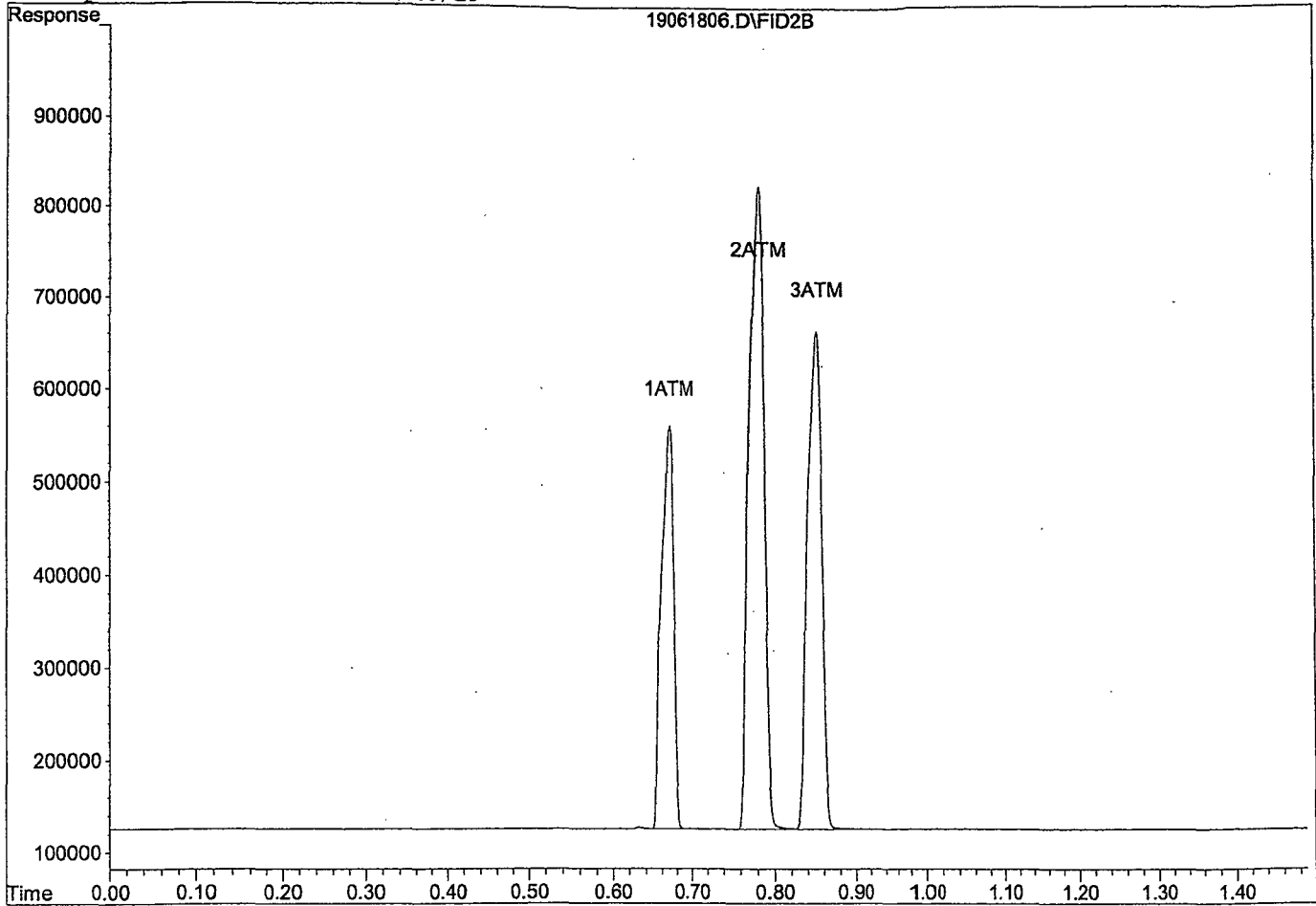
Target Compounds			
1) ATM Methane	0.67	435711	81.413 ppb
2) ATM Ethane	0.78	700049	153.731 ppb
3) ATM Ethene	0.85	540080	140.951 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19061806.D

Sample : RSK Std 5 06/18/19



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\190618RS\19061807.D Vial: 8
 Acq On : 18 Jun 19 12:47 Operator: cmm
 Sample : RSK Std 6 06/18/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jun 18 12:56 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jun 18 12:54:55 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

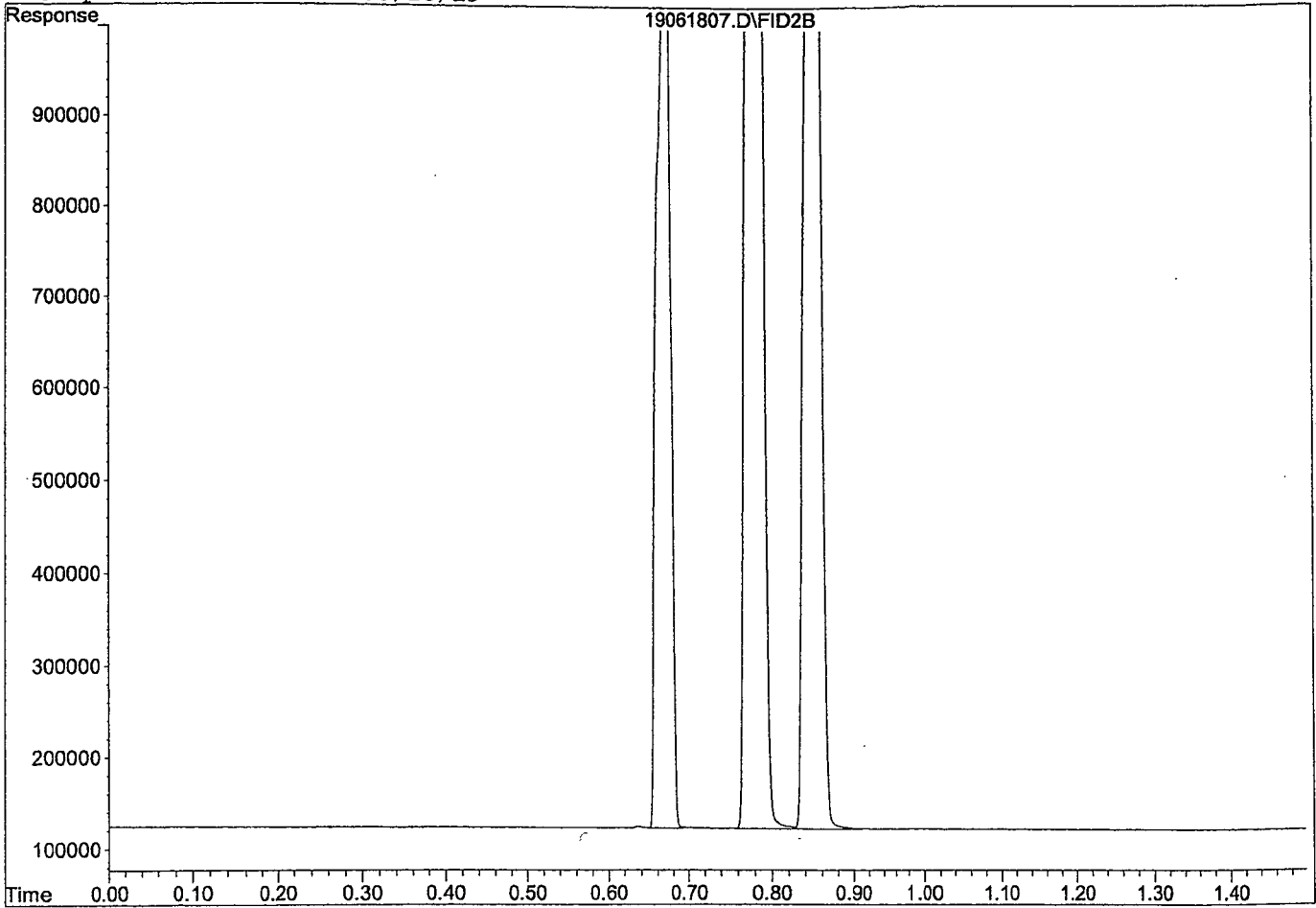
Target Compounds			
1) ATM Methane	0.67	1167694	219.338 ppb
2) ATM Ethane	0.78	1891954	425.166 ppb
3) ATM Ethene	0.85	1511420	408.362 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19061807.D

Sample : RSK Std 6 06/18/19



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\190618RS\19061808.D Vial: 9
 Acq On : 18 Jun 19 12:49 Operator: cmm
 Sample : RSK Std 7 06/18/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jun 18 12:56 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jun 18 12:54:55 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

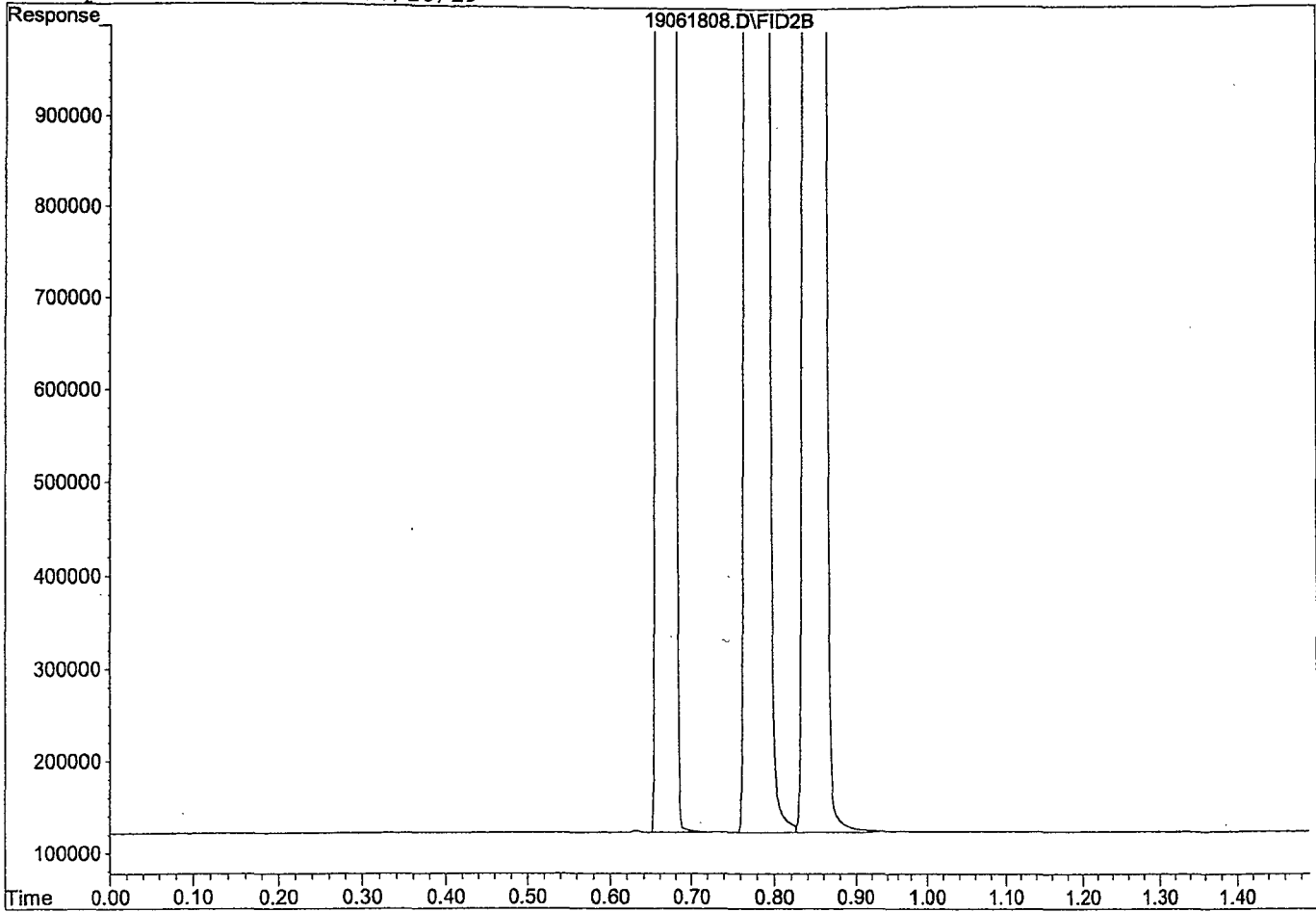
Target Compounds			
1) ATM Methane	0.67	4416985	831.587 ppb
2) ATM Ethane	0.79	6855267	1555.471 ppb
3) ATM Ethene	0.85	5288711	1448.253 ppb

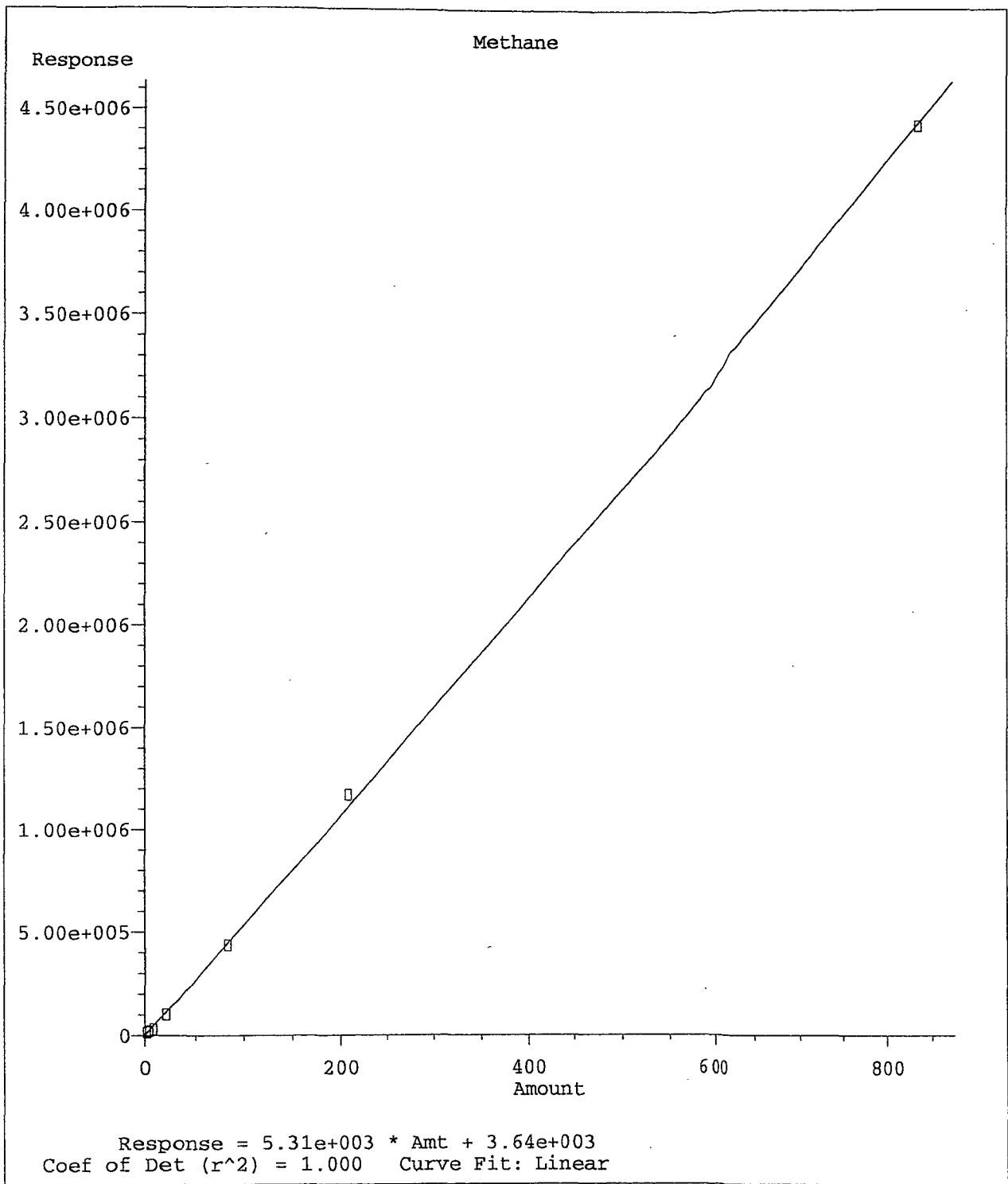
Target Compounds

Quantitation Report

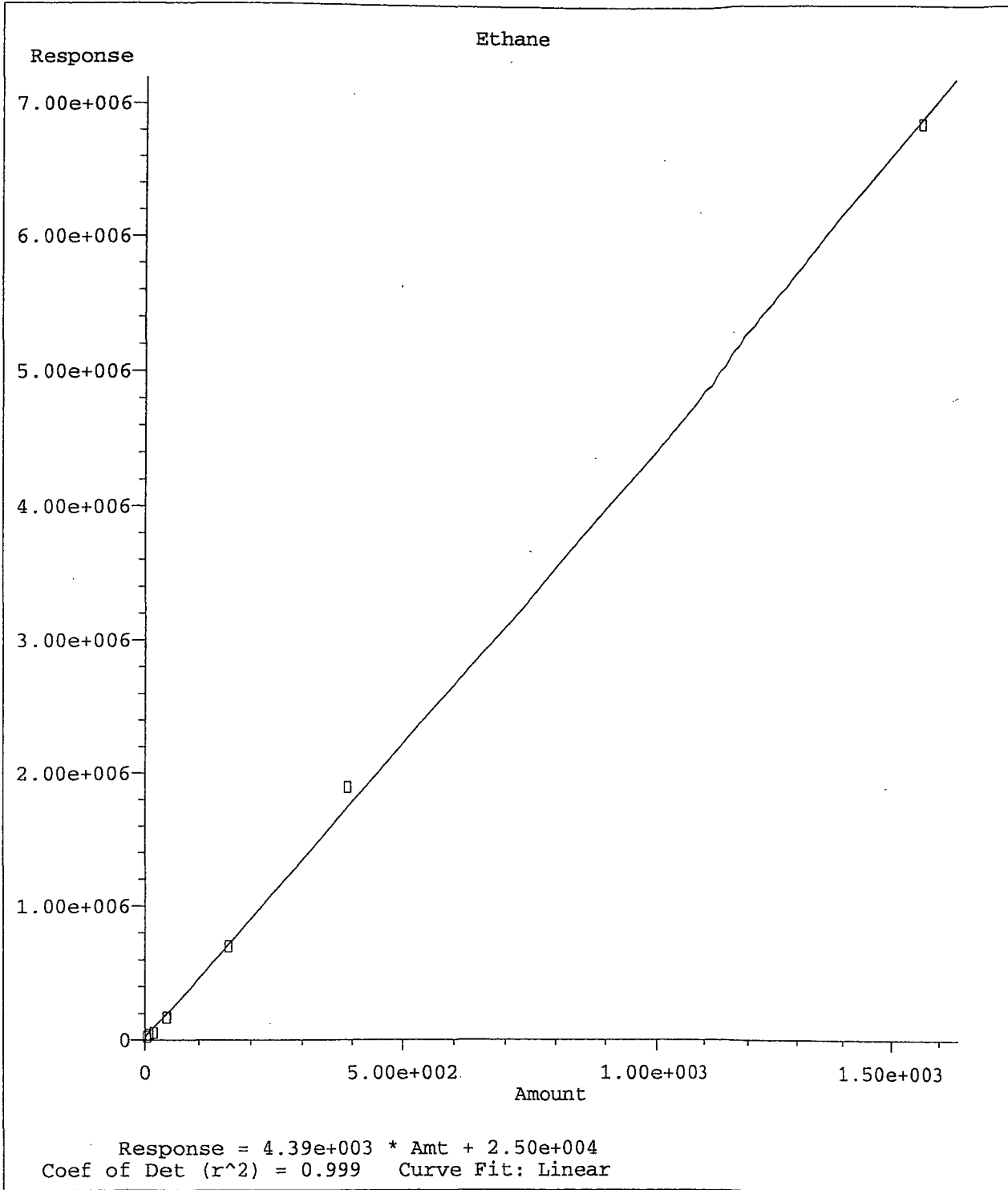
Data File: G:\ROCKY\DATA\190618RS\19061808.D

Sample : RSK Std 7 06/18/19

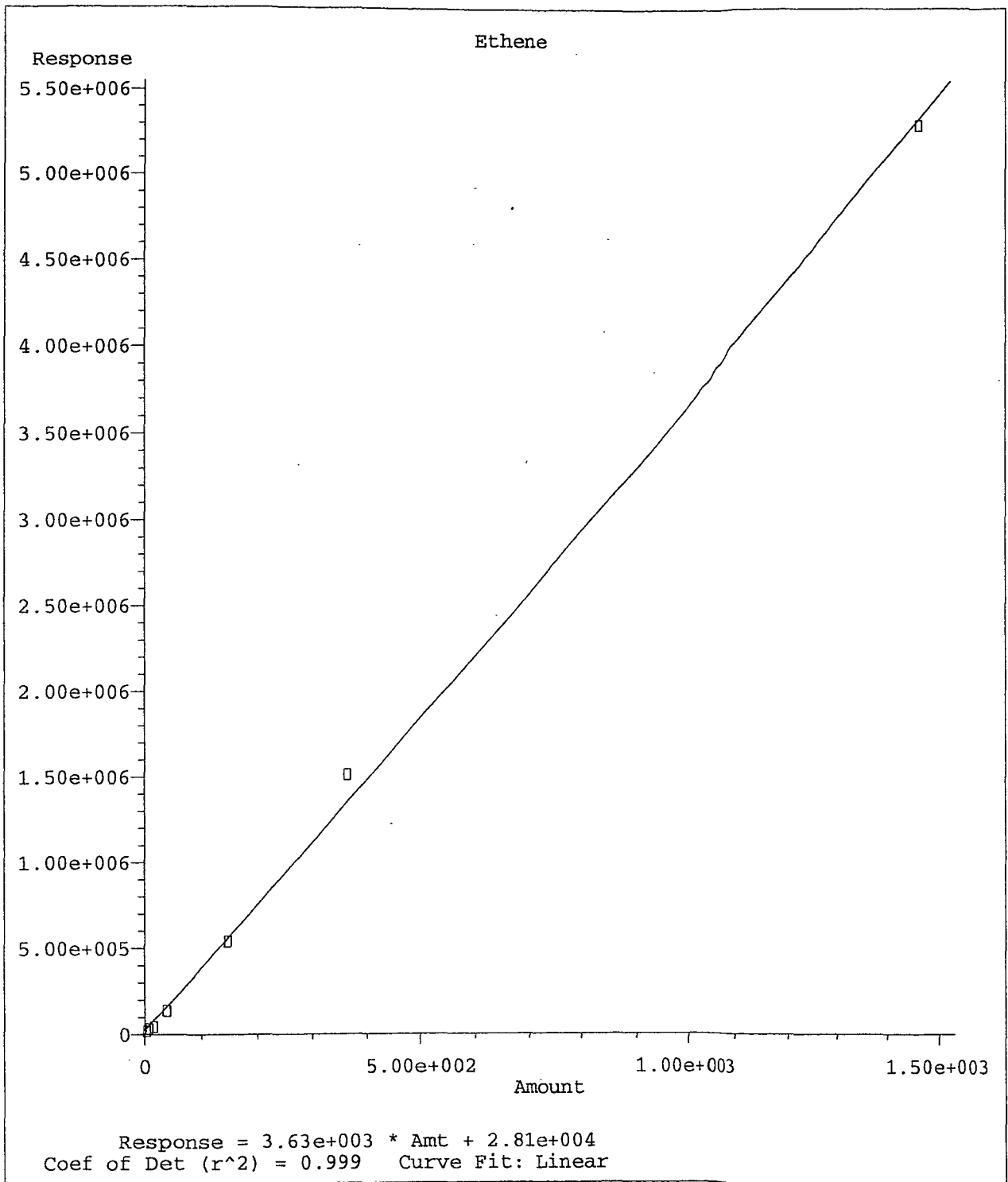




Method Name: G:\ROCKY\DATA\190618RS\RSK0618.M
Calibration Table Last Updated: Tue Jun 18 12:54:55 2019



Method Name: G:\ROCKY\DATA\190618RS\RSK0618.M
Calibration Table Last Updated: Tue Jun 18 12:54:55 2019



Method Name: G:\ROCKY\DATA\190618RS\RSK0618.M
 Calibration Table Last Updated: Tue Jun 18 12:54:55 2019

RSK 175

RSK 175

Form 7

Second Source Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 06/18/19

Matrix: _____

Instrument: 7890

Initial Cal. Date: 06/18/19

Data File: 19061809.D

		Compound	MEAN	CCRF	%D		%Drift
1	ATML	Methane	10618	11291	6.3	ATML	5.6
2	ATML	Ethane	9445	9533	0.93	ATML	4.9
3	ATML	Ethene	8042	7618	5.3	ATML	0.44
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39							
40							

Average

4.2

Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\190618RS\19061809.D Vial: 10
 Acq On : 18 Jun 19 12:52 Operator: cmm
 Sample : SS RSK Std 5 06/18/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jun 18 12:55 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jun 18 12:54:55 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

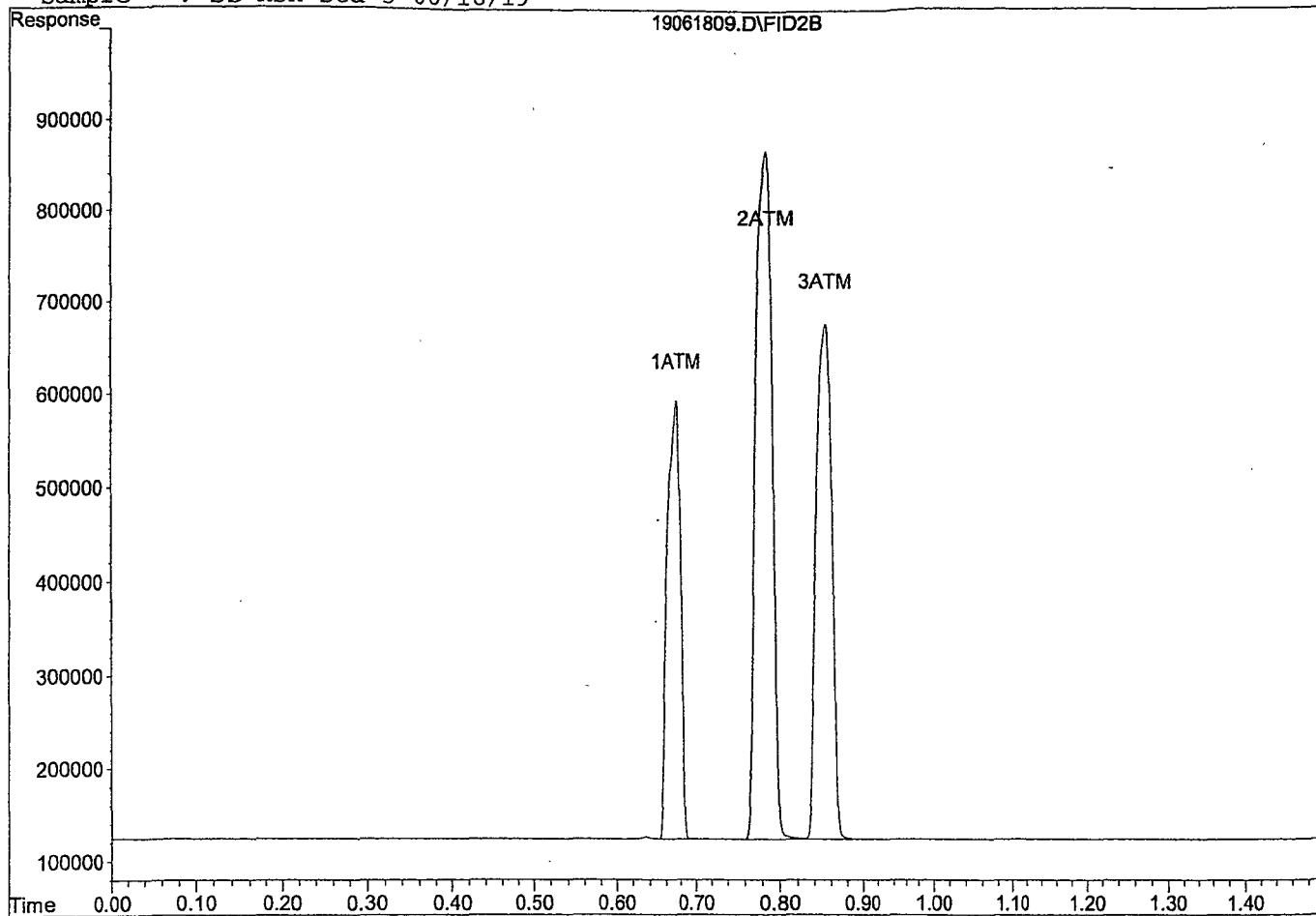
Target Compounds			
1) ATM Methane	0.67	470830	88.031 ppb
2) ATM Ethane	0.78	745250	164.024 ppb
3) ATM Ethene	0.85	555502	145.197 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19061809.D

Sample : SS RSK Std 5 06/18/19



RSK 175

RSK 175

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 07/30/19

Matrix: _____

Instrument: 7890

Initial Cal. Date: 06/18/19

Data File: 19073005.D

		Compound	MEAN	CCRF	%D	%Drift	
1	ATML	Methane	10618	9933	6.5	ATML	7.2
2	ATML	Ethane	9445	8209	13	ATML	10
3	ATML	Ethene	8042	6269	22	ATML	19
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40							

Average

13.8

Data File : G:\ROCKY\DATA\190618RS\19073005.D Vial: 1
 Acq On : 30 Jul 19 14:53 Operator: cmm
 Sample : 190730A LCS/CCV RSK STD 5 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 30 14:56 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jul 30 14:56:38 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

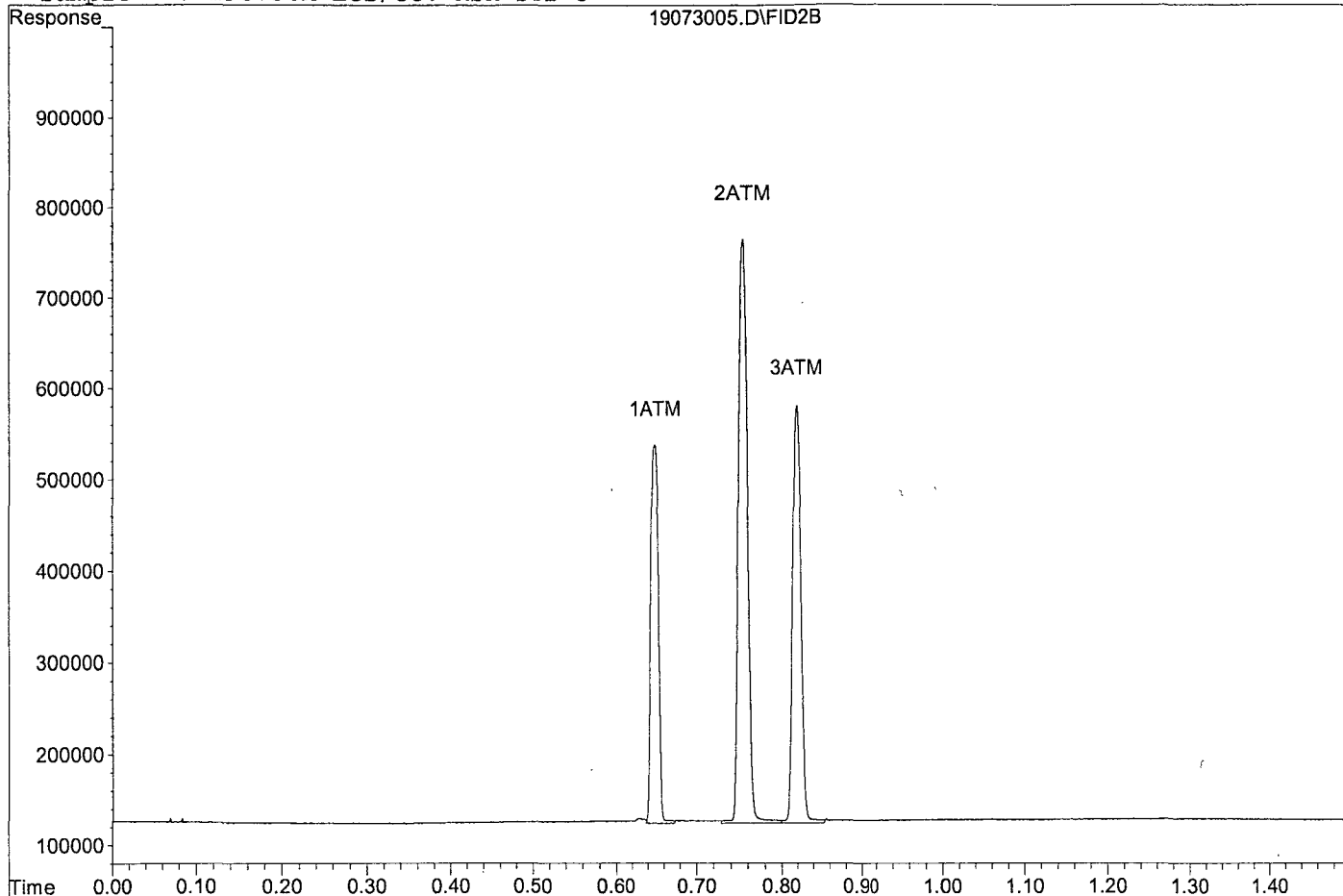
Target Compounds			
1) ATM Methane	0.65	414190	77.358 ppb
2) ATM Ethane	0.75	641748	140.454 ppb
3) ATM Ethene	0.82	457107	118.109 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19073005.D

Sample : 190730A LCS/CCV RSK STD 5



RSK 175
RSK 175

Form 7
Ending Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/30/19
Instrument: 7890
Initial Cal. Date: 06/18/19
Data File: 19073028.D

		Compound	MEAN	CCRF	%D	%Drift	
1	ATML	Methane	10618	10823	1.9	ATML	1.1
2	ATML	Ethane	9445	9322	1.3	ATML	2.5
3	ATML	Ethene	8042	8400	4.5	ATML	10
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
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26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

Average

2.6

Data File : G:\ROCKY\DATA\190618RS\19073028.D Vial: 24
 Acq On : 30 Jul 19 15:57 Operator: cmm
 Sample : Ending CCV RSK Std 5 07/30/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 30 15:59 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jul 30 14:56:38 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

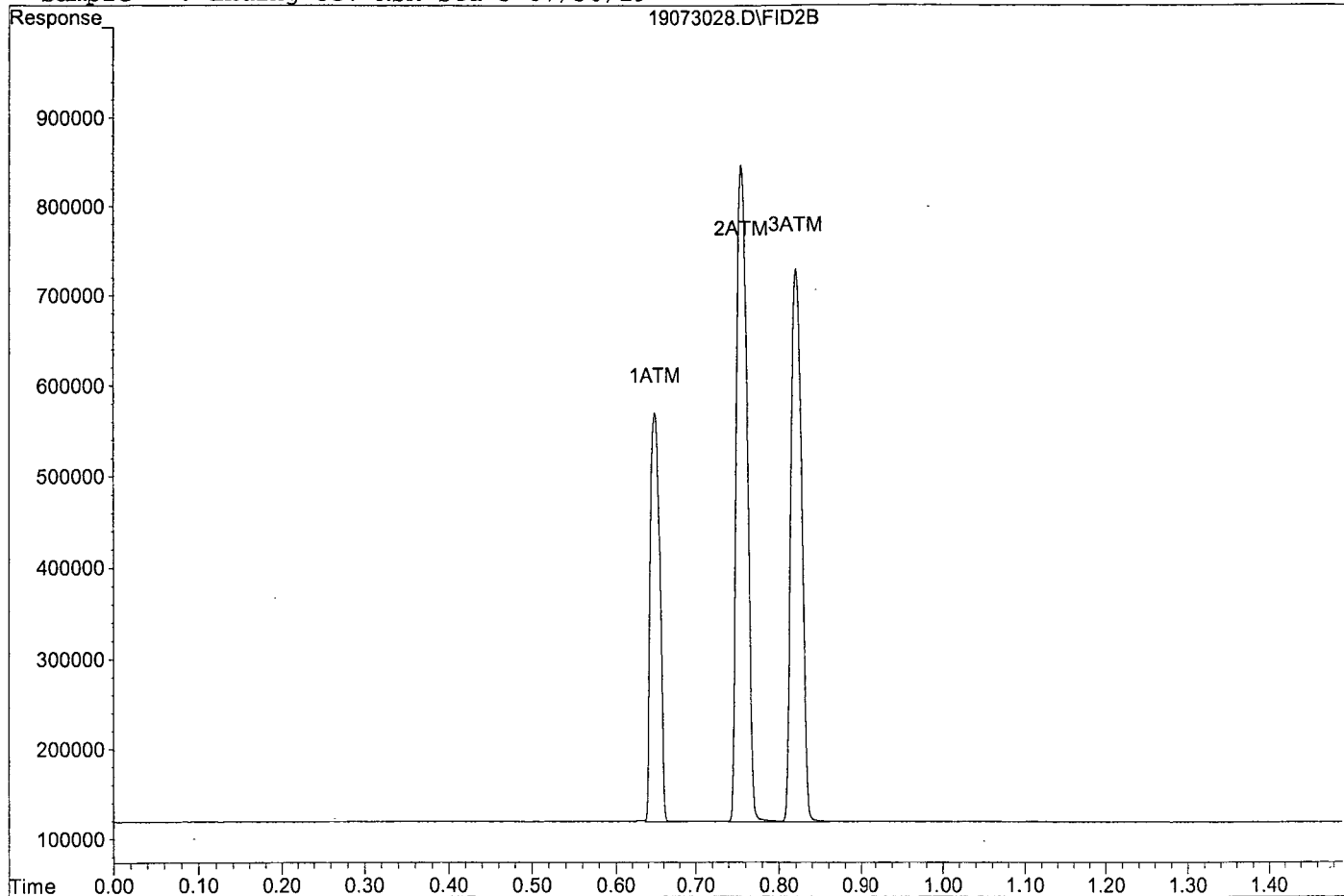
Target Compounds			
1) ATM Methane	0.65	451321	84.355 ppb
2) ATM Ethane	0.76	728720	160.260 ppb
3) ATM Ethene	0.82	612561	160.905 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19073028.D

Sample : Ending CCV RSK Std 5 07/30/19



ORGANICS
Raw Data

Data File : G:\ROCKY\DATA\190618RS\19073015.D Vial: 11
 Acq On : 30 Jul 19 15:24 Operator: cmm
 Sample : AZ95418W04 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 30 15:28 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jul 30 14:56:38 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
----------	------	----------	------	-------

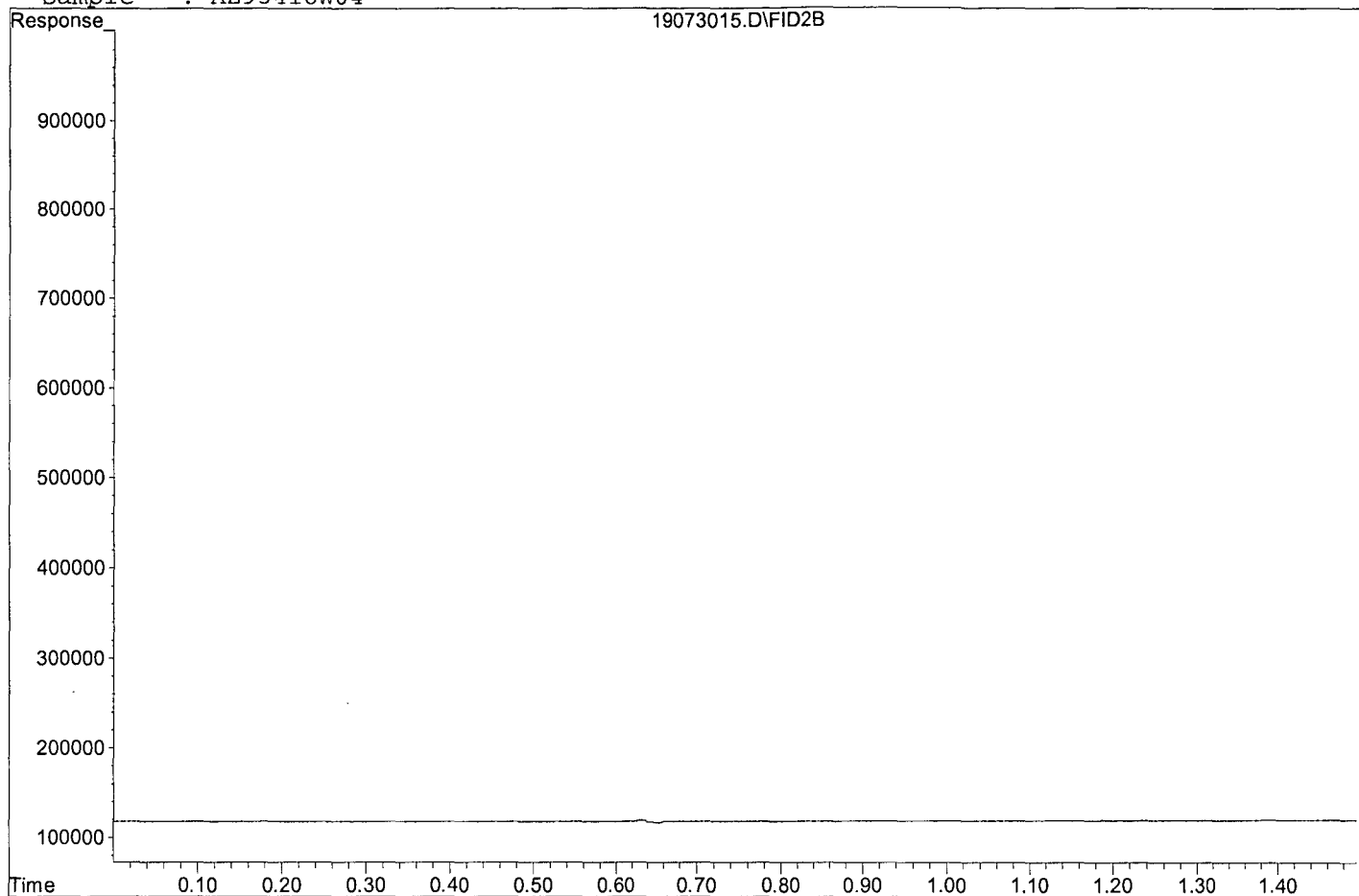
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19073015.D

Sample : AZ95418W04



Data File : G:\ROCKY\DATA\190618RS\19073016.D Vial: 12
 Acq On : 30 Jul 19 15:27 Operator: cmm
 Sample : AZ95419W04 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 30 15:30 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jul 30 14:56:38 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

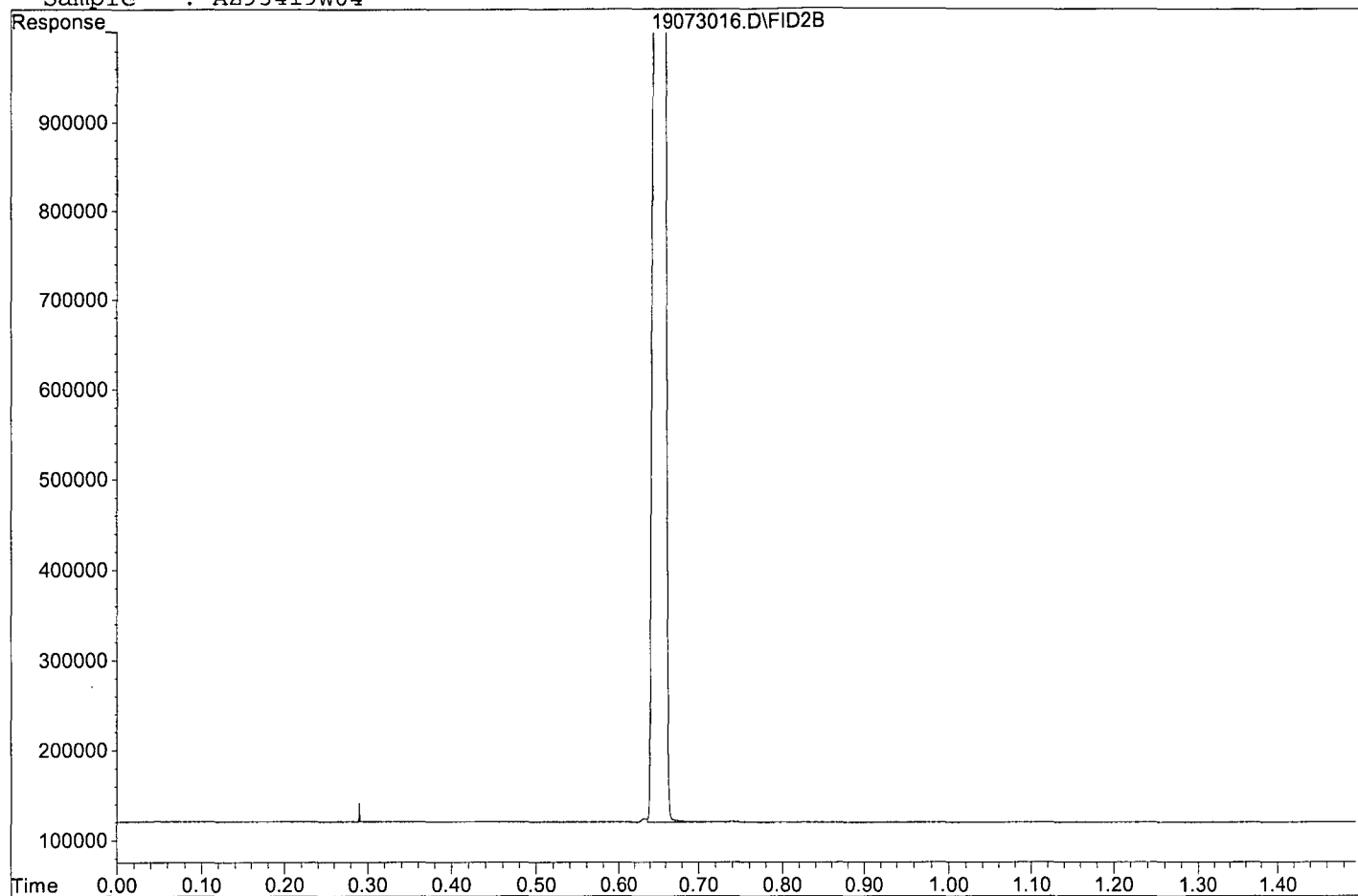
Compound	R.T.	Response	Conc	Units

Target Compounds				
1) ATM Methane	0.66	3385943	637.312	ppb
Target Compounds				
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19073016.D

Sample : AZ95419W04



Data File : G:\ROCKY\DATA\190618RS\19073017.D Vial: 13
 Acq On : 30 Jul 19 15:30 Operator: cmm
 Sample : AZ95420W04 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 30 15:33 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jul 30 14:56:38 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
----------	------	----------	------	-------

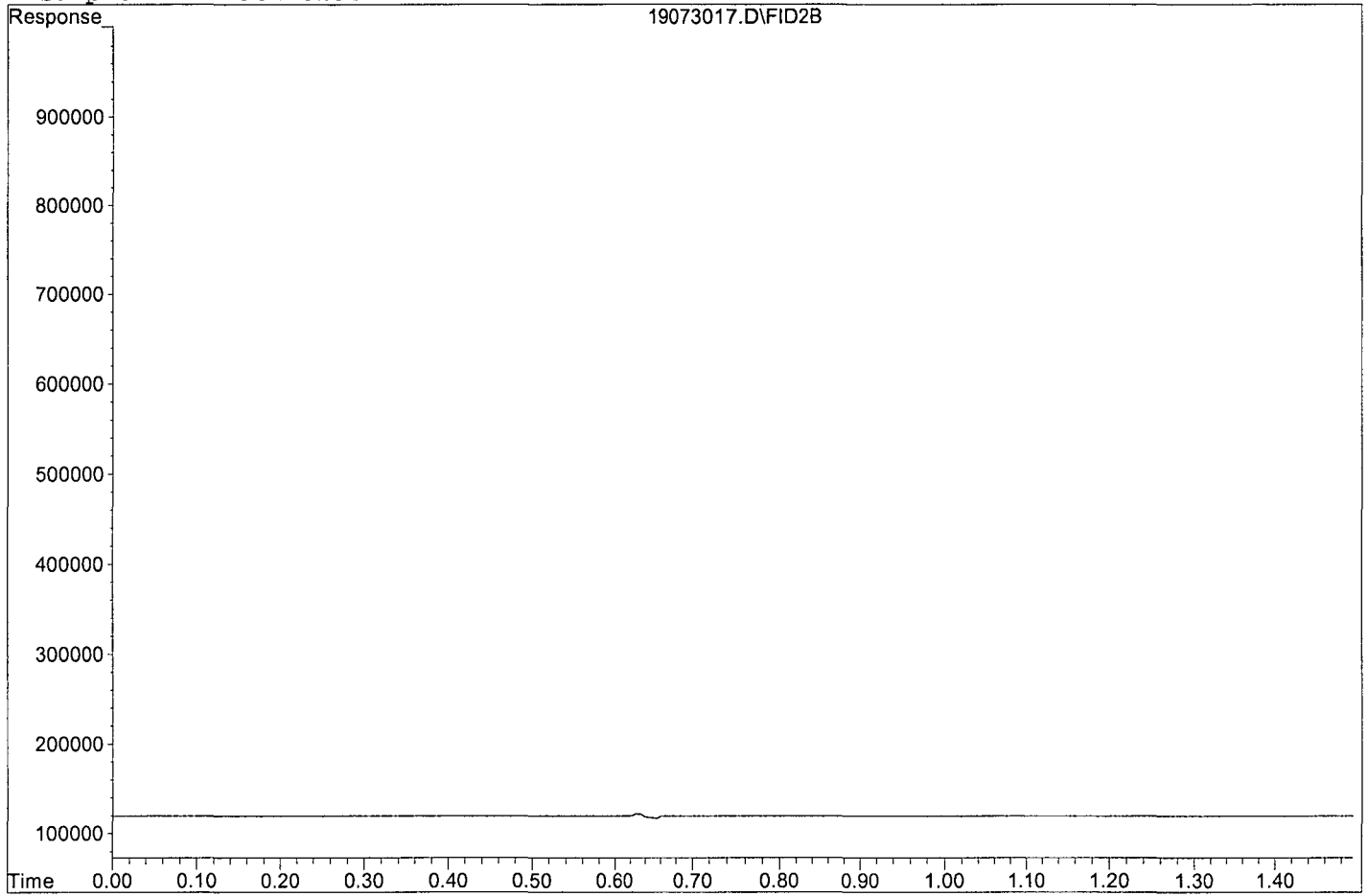
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19073017.D

Sample : AZ95420W04



Data File : G:\ROCKY\DATA\190618RS\19073018.D Vial: 14
 Acq On : 30 Jul 19 15:33 Operator: cmm
 Sample : AZ95421W04 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 30 15:36 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jul 30 14:56:38 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
----------	------	----------	------	-------

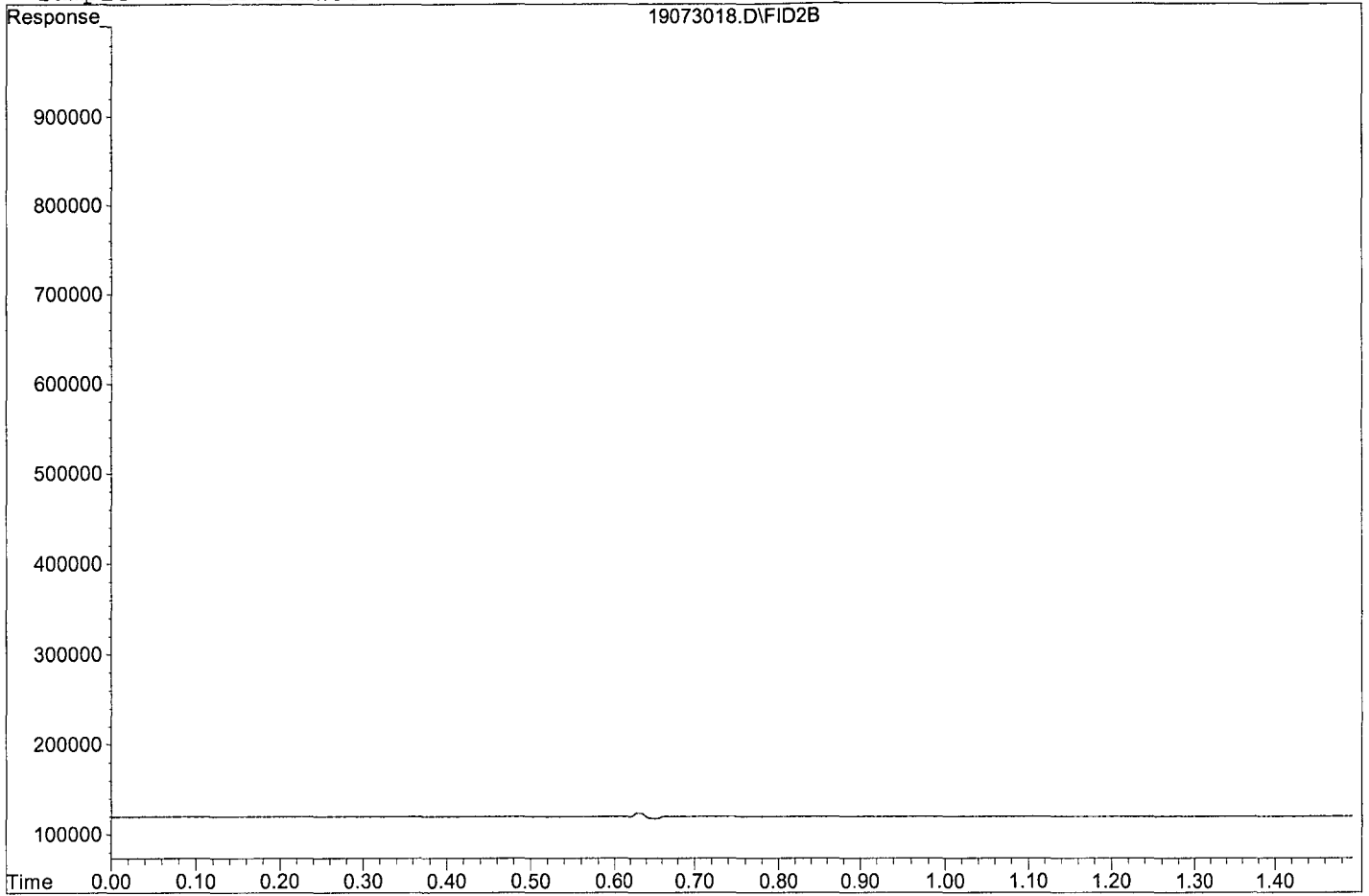
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19073018.D

Sample : AZ95421W04



Data File : G:\ROCKY\DATA\190618RS\19073019.D Vial: 15
 Acq On : 30 Jul 19 15:35 Operator: cmm
 Sample : AZ95422W04 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 30 15:38 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jul 30 14:56:38 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

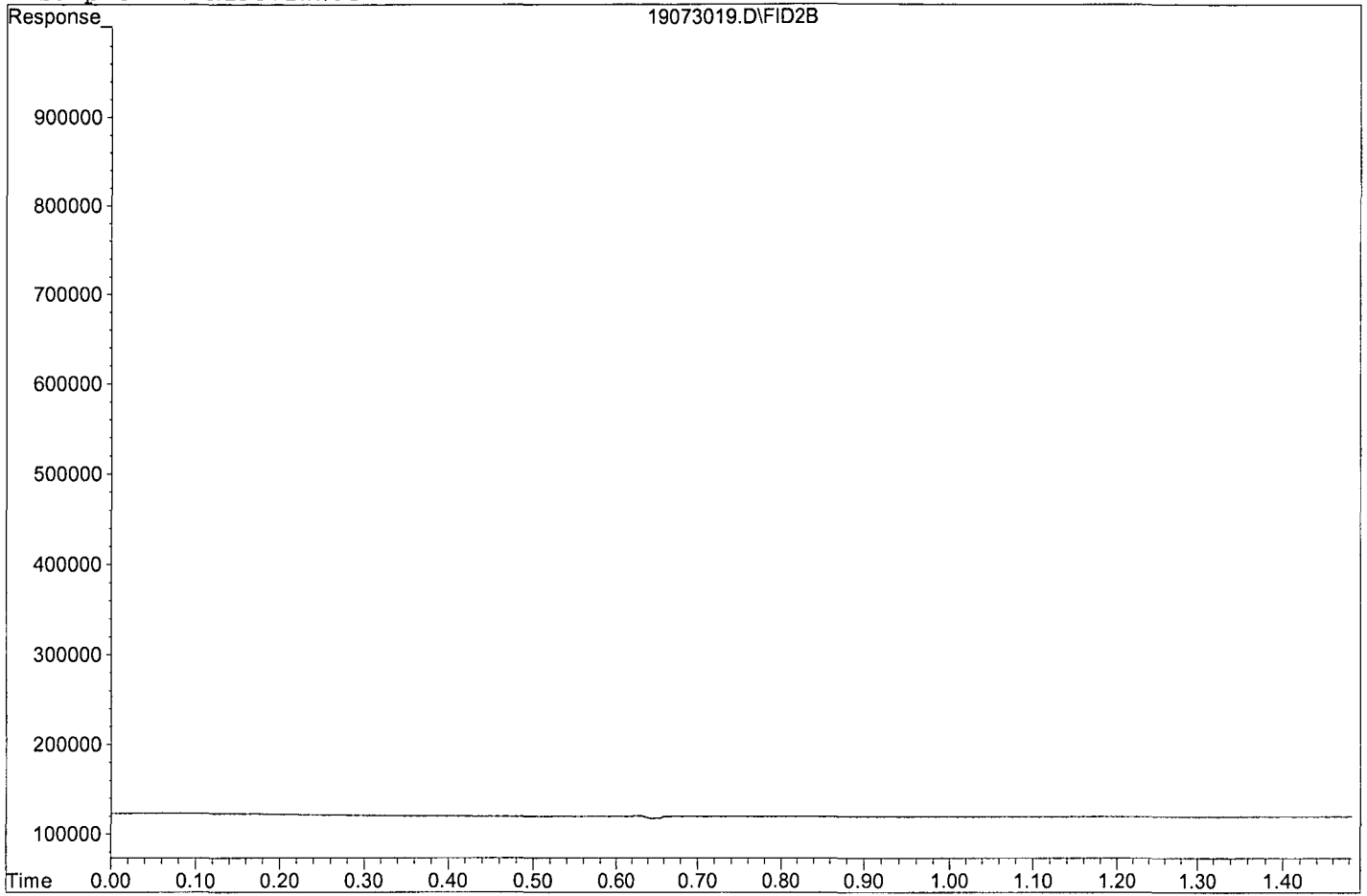
Compound	R.T.	Response	Conc	Units
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Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19073019.D
Sample : AZ95422W04



Data File : G:\ROCKY\DATA\190618RS\19073020.D Vial: 16
 Acq On : 30 Jul 19 15:37 Operator: cmm
 Sample : AZ95423W04 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 30 15:40 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jul 30 14:56:38 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
----------	------	----------	------	-------

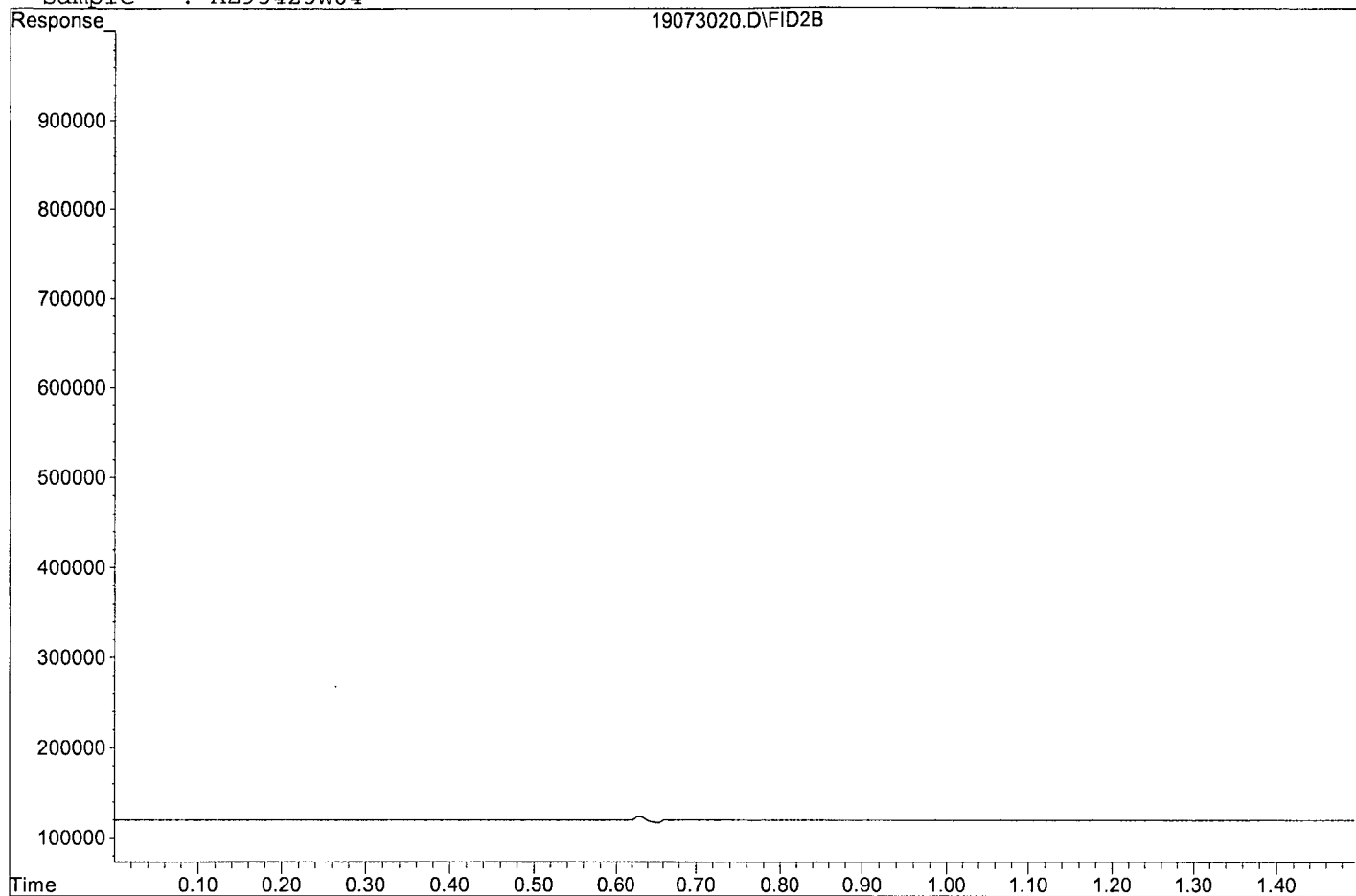
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19073020.D

Sample : AZ95423W04



Data File : G:\ROCKY\DATA\190618RS\19073007.D Vial: 3
 Acq On : 30 Jul 19 14:59 Operator: cmm
 Sample : 190730A Blk Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 30 15:02 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jul 30 14:56:38 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
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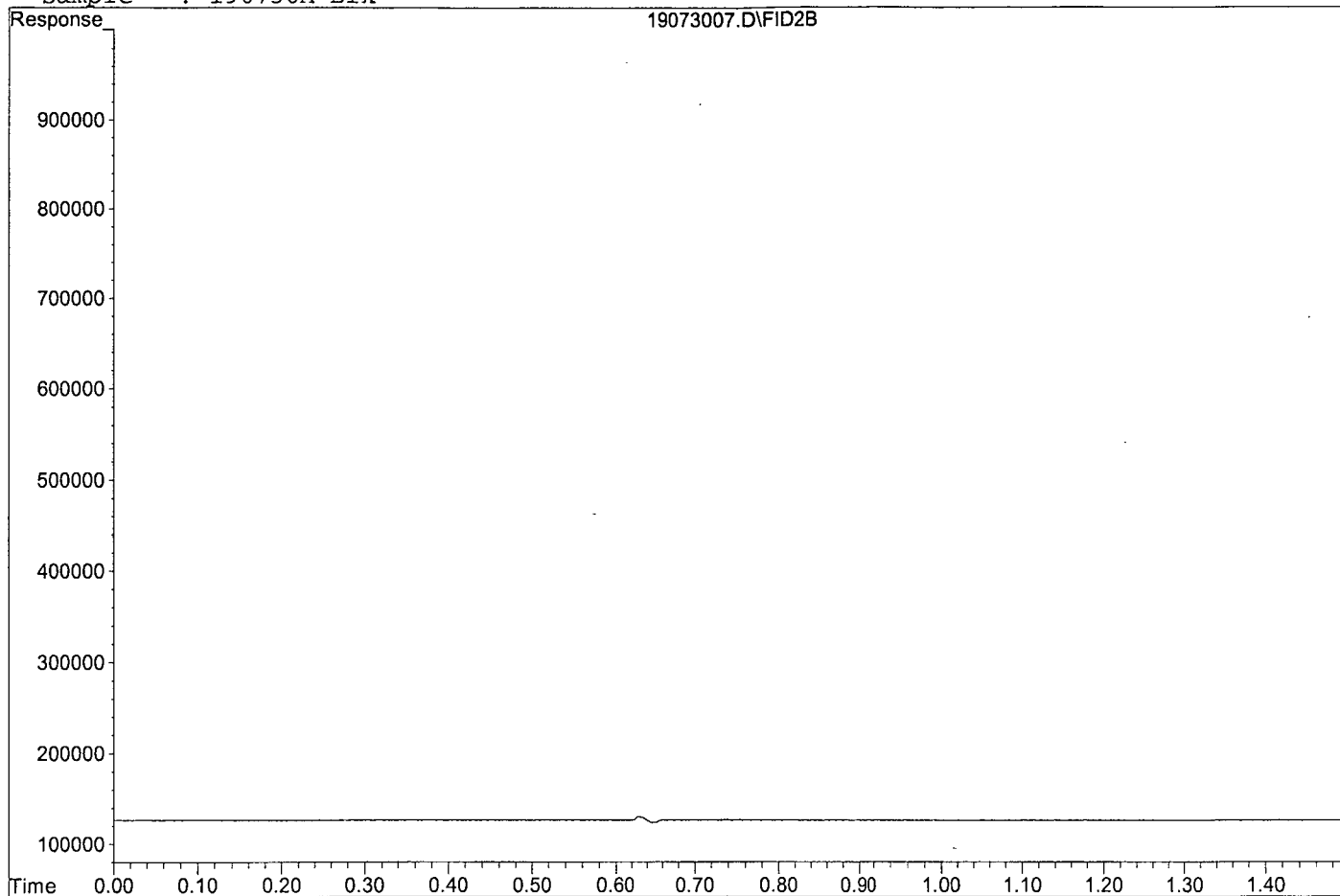
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19073007.D

Sample : 190730A Blk



Data File : G:\ROCKY\DATA\190618RS\19073005.D Vial: 1
 Acq On : 30 Jul 19 14:53 Operator: cmm
 Sample : 190730A LCS/CCV RSK STD 5 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 30 14:56 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jul 30 14:56:38 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

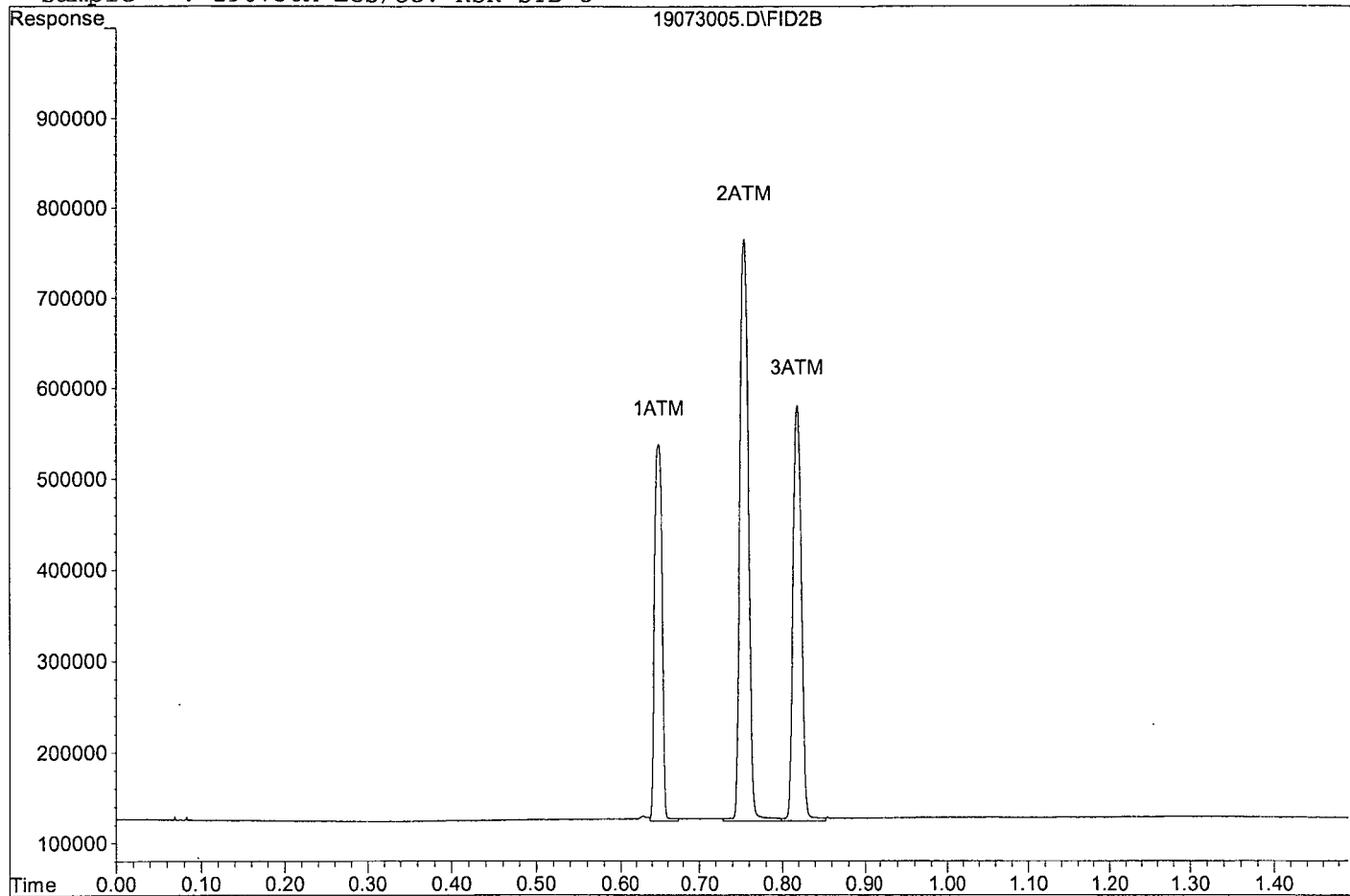
Target Compounds			
1) ATM Methane	0.65	414190	77.358 ppb
2) ATM Ethane	0.75	641748	140.454 ppb
3) ATM Ethene	0.82	457107	118.109 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19073005.D

Sample : 190730A LCS/CCV RSK STD 5



Data File : G:\ROCKY\DATA\190618RS\19073006.D Vial: 2
 Acq On : 30 Jul 19 14:56 Operator: cmm
 Sample : 190730A LCSD RSK STD 5 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 30 14:59 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jul 30 14:56:38 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

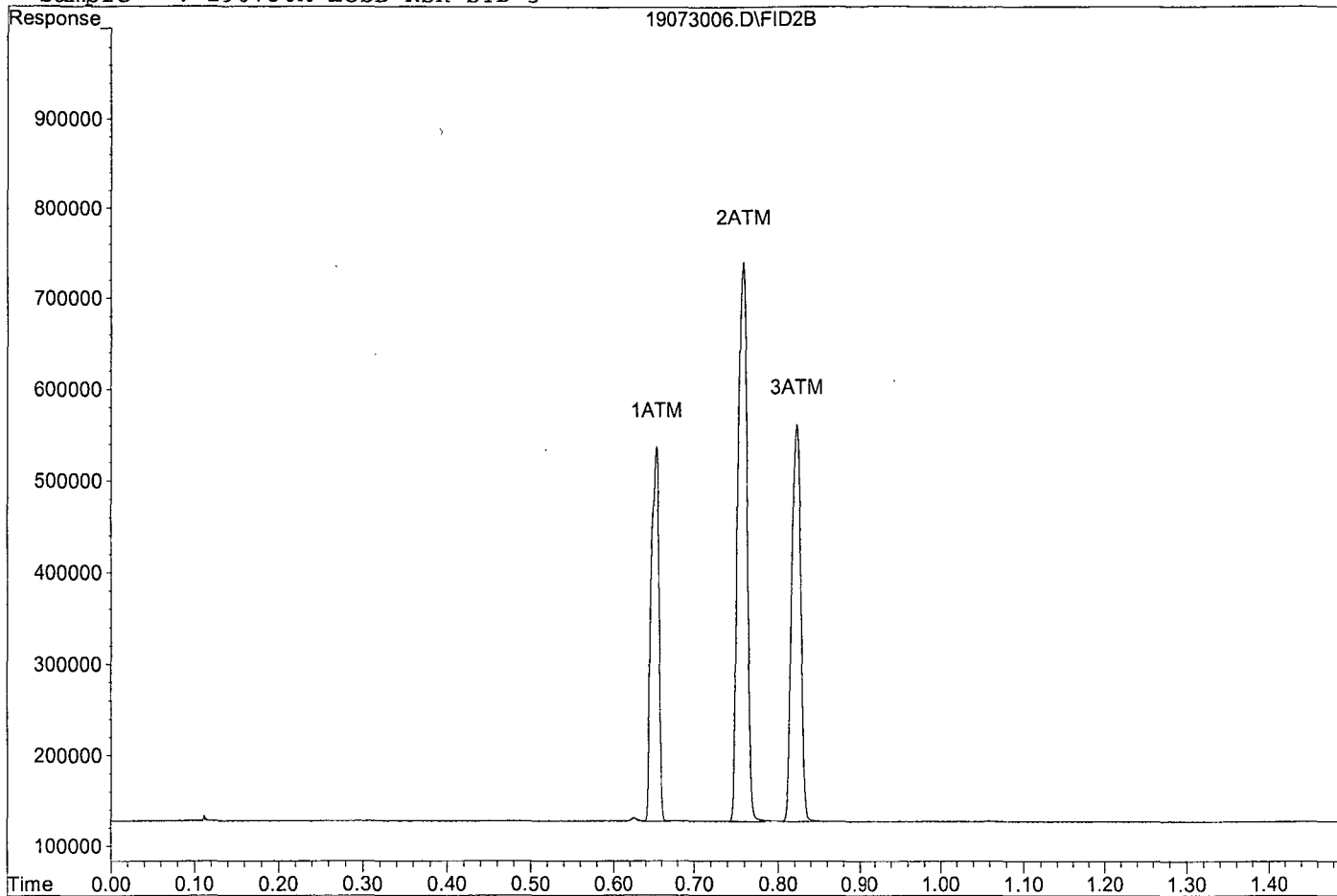
Target Compounds			
1) ATM Methane	0.65	409591	76.492 ppb
2) ATM Ethane	0.76	613680	134.062 ppb
3) ATM Ethene	0.82	435389	112.130 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19073006.D

Sample : 190730A LCSD RSK STD 5



Primary Source Stock Standard 10,000ppmV

Manufacturer Exp Date 9-21-21

RSK Gas Mix (Scott Specialty Gas) Cat.# 0104E40028*4, Lot # 160-401303031-39773

1% Gas Concentration Moles = 10,000ppmV Methane, Ethane, Ethene

RSK Calibration Curve (prepared in 1.0 L Tedlar Bags at room temp)

Expires 07/18/19

CMM 06/18/19

Analyte	Conc Std 1 (1/2 = LOD) (ug/L)	Conc Std 2 (LOQ Chk) (ug/L)	Conc Std 3 (ug/L)	Conc Std 4 (ug/L)	Conc Std 5 (ug/L)	Conc Std 6 (ug/L)	Conc Std 7 (ug/L)
Methane (MW 16.04)	2.08	4.16	8.34	20.85	83.40	208.5	834.0
Ethane (MW 30.07)	3.91	7.81	15.6	39.09	156.35	390.9	1563.5
Ethene (MW 28.05)	3.65	7.30	14.6	36.46	145.84	364.6	1458.4
Stock Source	RSK Tank Lot #170PLU5SPC0 6L-35410	RSK Tank Lot #170PLU5SPC0 6L-35410	RSK Tank Lot #170PLU5SPC0 6L-35410	RSK Tank Lot #170PLU5SPC0 6L-35410	RSK Tank Lot #170PLU5SPC06L- 35410	RSK Tank Lot #170PLU5SPC0 6L-35410	RSK Tank Lot #170PLU5SPC0 6L-35410
Stock Conc (ppmv)	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV
Stock Aliquot (mL)	0.010	0.020	0.040	0.100	0.400	1.00	4.00
Final Volume P&T Water	32 mL	32 mL	32 mL	32 mL	32 mL	32 mL	32 mL

Second Source Stock Standard 10,000ppmV

Manufacturer Exp date 9-21-2021

RSK Gas Mix (Scott Specialty Gas) Cat.# 23452, Lot # 160-401303032-1-39774

1% Gas Concentration Moles = 10,000ppmV Methane, Ethane, Ethene

Second Source

Expires 06/19/19

CMM 06/18/19

2.0mL of SS from tank into 980 mL Nitrogen

final conc: 13.3ug/L Methane, 25.0 ug/L Ethane, and 23.3 ug/L Ethene

CCV/LCS/LCSD

CMM 07/30/19

Spike 0.400mL of 10,000ppmV into 32mL DI water, with 8mL Nitrogen headspace

final conc: 83.40ug/L Methane, 156.35ug/L Ethane, and 145.84ug/L Ethene

Injection Log

Directory: G:\ROCKYDATA\190618RS\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	3	19061802.D	1	RSK Std 1 06/18/19	125 uL from Std 3	18 Jun 19 12:33
2	4	19061803.D	1	RSK Std 2 06/18/19	250 uL from Std 3	18 Jun 19 12:36
3	5	19061804.D	1	RSK Std 3 06/18/19		18 Jun 19 12:39
4	6	19061805.D	1	RSK Std 4 06/18/19		18 Jun 19 12:42
5	7	19061806.D	1	RSK Std 5 06/18/19		18 Jun 19 12:44
6	8	19061807.D	1	RSK Std 6 06/18/19		18 Jun 19 12:47
7	9	19061808.D	1	RSK Std 7 06/18/19		18 Jun 19 12:49
8	10	19061809.D	1	SS RSK Std 5 06/18/19		18 Jun 19 12:52
9	1	19073005.D	1	190730A LCS/CCV RSK STD 5		30 Jul 19 14:53
10	2	19073006.D	1	190730A LCSD RSK STD 5		30 Jul 19 14:56
11	3	19073007.D	1	190730A Blk		30 Jul 19 14:59
12	11	19073015.D	1	AZ95418W04		30 Jul 19 15:24
13	12	19073016.D	1	AZ95419W04		30 Jul 19 15:27
14	13	19073017.D	1	AZ95420W04		30 Jul 19 15:30
15	14	19073018.D	1	AZ95421W04		30 Jul 19 15:33
16	15	19073019.D	1	AZ95422W04		30 Jul 19 15:35
17	16	19073020.D	1	AZ95423W04		30 Jul 19 15:37
18	24	19073028.D	1	Ending CCV RSK Std 5 07/30/19		30 Jul 19 15:57

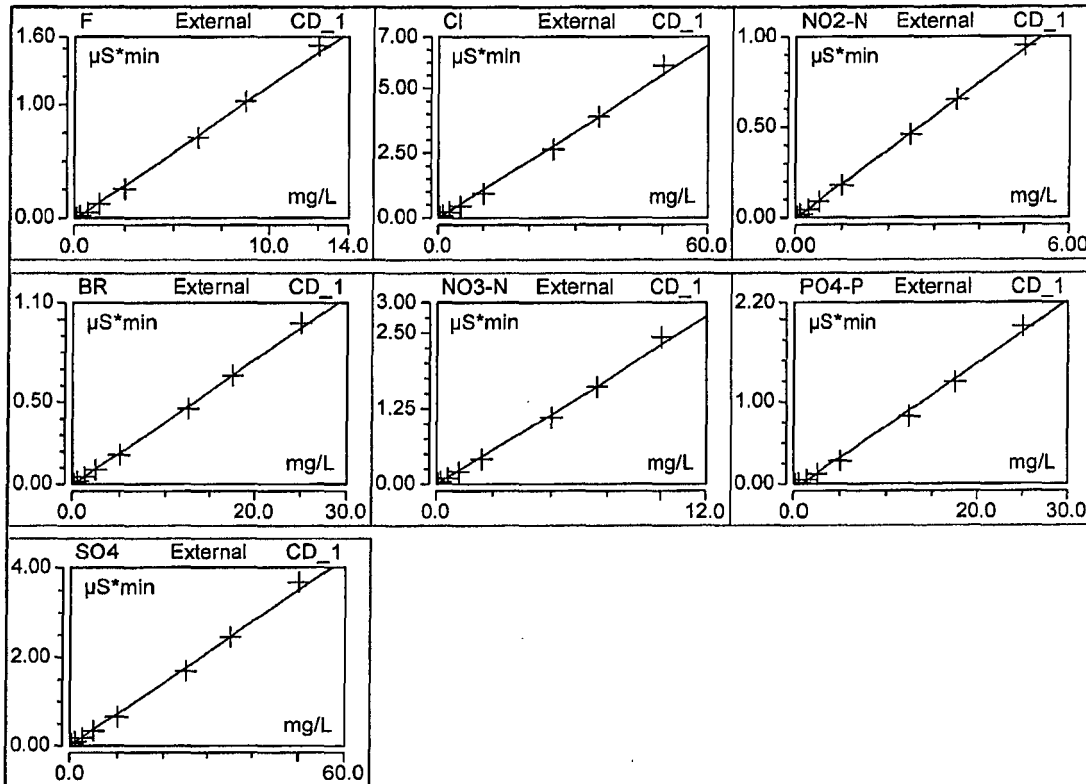
INORGANIC ANALYSIS
Calibration Data

Calibration Batch Report

Sequence:	190513	Injection Volume:	25.00
Instrument Method:	Anions IM	Operator:	chemist_wetlab
Inj. Date / Time:	13-May-2019 / 20:43	Run Time:	5

Calibration Summary							
Peak Name	Eval.Type	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff.Det. %
F	Area	Lin, WithOffset, 1/A	8.000	-0.013	0.118	0.000	99.6996
Cl	Area	Lin, WithOffset, 1/A	8.000	-0.028	0.112	0.000	99.4065
NO2-N	Area	Lin, WithOffset, 1/A	8.000	-0.001	0.187	0.000	99.9527
BR	Area	Lin, WithOffset, 1/A	8.000	-0.002	0.038	0.000	99.8939
NO3-N	Area	Lin, WithOffset, 1/A	8.000	-0.006	0.232	0.000	99.6946
PO4-P	Area	Lin, WithOffset	8.000	-0.058	0.076	0.000	99.5313
SO4	Area	Lin, WithOffset, 1/A	8.000	0.021	0.070	0.000	99.7150

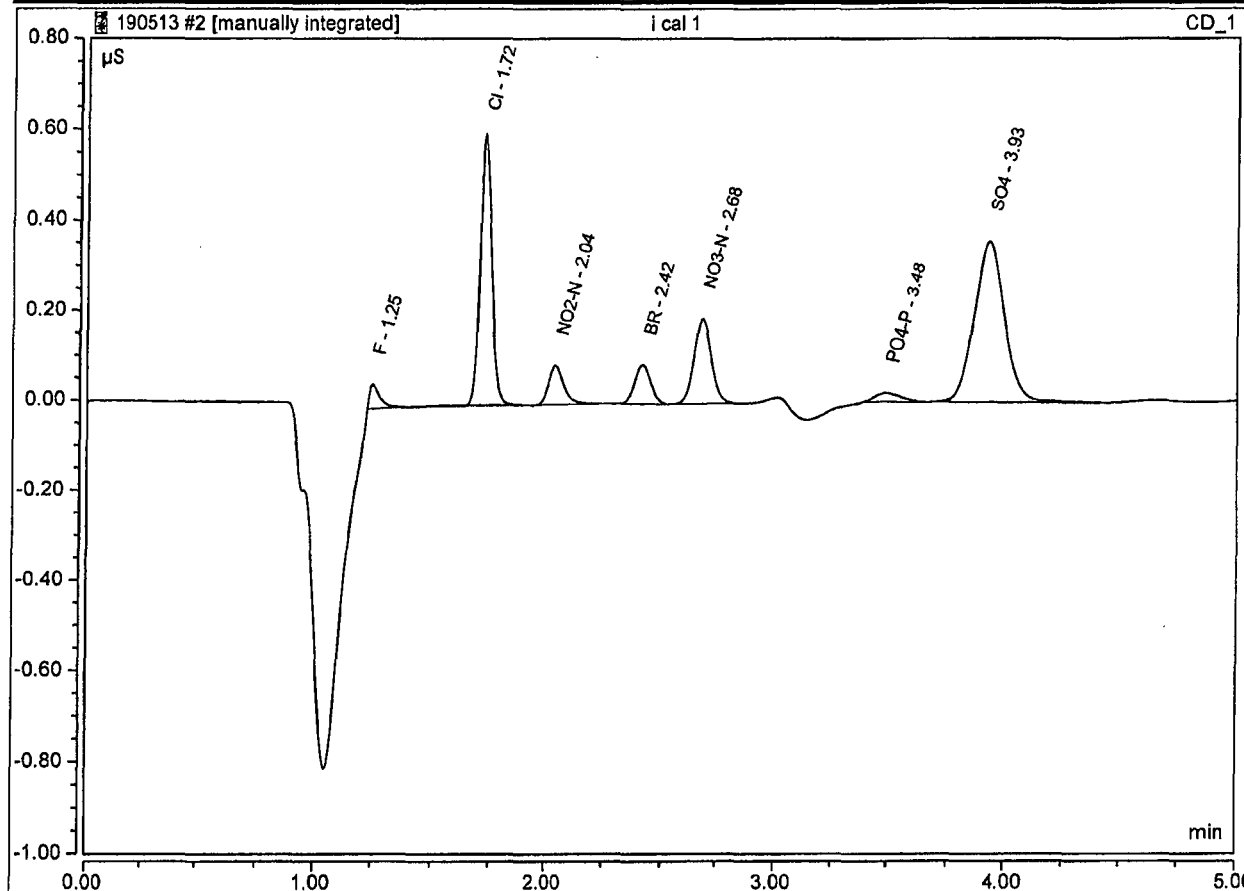
Injection Name	Amount mg/L CD_1 F	Amount mg/L CD_1 Cl	Amount mg/L CD_1 NO2-N	Amount mg/L CD_1 BR	Amount mg/L CD_1 NO3-N	Amount mg/L CD_1 PO4-P	Amount mg/L CD_1 SO4
i cal 1	0.130	0.5668	0.0440	0.2277	0.1013	0.7973	0.4849
i cal 2	0.260	0.9982	0.0997	0.5053	0.1999	0.9374	1.0610
i cal 3	0.511	2.1399	0.2424	1.1903	0.4582	1.4284	2.2511
i cal 4	1.139	4.1839	0.4844	2.3708	0.9006	2.3610	4.5187
i cal 5	2.269	8.6164	0.9624	4.7370	1.8142	4.4303	9.1308
i cal 6	6.093	23.9700	2.4568	12.1650	4.8005	11.5523	24.0452
i cal 7	8.820	35.3568	3.4975	17.4751	6.9992	17.0465	34.9509
i cal 8	13.003	53.0680	5.1028	25.7788	10.5060	25.8967	52.4575



Peak Integration Report

Sample Name:	I cal 1	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.00
Program:	Anlon APM 190513A	Operator:	Chemist_wetlab
Inj. Date / Time:	13-May-2019 / 19:51	Run Time:	5.00

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.25	F	BMB*	0.003	0.054	0.13	0.1	129.9%
2	1.72	Cl	BMB	0.036	0.599	0.57	0.4	141.7%
3	2.04	NO2-N	BMB	0.007	0.087	0.04	0.04	109.9%
4	2.42	BR	BMB	0.007	0.087	0.23	0.2	113.9%
5	2.68	NO3-N	BMB	0.017	0.189	0.10	0.08	126.6%
6	3.48	PO4-P	BMB*	0.003	0.020	0.80	0.2	398.7%
7	3.93	SO4	BMB	0.054	0.357	0.48	0.4	121.2%



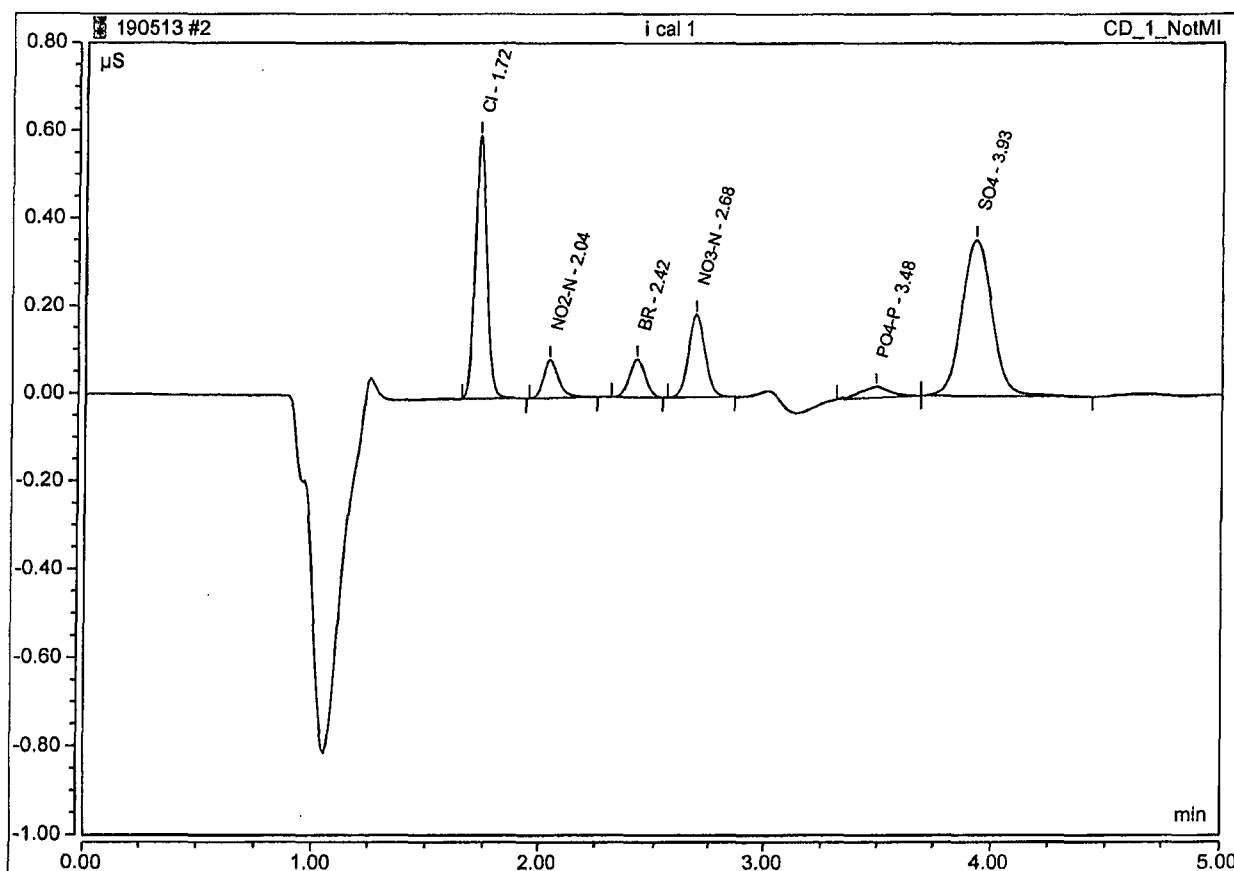
Fmi1,PO4 mi1 HH 190514

PM 5/15/19

Not Manipulated Peak Integration Report

Sample Name:	I cal 1	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Program:	Anion APM 190513A	Operator:	Chemist_wetlab
Inj. Date / Time:	13-May-2019 / 19:51	Run Time:	5.00

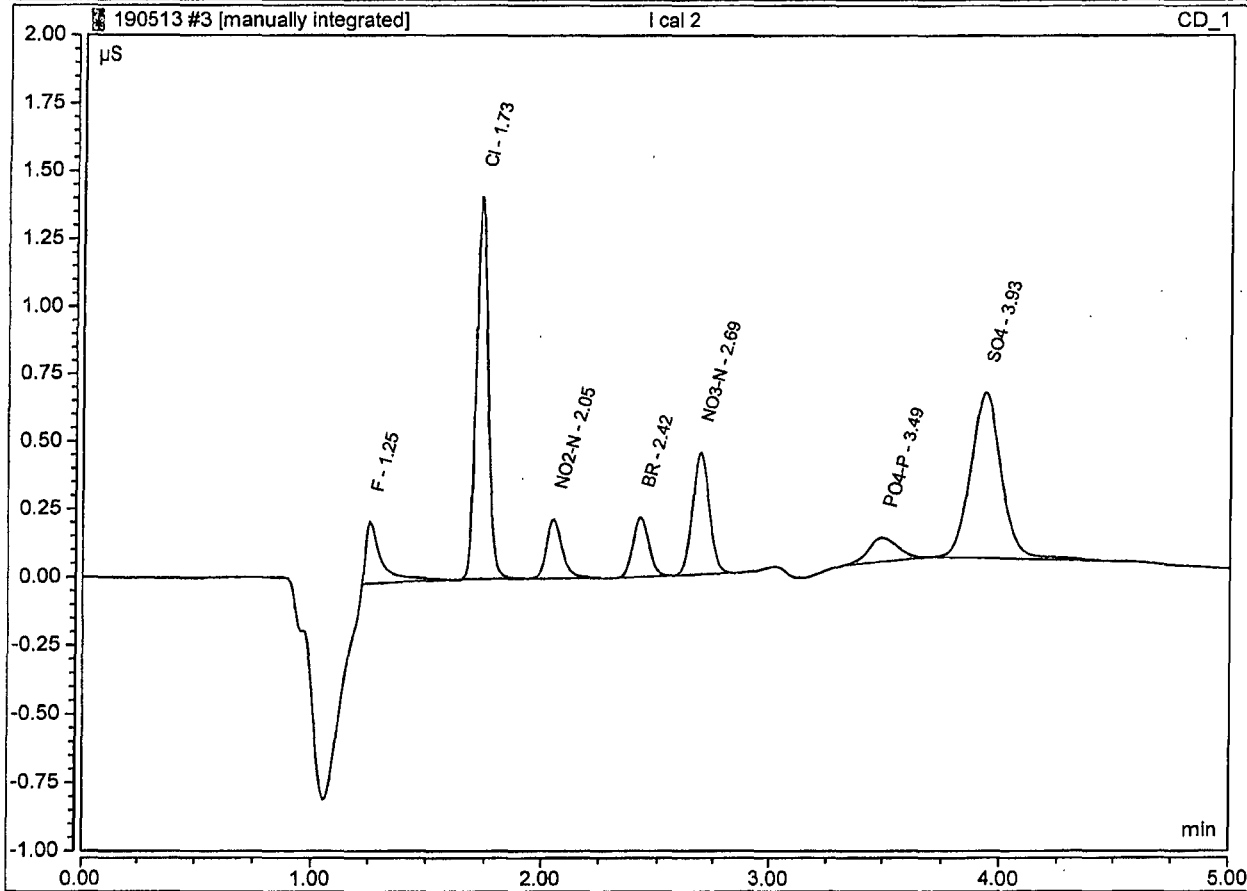
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount mg/L
1	n.a.	F	BMB*	n.a.	n.a.	n.a.
2	1.72	Cl	BMB	0.036	0.599	0.5668
3	2.04	NO ₂ -N	BMB	0.007	0.087	0.0440
4	2.42	BR	BMB	0.007	0.087	0.2277
5	2.68	NO ₃ -N	BMB	0.017	0.189	0.1013
6	3.48	PO ₄ -P	BMB*	0.004	0.025	0.8093
7	3.93	SO ₄	BMB	0.054	0.357	0.4849



Peak Integration Report

Sample Name:		I cal 2		Inj. Vol.:		25uL			
Injection Type:		Calibration Standard		Dilution Factor:		1.00			
Program:		Anion APM 190513A		Operator:		Chemist_wetlab			
Inj. Date / Time:		13-May-2019 / 19:58		Run Time:		5.00			

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.25	F	BMB*	0.018	0.229	0.26	0.25	104.1%
2	1.73	Cl	BMB	0.084	1.410	1.00	1	99.8%
3	2.05	NO2-N	BMB	0.017	0.218	0.10	0.1	99.7%
4	2.42	BR	BMB	0.017	0.219	0.51	0.5	101.1%
5	2.69	NO3-N	BMB	0.040	0.450	0.20	0.2	99.9%
6	3.49	PO4-P	BMB	0.013	0.088	0.94	0.5	187.5%
7	3.93	SO4	BMB	0.094	0.611	1.06	1	106.1%



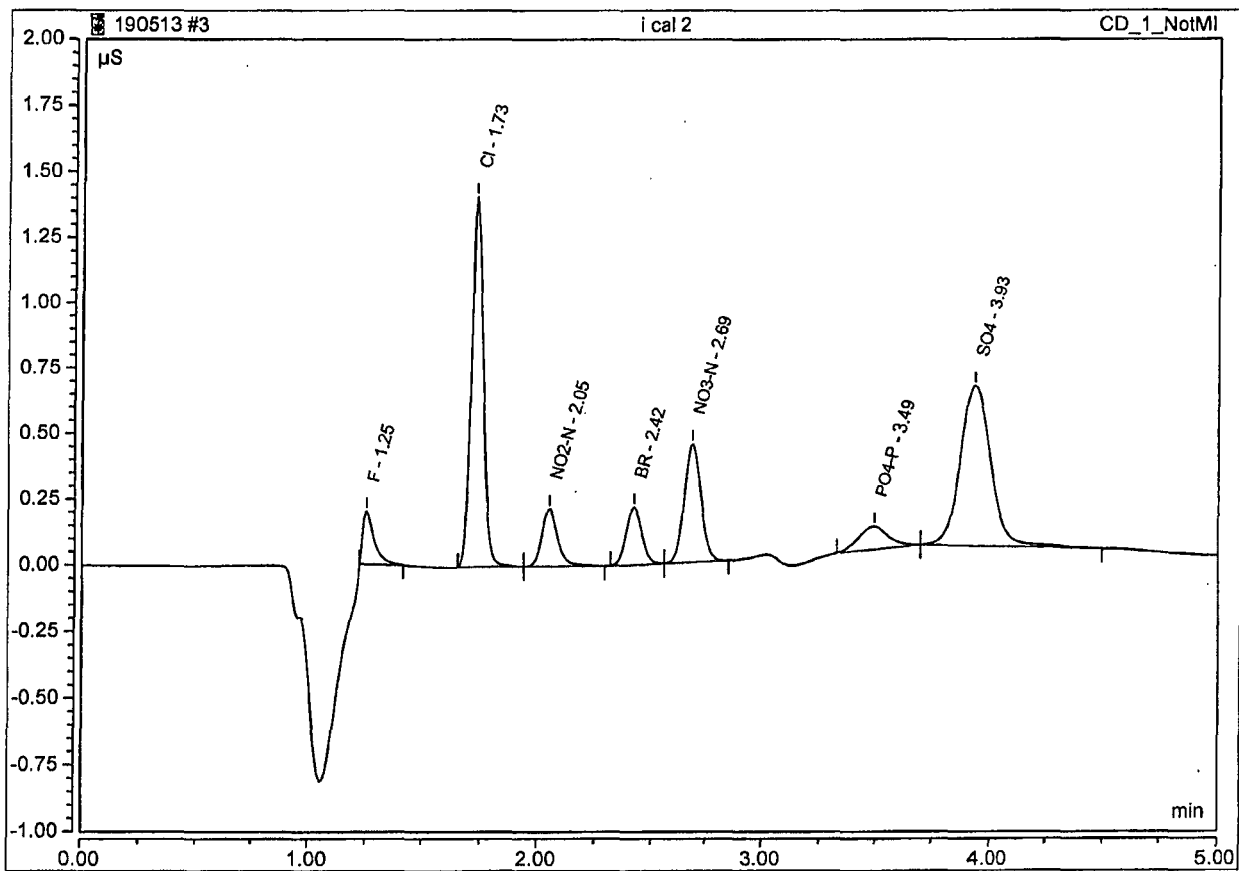
Fmi1, HH 190514

Print 10/19

Not Manipulated Peak Integration Report

Sample Name:	I cal 2	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Program:	Anion APM 190513A	Operator:	Chemist_wetlab
Inj. Date / Time:	13-May-2019 / 19:58	Run Time:	5.00

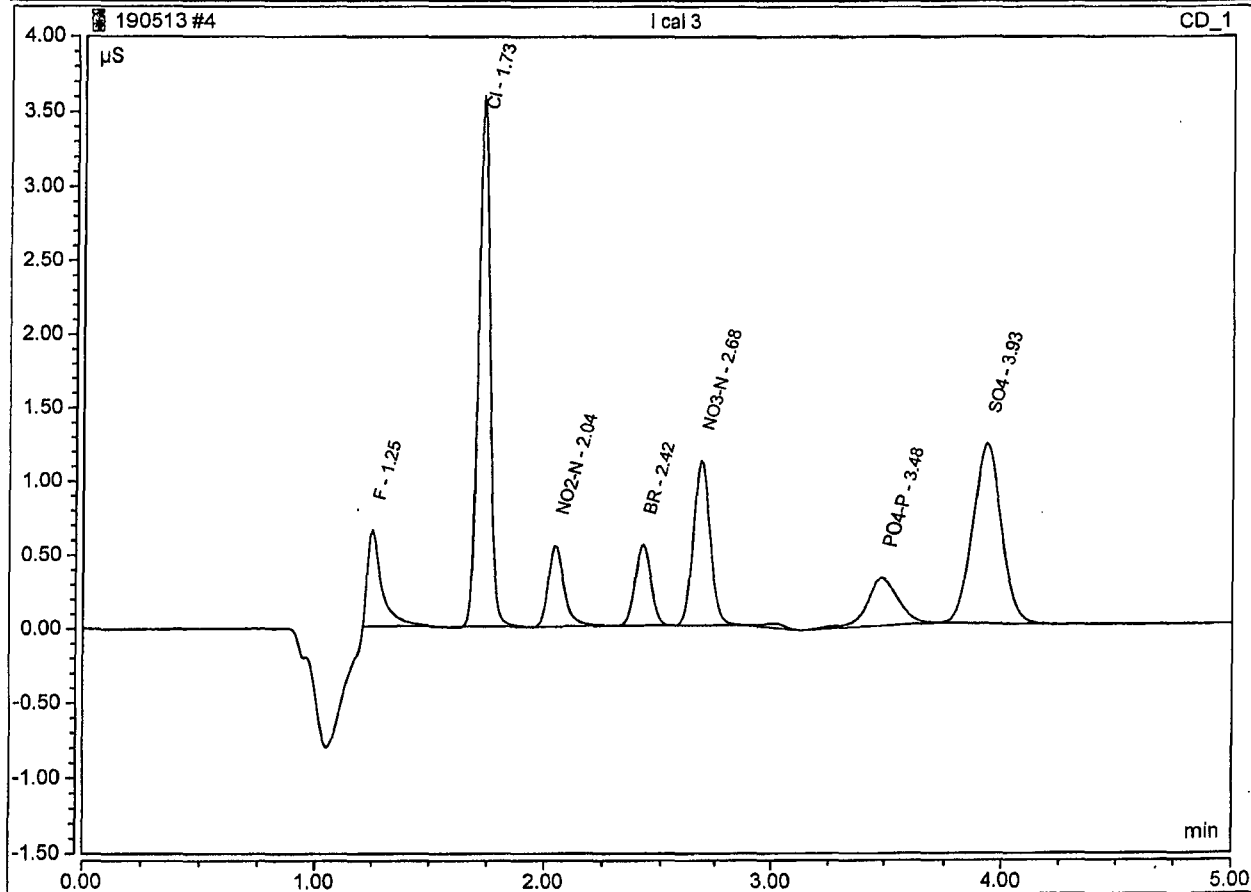
No.	Time min	Peak Name	Peak Type	Area μS*min	Height μS	Amount mg/L
1	1.25	F	BMB*	0.012	0.200	0.3034
2	1.73	Cl	BMB	0.084	1.410	0.9982
3	2.05	NO2-N	BMB	0.017	0.218	0.0997
4	2.42	BR	BMB	0.017	0.219	0.5053
5	2.69	NO3-N	BMB	0.040	0.450	0.1999
6	3.49	PO4-P	BMB	0.013	0.088	0.9340
7	3.93	SO4	BMB	0.094	0.611	1.0610



Peak Integration Report

Sample Name:		i cal 3			Inj. Vol.:		25uL	
Injection Type:		Calibration Standard			Dilution Factor:		1.00	
Program:		Anion APM 190513A			Operator:		chemist_wetlab	
Inj. Date / Time:		13-May-2019 / 20:06			Run Time:		5.00	

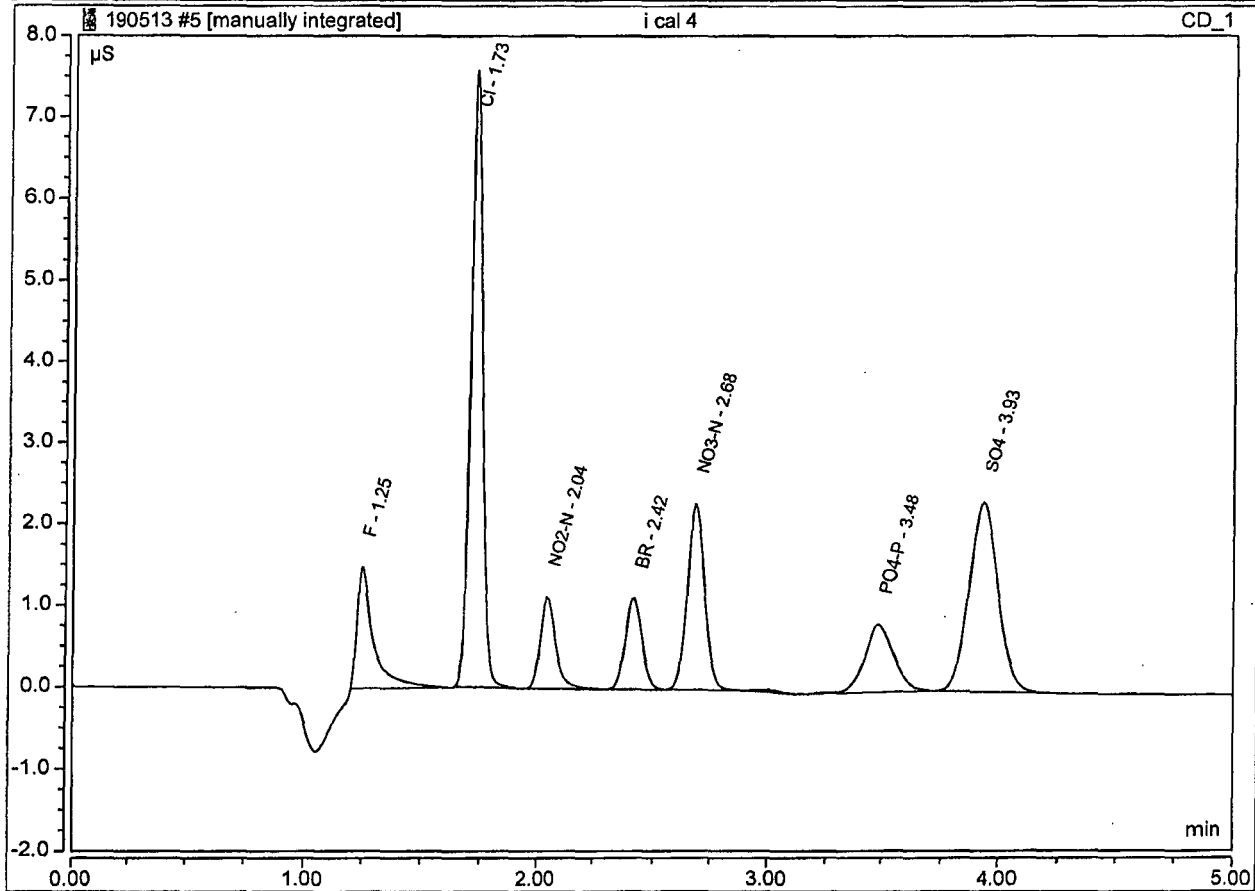
No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.25	F	BMB	0.048	0.654	0.51	0.625	81.8%
2	1.73	Cl	BMB	0.211	3.584	2.14	2.5	85.6%
3	2.04	NO2-N	BMB	0.044	0.550	0.24	0.25	97.0%
4	2.42	BR	BMB	0.043	0.548	1.19	1.25	95.2%
5	2.68	NO3-N	BMB	0.100	1.115	0.46	0.5	91.6%
7	3.48	PO4-P	BMB	0.051	0.324	1.43	1.25	114.3%
8	3.93	SO4	BMB	0.177	1.216	2.25	2.5	90.0%



Peak Integration Report

Sample Name:	i cal 4	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.00
Program:	Anlon APM 190513A	Operator:	Chemist_wetlab
Inj. Date / Time:	13-May-2019 / 20:13	Run Time:	5.00

No.	Time (min)	Peak Name	Peak Type	Area (µS*min)	Height (µS)	Amount	Spike Level	Recovery
	min			µS*min	µS	mg/L	mg/L	
1	1.25	F	BMB*	0.122	1.490	1.14	1.25	91.1%
2	1.73	Cl	BMB	0.439	7.575	4.18	5	83.7%
3	2.04	NO2-N	BMB	0.089	1.121	0.48	0.5	96.9%
4	2.42	BR	BMB	0.088	1.118	2.37	2.5	94.8%
5	2.68	NO3-N	BMB	0.202	2.280	0.90	1	90.1%
7	3.48	PO4-P	BMB	0.122	0.827	2.36	2.5	94.4%
8	3.93	SO4	BMB	0.335	2.320	4.52	5	90.4%



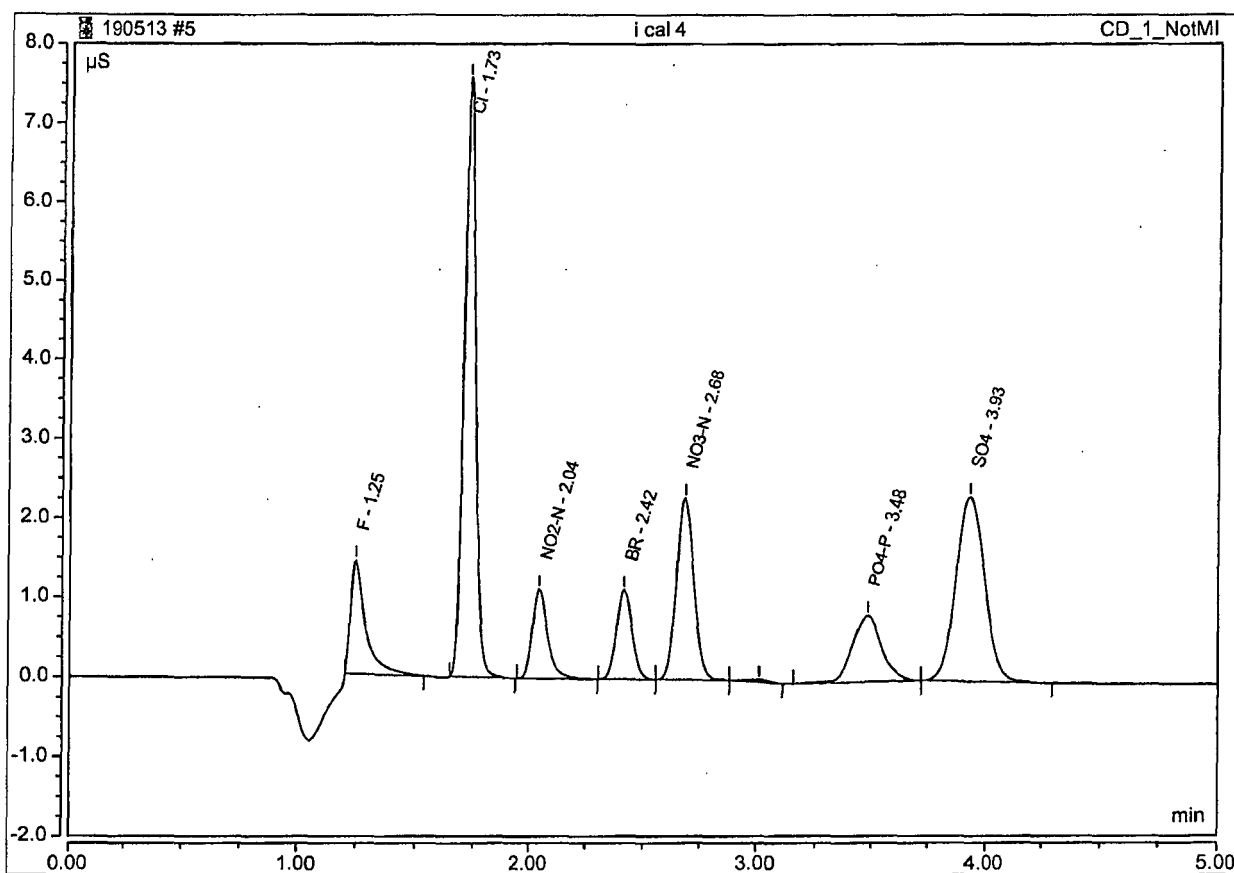
Fmi1, HH 190514

Push 15/19

Not Manipulated Peak Integration Report

Sample Name:	I cal 4	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Program:	Anion APM 190513A	Operator:	Chemist_wetlab
Inj. Date / Time:	13-May-2019 / 20:13	Run Time:	5.00

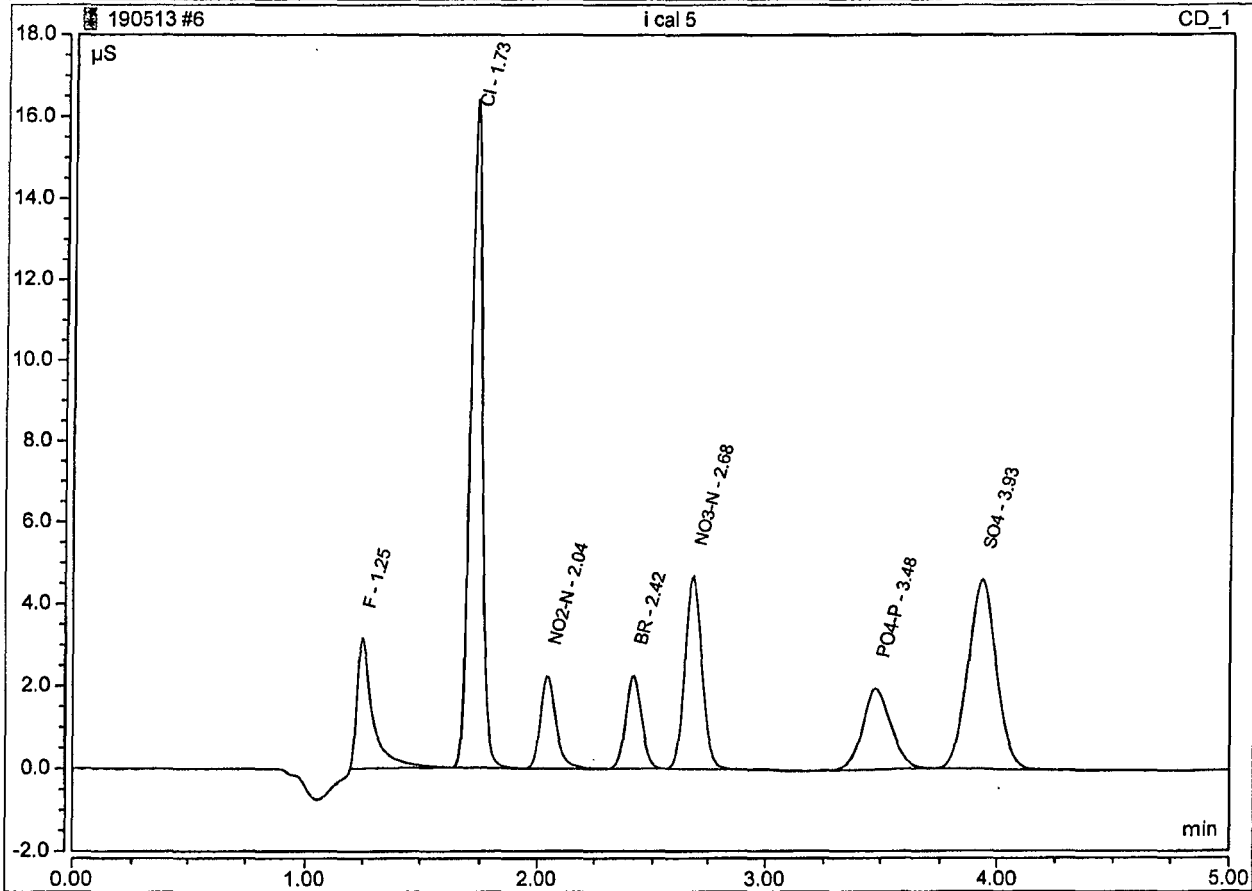
No.	Time min	Peak Name	Peak Type	Area uS*min	Height uS	Amount mg/L
1	1.25	F	BMB*	0.107	1.430	1.0948
2	1.73	Cl	BMB	0.439	7.575	4.1839
3	2.04	NO2-N	BMB	0.089	1.121	0.4844
4	2.42	BR	BMB	0.088	1.118	2.3708
5	2.68	NO3-N	BMB	0.202	2.280	0.9006
7	3.48	PO4-P	BMB	0.122	0.827	2.3580
8	3.93	SO4	BMB	0.335	2.320	4.5187



Peak Integration Report

Sample Name:		I cal 5		Inj. Vol.:		25uL	
Injection Type:		Calibration Standard		Dilution Factor:		1.00	
Program:		Anion APM 190513A		Operator:		chemlst_wetlab	
Inj. Date / Time:		13-May-2019 / 20:21		Run Time:		5.00	

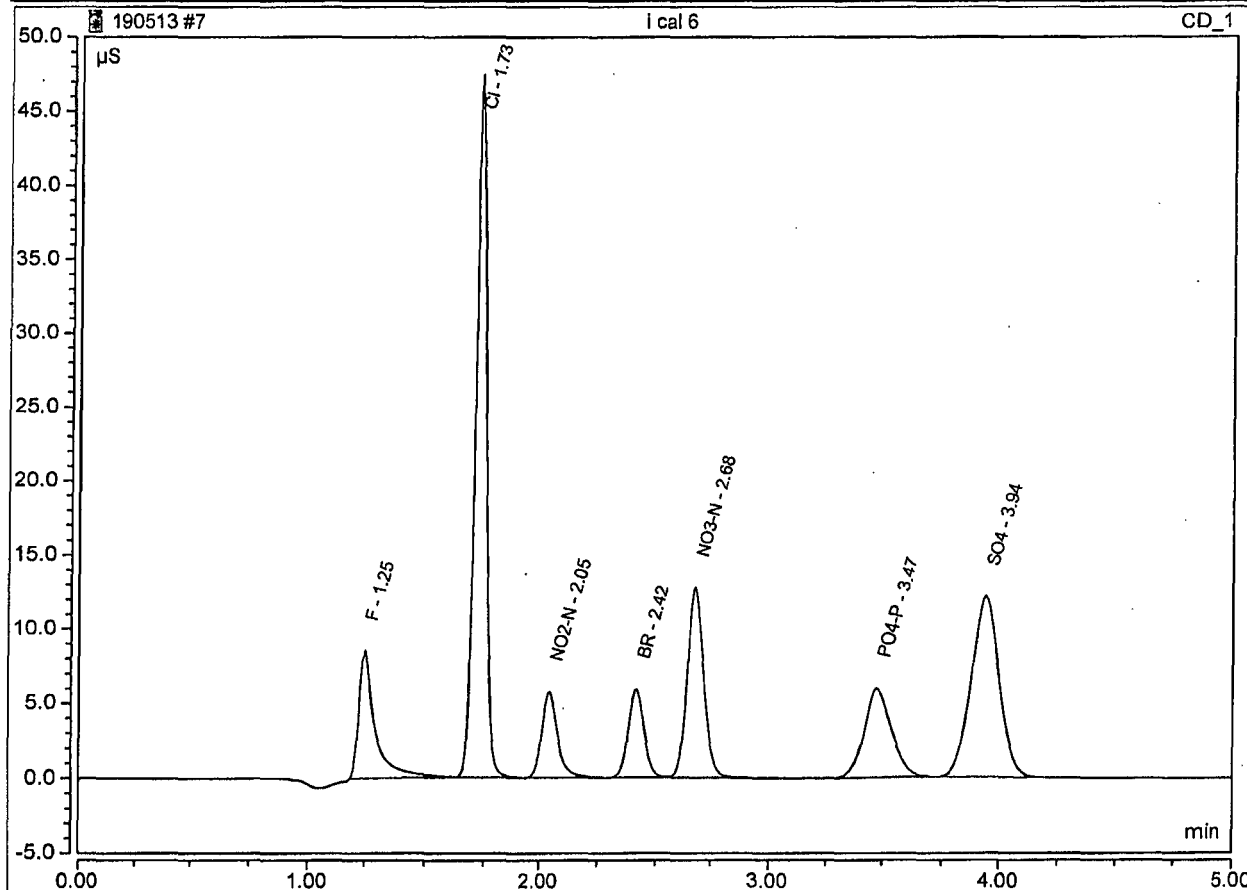
No.	Time (min)	Peak Name	Peak Type	Area (µS*min)	Height (µS)	Amount	Spike Level	Recovery
	min			µS*min	µS	mg/L	mg/L	
1	1.25	F	BMB	0.255	3.157	2.27	2.5	90.8%
2	1.73	Cl	BMB	0.934	16.403	8.62	10	86.2%
3	2.04	NO2-N	BMB	0.178	2.254	0.96	1	96.2%
4	2.42	BR	BMB	0.178	2.265	4.74	5	94.7%
5	2.68	NO3-N	BMB	0.414	4.695	1.81	2	90.7%
6	3.48	PO4-P	BMB	0.279	1.960	4.43	5	88.6%
7	3.93	SO4	BMB	0.657	4.601	9.13	10	91.3%



Peak Integration Report

Sample Name:	I cal 6	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.00
Program:	Anion APM 190513A	Operator:	chemist_wetlab
Inj. Date / Time:	13-May-2019 / 20:28	Run Time:	5.00

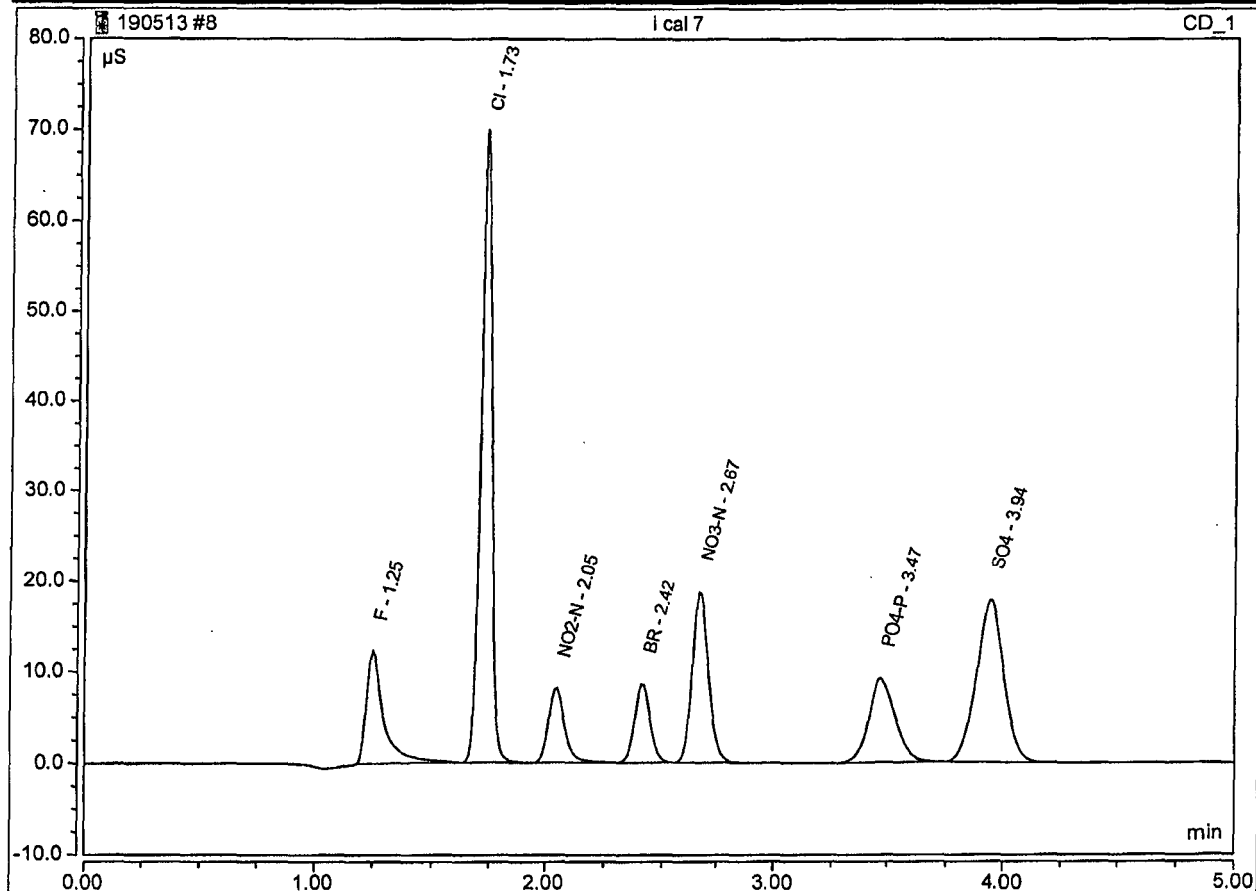
No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.25	F	BMB	0.706	8.545	6.09	6.25	97.5%
2	1.73	Cl	BMB	2.648	47.360	23.97	25	95.9%
3	2.05	NO2-N	BMB	0.457	5.751	2.46	2.5	98.3%
4	2.42	BR	BMB	0.460	5.938	12.17	12.5	97.3%
5	2.68	NO3-N	BMB	1.105	12.755	4.80	5	96.0%
6	3.47	PO4-P	BMB	0.821	5.990	11.55	12.5	92.4%
7	3.94	SO4	BMB	1.696	12.142	24.05	25	96.2%



Peak Integration Report

Sample Name:		I cal 7			Inj. Vol.:		25uL	
Injection Type:		Calibration Standard			Dilution Factor:		1.00	
Program:		Anion APM 190513A			Operator:		chemist_wetlab	
Inj. Date / Time:		13-May-2019 / 20:35			Run Time:		5.00	

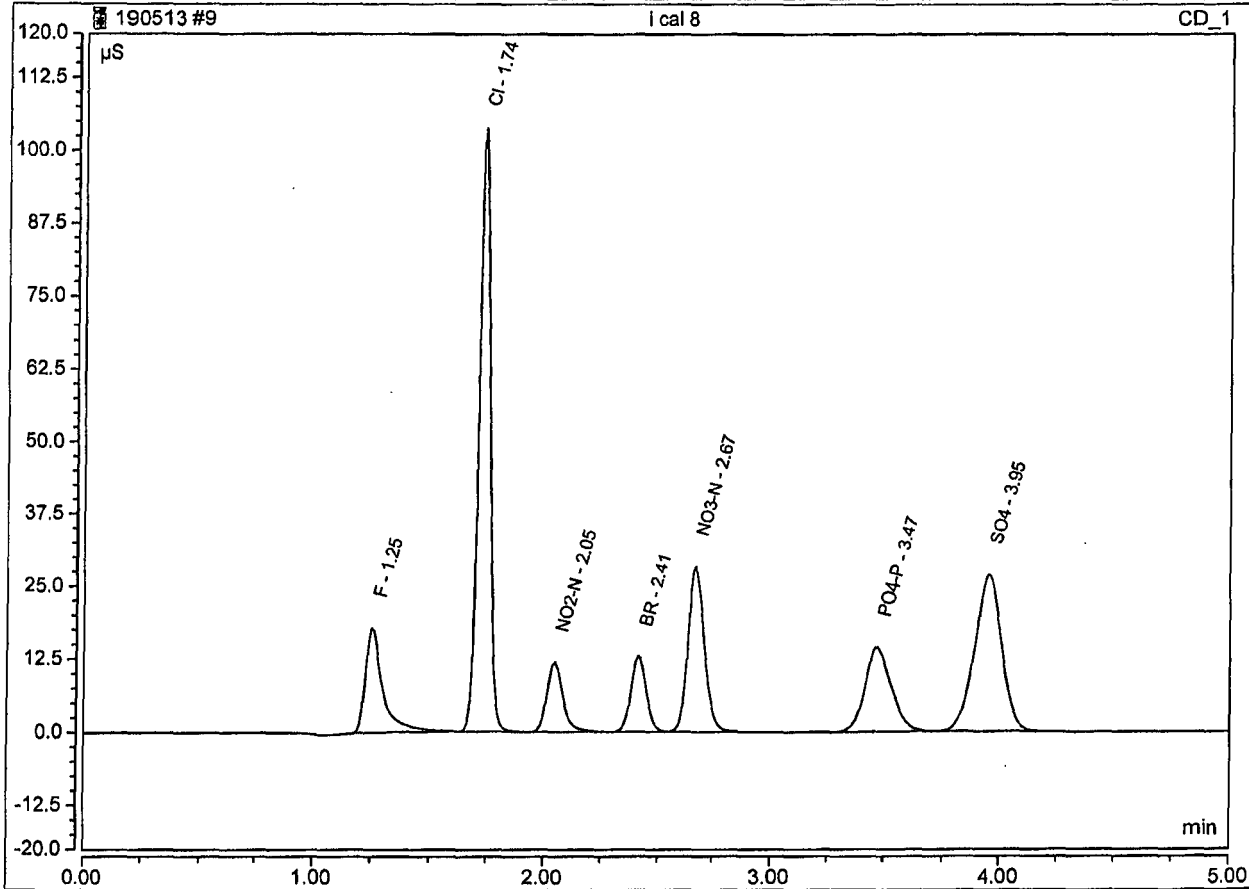
No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.25	F	BMB	1.027	12.312	8.82	8.75	100.8%
2	1.73	Cl	BMB	3.919	69.805	35.36	35	101.0%
3	2.05	NO ₂ -N	BMB	0.652	8.165	3.50	3.5	99.9%
4	2.42	BR	BMB	0.661	8.607	17.48	17.5	99.9%
5	2.67	NO ₃ -N	BMB	1.615	18.756	7.00	7	100.0%
6	3.47	PO ₄ -P	BMB	1.240	9.181	17.05	17.5	97.4%
7	3.94	SO ₄	BMB	2.456	17.753	34.95	35	99.9%



Peak Integration Report

Sample Name:		I cal 8			Inj. Vol.:		25uL	
Injection Type:		Calibration Standard			Dilution Factor:		1.00	
Program:		Anlon APM 190513A			Operator:		chemist_wetlab	
Inj. Date / Time:		13-May-2019 / 20:43			Run Time:		5.00	

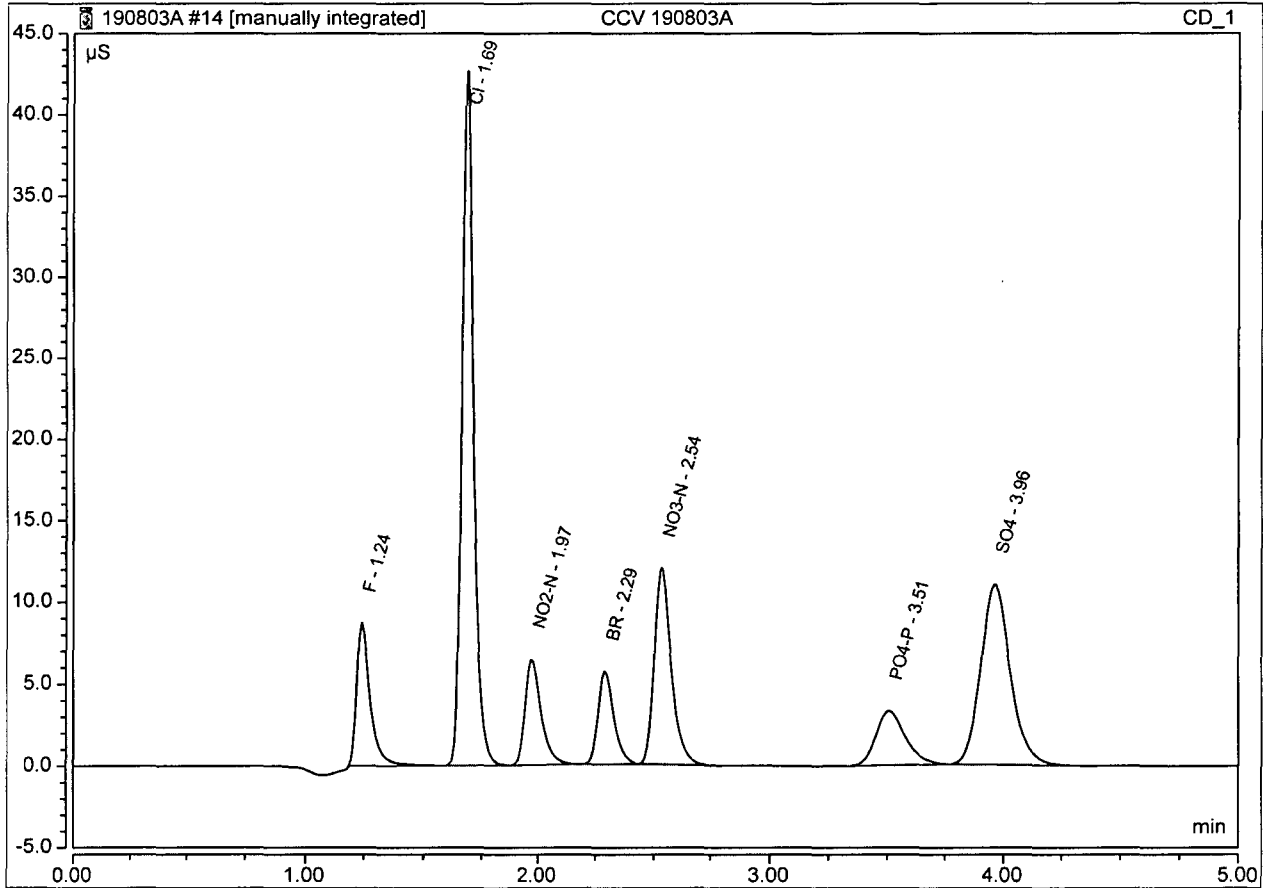
No.	Time (min)	Peak Name	Peak Type	Area (µS*min)	Height (µS)	Amount	Spike Level	Recovery
	min			µS*min	µS	mg/L	mg/L	
1	1.25	F	BMB	1.521	17.957	13.00	12.5	104.0%
2	1.74	Cl	BMB	5.895	103.711	53.07	50	106.1%
3	2.05	NO2-N	BMB	0.951	11.819	5.10	5	102.1%
4	2.41	BR	BMB	0.976	12.858	25.78	25	103.1%
5	2.67	NO3-N	BMB	2.427	28.267	10.51	10	105.1%
6	3.47	PO4-P	BMB	1.913	14.413	25.90	25	103.6%
7	3.95	SO4	BMB	3.676	26.789	52.46	50	104.9%



Peak Integration Report

Sample Name:		CCV 190803A			Inj. Vol.:		25uL	
Injection Type:		Check Standard			Dilution Factor:		1.00	
Program:		Anion APM 190725			Operator:		chemist_wetlab	
Inj. Date / Time:		03-Aug-2019 / 09:29			Run Time:		5.00	

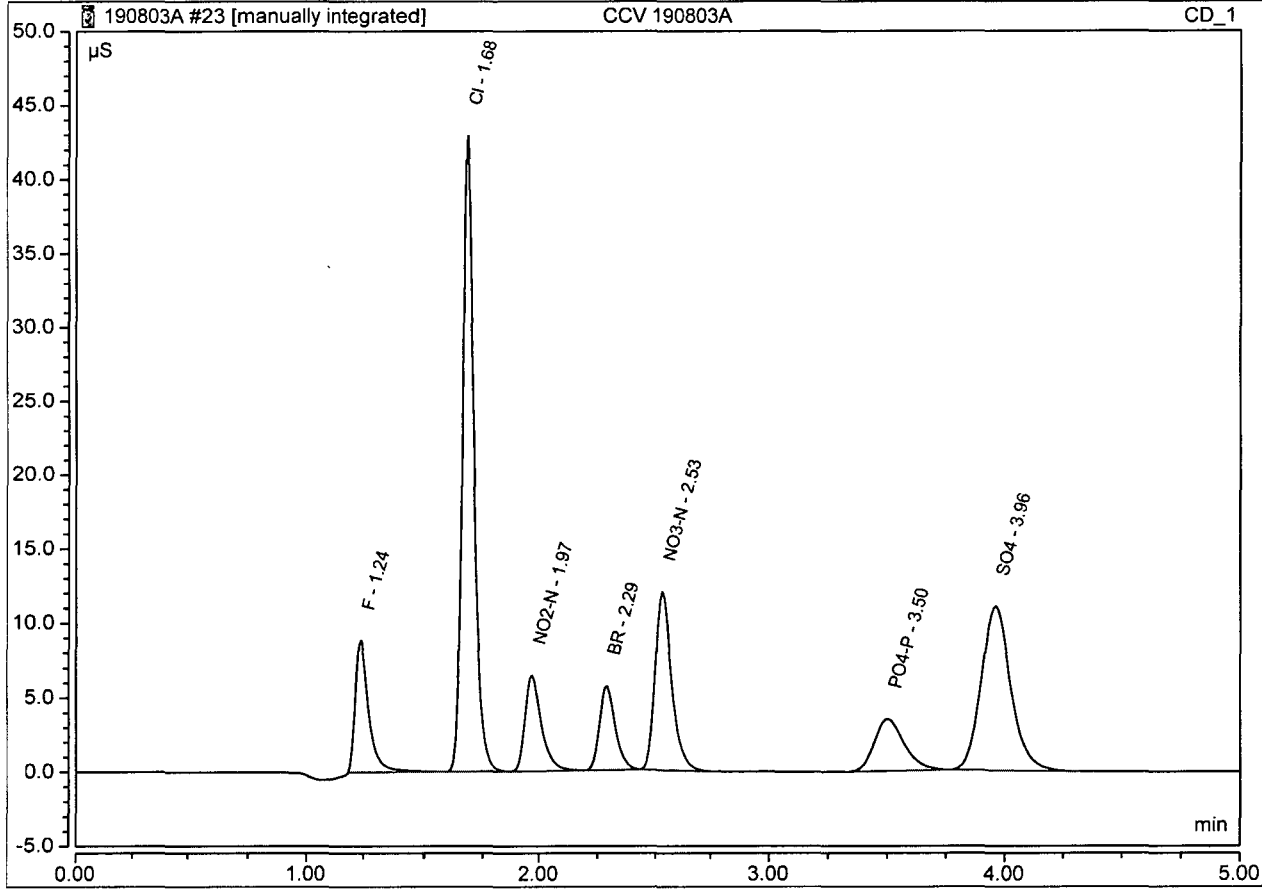
No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.24	F	BMB*	0.581	8.730	4.97	5	99.4%
2	1.69	Cl	BMB	2.483	42.677	23.46	25	93.8%
3	1.97	NO2-N	BMB	0.534	6.458	3.03	3.04	99.5%
4	2.29	BR	BMB	0.441	5.689	12.10	12.5	96.8%
5	2.54	NO3-N	BMB	1.038	11.995	4.73	5	94.6%
6	3.51	PO4-P	BMB	0.487	3.318	9.88	10	98.8%
7	3.96	SO4	BMB	1.617	11.030	23.72	25	94.9%



Peak Integration Report

Sample Name:		CCV 190803A			Inj. Vol.:		25uL		
Injection Type:		Check Standard			Dilution Factor:		1.00		
Program:		Anlon APM 190725			Operator:		chemlst_wetlab		
Inj. Date / Time:		03-Aug-2019 / 10:55			Run Time:		5.00		

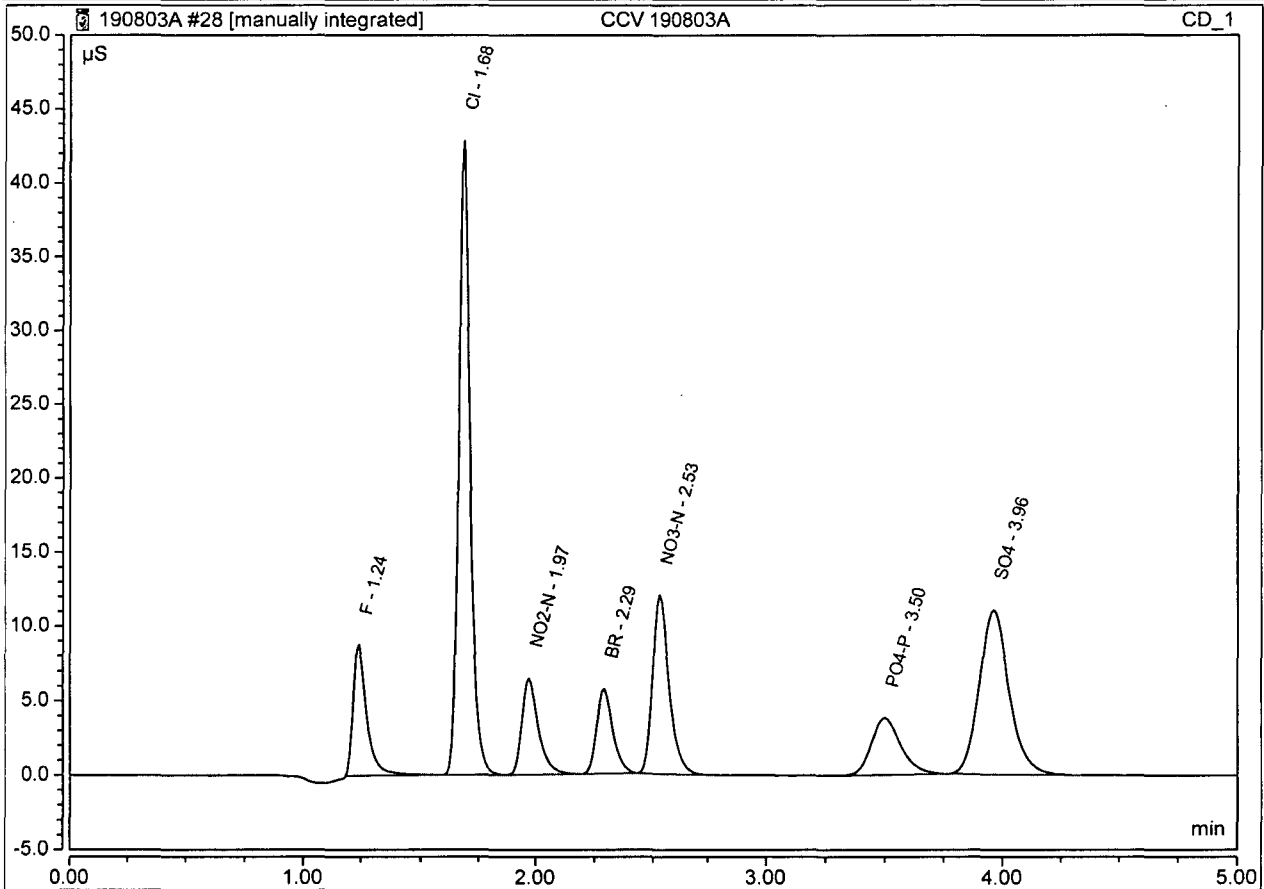
No.	Time (min)	Peak Name	Peak Type	Area (µS*min)	Height (µS)	Amount	Spike Level	Recovery
	min			µS*min	µS	mg/L	mg/L	
1	1.24	F	BMB*	0.586	8.877	5.01	5	100.2%
2	1.68	Cl	BMB	2.494	42.952	23.55	25	94.2%
3	1.97	NO2-N	BMB	0.535	6.473	3.03	3.04	99.7%
4	2.29	BR	BMB	0.441	5.703	12.10	12.5	96.8%
5	2.53	NO3-N	BMB	1.039	12.024	4.74	5	94.8%
6	3.50	PO4-P	BMB	0.511	3.505	10.34	10	103.4%
7	3.96	SO4	BMB	1.620	11.046	23.77	25	95.1%



Peak Integration Report

Sample Name:		CCV 190803A			Inj. Vol.:		25uL	
Injection Type:		Check Standard			Dilution Factor:		1.00	
Program:		Anion APM 190725			Operator:		chemist_wetlab	
Inj. Date / Time:		03-Aug-2019 / 11:36			Run Time:		5.00	

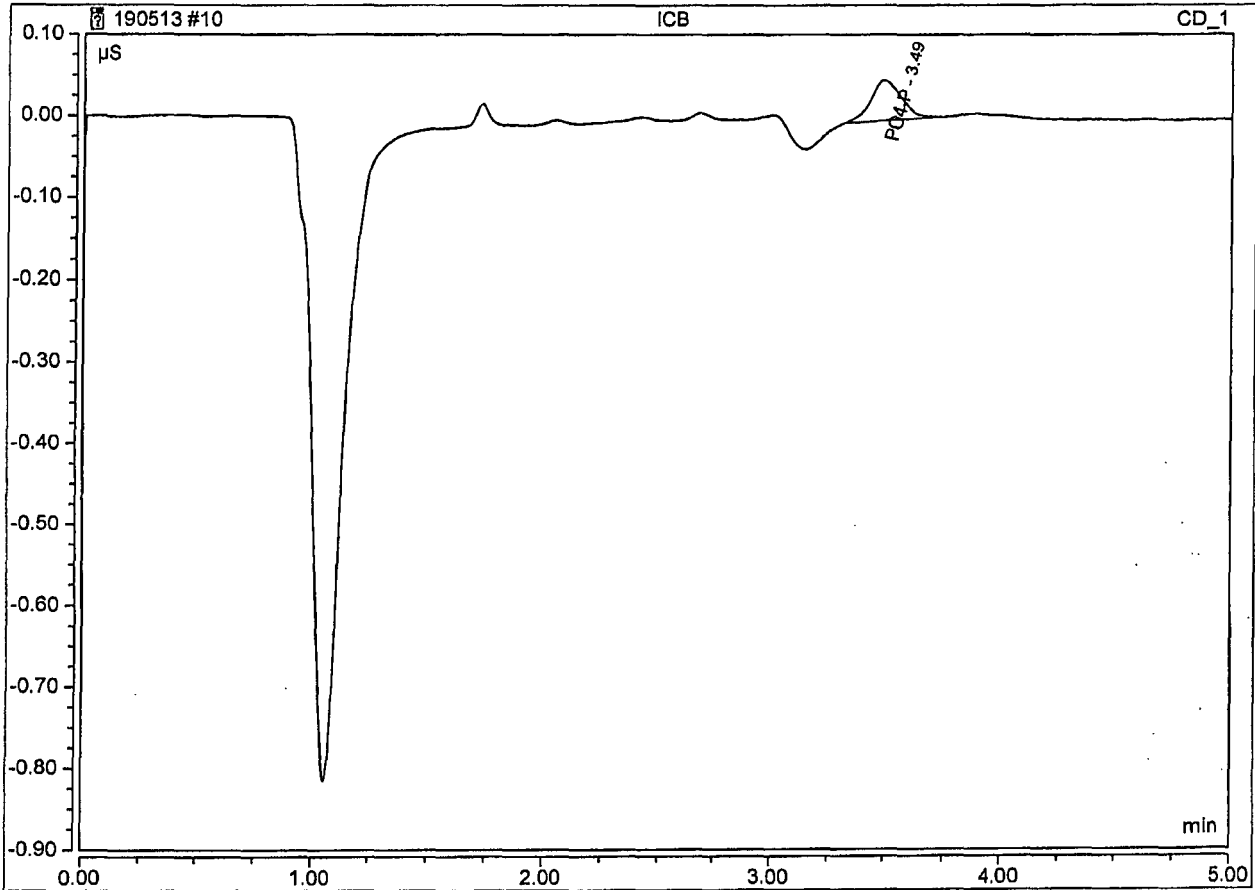
No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.24	F	BMB*	0.584	8.790	4.99	5	99.9%
2	1.68	Cl	BMB	2.487	42.854	23.49	25	94.0%
3	1.97	NO2-N	BMB	0.536	6.480	3.04	3.04	99.8%
4	2.29	BR	BMB	0.442	5.707	12.12	12.5	96.9%
5	2.53	NO3-N	BMB	1.040	12.041	4.74	5	94.8%
6	3.50	PO4-P	BMB	0.549	3.815	11.02	10	110.2%
7	3.96	SO4	BMB	1.622	11.052	23.80	25	95.2%



Peak Integration Report

Sample Name:	ICB	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 190513A	Operator:	chemist_wetlab
Inj. Date / Time:	13-May-2019 / 20:50	Run Time:	5.00

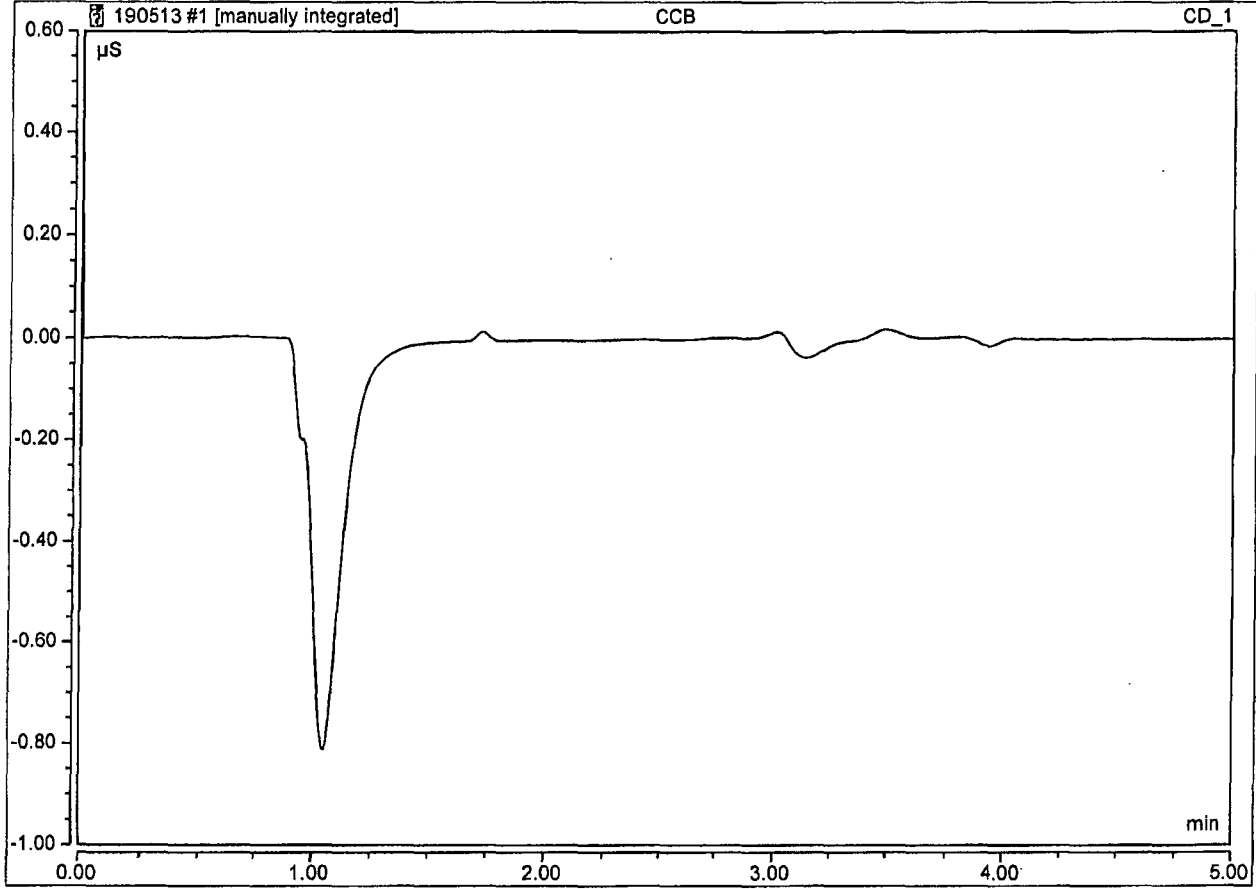
No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	3.49	PO4-P	BMB	0.008	0.049	0.86		



Peak Integration Report

Sample Name:	CCB	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anlon APM 190513A	Operator:	Chemist_wetlab
Inj. Date / Time:	13-May-2019 / 19:44	Run Time:	5.00

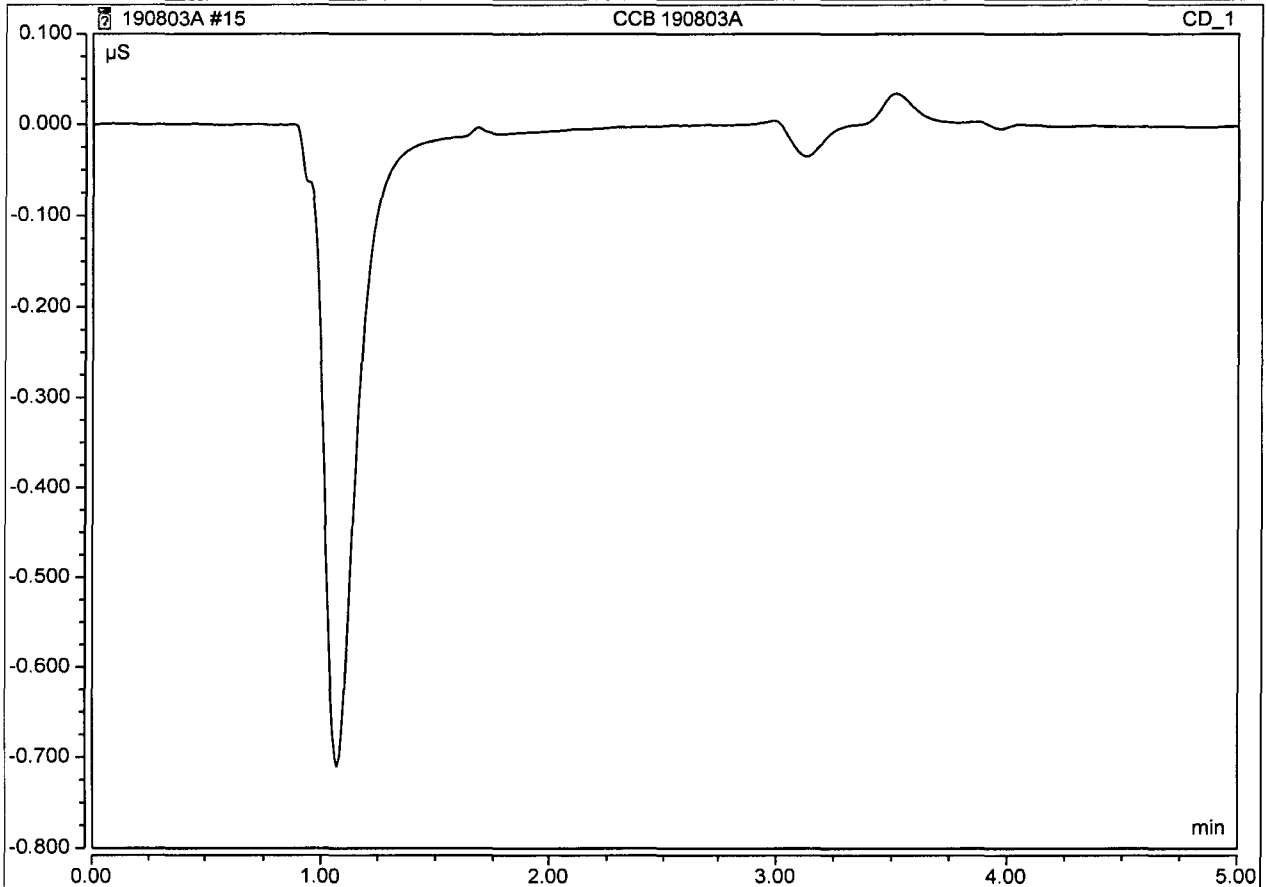
No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	



Peak Integration Report

Sample Name:	CCB 190803A	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 190725	Operator:	chemist_wetlab
Inj. Date / Time:	03-Aug-2019 / 09:52	Run Time:	5.00

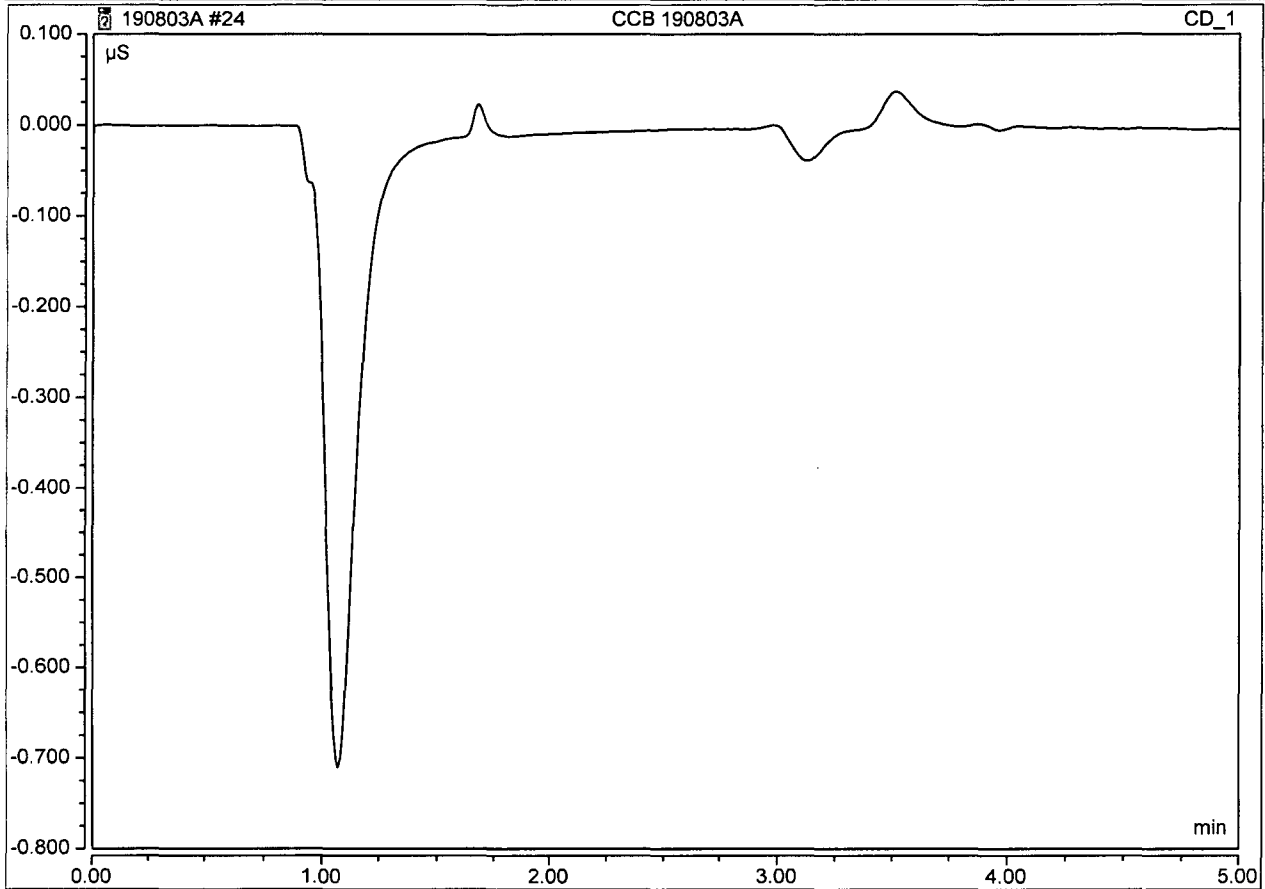
No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	



Peak Integration Report

Sample Name:	CCB 190803A	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 190725	Operator:	chemist_wetlab
Inj. Date / Time:	03-Aug-2019 / 11:02	Run Time:	5.00

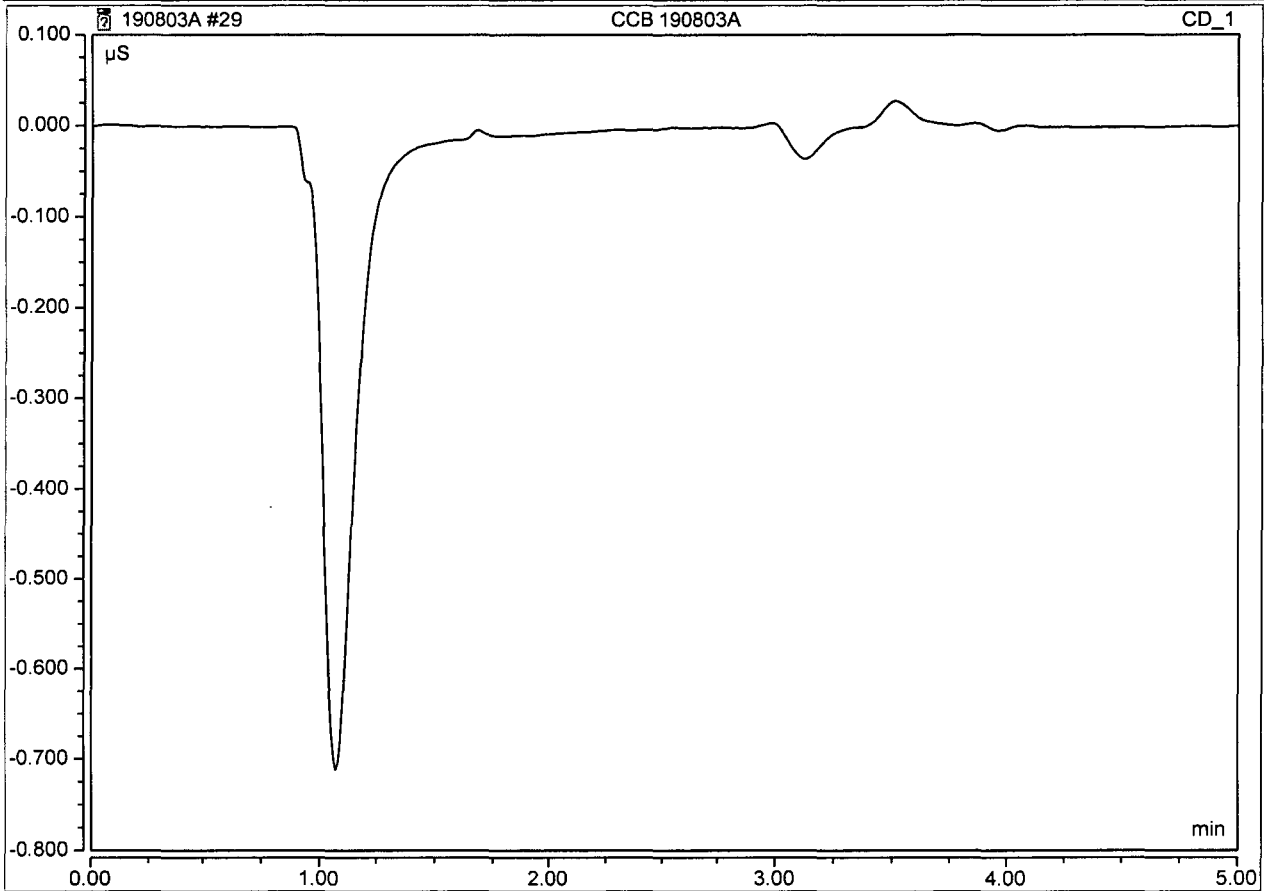
No.	Time (min) min	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$) $\mu\text{S}\cdot\text{min}$	Height (μS) μS	Amount mg/L	Spike Level mg/L	Recovery
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Peak Integration Report

Sample Name:	CCB 190803A	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 190725	Operator:	chemist_wetlab
Inj. Date / Time:	03-Aug-2019 / 11:44	Run Time:	5.00

No.	Time (min) min	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$) $\mu\text{S}\cdot\text{min}$	Height (μS) μS	Amount mg/L	Spike Level mg/L	Recovery
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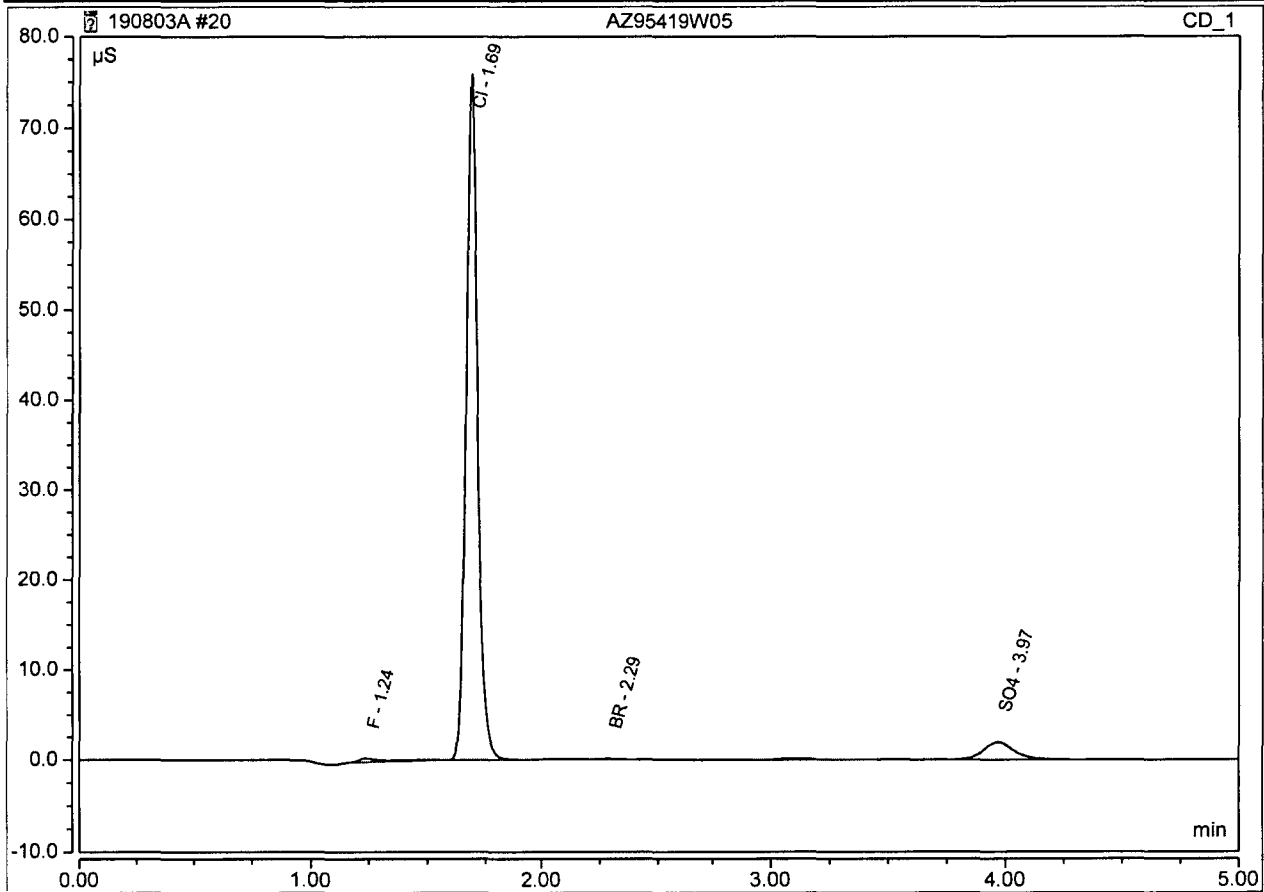


INORGANIC ANALYSIS
Raw Data

Peak Integration Report

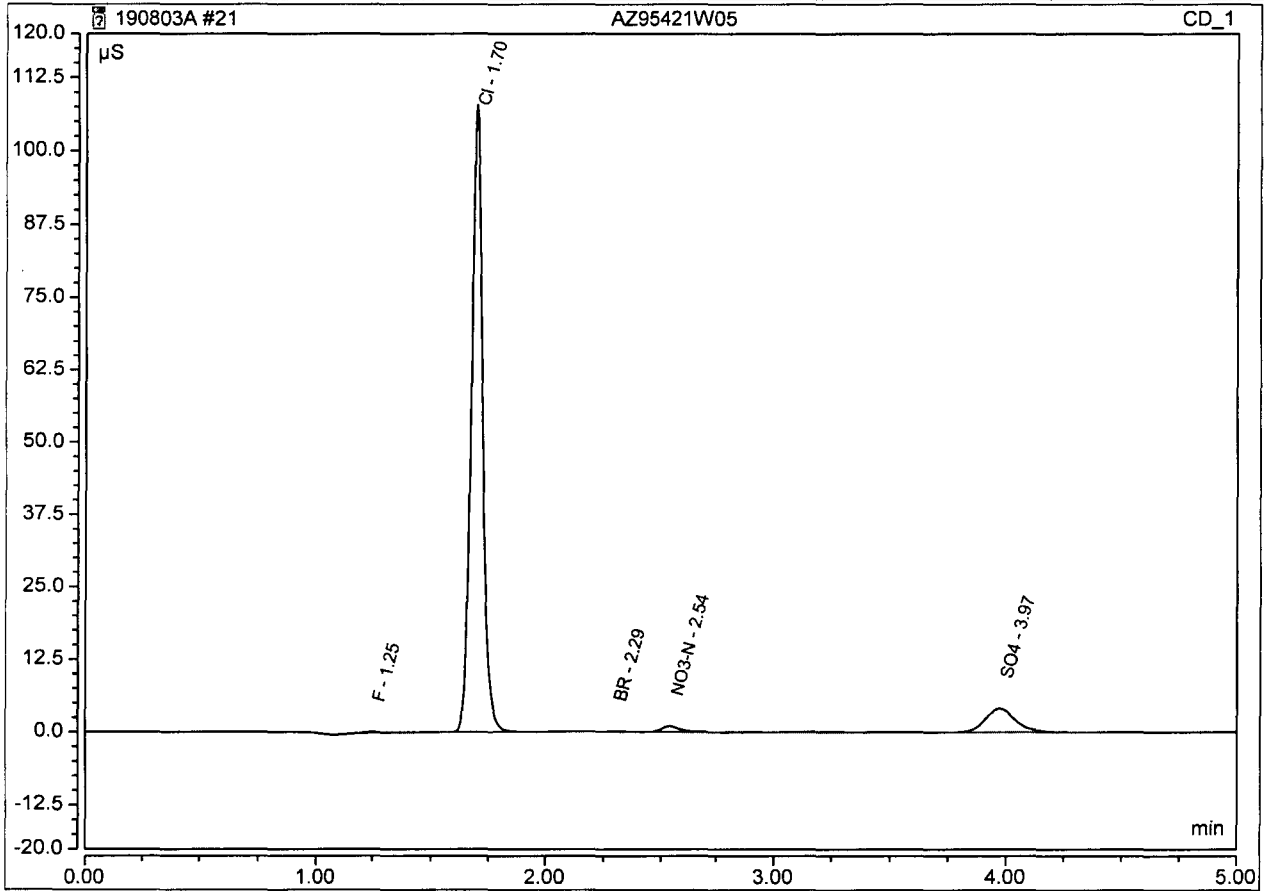
Sample Name:		AZ95419W05			Inj. Vol.:		25uL	
Injection Type:		Unknown			Dilution Factor:		1.00	
Program:		Anion APM 190725			Operator:		chemist_wetlab	
Inj. Date / Time:		03-Aug-2019 / 10:32			Run Time:		5.00	

No.	Time (min) min	Peak Name	Peak Type	Area (μS*min) μS*min	Height (μS) μS	Amount mg/L	Spike Level mg/L	Recovery
1	1.24	F	BMB	0.046	0.405	0.56		
2	1.69	Cl	BMB	4.416	75.887	40.82		
3	2.29	BR	BMB	0.005	0.060	0.40		
5	3.97	SO4	BMB	0.292	1.936	4.53		



Peak Integration Report

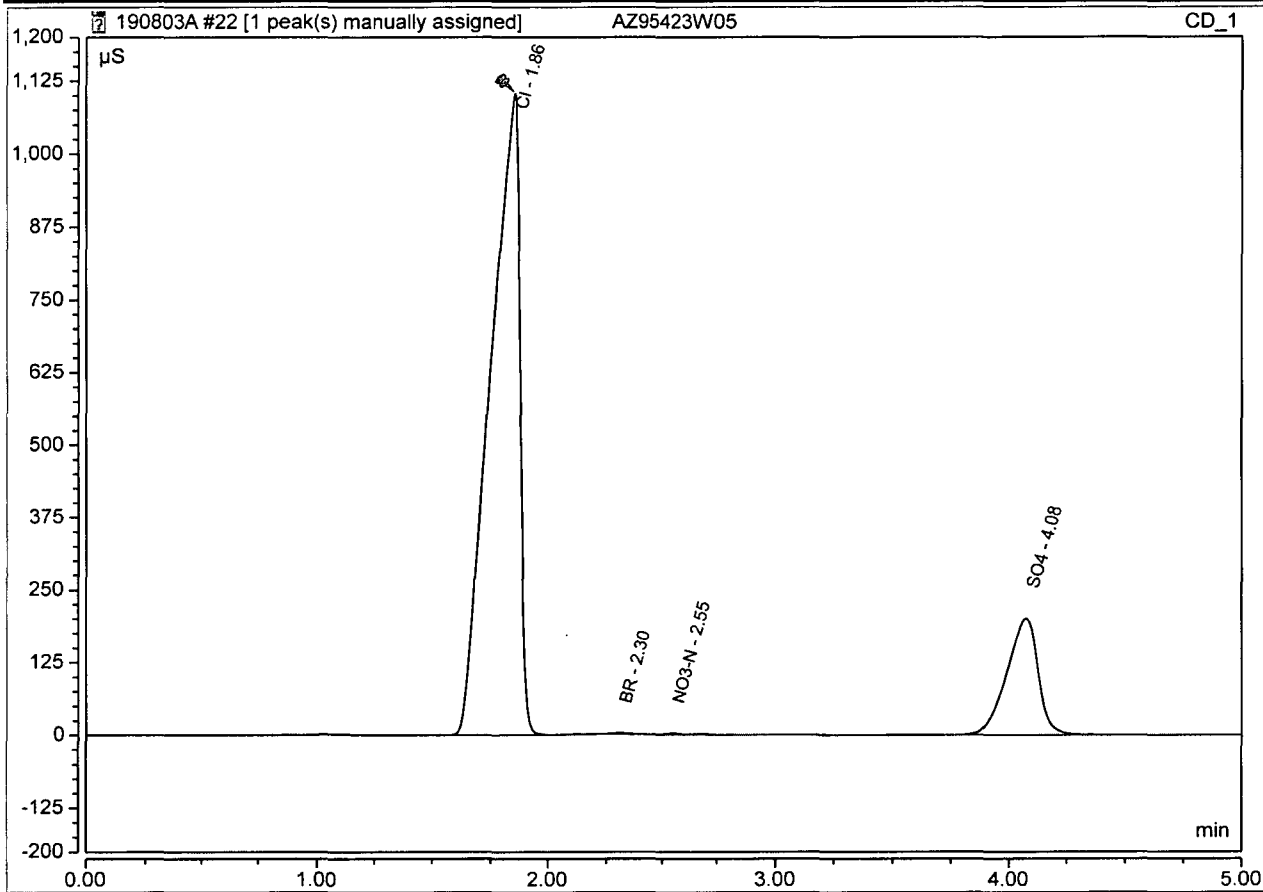
Sample Name:		AZ95421W05			Inj. Vol.:		25uL	
Injection Type:		Unknown			Dilution Factor:		1.00	
Program:		Anion APM 190725			Operator:		chemist_wetlab	
Inj. Date / Time:		03-Aug-2019 / 10:40			Run Time:		5.00	
No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.25	F	BMB	0.027	0.171	0.40		
2	1.70	Cl	BMB	6.284	107.925	57.60		
4	2.29	BR	BMB	0.006	0.075	0.43		
5	2.54	NO3-N	BMB	0.092	1.009	0.57		
7	3.97	SO4	BMB	0.605	4.047	9.07		



Peak Integration Report

Sample Name:		AZ95423W05		Inj. Vol.:		25uL	
Injection Type:		Unknown		Dilution Factor:		1.00	
Program:		Anion APM 190725		Operator:		chemist_wetlab	
Inj. Date / Time:		03-Aug-2019 / 10:47		Run Time:		5.00	

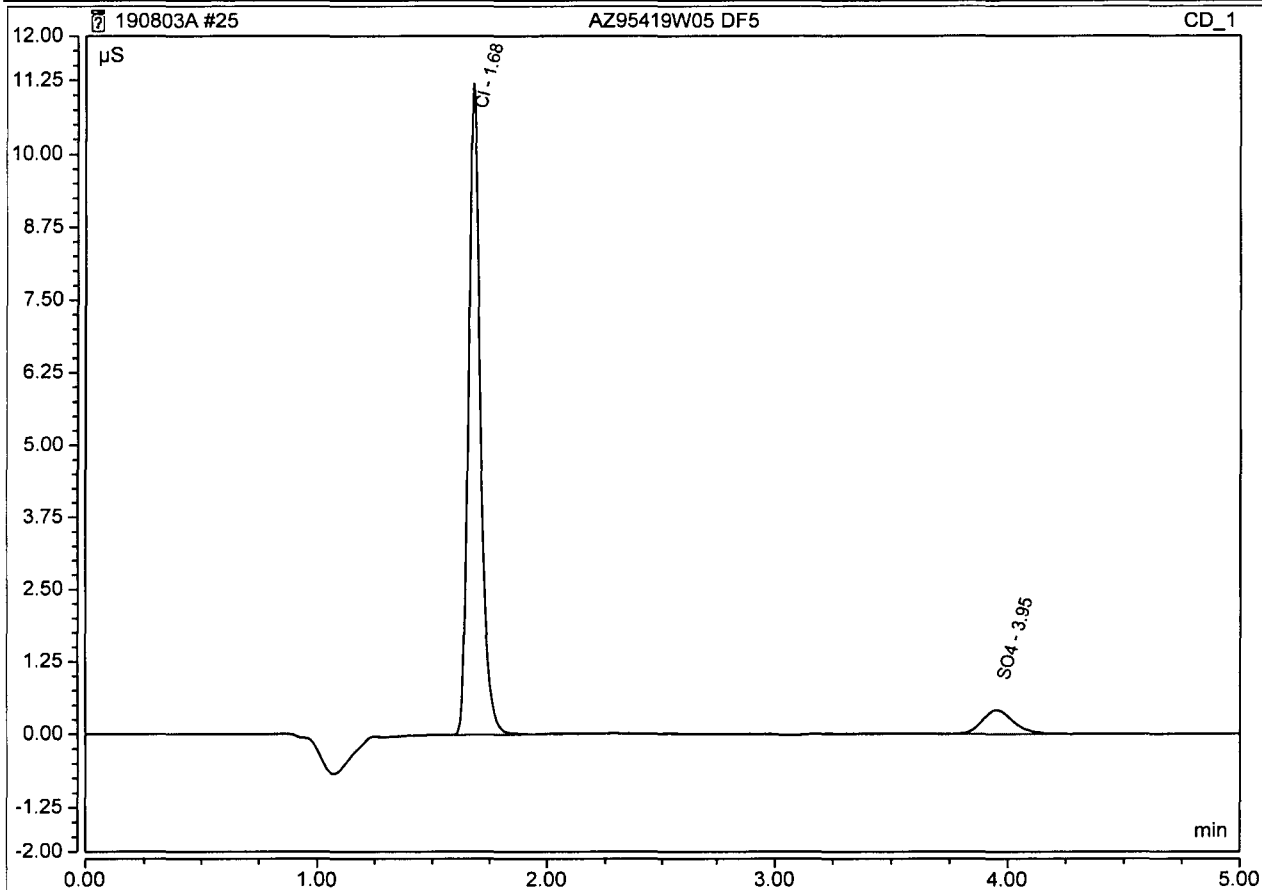
No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.86	Cl	BMB [^]	162.540	1103.573	1461.29		
3	2.30	BR	BMB	0.076	1.182	2.31		
5	2.55	NO3-N	BMB	0.123	1.931	0.70		
8	4.08	SO4	BMB	31.676	200.270	459.32		



Peak Integration Report

Sample Name:		AZ95419W05 DF5		Inj. Vol.:		25uL	
Injection Type:		Unknown		Dilution Factor:		5.00	
Program:		Anlon APM 190725		Operator:		chemlst_wetlab	
Inj. Date / Time:		03-Aug-2019 / 11:14		Run Time:		5.00	

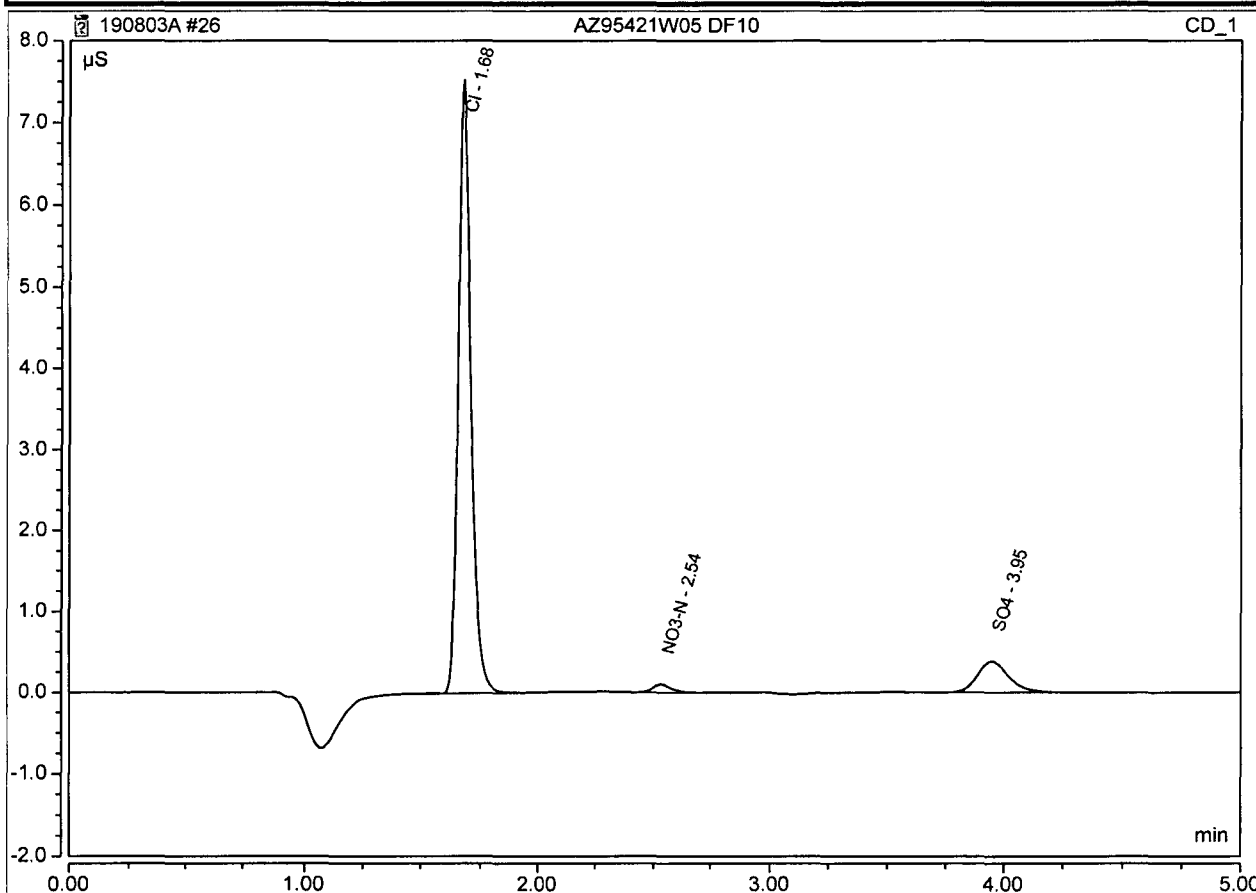
No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.68	Cl	BMB	0.681	11.203	36.31		
2	3.95	SO4	BMB	0.064	0.414	6.15		



Peak Integration Report

Sample Name:		AZ95421W05 DF10			Inj. Vol.:		25uL	
Injection Type:		Unknown			Dilution Factor:		10.00	
Program:		Anion APM 190725			Operator:		chemist_wetlab	
Inj. Date / Time:		03-Aug-2019 / 11:21			Run Time:		5.00	

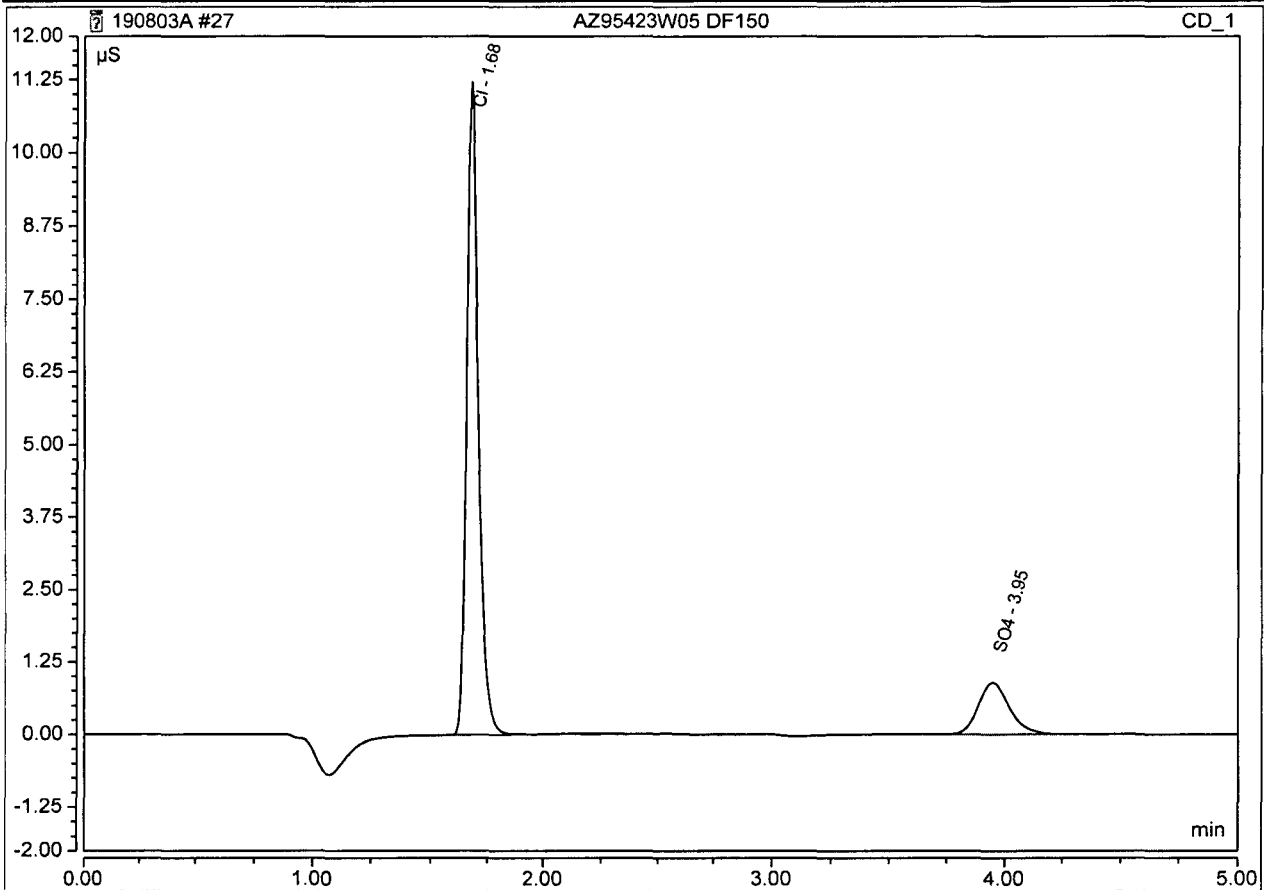
No.	Time (min) min	Peak Name	Peak Type	Area (μS*min) μS*min	Height (μS) μS	Amount mg/L	Spike Level mg/L	Recovery
1	1.68	Cl	BMB	0.462	7.533	53.01		
2	2.54	NO3-N	BMB	0.009	0.102	2.05		
3	3.95	SO4	BMB	0.059	0.382	11.58		



Peak Integration Report

Sample Name:		AZ95423W05 DF150			Inj. Vol.:		25uL	
Injection Type:		Unknown			Dilution Factor:		150.00	
Program:		Anion APM 190725			Operator:		chemist_wetlab	
Inj. Date / Time:		03-Aug-2019 / 11:29			Run Time:		5.00	

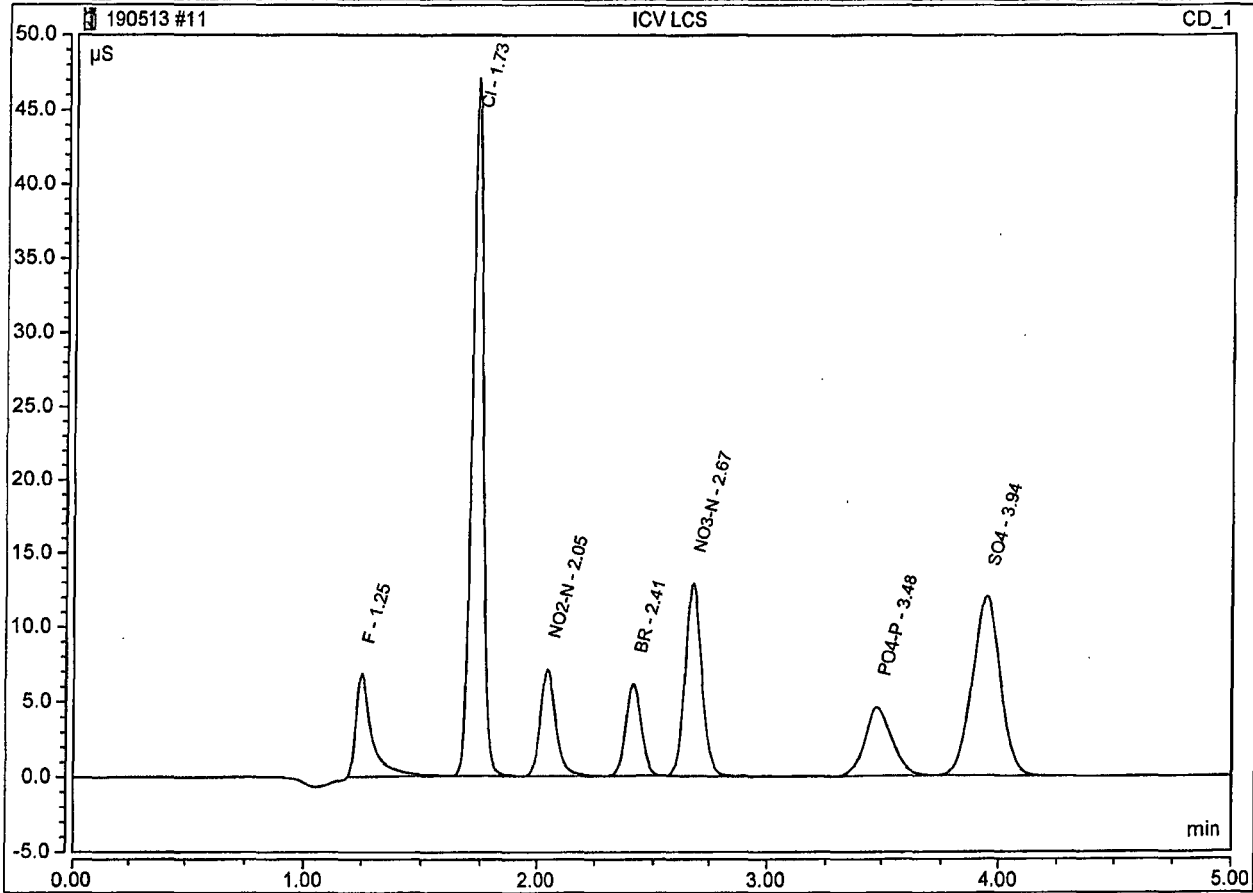
No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.68	Cl	BMB	0.679	11.224	1087.54		
2	3.95	SO4	BMB	0.139	0.892	346.67		



Peak Integration Report

Sample Name:	ICV LCS	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.00
Program:	Anion APM 190513A	Operator:	Chemist_wetlab
Inj. Date / Time:	13-May-2019 / 20:58	Run Time:	5.00

No.	Time (min)	Peak Name	Peak Type	Area (µS*min)	Height (µS)	Amount	Spike Level	Recovery
	min			µS*min	µS	mg/L	mg/L	
1	1.25	F	BMB	0.554	6.849	4.80	5	96.1%
2	1.73	Cl	BMB	2.624	47.059	23.76	25	95.0%
3	2.05	NO2-N	BMB	0.565	7.119	3.03	3.04	99.8%
4	2.41	BR	BMB	0.474	6.137	12.54	12.5	100.3%
5	2.67	NO3-N	BMB	1.116	12.900	4.84	5	96.9%
6	3.48	PO4-P	BMB	0.631	4.581	9.05	10	90.5%
7	3.94	SO4	BMB	1.668	11.977	23.65	25	94.6%



Algorithm Check:

y = Peak Area

x = mg/L S04

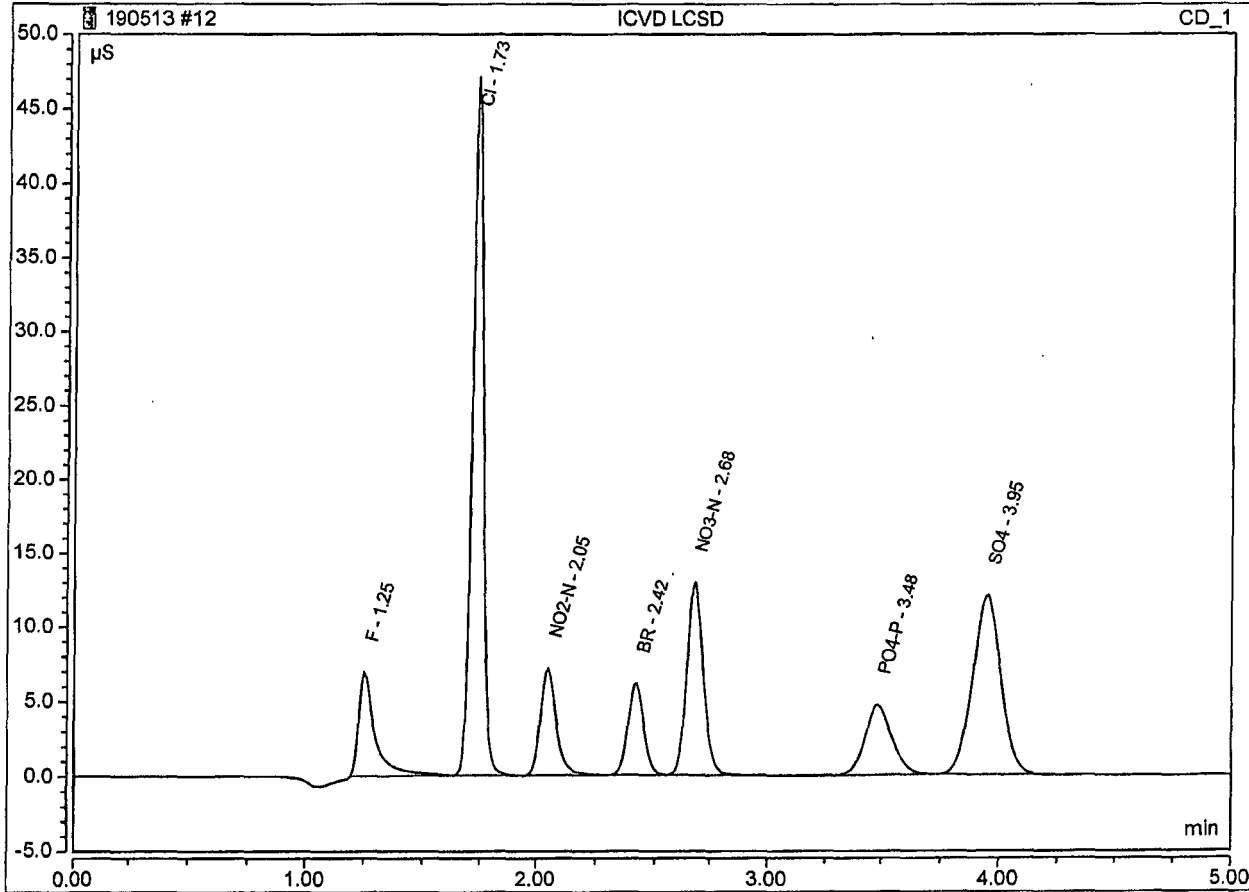
$$y = 0.0697 \quad x + \quad 0.0205$$

$$y = 1.6682 \quad \text{therefor } x = 23.63 \text{ HH } 190514$$

Peak Integration Report

Sample Name:		ICVD LCSD			Inj. Vol.:		25uL	
Injection Type:		Check Standard			Dilution Factor:		1.00	
Program:		Anlon APM 190513A			Operator:		chemist_wetlab	
Inj. Date / Time:		13-May-2019 / 21:05			Run Time:		5.00	

No.	Time (min)	Peak Name	Peak Type	Area (µS*min)	Height (µS)	Amount	Spike Level	Recovery
	min			µS*min	µS	mg/L	mg/L	
1	1.25	F	BMB	0.567	6.956	4.92	5	98.4%
2	1.73	Cl	BMB	2.625	47.004	23.77	25	95.1%
3	2.05	NO2-N	BMB	0.567	7.124	3.04	3.04	100.0%
4	2.42	BR	BMB	0.474	6.133	12.55	12.5	100.4%
5	2.68	NO3-N	BMB	1.116	12.886	4.85	5	97.0%
6	3.48	PO4-P	BMB	0.641	4.646	9.18	10	91.8%
7	3.95	SO4	BMB	1.672	11.998	23.70	25	94.8%

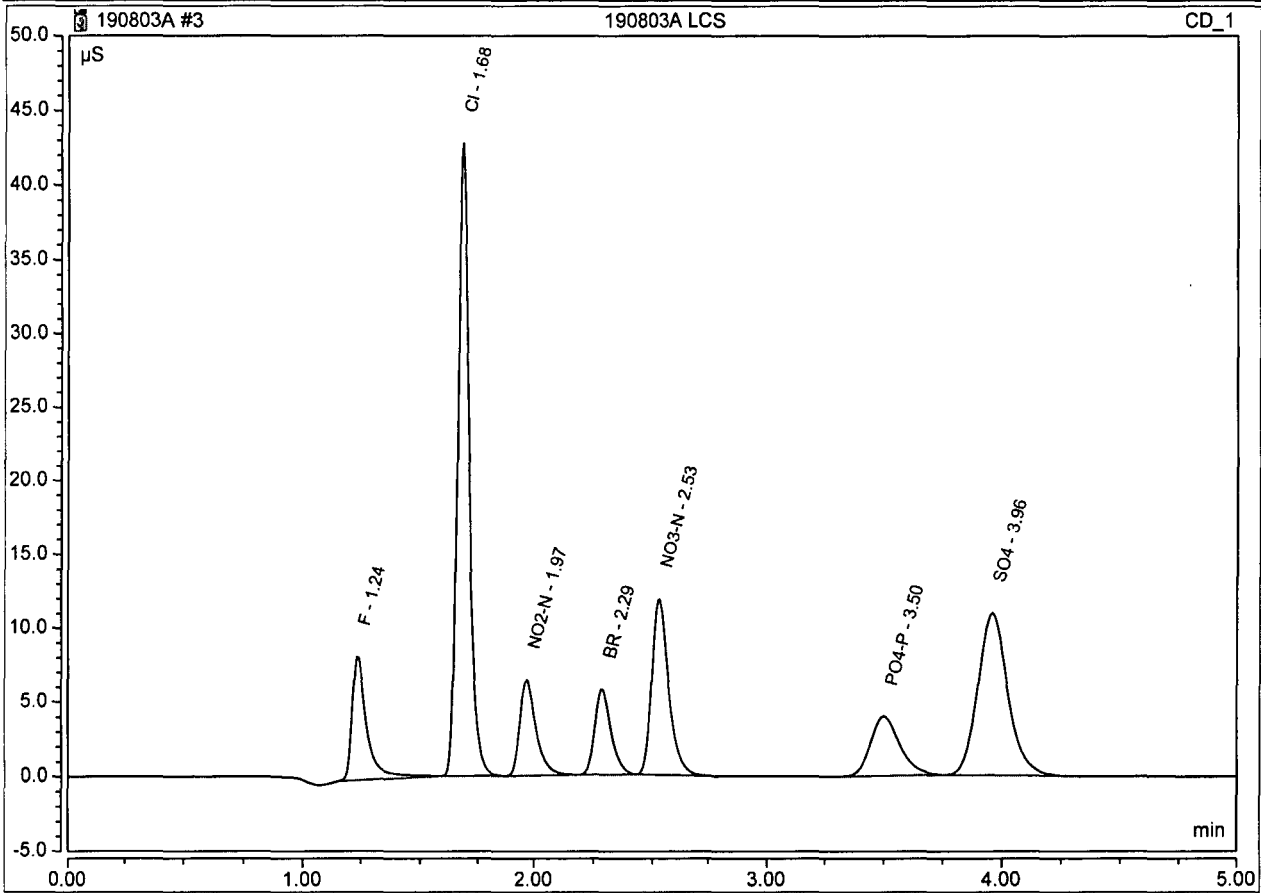


Logged on User: HH
 Instrument: Charlie System_1
 Sequence: 190803A

Peak Integration Report

Sample Name:	190803A LCS	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.00
Program:	Anion APM 190725	Operator:	chemist_wetlab
Inj. Date / Time:	03-Aug-2019 / 07:37	Run Time:	5.00

No.	Time (min)	Peak Name	Peak Type	Area (µS*min)	Height (µS)	Amount	Spike Level	Recovery
	min			µS*min	µS	mg/L	mg/L	
1	1.24	F	BMB	0.612	8.359	5.22	5	104.4%
2	1.68	Cl	BMB	2.491	42.786	23.53	25	94.1%
3	1.97	NO2-N	BMB	0.534	6.437	3.02	3.04	99.4%
4	2.29	BR	BMB	0.449	5.784	12.31	12.5	98.5%
5	2.53	NO3-N	BMB	1.029	11.872	4.69	5	93.9%
6	3.50	PO4-P	BMB	0.573	3.979	11.47	10	114.7%
7	3.96	SO4	BMB	1.597	10.905	23.43	25	93.7%



Algorithm Check

y = Peak Area

x = mg/L S04

$$y = 0.0690 \quad x + \quad -0.0206$$

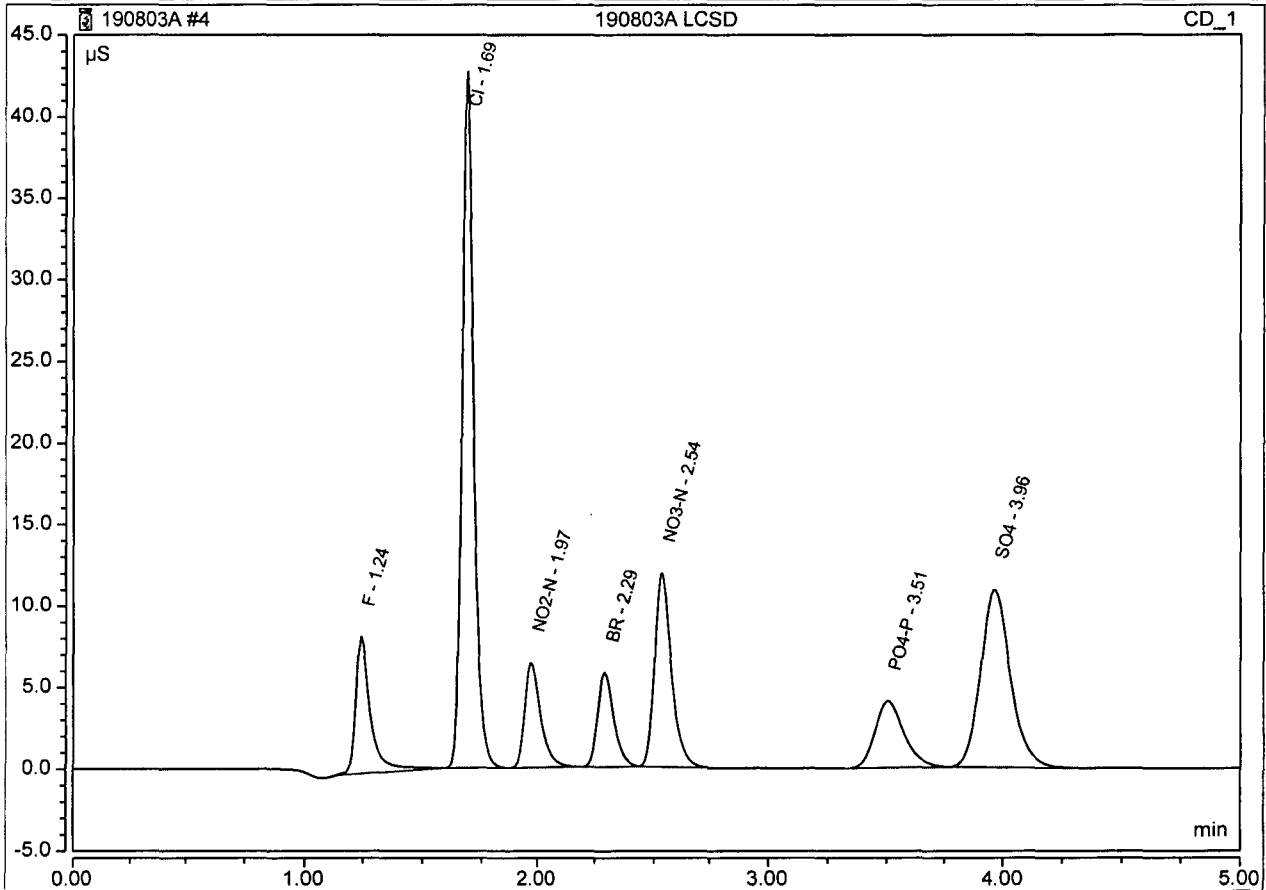
$$y = 1.5965 \quad \text{therefor } x = 23.418 \text{ BW } 190823$$

Logged on User: HH
 Instrument: Charlie System_1
 Sequence: 190803A

Peak Integration Report

Sample Name:		190803A LCSD			Inj. Vol.:		25uL	
Injection Type:		Check Standard			Dilution Factor:		1.00	
Program:		Anion APM 190725			Operator:		chemist_wetlab	
Inj. Date / Time:		03-Aug-2019 / 07:45			Run Time:		5.00	

No.	Time (min)	Peak Name	Peak Type	Area (µS*min)	Height (µS)	Amount	Spike Level	Recovery
	min			µS*min	µS	mg/L	mg/L	
1	1.24	F	BMB	0.627	8.403	5.34	5	106.9%
2	1.69	Cl	BMB	2.489	42.737	23.50	25	94.0%
3	1.97	NO2-N	BMB	0.534	6.437	3.03	3.04	99.5%
4	2.29	BR	BMB	0.449	5.780	12.31	12.5	98.5%
5	2.54	NO3-N	BMB	1.030	11.867	4.70	5	93.9%
6	3.51	PO4-P	BMB	0.585	4.065	11.69	10	116.9%
7	3.96	SO4	BMB	1.595	10.888	23.42	25	93.7%



Algorithm Check

y = Peak Area

x = mg/L S04

$$y = 0.0690 \quad x + \quad -0.0206$$

$$y = 1.5953 \quad \text{therefor } x = 23.418 \text{ BW } 190823$$

Anion Chromatography Working Standard									
Prep Date: 10/23/18									
Exp Date: 10/24/18									
Prep'd By (Initials): HH									
Initial Standard Information					Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc (ug/mL)
Ion Chromatography Standard Fluoride 1000ug/mL in H2O	o2si	O2SI-062002-01-01	1000	142626-24-38407	04/20/19	125 uL	25 mL	Millipore Water	5
Ion Chromatography Standard Nitrite as N 1000 ug/mL in H2O	o2si	O2SI-062004-01-01	1000	142626-24-38408	04/20/19	125 uL	25 mL	Millipore Water	5
Ion Chromatography Standard Chloride, 500mL 5,000 mg/L in H2O	o2si	062001-08-03	5000	10084781-1-39578	02/21/20	250 uL	25 mL	Millipore Water	50
Ortho-Phosphate as P Standard	Ultra Scientific	ICC-005A	1000	G34-CP-3323-39057	08/31/23	250 uL	25 mL	Millipore Water	10
Ion Chromatography Standard Nitrate as N, 500mL 1,000 mg/L in H2O	o2si	062003-01-03	1000	880117-4-39577	02/21/20	250 uL	25 mL	Millipore Water	10
Bromide Standard	Ultra Scientific	ICC-001	1000	CR-5372-39521	12/31/21	625 uL	25 mL	Millipore Water	25
Sulfate Standard	Ultra Scientific	ICC-006	1000	G34-CR-2905-39056	07/31/21	1250 uL	25 mL	Millipore Water	50

Anion Chromatography Calibration Curve									
Prep Date: 07/25/19									
Exp Date: 07/26/19									
Prep'd By (Initials): BW									
Initial Standard Information					Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. Range (ug/mL)	Reference To APPL Prep Date	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc. Range (ug/mL)
Anion Chromatography Working Standard	Varies	ICal1	5.0-50.0	Prepared 10/23/18	07/26/19	200 µL	25000 µL	Millipore Water	0.08-0.40
Anion Chromatography Working Standard	Varies	ICal2	5.0-50.0	Prepared 10/23/18	07/26/19	20 µL	1000 µL	Millipore Water	0.1-1.0
Anion Chromatography Working Standard	Varies	ICal3	5.0-50.0	Prepared 10/23/18	07/26/19	50 µL	1000 µL	Millipore Water	0.25-2.5
Anion Chromatography Working Standard	Varies	ICal4	5.0-50.0	Prepared 10/23/18	07/26/19	100 µL	1000 µL	Millipore Water	0.5-5.0
Anion Chromatography Working Standard	Varies	ICal5	5.0-50.0	Prepared 10/23/18	07/26/19	200 µL	1000 µL	Millipore Water	1.0-10.0
Anion Chromatography Working Standard	Varies	ICal6	5.0-50.0	Prepared 10/23/18	07/26/19	700 µL	1000 µL	Millipore Water	3.5-35.0
Anion Chromatography Working Standard	Varies	ICal7	5.0-50.0	Prepared 10/23/18	07/26/19	1000 µL	1000 µL	Millipore Water	5.0-50.0

Anion Chromatography LCS/ICV									
Prep Date: See injection Log									
Exp Date: 24 hours after prep									
Prep'd By (Initials): BW									
Initial Standard Information					Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. Range (ug/mL)	Lot Number - QA Number	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc (ug/mL)
Fluoride	Inorganic Ventures	ICF1	993-999	K-F652018-39801	10/23/19	62.5 µL	25 mL	Millipore Water	2.5
Nitrite	Inorganic Ventures	ICNO21	993-1001	M2-NOX660562-39802	10/23/19	250 µL	25 mL	Millipore Water	3.04
Chloride	Inorganic Ventures	ICCL1	995-1001	N2CL664868-39036	04/16/19	500 µL	25 mL	Millipore Water	20
O-Phosphate as P	Inorganic Ventures	IPPO41	1001-1009	M2-POX655826-39803	10/23/19	125 µL	25 mL	Millipore Water	5
Nitrate as N	Inorganic Ventures	ICNNO31	994-1002	N2-NOX667147-39510	10/23/19	125 µL	25 mL	Millipore Water	5
Ion Chromatography Bromide Standard	CPI International	4400-IC8M	995-1005	16H087-37320	01/15/19	312.5 µL	25 mL	Millipore Water	12.5
Sulfate	Inorganic Ventures	ICSO41	998-1006	N2-SOX664928	08/13/19	500 µL	25 mL	Millipore Water	20

Anion Chromatography CCV									
Prep Date: See injection Log									
Exp Date: 24 hours after prep									
Prep'd By (Initials): BW									
Initial Standard Information					Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc (ug/mL)
Ion Chromatography Standard Fluoride 1000ug/mL in H2O	o2si	O2SI-062002-01-01	1000	142626-24-38407	04/20/19	62.5 µL	25 mL	Millipore Water	2.5
Ion Chromatography Standard Nitrite as N 1000 ug/mL in H2O	o2si	O2SI-062004-01-01	1000	142626-24-38408	04/20/19	62.5 µL	25 mL	Millipore Water	2.5
Ion Chromatography Standard Chloride, 500mL 5,000 mg/L in H2O	o2si	062001-08-03	5000	10084781-1-39578	02/21/20	125 µL	25 mL	Millipore Water	25
Ortho-Phosphate as P Standard	Ultra Scientific	ICC-005A	1000	G34-CP-3323-39057	08/31/23	125 µL	25 mL	Millipore Water	5
Ion Chromatography Standard Nitrate as N, 500mL 1,000 mg/L in H2O	o2si	062003-01-03	1000	880117-4-39577	02/21/20	125 µL	25 mL	Millipore Water	5
Bromide Standard	Ultra Scientific	ICC-001	1000	CR-5372-39521	12/31/21	312.5 µL	25 mL	Millipore Water	12.5
Sulfate Standard	Ultra Scientific	ICC-006	1000	G34-CR-2905-39056	07/31/21	625 µL	25 mL	Millipore Water	25

EPA 9056A Injection Log

Directory: I:\Dionex\Charlie\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	13 May 2019	19:44	CCB		Anions	1.
2	13 May 2019	19:51	i cal 1		Anions	1.
3	13 May 2019	19:58	i cal 2		Anions	1.
4	13 May 2019	20:06	i cal 3		Anions	1.
5	13 May 2019	20:13	i cal 4		Anions	1.
6	13 May 2019	20:21	i cal 5		Anions	1.
7	13 May 2019	20:28	i cal 6		Anions	1.
8	13 May 2019	20:35	i cal 7		Anions	1.
9	13 May 2019	20:43	i cal 8		Anions	1.
10	13 May 2019	20:50	ICB		Anions	1.
11	13 May 2019	20:58	ICV LCS		Anions	1.
12	13 May 2019	21:05	ICVD LCSD		Anions	1.

INORGANIC ANALYSIS
Calibration Data

A.P.P.L. INC.
2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: AECOM

ARF No: 89607 SDG: 89607

Initial Calibration Source: Inorganic Ventures

Continuing Calibration Source: o2si

Analysis Date: 07/31/19

Analyte	Calibration Verification									M
	True ICV	Found 17:21	%R(1)	True CCV1	Found 18:20	%R(1)	True CCV1	Found 18:47	%R(1)	
TOXN	3	2.8764	95.9	3	2.7636	92.1	3	2.7201	90.7	

A.P.P.L. INC.
2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: AECOM

ARF No: 89607 SDG: 89607

Initial Calibration Source: Inorganic Ventures

Continuing Calibration Source: o2si

Analysis Date: 07/31/19

Analyte	Calibration Verification									M
	True CCV1	Found 19:02	%R(1)	True	Found	%R(1)	True	Found	%R(1)	
TOXN	3	2.8221	94.1							

Name of Final Standard **TOC Calibration Curve**
 Prep Date 06/11/19
 Exp Date 07/09/19

Prep'd By (Initials) AR

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	20 uL	40 mL	DI Water	0.5 ppm
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	50 uL	40 mL	DI Water	1.25 ppm
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	100 uL	40 mL	DI Water	2.5 ppm
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	150 uL	40 mL	DI Water	3.75 ppm
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	200 uL	40 mL	DI Water	5 ppm

A.P.P.L. INC.

3

BLANKS

Lab Name: A.P.P.L. INC.

Contract: AECOM

ARF No.: 89607

SDG: 89607

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): mg/L

Analyte	Calibration Blanks										M
	ICB 07/31/19 17:22	C	CCB 07/31/19 18:22	C	CCB 07/31/19 18:50	C	CCB 07/31/19 19:03	C		C	
TOXN	.100	U	.100	U	.100	U	.100	U			

INORGANIC ANALYSIS
Raw Data

AQ2 Tray Report



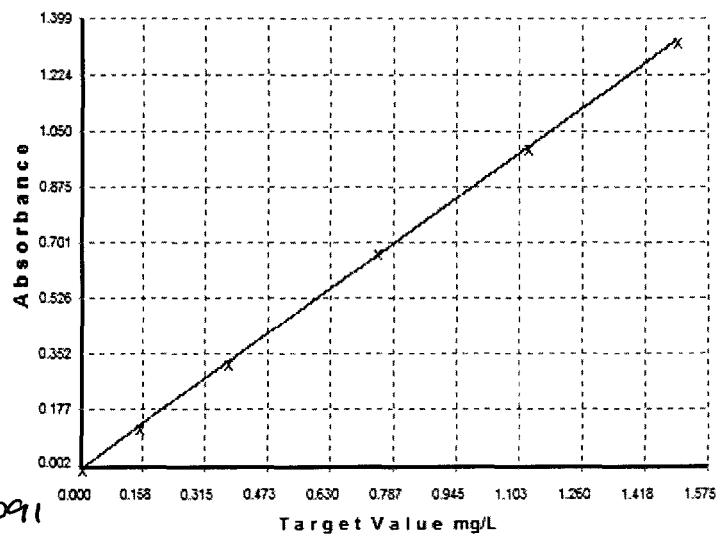
Serial Number: 190170
Software Version: 2.1.0
Report Requested By: Eve V
Date & Time: 2019-08-01 17:05:18
Tray Number: 8
Tray Name: 190731A NO2 NO3 TOXN CCV ICV

Nitrite-N

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0025	0.0009	0.0000	
S90	0.1338	0.1485	0.1500	-0.99
S91	0.3299	0.3689	0.3750	-1.62
S92	0.6766	0.7585	0.7500	1.14
S93	1.0051	1.1277	1.1250	0.24
S94	1.3322	1.4953	1.5000	-0.31
S0	0.0143	0.0142	0.0000	

Calibration Graph



Polynomial Order: 1
 Correlation Coefficient: 1.0000
 Carryover(%): 0.9
 Calibration equation: $y = bx + a$
 y =: Concentration mg/L
 x =: Measured absorbance
 a =: $-1.819091E-003$
 b =: $1.123808E+000$
 Date & Time: 2019-07-31 16:43:28

$y = 1.123808(0.647726) - 0.001819091$
 $= 0.726101 \checkmark$

PNW 190023

Reagents

Name	Batch	Prepared By	Expiry Date
Sulfa-NEDD		Joel	
NO2 Buffer		Joel	

Test Results

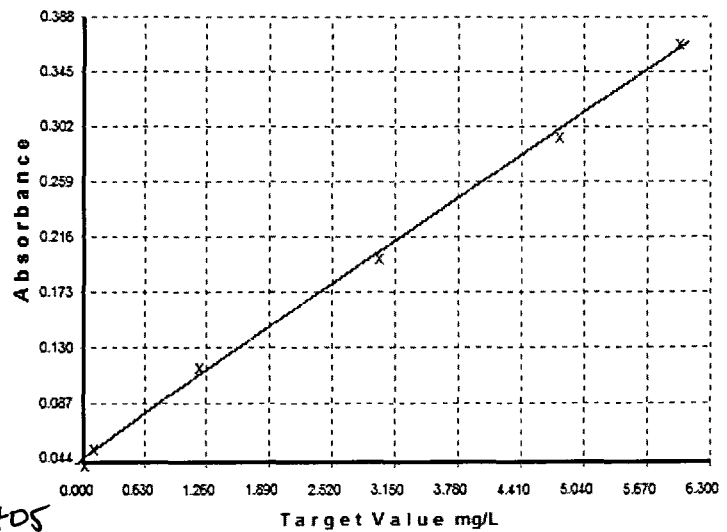
Cup	Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
S1		Standard 1	0.0025			0.002451			Ev	2019-07-31 16:36:42
S90		Standard 90	0.1338			0.133773			Ev	2019-07-31 16:37:55
S91		Standard 91	0.3299			0.329910			Ev	2019-07-31 16:39:09
S92		Standard 92	0.6766			0.676576			Ev	2019-07-31 16:40:22
S93		Standard 93	1.0051			1.005118			Ev	2019-07-31 16:41:35
S94		Standard 94	1.3322			1.332225			Ev	2019-07-31 16:42:50
S0		Standard 0	0.0143			0.014288			Ev	2019-07-31 16:43:28
CCV		CCV .75	0.7265	mg/L		0.648105			Ev	2019-07-31 16:45:37
CCB		CCB	0.0081	mg/L		0.008815			Ev	2019-07-31 16:47:51
3	U1	ICV NO2	0.7261	mg/L	✓	0.647726			Ev	2019-07-31 16:50:08
5	U3	ICB NO2 NO3 TOXN	0.0070	mg/L		0.007844			Ev	2019-07-31 16:52:26
6	U4	1ppm NO2	0.9797	mg/L		0.873402			Ev	2019-07-31 16:54:44
	CCV	CCV .75	0.7276	mg/L		0.649054			Ev	2019-07-31 16:57:01
	CCB	CCB	0.0065	mg/L		0.007367			Ev	2019-07-31 16:59:13

TOXN

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0441	-0.0939	0.0000	
S90	0.0573	0.1572	0.1000	57.21
S91	0.1183	1.3178	1.2000	9.81
S92	0.2030	2.9275	3.0000	-2.42
S93	0.2962	4.6982	4.8000	-2.12
S94	0.3695	6.0932	6.0000	1.55
S0	0.0455	-0.0672	0.0000	

Calibration Graph



Polynomial Order: 1
 Correlation Coefficient: 0.9992
 Carryover(%): 0.4
 Calibration equation: $y = bx + a$
 y =: Concentration mg/L
 x =: Measured absorbance
 a =: -9.320405E-001
 b =: 1.901030E+001
 Date & Time: 2019-07-31 17:18:49

$y = 19.01030(0.200333) - 0.9320405$
 $= 2.87635$ ✓
Pm 190823

Reagents

Name	Batch	Prepared By	Expiry Date
NO3 W Buffer		Joel	
Sulfa-NEDD		Joel	

Test Results

Cup	Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
S1		Standard 1	0.0441			0.044090			Ev	2019-07-31 17:08:05
S90		Standard 90	0.0573			0.057298			Ev	2019-07-31 17:10:22
S91		Standard 91	0.1183			0.118347			Ev	2019-07-31 17:12:36
S92		Standard 92	0.2030			0.203024			Ev	2019-07-31 17:14:48
S93		Standard 93	0.2962			0.296168			Ev	2019-07-31 17:17:05
S94		Standard 94	0.3695			0.369548			Ev	2019-07-31 17:17:44
S0		Standard 0	0.0455			0.045492			Ev	2019-07-31 17:18:49
CCV		CCV	2.8695	mg/L		0.199973			Ev	2019-07-31 17:19:45
CCB		CCB	-0.0894	mg/L		0.044326			Ev	2019-07-31 17:20:41
4	U2	ICV NO3 TOXN	2.8764 ✓	mg/L		0.200333			Ev	2019-07-31 17:21:38
5	U3	ICB NO2 NO3 TOXN	-0.0417	mg/L		0.046836			Ev	2019-07-31 17:22:34
7	U5	1ppm NO3 TOXN	0.8475	mg/L		0.093608			Ev	2019-07-31 17:23:30
	CCV	CCV	2.7822	mg/L		0.195380			Ev	2019-07-31 17:24:27
	CCB	CCB	-0.1103	mg/L		0.043226			Ev	2019-07-31 17:25:23

Nitrate-N

Test Results

Cup	Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
5	U3	ICB NO2 NO3 TOXN	-0.0487	mg/L		0.000000			Ev	2019-07-31 17:22:34
5	U3	ICB NO2 NO3 TOXN				0.000000			Ev	2019-07-31 17:22:34

AQ2 Tray Report



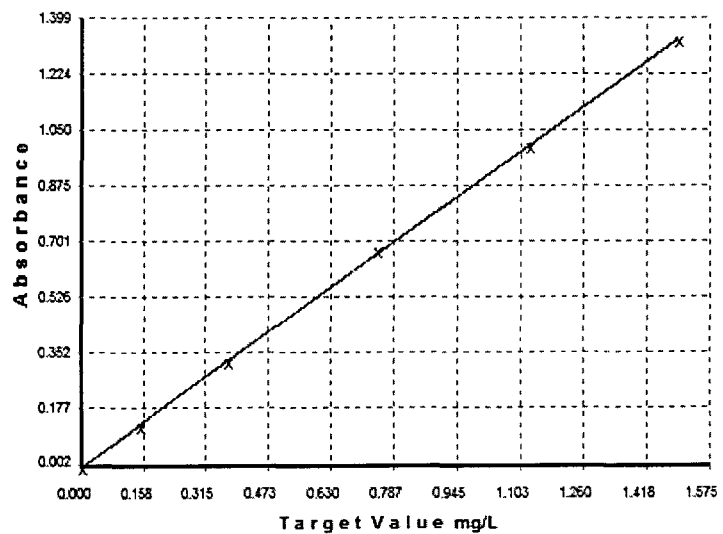
Serial Number: 190170
Software Version: 2.1.0
Report Requested By: Eve V
Date & Time: 2019-08-01 17:07:31
Tray Number: 1
Tray Name: 190731B NO2 NO3 TOXN

Nitrite-N

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0025	0.0009	0.0000	
S90	0.1338	0.1485	0.1500	-0.99
S91	0.3299	0.3689	0.3750	-1.62
S92	0.6766	0.7585	0.7500	1.14
S93	1.0051	1.1277	1.1250	0.24
S94	1.3322	1.4953	1.5000	-0.31
S0	0.0143	0.0142	0.0000	

Calibration Graph



Polynomial Order: 1
 Correlation Coefficient: 1.0000
 Carryover(%): 0.9
 Calibration equation: $y = bx + a$
 y = Concentration mg/L
 x = Measured absorbance
 a = -1.819091E-003
 b = 1.123808E+000
 Date & Time: 2019-07-31 16:43:28

$y = 1.123808(0.656594) - 0.001819091$
 $= 0.736066 \checkmark$

raw 8/23/19

Reagents

Name
 Sulfa-NEDD
 NO2 Buffer

Batch

Prepared By

Joel
Joel

Expiry Date

Test Results

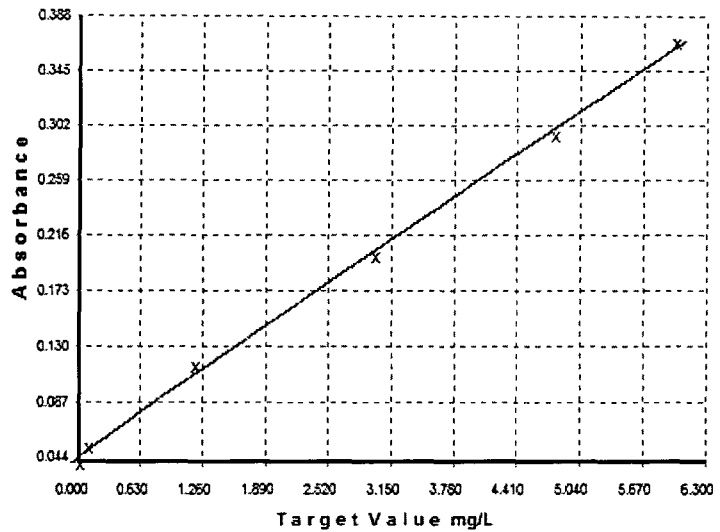
Cup Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
CCV	CCV .75	0.7361	mg/L		0.656594			Ev	2019-07-31 17:59:53
CCB	CCB	0.0072	mg/L		0.007989			Ev	2019-07-31 18:02:10
3 U1	190730A BLK NO2 NO3 TOXN	0.0311	mg/L		0.004385		x10.0000	Ev	2019-07-31 18:04:27
4 U2	190730B BLK NO2 NO3 TOXN	0.0338	mg/L		0.004629		x10.0000	Ev	2019-07-31 18:06:42
CCV	CCV .75	0.7129	mg/L		0.635951			Ev	2019-07-31 18:08:59
CCB	CCB	0.0062	mg/L		0.007165			Ev	2019-07-31 18:11:16

TOXN

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0441	-0.0939	0.0000	
S90	0.0573	0.1572	0.1000	57.21
S91	0.1183	1.3178	1.2000	9.81
S92	0.2030	2.9275	3.0000	-2.42
S93	0.2962	4.6982	4.8000	-2.12
S94	0.3695	6.0932	6.0000	1.55
S0	0.0455	-0.0672	0.0000	

Calibration Graph



Polynomial Order: 1
 Correlation Coefficient: 0.9992
 Carryover(%): 0.4
 Calibration equation: $y = bx + a$
 y =: Concentration mg/L
 x =: Measured absorbance
 a =: -9.320405E-001
 b =: 1.901030E+001
 Date & Time: 2019-07-31 17:18:49

$y = 19.01030(0.194245) - 0.9320405$
 $= 2.76062$ ✓ *BW*
 8/23/19

Reagents

Name	Batch	Prepared By	Expiry Date
NO3 W Buffer		Joel	
Sulfa-NEDD		Joel	

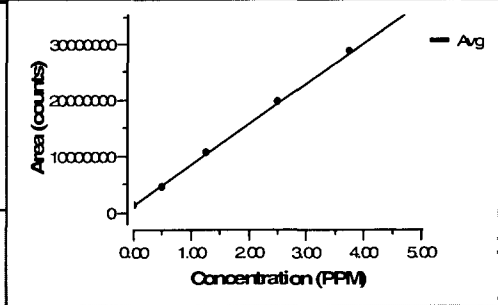
Test Results

Cup Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
CCV	CCV	2.7636	mg/L		0.194400			Ev	2019-07-31 18:20:17
CCB	CCB	-0.1627	mg/L		0.040471			Ev	2019-07-31 18:22:33
3 U1	190730A BLK NO2 NO3 TOXN	-0.7801	mg/L		0.044925		x10.0000	Ev	2019-07-31 18:24:50
4 U2	190730B BLK NO2 NO3 TOXN	-0.6182	mg/L		0.045776		x10.0000	Ev	2019-07-31 18:27:07
5 U3	190731A BLK	-0.0124	mg/L		0.048374			Ev	2019-07-31 18:29:25
6 U4	190731A LCS TOXN	2.7606 ✓	mg/L		0.194245			Ev	2019-07-31 18:31:42
7 U5	190731A LCSD TOXN	2.9137	mg/L		0.202299			Ev	2019-07-31 18:34:00
8 U6	AZ95187W07	0.8895	mg/L		0.095817			Ev	2019-07-31 18:36:18
9 U7	AZ95189W13	0.4942	mg/L		0.075023			Ev	2019-07-31 18:38:36
10 U8	AZ95189W13 MS	3.7402	mg/L		0.245775			Ev	2019-07-31 18:40:54
11 U9	AZ95189W13 MSD	3.8658	mg/L		0.252383			Ev	2019-07-31 18:43:13
12 U10	AZ95329W08	-0.0852	mg/L		0.044546			Ev	2019-07-31 18:45:31
CCV	CCV	2.7201	mg/L		0.192116			Ev	2019-07-31 18:47:50
CCB	CCB	0.0118	mg/L		0.049647			Ev	2019-07-31 18:50:09
13 U11	AZ95332W08	1.4891	mg/L		0.127362			Ev	2019-07-31 18:52:27
14 U12	AZ95334W08	0.4455	mg/L		0.072463			Ev	2019-07-31 18:54:46
15 U13	AZ95336W08	0.6697	mg/L		0.084259			Ev	2019-07-31 18:55:26
16 U14	AZ95338W08	0.4720	mg/L		0.073859			Ev	2019-07-31 18:56:31
17 U15	AZ95419W06	-0.1261ELL	mg/L		0.042394			Ev	2019-07-31 18:57:27
18 U16	AZ95421W06	0.3254	mg/L		0.066145			Ev	2019-07-31 18:58:23
19 U17	AZ95423W06	1.6689	mg/L		0.136820			Ev	2019-07-31 18:59:19
20 U18	AZ95511W08	0.3905	mg/L		0.069567			Ev	2019-07-31 19:00:16
21 U19	AZ95513W08	0.1628	mg/L		0.057590			Ev	2019-07-31 19:01:12
CCV	CCV	2.8221	mg/L		0.197480			Ev	2019-07-31 19:02:08
CCB	CCB	-0.1225	mg/L		0.042582			Ev	2019-07-31 19:03:05

Nitrate-N**Test Results**

Cup Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
3	U1	190730A BLK NO2 NO3 TOXN	-0.8112	mg/L	0.000000		x10.0000	Ev	2019-07-31 18:24:50
3	U1	190730A BLK NO2 NO3 TOXN			0.000000		x10.0000	Ev	2019-07-31 18:24:50
4	U2	190730B BLK NO2 NO3 TOXN	-0.6520	mg/L	0.000000		x10.0000	Ev	2019-07-31 18:27:07
4	U2	190730B BLK NO2 NO3 TOXN			0.000000		x10.0000	Ev	2019-07-31 18:27:07

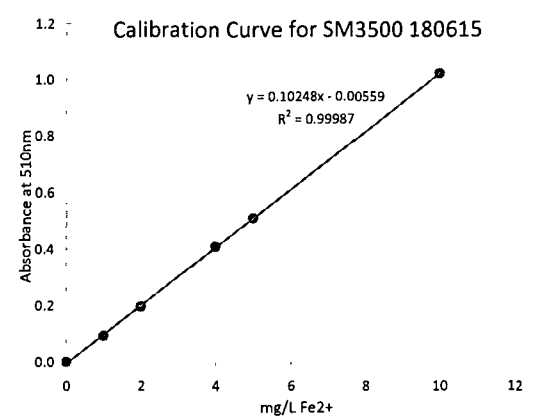
TOTAL ORGANIC CARBON					
Method: WetChem		Units mg/L		Instrument: Tic Toc	
Analyte: TOC		QCG: 190805A			
Analyst: AR		Final Volume: 40mL			
Date	Time	Appl ID	[TOC]	Raw	% Recovery
06/11/19	17:42	QC blank	0.00	1316906.000	
06/11/19	18:20	Ical 1	0.50	4509403.000	
06/11/19	18:52	Ical 2	1.25	10661265.000	
06/11/19	19:23	Ical 3	2.50	19817176.000	
06/11/19	19:56	Ical 4	3.75	28801267.000	
06/11/19	20:28	Ical 5	5.00	37233293.000	
06/11/19	21:26	ICB	0.33	1187234.000	
06/11/19	22:00	ICV	2.72	19729462.000	108.6%
r^2= 0.9987					



Date	Time	Appl ID	DF	Raw Result	SubSample Amount	Calc Conc	Result	QC True	% Recovery
2019-08-05	09:51 PM	CCV	1	21155711	40mL	2.841	2.84	2.50	113.6%
2019-08-05	10:23 PM	CCB	1	1819564	40mL	0.18	0.18		
2019-08-05	10:55 PM	190805A LCS	1	20488729	40mL	2.749	2.75	2.50	110.0%
2019-08-05	11:27 PM	190805A LCSD	1	19693933	40mL	2.64	2.64	2.50	105.6%
2019-08-05	11:59 PM	AZ95419W06	1	7150916	40mL	0.914	0.91		
2019-08-06	12:31 AM	AZ95421W06	1	3338601	40mL	0.389	0.39		
2019-08-06	01:03 AM	AZ95423W06	1	7380031	40mL	0.945	0.95		
2019-08-06	01:37 AM	AZ95613W03	1	29853311	40mL	4.037	4.04		
2019-08-06	02:10 AM	AZ95441W15	1	16100357	40mL	2.145	2.15		
2019-08-06	02:42 AM	AZ95442W15	1	13417352	40mL	1.776	1.78		
2019-08-06	03:14 AM	AZ95443W15	1	10145471	40mL	1.326	1.33		
2019-08-06	03:45 AM	AZ95444W15	1	13169974	40mL	1.742	1.74		
2019-08-06	04:17 AM	AZ95445W15	1	11620127	40mL	1.529	1.53		
2019-08-06	04:48 AM	AZ95445W15 DUP	1	11513150	40mL	1.514	1.51		
2019-08-06	05:20 AM	CCV	1	20174067	40mL	2.706	2.71	2.50	108.2%
2019-08-06	05:52 AM	CCB	1	1740179	40mL	0.169	0.17		
2019-08-06	06:23 AM	AZ95446W15	1	28548035	40mL	3.857	3.86		
2019-08-06	06:55 AM	AZ95447W14	1	22007396	40mL	2.958	2.96		
2019-08-06	07:27 AM	AZ95448W14	1	21115296	40mL	2.835	2.84		
2019-08-06	07:59 AM	AZ95449W14	1	9270814	40mL	1.205	1.21		
2019-08-06	08:30 AM	AZ95450W14	1	7238772	40mL	0.925	0.93		
2019-08-06	09:01 AM	AZ95511W08	1	3052751	40mL	0.35	0.35		
2019-08-06	09:32 AM	AZ95513W08	1	3231328	40mL	0.374	0.37		
2019-08-06	10:03 AM	AZ95551W13	1	3310750	40mL	0.385	0.39		
2019-08-06	10:34 AM	AZ95552W15	1	9017148	40mL	1.17	1.17		
2019-08-06	11:06 AM	AZ95552W15 DUP	1	9812441	40mL	1.28	1.28		
2019-08-06	11:37 AM	CCV	1	21500250	40mL	2.888	2.89	2.50	115.5%
2019-08-06	12:09 PM	CCB	1	1853018	40mL	0.184	0.18		
2019-08-06	12:40 PM	AZ95553W15	1	11844328	40mL	1.559	1.56		
2019-08-06	01:11 PM	AZ95554W15	1	8223951	40mL	1.061	1.06		
2019-08-06	07:09 PM	CCV	1	21117828	40mL	2.835	2.84	2.50	113.4%
2019-08-06	07:41 PM	CCB	1	1483405	40mL	0.133	0.13		

Method SM3500Fe	Ferrous Iron		Rev 2, 04-05-19
Analyte Fe2+	Units mg/L	QCG: 190726	Instrument: Genisis Spectrometer
Analyst fjr	Final Volume: 50mL		Wavelength: 510 nm
			Units: mg/L

Date	Time	Appl ID	[Fe2+]	Absorbance	% Recovery
06/28/19	12:48	ICB	0.00	0.000	
06/28/19	12:49	Ical 1	1.00	0.092	95.2%
06/28/19	12:50	Ical 2	2.00	0.195	97.9%
06/28/19	12:51	Ical 3	4.00	0.408	100.9%
06/28/19	12:51	Ical 4	5.00	0.507	100.0%
06/28/19	12:52	Ical 5	10.00	1.019	100.0%
06/28/19	13:08	ICV	3.00	0.326	107.9%
06/28/19	12:53	ICB	0.00	0.002	



Slope	0.102479592	Algorithm Check: Appl ID Absorbance Result ICV/LCS 190726A 0.293 2.91 Result = (Absorbance-Raw Blk-Intercept)/ Slope Test: FJR 07/26/19 2.91
Intercept	-0.005591837	
Coefficient of Determination	0.999872044	

Date	Time	Appl ID	DF	Raw Result	SubSample Amount	Raw BLK	Calc Conc	Result	QC True	% Recovery
07/26/19	14:45	CCV 4.0 190726	1	0.377	25mL	3.73	3.73	3.73	4.00	93.3%
07/26/19	14:46	CCB 190726	1	0.000	25mL	0.05	0.05	0.05		
07/26/19	14:46	ICV/LCS 190726A	1	0.293	25mL	2.91	2.91	2.91	3.00	97.1%
07/26/19	14:47	AZ95419	1	0.045	25mL	0.49	0.49	0.49		
07/26/19	14:47	AZ95421	1	0.007	25mL	0.12	0.12	0.12		
07/26/19	14:48	AZ95423	1	0.004	25mL	0.09	0.09	0.09		
07/26/19	14:48	AZ95441	1	0.043	25mL	0.47	0.47	0.47		
07/26/19	14:48	AZ95442	1	0.078	25mL	0.82	0.82	0.82		
07/26/19	14:49	AZ95443	1	0.064	25mL	0.68	0.68	0.68		
07/26/19	14:49	AZ95444	1	0.061	25mL	0.65	0.65	0.65		
07/26/19	14:51	AZ95445	1	0.072	25mL	0.76	0.76	0.76		
07/26/19	14:51	AZ95446	1	0.051	25mL	0.55	0.55	0.55		
07/26/19	14:52	AZ95447	1	0.051	25mL	0.55	0.55	0.55		
07/26/19	14:52	AZ95448	1	0.083	25mL	0.86	0.86	0.86		
07/26/19	14:53	AZ95449	1	0.057	25mL	0.61	0.61	0.61		
07/26/19	14:53	AZ95450	1	0.046	25mL	0.50	0.50	0.50		
07/26/19	14:55	AZ95450 MS	1	0.347	25mL	3.44	3.44	3.44		
07/26/19	14:55	AZ95450 MSD	1	0.350	25mL	3.47	3.47	3.47		
07/26/19	14:48	CCV 4.0 190726	1	0.414	25mL	4.09	4.09	4.09	4.00	102.4%
07/26/19	14:48	CCB 190726	1	0.005	25mL	0.10	0.10	0.10		

Metrohm 814/809 Titrando Data

Sample ID	Analysis Date/Time	Method	Titration Volume			CO3	HCO3	Total Alk	Unit	Sample Vol	N	Batch	Initials
			(to 8.3)	(total)	OH								
AZ95423W05	2019-07-31 22:09:23 UTC-7	Alkalinity	0.000	3.734	0.00	0.00	153.84	153.84	mg/L	25 mL	0.0206	190731B	AR
AZ95421W05	2019-07-31 21:58:30 UTC-7	Alkalinity	0.000	1.498	0.00	0.00	61.72	61.72	mg/L	25 mL	0.0206	190731B	AR
AZ95419W05	2019-07-31 21:46:08 UTC-7	Alkalinity	0.000	2.020	0.00	0.00	83.22	83.22	mg/L	25 mL	0.0206	190731B	AR
190731B LCSD	2019-07-31 19:37:57 UTC-7	Alkalinity	0.000	6.108	0.00	0.00	251.65	251.65	mg/L	25 mL	0.0206	190731B	AR
190731B LCS	2019-07-31 19:31:33 UTC-7	Alkalinity	0.000	5.994	0.00	0.00	246.95	246.95	mg/L	25 mL	0.0206	190731B	AR
190731B BLK	2019-07-31 19:28:54 UTC-7	Alkalinity	0.000	0.030	0.00	0.00	1.24	1.24	mg/L	25 mL	0.0206	190731B	AR

Name of Final Standard CCV (TOC)
 Prep Date 08/01/19
 Exp Date 08/29/19

Prep'd By (Initials) AR

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	100 uL	40 mL	DI Water	2.5 ppm

Name of Final Standard TOC LCS/LCSD
 Prep Date 08/01/19
 Exp Date 08/29/19

Prep'd By (Initials) AR

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	ULTRA Scientific	IQC-106-5	1000 mg/L	CR-0328-37639	*02/28/2019	100 uL	40 mL	DI Water	2.5 ppm

Name of Final Standard TOC MS/MSD
 Prep Date 08/01/19
 Exp Date 08/29/19

Prep'd By (Initials) AR

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	ULTRA Scientific	IQC-106-5	1000 mg/L	CR-0328-37639	*02/28/2019	100 uL	40 mL	sample	2.5 ppm

*APPL re-certified TOC Lot CR-0328-37639 and extended the expiration date for 6 months to 8/28/19 per verification with a second source Lot CR-5157-40233 injected on 2/28/19

Standard Prep							
Prep Date	Ferrous Iron Standards		Prep'd By (Initials)		FJR		
Exp Date	06/28/19						
Exp Date	06/15/19						
Stock Label	Supplier	Batch Number	Exp Date	Aliquot from Stock	Final Volume	Solvent	Ferrous Iron Concentration
Ferrous Ammonium Sulfate	J.T.Baker	0000184592	08/21/20	0.351	250mL	5ml H2SO4 (0000167828) Diluted with water	200ug/L
Ferrous Sulfate	Mallinckrodt	Lot 5056 KDRX	NA	0.250	250mL	5ml H2SO4 (0000167828) Diluted with water	200ug/L
Ferrous Iron CCV/LCS/MS/ICV			Prep'd By (Initials)		FJR		
Prep Date	See Injection Log						
Exp Date	24 Hours						
Initial Standard Information	Supplier	Batch Number	Exp Date	Final Standard Information			
Ferrous Iron CCV	J.T.Baker	0000184592	06/14/19	500uL	25mL	Deionized water	4mg/L
Ferrous Iron ICV/LCS	Mallinckrodt	Lot 5056 KDRX	06/14/19	375uL	25mL	Deionized water	3mg/L
Ferrous Iron Calibration Curve			Prep'd By (Initials)		FJR		
Prep Date	06/28/19						
Exp Date	06/29/19						
Final Standard Information							
Point Label	Supplier	Batch Number	Exp Date	Aliquot from Stock (mL)	Final Volume	Solvent	Ferrous Iron Concentration
CCB	J.T.Baker	0000184592	06/14/19	0	25mL	Deionized water	0mg/L
Ical 1	J.T.Baker	0000184592	06/14/19	0.125	25mL	Deionized water	1mg/L
Ical 2	J.T.Baker	0000184592	06/14/19	0.25	25mL	Deionized water	2mg/L
Ical 3	J.T.Baker	0000184592	06/14/19	0.5	25mL	Deionized water	4mg/L
Ical 4	J.T.Baker	0000184592	06/14/19	0.625	25mL	Deionized water	5mg/L
Ical 5	J.T.Baker	0000184592	06/14/19	1.25	25mL	Deionized water	10mg/L
ICV	Mallinckrodt	Lot 5056 KDRX	06/14/19	0.375	25mL	Deionized water	3mg/L
Reagent Prep							
Reagent	Chemical Lot #	Chemical	Chemical Expiration Date	Amount	Date Prep		
Colorizer	0747C107	1,10-phenanthroline	na	0.207	07/26/19		
		10% HCL conc	na	enough to dissolve	01/15/19		
Buffer	Z288018	Ammonia Acetate	na	249.2	06/28/19		
		2018071399	Glacial Acetic Acid	06/27/20	700mL		

Nitrite

High Point @ 1.5 mg/L

0.2463 mL NO₂ Inorganic Ventures lot N2-NOX672889-40759 exp: 05/01/20
50 mL DI Water

CCV @ 0.75 mg/L

0.1232 mL NO₂ Inorganic Ventures lot N2-NOX672889-40759 exp: 05/01/20
50 mL DI Water

ICV/LCS @ 0.73 mg/L

0.120 mL NO₂ Inorganic Ventures lot M2-NOX660562-39802 exp: 10/23/19
50 mL DI Water

1 mg/L NO₂

400 uL of High point and 200 uL of DI made directly into a sample cup

Prep 07/26/19

Exp 08/02/19

EV

Nitrate/TOXN

High Point @ 6 mg/L

0.300 mL NO₃ O₂Si lot 880117-39577 exp: 2/21/20
50 mL DI Water

CCV @ 3.0 mg/L

0.150 mL NO₃ O₂Si lot 880117-39577 exp: 2/21/20
50 mL DI Water

ICV/LCS @ 3.0 mg/L

0.150 mL NO₃ Inorganic Ventures lot N2-NOX667147-39510 exp: 10/23/19
50 mL DI Water

1 mg/L NO₃

100 uL of High point and 500 uL of DI made directly into a sample cup

MS @ 0.73 mg/L NO₂ and 2.5 mg/L NO₃

0.120 mL NO₂ Inorganic Ventures lot M2-NOX660562-39802 exp: 10/23/19 and
0.125 mL NO₃ Inorganic Ventures lot N2-NOX667147-39510 exp: 10/23/19
Final volume 50 mL of sample

Prep 07/26/19

Exp 08/02/19

EV

EPA 353.2 Injection Log

Directory: I:\EVE\Export\2019\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	31 Jul 2019	17:08	Standard 1 TOXN/NO3		190731B NO	1.
2	31 Jul 2019	17:10	Standard 90 TOXN/NO3		190731B NO	1.
3	31 Jul 2019	17:12	Standard 91 TOXN/NO3		190731B NO	1.
4	31 Jul 2019	17:14	Standard 92 TOXN/NO3		190731B NO	1.
5	31 Jul 2019	17:17	Standard 93 TOXN/NO3		190731B NO	1.
6	31 Jul 2019	17:17	Standard 94 TOXN/NO3		190731B NO	1.
7	31 Jul 2019	17:18	Standard 0 TOXN/NO3		190731B NO	1.
10	31 Jul 2019	17:21	ICV NO3 TOXN		190731B NO	1.
11	31 Jul 2019	17:22	ICB NO2 NO3 TOXN		190731B NO	1.

EPA 353.2 Injection Log

Directory: I:\EVE\Export\2019\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
15	31 Jul 2019	18:20	CCV TOXN/NO3		190731B NO	1.
16	31 Jul 2019	18:22	CCB TOXN/NO3		190731B NO	1.
19	31 Jul 2019	18:29	190731A BLK TOXN/NO3		190731B NO	1.
20	31 Jul 2019	18:31	190731A LCS TOXN		190731B NO	1.
21	31 Jul 2019	18:34	190731A LCSD TOXN		190731B NO	1.
27	31 Jul 2019	18:47	CCV TOXN/NO3		190731B NO	1.
28	31 Jul 2019	18:50	CCB TOXN/NO3		190731B NO	1.
33	31 Jul 2019	18:57	AZ95419W06 TOXN/NO3		190731B NO	1.
34	31 Jul 2019	18:58	AZ95421W06 TOXN/NO3		190731B NO	1.
35	31 Jul 2019	18:59	AZ95423W06 TOXN/NO3		190731B NO	1.
38	31 Jul 2019	19:02	CCV TOXN/NO3		190731B NO	1.
39	31 Jul 2019	19:03	CCB TOXN/NO3		190731B NO	1.

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908 North Temperance Ave. ▽ Clovis, CA 93611 ▽ Phone 559-275-2175 ▽ Fax 559-275-4422

Certification Number: CA1312
NELAP Certification number: CA00046
DoD-ELAP Certificate number: 4064.01

Data Validatable Report

August 30, 2019

AECOM
1001 Bishop Street, Suite 1600
Honolulu, Hawaii 96813

Attn: Margie Pascua

Title: Report of Data: Case 89624

Project: 60571032 CV18F0126 Red Hill Fuel Storage. HI

Contract #: Prime contract # for DoD: NAVY CLEAN N62742-17-F-1800, CV18F0126
Subcontract: 18S-22209-HI27

Dear Ms. Pascua:

Four water samples were received July 26, 2019. Written results for the requested analyses are being provided on this August 30, 2019.

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

If you have any questions or require further information, please contact your APPL Project Manager, Libby Cheeseborough, libby@applinc.com, at your convenience. Thank you for choosing APPL, Inc.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC and DoD QSM. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

Paula McCartney, Laboratory Director
APPL, Inc.

PM/lac
Enclosure
cc: File

Data Validation Package
For

60481245 CIV 0053 Red Hill Fuel Storage
APPL SDG 89624

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CASE NARRATIVE

Case Narrative

ARF: 89624

Project: 60571032 CV18F0126 Red Hill Fuel Storage. HI

Sample Receipt Information:

Four water samples were received July 26, 2019, at 5.4°C and 3.4°C. The sample group was assigned Analytical Request Form (ARF) number 89624.

Sample Preparation and Analysis Information:

For the EPA 8015B analysis, the samples were extracted according to EPA method 3520C. The sample extracts were silica gel cleaned according to APPL's SOP CLN004 and placed on hold.

For the EPA 8270D SIM analysis, the samples were extracted according to EPA method 3520C.

For the EPA 8270D Phenol analysis, the samples were extracted according to EPA method 3520C.

For the APPL SOP ANA2MEE analysis, the samples were extracted according to EPA method 3535.

For the EPA 8260B analysis, the samples were purged according to EPA method 5030B.

For the RSK-175 analysis, the samples were allowed to equilibrate for 10 minutes at 40°C and a portion of the headspace was analyzed.

For the EPA 9060A, 300.0, 353.2, SM 2320B, and SM 3500FeB analyses, the samples were prepared according to the methods.

Only the portion of the injection log relative to these samples is included. A full sequence log is available upon request. Measurement uncertainty can be reported upon request.

Analytical Exceptions, Deviations and Abnormalities.

EPA 8270D Phenol: Manual integrations are performed in accordance with the SOP/ 2,4,6-tribromophenol was manually integrated in one CCV. Before and after chromatograms are included in the package.

APPL SOP ANA2MEE: Manual integrations are performed in accordance with the SOP/ 1,4-DCB was manually integrated in the ICAL and CCVs. Before and after chromatograms are included in the package.

qryCOC_APPLCaseNarrativeReport

SDG	Received	Client ID	APPL ID	Collected DateTime	Matrix	Method	Method Description
89624	07/26/19	ERH862	AZ95510	07/24/19 3:30:00 PM	WATER	EPA 8260B	EPA 8260B BTEX WATER
89624	07/26/19	ERH862	AZ95510	07/24/19 3:30:00 PM	WATER	EPA 8260-GAS	EPA 8260 with GAS
89624	07/26/19	ERH862	AZ95510	07/24/19 3:30:00 PM	WATER	EPA 8260B	EPA 8260B GRO WATER
89624	07/26/19	ERH862	AZ95510	07/24/19 3:30:00 PM	WATER	RSK 175	METHANE BY RSK 175
89624	07/26/19	ERH863	AZ95511	07/24/19 5:00:00 PM	WATER	SM 2320B	Wetlab 2320B - Water
89624	07/26/19	ERH863	AZ95511	07/24/19 5:00:00 PM	WATER	EPA 300.0	Wetlab 300.0 - Water
89624	07/26/19	ERH863	AZ95511	07/24/19 5:00:00 PM	WATER	SM3500FeB	Ferrous Iron
89624	07/26/19	ERH863	AZ95511	07/24/19 5:00:00 PM	WATER	EPA 353.2	EPA 353.2 - WATER
89624	07/26/19	ERH863	AZ95511	07/24/19 5:00:00 PM	WATER	EPA 8260B	EPA 8260B BTEX WATER
89624	07/26/19	ERH863	AZ95511	07/24/19 5:00:00 PM	WATER	EPA 8270D	EPA 8270D WATER
89624	07/26/19	ERH863	AZ95511	07/24/19 5:00:00 PM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER
89624	07/26/19	ERH863	AZ95511	07/24/19 5:00:00 PM	WATER	EPA 8015B-eLL	EPA 8015B TPH LIQ-LIQ
89624	07/26/19	ERH863	AZ95511	07/24/19 5:00:00 PM	WATER	EPA 8260-GAS	EPA 8260 with GAS
89624	07/26/19	ERH863	AZ95511	07/24/19 5:00:00 PM	WATER	EPA 8260B	EPA 8260B GRO WATER
89624	07/26/19	ERH863	AZ95511	07/24/19 5:00:00 PM	WATER	RSK 175	METHANE BY RSK 175
89624	07/26/19	ERH863	AZ95511	07/24/19 5:00:00 PM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ
89624	07/26/19	ERH863	AZ95511	07/24/19 5:00:00 PM	WATER	SW846 9060A	9060A TOC
89624	07/26/19	ERH866	AZ95512	07/25/19 8:10:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER
89624	07/26/19	ERH866	AZ95512	07/25/19 8:10:00 AM	WATER	EPA 8260-GAS	EPA 8260 with GAS
89624	07/26/19	ERH866	AZ95512	07/25/19 8:10:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER
89624	07/26/19	ERH866	AZ95512	07/25/19 8:10:00 AM	WATER	RSK 175	METHANE BY RSK 175
89624	07/26/19	ERH867	AZ95513	07/25/19 9:37:00 AM	WATER	SM 2320B	Wetlab 2320B - Water
89624	07/26/19	ERH867	AZ95513	07/25/19 9:37:00 AM	WATER	EPA 300.0	Wetlab 300.0 - Water
89624	07/26/19	ERH867	AZ95513	07/25/19 9:37:00 AM	WATER	SM3500FeB	Ferrous Iron
89624	07/26/19	ERH867	AZ95513	07/25/19 9:37:00 AM	WATER	EPA 353.2	EPA 353.2 - WATER
89624	07/26/19	ERH867	AZ95513	07/25/19 9:37:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER
89624	07/26/19	ERH867	AZ95513	07/25/19 9:37:00 AM	WATER	EPA 8270D	EPA 8270D WATER
89624	07/26/19	ERH867	AZ95513	07/25/19 9:37:00 AM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER
89624	07/26/19	ERH867	AZ95513	07/25/19 9:37:00 AM	WATER	EPA 8015B-eLL	EPA 8015B TPH LIQ-LIQ
89624	07/26/19	ERH867	AZ95513	07/25/19 9:37:00 AM	WATER	EPA 8260-GAS	EPA 8260 with GAS
89624	07/26/19	ERH867	AZ95513	07/25/19 9:37:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER
89624	07/26/19	ERH867	AZ95513	07/25/19 9:37:00 AM	WATER	RSK 175	METHANE BY RSK 175
89624	07/26/19	ERH867	AZ95513	07/25/19 9:37:00 AM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ
89624	07/26/19	ERH867	AZ95513	07/25/19 9:37:00 AM	WATER	SW846 9060A	9060A TOC

APPL Inc.
Abbreviations and Flags

FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
M11	Manual integration: integration does not follow baseline
M12	Manual integration: non-target peak interference
M13	Manual integration: to split a peak that was integrated as one peak by the computer.
M14	Manual integration: to integrate a split peak
M15	Manual integration: the whole peak or part of the peak was not integrated
M16	Manual integration: computer integrated wrong peak
M17	Manual integration: other – (See case narrative)
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, e.g. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, e.g. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, e.g. asphaltene, waste oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, e.g. asphaltene, waste oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel
U	Not detected
Y	Percent difference between primary and confirmation column > 40%

**SAMPLE RECORDS MANAGEMENT
CHAIN OF CUSTODY,
ARF, CRF, AND
CLIENT COMMUNICATION**

APPL - Analysis Request Form

89624

Client: AECOM
 Address: 1001 Bishop Street, Suite 1600
Honolulu, HI 96813
 Attn: Margie Pascua
 Phone: 808-356-5373 Fax: 808-523-8950
 Job: 60571032 CV18F0126 Red Hill Fuel Storage
 PO #: 18S-22209-HI27 PO# 102604
 Chain of Custody (Y/N): Y # 079,081
 RAD Screen (Y/N): Y pH (Y/N): Y
 Turn Around Type: 1 WEEK




Received by: AAR
 Date Received: 07/26/19 Time: 10:00
 Delivered by: FEDEX
 Shuttle Custody Seals (Y/N): Y Time Zone: -10
 Chest Temp(s): 5.4,3.4°C
 Color: VOA/C-Blk
 Samples Chilled until Placed in Refrig/Freezer: Y
 Project Manager: Libby Cheesebor
 QC Report Type: DVP4DOD/EQUIS/HI
 Due Date: 08/02/19

Comments:

PM: login and F1s to Margie.Pascua@aecom.com
AN: 7 day TAT for Form 1s; 21 day TAT for PKG STYLE 1; DOD v5.1; DOD Forms (LOQ/LOD database/DL)
8260: BTEX & TPH-G only; 8270 SIM: 1-methylnaphthalene, 2-methylnaphthalene & naphthalene only.
TPH D & O both with and w/o SGC, reverse surrogate for the SGC; analyze SGC if detections
RSK: Methane only; \$87DC53W5: report phenol ONLY; \$87DMEEW5: 2-MEE (LCS Spk 80ppb).

FR: HC to LDC, 2 labeled CDs to Margie Pascua.
EDD: AECOM EQUIS EDD 2.5.3 Red Hill 87DMEE->3535A to Margie.Pascua@aecom.com & jecklund@lab-data.com

<u>Sample Distribution:</u>	<u>Charges:</u>	<u>Invoice To:</u>
GC: 2-\$87DC53W5, 2-\$87DMEEW5, 2-\$DOC53W5LIQ, 2-\$SIM53LIQ51		ACCOUNTS PAYABLE
Extractions: 2- LIQ003, 2- LIQ005, 2- MWE2MEE		1001 Bishop Street, Ste 1600
VOA: 4-\$86BTOTXDOD5W, 4-\$GASBL, 4-\$GRO86BW, 4-\$RSKMETH		USAPImaging@aecom.com
Wetlab: 2-\$232W(HCO3,CO3,ALK), 2-\$300W(CL,SO4), 2-\$35FE, 2-\$35OF(NO3), 2-\$TOCW53		mary.basano@aecom.com

Client ID	APPL ID	Sampled	Analyses Requested
1. ERH862	AZ95510W LCSD 	07/24/19 15:30	\$86BTOTXDOD5W, \$GASBL, \$GRO86BW, \$RSKMETH -- see comments
2. ERH863	AZ95511W LCSD 	07/24/19 17:00	\$232W(HCO3,CO3,ALK), \$300W(CL,SO4), \$35FE, \$35OF(NO3), \$86BTOTXDOD5W, \$87DC53W5, \$87DMEEW5, \$DOC53W5LIQ, \$GASBL, \$GRO86BW, \$RSKMETH, \$SIM53LIQ51, \$TOCW53 -- see comments
3. ERH866	AZ95512W LCSD 	07/25/19 08:10	\$86BTOTXDOD5W, \$GASBL, \$GRO86BW, \$RSKMETH -- see comments

APPL - Analysis Request Form

89624

4. ERH867

LCSD

AZ95513W

07/25/19 09:37



\$232W(HCO3,CO3,ALK), \$300W(CL,SO4),
\$35FE, \$35OF(NO3), \$86BTOTXDOD5W,
\$87DC53W5, \$87DMEEW5, \$DOC53W5LIQ,
\$GASBL, \$GRO86BW, \$RSKMETH,
\$SIM53LIQ51, \$TOCW53 -- see comments

Note: All times, excluding sample collection times, are Pacific Time Zone unless noted otherwise. Collection times are in: -10 UTC

APPL Sample Receipt Form

ARF# 89624

Sample	Container Type	Count	p
AZ95510	¹³ VOAs - HCL	4	NA
AZ95511	³ PL 250mL	1	NA
	¹⁰ PL 250mL - H2SO4	1	1.7
	¹³ VOAs - HCL	4	NA
	¹⁷ Amber Liter	5	NA
	³² Clear VOA - H2SO4	2	NA
	³⁸ 250mL brn poly, HCl prsvd	1	1.7
	⁴⁰ 500mL Amber, unprsvd	2	NA
AZ95512	¹³ VOAs - HCL	4	NA
AZ95513	³ PL 250mL	1	NA
	¹⁰ PL 250mL - H2SO4	1	1.7
	¹³ VOAs - HCL	4	NA
	¹⁷ Amber Liter	5	NA
	³² Clear VOA - H2SO4	2	NA
	³⁸ 250mL brn poly, HCl prsvd	1	1.7
	⁴⁰ 500mL Amber, unprsvd	2	NA

Sample Container Type Count p



APPL, Inc.
908 N Temperance Ave
Clovis, CA 93611
www.applinc.com

CHAIN OF CUSTODY RECORD

Phone: (559) 275-2175
Fax: (559) 275-4422
coc@applinc.com

C.O.C. 079

Report to: PLEASE PRINT
Company Name: AECOM Phone: 808-356-5373
Address: 1001 Bishop St, Suite 1600
Honolulu, HI 96813 Fax: 808-523-8950
Attn: Margie Pascua
Email: margie.pascua@aecom.com

Invoice to: PLEASE PRINT
Company Name: AECOM Phone: 808-529-7249
Address: 1001 Bishop St, Suite 1600
Honolulu, HI 96813 Fax: 808-523-8950
Attn: Mary Basano
Email: mary.basano@aecom.com; usapimaging@aecom.com

Project Name/Number CV18F0126 / 60571032			Sampler (Print) GM, RS, TV			Analysis Requested/Method Number																	Date Shipped: <u>7/25/19</u>									
Purchase Order Number 102604			Sampler (Signature) MP for GM, RS, TV																				Carrier: FedEx									
Sample Identification			Location		Date Collected	Time Collected	Time Zone	No. of Containers	Aq	Sed.	Soil	8260C BTEX, TPH-g	8260C DCA	8011 EDB	8015C TPH-d/o	3630/8015C TPH-dic w/ SGT	8270DSIM PAHs short list	8270D Phenol, PIC	8270D 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane	SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N	SM2320B Alkalinity	900.0 Nitrate Sulfate, Chloride	9000 Total Ammonia Nitrogen	9060A TOC	Waybill No.:		Comments:			
ERH 862	Trip Blank		7/24	15:30	HST	4	X				X					X			X													
ERH 863	RHWIOW Trip blank		7/24	17:00	HST	16	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X				X		No analysis on metals container volume		
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5; font-size: 40px;"> MN 7/25 </div>																																
Shuttle Temperature:			Turnaround Requested: Check one <input type="checkbox"/> Standard 2-3 wk <input checked="" type="checkbox"/> One week <input type="checkbox"/> 3 days <input type="checkbox"/> 24/48 Hrs. <input type="checkbox"/> Other:														Sample Disposal: <input type="checkbox"/> Return to client <input checked="" type="checkbox"/> Disposal by Lab (30-day retention)															
Relinquished by sampler: AECOM			Date	Time	Received by:		Relinquished by:		Date	Time	Received by:		Relinquished by:			Date	Time	Received at lab by:														
Morgan Donahue			7/25	15:00												7/26/19	1000															



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CHAIN OF CUSTODY RECORD

C.O.C. 081

89624

Report to: <u>PLEASE PRINT</u>	Invoice to: <u>PLEASE PRINT</u>
Company Name: <u>AECOM</u> Phone: <u>808-356-5373</u>	Company Name: <u>AECOM</u> Phone: <u>808-529-7249</u>
Address: <u>1001 Bishop St, Suite 1600</u> <u>Honolulu, HI 96813</u> Fax: <u>808-523-8950</u>	Address: <u>1001 Bishop St, Suite 1600</u> <u>Honolulu, HI 96813</u> Fax: <u>808-523-8950</u>
Attn: <u>Margie Pascua</u>	Attn: <u>Mary Basano</u>
Email: <u>margie.pascua@aecom.com</u>	Email: <u>mary.basano@aecom.com; usapimaging@aecom.com</u>

Project Name/Number	Sampler (Print)	Analysis Requested/Method Number													Date Shipped: <u>7/25/19</u>								
		Matrix			8260C BTEX, TPH-g	8260C DCA	8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/o w/ SGT	8270DSM PAHs short list	8270D Phenol, ^{Hex}	8270D 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane	SM3500-Fe Ferrous Iron		353.2 Nitrate-Nitrite N	SM2320B Alkalinity	300.0 Nitrate, Sulfate, Chloride	9996-Barmide/Asbestos	8010 Total Organic Carbon	SM4500-selec Chlorophyll ^{Ward}	9060A TOC	Carrier: <u>FedEx</u>
Purchase Order Number	Sampler (Signature)	No. of Containers	Aq	Sed.	Soil																	Waybill No.:	Comments:
Sample Identification	Location	Date Collected	Time Collected	Time Zone																			
<u>ERH806</u>	<u>Trip Blank</u>	<u>7/25</u>	<u>08:10</u>	<u>HST</u>	<u>4</u>	X			X														
<u>ERH807</u>	<u>HOMW2253-03</u>	<u>7/25</u>	<u>09:37</u>	<u>HST</u>	<u>16</u>	X			X	X	X	X	X	X	X	X	X				X	<u>No analysis on metals container volume.</u>	
<u>MD 7/25</u>																							

Shuttle Temperature: <u>R3: 5.0/5.4, 3.0/3.4</u>	Turnaround Requested: Check one <input type="checkbox"/> Standard 2-3 wk <input checked="" type="checkbox"/> One week <input type="checkbox"/> 3 days <input type="checkbox"/> 24/48 Hrs. <input type="checkbox"/> Other: _____	Sample Disposal: <input type="checkbox"/> Return to client <input checked="" type="checkbox"/> Disposal by Lab (30-day retention)
Relinquished by sampler: <u>AECOM</u>	Date: <u>7/25</u> Time: <u>15:00</u>	Relinquished by: _____ Date: _____
Relinquished by: _____	Date: _____ Time: _____	Received by: _____ Date: <u>7/26/19</u> Time: <u>1000</u>

COOLER RECEIPT FORM

ARF: 89624

1) Project: 60571032 CV18F0126 Red Hill Fuel Storage Date Received: 07/26/19

2) Coolers: Number of Coolers: 2

3) YES Were custody seals present and intact? How many? 4 Name/Date on seal? see below

4) YES Was there a shipping slip? Carrier name: FEDEX

5) Type of packing in cooler: X bubble wrap popcorn foam X plastic bags other X wet ice dry ice no ice gel ice

6) No Were cooler temperatures acceptable?

7) Serial number of certified NIST thermometer use R3 CF: +0.4°C

8) Cooler temp(s): In °C. Thermometer Temp / Corrected Temp 1: 5.0/5.4 2: 3.0/3.4 3: 4: 5: 6: 7: 8: 9: 10: 11: 12:

Chain of custody:

9) YES Was a chain of custody received?

10) YES Were the custody papers complete/signed in the appropriate places?

Sample Labels:

11) YES Were all sample labels complete (sample ID, date/time of sampling, etc.)?

12) YES Did all container labels agree with custody papers?

Sample Containers:

13) YES Were all containers sealed in separate bags?

14) YES Did all containers arrive in good condition:(unbroken, no leakage, no cracked/broken lids)?

15) YES Were correct containers and preservatives used for the tests indicated?

16) YES Was a sufficient amount of sample sent for tests indicated?

17) Yes Were bubbles present in volatile samples? If yes, the following were received with air bubbles: Larger than a pea: Smaller than a pea: AZ9511W01-04, AZ95513W04

Preservation Hold time:

18) Yes Was a sufficient amount of holding time remaining to analyze the samples?

19) Yes Was the pH taken of all non-VOA preserved samples and written on the sample container?

20) Yes Was the pH of acid preserved non-VOA samples < 2?

21) NA Was the pH of sodium hydroxide preserved samples for Cyanide > 12 and Sulfide >9?

22) NO Were unpreserved VOA Vials received?

23) NA Are unpreserved VOA vials noted in the ADD TEST FIELD on the ARF?

pH strip lot number: 90B2031 Lab notified if pH was not adequate:

Notes/Deficiencies:

CUSTODY SEAL

AECOM (808) 521-3051

Initials MD Date 7/25

Personnel receiving samples: AA Personnel labeling samples: BP Project manager notified: AA Name of client notified:

Second reviewer: Date/Time of notification 07/26/19 Date/Time of notification

SAMPLE RESULTS

EPA 8015B TPH LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH863
Sample Collection Date: 07/24/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89624
APPL ID: AZ95511
QCG: #DOC53-190731A-243251

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-eL	DIESEL (C10-C24)	25.00 U	40.0	25.00	13.07	ug/L	07/31/19	08/05/19
EPA 8015B-eL	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	07/31/19	08/05/19
EPA 8015B-eL	SURROGATE: OCTACOSANE (S)	101	60-142			%	07/31/19	08/05/19
EPA 8015B-eL	SURROGATE: ORTHO-TERPHENYL (S)	81.4	56-125			%	07/31/19	08/05/19

Quant Method: DOC0617.M
Run #: 801027
Instrument: Apollo
Sequence: 190801
Dilution Factor: 1
Initials: BTI

Printed: 08/08/19 5:37:04 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH867

Sample Collection Date: 07/25/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89624

APPL ID: AZ95513

QCG: #DOC53-190731A-243251

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-eL	DIESEL (C10-C24)	25.00 U	40.0	25.00	13.07	ug/L	07/31/19	08/05/19
EPA 8015B-eL	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	07/31/19	08/05/19
EPA 8015B-eL	SURROGATE: OCTACOSANE (S)	99.7	60-142			%	07/31/19	08/05/19
EPA 8015B-eL	SURROGATE: ORTHO-TERPHENYL (S)	83.5	56-125			%	07/31/19	08/05/19

Quant Method: DOC0617.M
Run #: 801028
Instrument: Apollo
Sequence: 190801
Dilution Factor: 1
Initials: BTI

Printed: 08/08/19 5:37:04 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89624

Sample ID: ERH863

APPL ID: AZ95511

Sample Collection Date: 07/24/19

QCG: #SIM53-190729A-242896

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/29/19	07/31/19
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/29/19	07/31/19
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/29/19	07/31/19
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	102	39-114			%	07/29/19	07/31/19
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	112	58-120			%	07/29/19	07/31/19

Quant Method: Y0717P.M
Run #: 0717Y315
Instrument: Yoda
Sequence: Y190717P
Dilution Factor: 1
Initials: MA

Printed: 08/01/19 11:02:25 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89624

Sample ID: ERH867

APPL ID: AZ95513

Sample Collection Date: 07/25/19

QCG: #SIM53-190729A-242896

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/29/19	07/31/19
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/29/19	07/31/19
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/29/19	07/31/19
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	92.5	39-114			%	07/29/19	07/31/19
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	106	58-120			%	07/29/19	07/31/19

Quant Method: Y0717P.M
Run #: 0717Y316
Instrument: Yoda
Sequence: Y190717P
Dilution Factor: 1
Initials: MA

Printed: 08/01/19 11:02:25 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH863

Sample Collection Date: 07/24/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89624

APPL ID: AZ95511

QCG: #87DC5-190729A-242929

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	07/29/19	08/01/19
EPA 8270D	SURROGATE: 2,4,6-TRIBROMOPHENO	88.3	43-140			%	07/29/19	08/01/19
EPA 8270D	SURROGATE: 2-FLUORBIPHENYL (S)	77.2	44-119			%	07/29/19	08/01/19
EPA 8270D	SURROGATE: 2-FLUOROPHENOL (S)	77.0	19-119			%	07/29/19	08/01/19
EPA 8270D	SURROGATE: NITROBENZENE-D5 (S)	78.3	44-120			%	07/29/19	08/01/19
EPA 8270D	SURROGATE: PHENOL-D6 (S)	79.1	10-115			%	07/29/19	08/01/19
EPA 8270D	SURROGATE: TERPHENYL-D14 (S)	67.8	50-134			%	07/29/19	08/01/19

Quant Method: Y0722NC.M
Run #: 0722Y165
Instrument: Yoda
Sequence: Y190722
Dilution Factor: 1
Initials: JPR

Printed: 08/08/19 9:31:18 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH867

Sample Collection Date: 07/25/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89624

APPL ID: AZ95513

QCG: #87DC5-190729A-242929

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	07/29/19	08/01/19
EPA 8270D	SURROGATE: 2,4,6-TRIBROMOPHENO	86.6	43-140			%	07/29/19	08/01/19
EPA 8270D	SURROGATE: 2-FLUORBIPHENYL (S)	76.3	44-119			%	07/29/19	08/01/19
EPA 8270D	SURROGATE: 2-FLUOROPHENOL (S)	69.2	19-119			%	07/29/19	08/01/19
EPA 8270D	SURROGATE: NITROBENZENE-D5 (S)	74.7	44-120			%	07/29/19	08/01/19
EPA 8270D	SURROGATE: PHENOL-D6 (S)	73.0	10-115			%	07/29/19	08/01/19
EPA 8270D	SURROGATE: TERPHENYL-D14 (S)	67.6	50-134			%	07/29/19	08/01/19

Quant Method: Y0722NC.M
Run #: 0722Y166
Instrument: Yoda
Sequence: Y190722
Dilution Factor: 1
Initials: JPR

Printed: 08/08/19 9:31:18 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D MODIFIED WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH863

Sample Collection Date: 07/24/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89624

APPL ID: AZ95511

QCG: #87DME-190730A-242964

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	80.0 U	100	80.0	40.0	ug/L	07/30/19	08/01/19

Quant Method: LMEE0430.M Run #: 0730L037 Instrument: Linus Sequence: L190730M Dilution Factor: 1 Initials: MA
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Printed: 08/02/19 3:16:48 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D MODIFIED WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89624
APPL ID: **AZ95513**
QCG: #87DME-190730A-242964

Sample ID: ERH867

Sample Collection Date: 07/25/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	80.0 U	100	80.0	40.0	ug/L	07/30/19	08/01/19

Quant Method: LMEE0430.M
Run #: 0730L038
Instrument: Linus
Sequence: L190730M
Dilution Factor: 1
Initials: MA

Printed: 08/02/19 3:16:48 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH862

Sample Collection Date: 07/24/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89624

APPL ID: AZ95510

QCG: #86BTO-190730BL-242893

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	07/31/19	07/31/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	07/31/19	07/31/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	07/31/19	07/31/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	07/31/19	07/31/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	97.6	81-118			%	07/31/19	07/31/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	96.0	85-114			%	07/31/19	07/31/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	99.2	80-119			%	07/31/19	07/31/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	101	89-112			%	07/31/19	07/31/19

Quant Method: L0724W.M
Run #: 0730L53
Instrument: Loki
Sequence: 190730
Dilution Factor: 1
Initials: DPO

Printed: 08/01/19 9:34:40 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89624

Sample ID: ERH863

APPL ID: AZ95511

Sample Collection Date: 07/24/19

QCG: #86BTO-190730BL-242893

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	07/31/19	07/31/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	07/31/19	07/31/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	07/31/19	07/31/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	07/31/19	07/31/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	96.3	81-118			%	07/31/19	07/31/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	98.0	85-114			%	07/31/19	07/31/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	96.4	80-119			%	07/31/19	07/31/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	101	89-112			%	07/31/19	07/31/19

Quant Method: L0724W.M
Run #: 0730L54
Instrument: Loki
Sequence: 190730
Dilution Factor: 1
Initials: DPO

Printed: 08/01/19 9:34:40 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH866

Sample Collection Date: 07/25/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89624

APPL ID: AZ95512

QCG: #86BTO-190730BL-242893

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	07/31/19	07/31/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	07/31/19	07/31/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	07/31/19	07/31/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	07/31/19	07/31/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	93.5	81-118			%	07/31/19	07/31/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	95.2	85-114			%	07/31/19	07/31/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	95.5	80-119			%	07/31/19	07/31/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	97.9	89-112			%	07/31/19	07/31/19

Quant Method: L0724W.M
Run #: 0730L55
Instrument: Loki
Sequence: 190730
Dilution Factor: 1
Initials: DPO

Printed: 08/01/19 9:34:40 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH867

Sample Collection Date: 07/25/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89624

APPL ID: AZ95513

QCG: #86BTO-190730BL-242893

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	07/31/19	07/31/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	07/31/19	07/31/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	07/31/19	07/31/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	07/31/19	07/31/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	101	81-118			%	07/31/19	07/31/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	97.8	85-114			%	07/31/19	07/31/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	103	80-119			%	07/31/19	07/31/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	98.4	89-112			%	07/31/19	07/31/19

Quant Method: L0724W.M
Run #: 0730L56
Instrument: Loki
Sequence: 190730
Dilution Factor: 1
Initials: DPO

Printed: 08/01/19 9:34:40 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH862

Sample Collection Date: 07/24/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89624

APPL ID: AZ95510

QCG: #GRO86-190730BL-242894

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	07/31/19	07/31/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	96.0	85-114			%	07/31/19	07/31/19

Quant Method: LGAS716.M
Run #: 0730L53
Instrument: Loki
Sequence: 190730
Dilution Factor: 1
Initials: DPO

Printed: 08/01/19 9:35:12 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH863

Sample Collection Date: 07/24/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89624

APPL ID: AZ95511

QCG: #GRO86-190730BL-242894

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	07/31/19	07/31/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	98.0	85-114			%	07/31/19	07/31/19

Quant Method: LGAS716.M
Run #: 0730L54
Instrument: Loki
Sequence: 190730
Dilution Factor: 1
Initials: DPO

Printed: 08/01/19 9:35:12 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH866

Sample Collection Date: 07/25/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89624

APPL ID: AZ95512

QCG: #GRO86-190730BL-242894

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	07/31/19	07/31/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	95.2	85-114			%	07/31/19	07/31/19

Quant Method: LGAS716.M
Run #: 0730L55
Instrument: Loki
Sequence: 190730
Dilution Factor: 1
Initials: DPO

Printed: 08/01/19 9:35:12 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH867

Sample Collection Date: 07/25/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89624

APPL ID: AZ95513

QCG: #GRO86-190730BL-242894

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	07/31/19	07/31/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	97.8	85-114			%	07/31/19	07/31/19

Quant Method: LGAS716.M
Run #: 0730L56
Instrument: Loki
Sequence: 190730
Dilution Factor: 1
Initials: DPO

Printed: 08/01/19 9:35:12 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH862

Sample Collection Date: 07/24/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89624

APPL ID: AZ95510

QCG: #RSKME-190730A-242833

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	07/30/19	07/30/19

Quant Method: RSK0618.M
Run #: 19073021
Instrument: Rocky
Sequence: 190618
Dilution Factor: 1
Initials: CMO

Printed: 07/30/19 4:23:05 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH863

Sample Collection Date: 07/24/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89624

APPL ID: AZ95511

QCG: #RSKME-190730A-242833

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	07/30/19	07/30/19

Quant Method: RSK0618.M
Run #: 19073022
Instrument: Rocky
Sequence: 190618
Dilution Factor: 1
Initials: CMO

Printed: 07/30/19 4:23:05 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH866

Sample Collection Date: 07/25/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89624

APPL ID: AZ95512

QCG: #RSKME-190730A-242833

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	07/30/19	07/30/19

Quant Method: RSK0618.M
Run #: 19073023
Instrument: Rocky
Sequence: 190618
Dilution Factor: 1
Initials: CMO

Printed: 07/30/19 4:23:05 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH867

Sample Collection Date: 07/25/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89624

APPL ID: AZ95513

QCG: #RSKME-190730A-242833

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	07/30/19	07/30/19

Quant Method: RSK0618.M
Run #: 19073024
Instrument: Rocky
Sequence: 190618
Dilution Factor: 1
Initials: CMO

Printed: 07/30/19 4:23:05 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH863

Sample Collection Date: 07/24/19

APPL ID: AZ95511

ARF: 89624

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 300.0	CHLORIDE	41.8	1.0	0.20	0.08	mg/L	1	08/03/19	08/03/19
EPA 300.0	NITRATE-N	0.54	0.2	0.04	0.01	mg/L	1	08/03/19	08/03/19
EPA 300.0	SULFATE	6.8	1.0	0.20	0.09	mg/L	1	08/03/19	08/03/19

Printed: 08/16/19 3:47:50 PM

APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH867

Sample Collection Date: 07/25/19

APPL ID: AZ95513

ARF: 89624

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 300.0	CHLORIDE	87.2	2.0	0.40	0.16	mg/L	2	08/15/19	08/15/19
EPA 300.0	NITRATE-N	0.35	0.2	0.04	0.01	mg/L	1	08/03/19	08/03/19
EPA 300.0	SULFATE	28.5	1.0	0.20	0.09	mg/L	1	08/03/19	08/03/19

Amended Results.

Printed: 09/19/19 4:45:07 PM

APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH863

Sample Collection Date: 07/24/19

APPL ID: AZ95511

ARF: 89624

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 353.2	NITRATE-NITRITE-N	0.39	0.10	0.090	0.028	mg/L	1	07/31/19	07/31/19
SM 2320B	BICARBONATE AS CaCO ₃	64.0	2.0	1.70	0.85	mg/L	1	08/01/19	08/01/19
SM 2320B	CARBONATE AS CaCO ₃	1.70 U	2.0	1.70	0.85	mg/L	1	08/01/19	08/01/19
SM 2320B	TOTAL ALKALINITY AS CaCO ₃	64.0	2.0	1.70	0.85	mg/L	1	08/01/19	08/01/19
SM3500FeB	FERROUS IRON	0.32 U	1.0	0.32	0.16	mg/L	1	07/27/19	07/27/19
SW846 9060A	TOTAL ORGANIC CARBON	0.35 J	0.93	0.350	0.130	mg/L	1	08/05/19	08/06/19

J = Estimated value.

Printed: 08/16/19 3:44:11 PM

APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH867

Sample Collection Date: 07/25/19

APPL ID: AZ95513

ARF: 89624

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 353.2	NITRATE-NITRITE-N	0.16	0.10	0.090	0.028	mg/L	1	07/31/19	07/31/19
SM 2320B	BICARBONATE AS CaCO ₃	46.3	2.0	1.70	0.85	mg/L	1	08/01/19	08/01/19
SM 2320B	CARBONATE AS CaCO ₃	1.70 U	2.0	1.70	0.85	mg/L	1	08/01/19	08/01/19
SM 2320B	TOTAL ALKALINITY AS CaCO ₃	46.3	2.0	1.70	0.85	mg/L	1	08/01/19	08/01/19
SM3500FeB	FERROUS IRON	0.85 J	1.0	0.32	0.16	mg/L	1	07/27/19	07/27/19
SW846 9060A	TOTAL ORGANIC CARBON	0.37 J	0.93	0.350	0.130	mg/L	1	08/05/19	08/06/19

J = Estimated value.

Printed: 08/16/19 3:44:11 PM

APPL-F1-SC-NoMC-REG MDLs

QC FORMS

EPA 8015B-eLL

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89624

Case No: 89624

Date Analyzed: 08/05/19

Matrix: WATER

Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: OCTACOSANE (S)			SURROGATE: ORTHO-TERPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190731A-BLK	Blank	60-142	98.2		56-125	84.7	
190731A-LCS	Lab Control Spike	60-142	119		56-125	100	
190731A-LCSD	Lab Control SpikeD	60-142	108		56-125	98.5	
AZ95511	ERH863	60-142	101		56-125	81.4	
AZ95513	ERH867	60-142	99.7		56-125	83.5	

Comments: Batch: #DOC53-190731A

Printed: 08/08/19 5:36:42 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8015B-eL

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89624

Case No: 89624

Date Analyzed: 08/05/19

Matrix: WATER

Instrument: Apollo

Blank ID: 190731A-BLK

Time Analyzed: 0956

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190731A-BLK	Blank	801024	08/05/19 0956
190731A-LCS	Lab Control Spike	801025	08/05/19 1015
190731A-LCSD	Lab Control SpikeD	801026	08/05/19 1035
AZ95511	ERH863	801027	08/05/19 1055
AZ95513	ERH867	801028	08/05/19 1115

Comments: Batch: #DOC53-190731A

Method Blank
EPA 8015B TPH LIQ-LIQ

Blank Name/QCG: **190731W-95511 - 243251**
Batch ID: #DOC53-190731A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	DIESEL (C10-C24)	25.00 U	40.0	25.00	13.07	ug/L	07/31/19	08/05/19
BLANK	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	07/31/19	08/05/19
BLANK	SURROGATE: OCTACOSANE (S)	98.2	60-142			%	07/31/19	08/05/19
BLANK	SURROGATE: ORTHO-TERPHEN	84.7	56-125			%	07/31/19	08/05/19

Quant Method: DOC0617.M
Run #: 801024
Instrument: Apollo
Sequence: 190801
Initials: BTI

GC SC-Blank-REG MDLs-DOD
Printed: 08/08/19 5:36:42 PM

EPA 8015B-eL

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89624

Case No: 89624

Date Analyzed: 08/05/19

Matrix: WATER

Instrument: Apollo

LCS ID: 190731A-LCS

Time Analyzed: 1015

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190731A-BLK	Blank	801024	08/05/19 0956
190731A-LCS	Lab Control Spike	801025	08/05/19 1015
190731A-LCSD	Lab Control Spiked	801026	08/05/19 1035
AZ95511	ERH863	801027	08/05/19 1055
AZ95513	ERH867	801028	08/05/19 1115

Comments: Batch: #DOC53-190731A

Laboratory Control Spike Recoveries

EPA 8015B TPH LIQ-LIQ

APPL ID: 190731W-95511 LCS - 243251
 Batch ID: #DOC53-190731A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
DIESEL (C10-C24)	1250	1110	1100	88.8	88.0	36-132	0.90	30
OIL (C24-C40)	1250	1160	1190	92.8	95.2	41-113	2.6	30
SURROGATE: OCTACOSANE (S)	75.0	89.0	81.2	119	108	60-142		
SURROGATE: ORTHO-TERPHENYL (S)	75.0	75.1	73.9	100	98.5	56-125		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	DOC0617.M	DOC0617.M
Extraction Date :	07/31/19	07/31/19
Analysis Date :	08/05/19	08/05/19
Instrument :	Apollo	Apollo
Run :	801025	801026
Initials :	BTI	

8270D-SIM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89624

Case No: 89624

Date Analyzed: 07/31/19

Matrix: WATER

Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: 2-METHYLNAPHTHALENE-D10 (S)			SURROGATE: FLUORANTHENE-D10 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190729A-BLK	Blank	39-114	92.1		58-120	99.4	
190729A-LCS	Lab Control Spike	39-114	92.0		58-120	109	
190729A-LCSD	Lab Control SpikeD	39-114	92.2		58-120	108	
AZ95511	ERH863	39-114	102		58-120	112	
AZ95513	ERH867	39-114	92.5		58-120	106	

Comments: Batch: #SIM53-190729A

Printed: 08/01/19 11:02:28 AM
Form 2 & 8, Surrogate Recovery Summary

8270D-SIM

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89624

Case No: 89624

Date Analyzed: 07/31/19

Matrix: WATER

Instrument: Yoda

Blank ID: 190729A-BLK

Time Analyzed: 1652

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190729A-BLK	Blank	0717Y309	07/31/19 1652
190729A-LCS	Lab Control Spike	0717Y310	07/31/19 1715
190729A-LCSD	Lab Control Spiked	0717Y311	07/31/19 1739
AZ95511	ERH863	0717Y315	07/31/19 1912
AZ95513	ERH867	0717Y316	07/31/19 1935

Comments: Batch: #SIM53-190729A

Printed: 08/01/19 11:02:29 AM
Form 4, Blank Summary

Method Blank
EPA 8270D SIM LIQ-LIQ

Blank Name/QCG: **190729W-95419 - 242896**
Batch ID: #SIM53-190729A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/29/19	07/31/19
BLANK	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/29/19	07/31/19
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	07/29/19	07/31/19
BLANK	SURROGATE: 2-METHYLNAPHT	92.1	39-114			%	07/29/19	07/31/19
BLANK	SURROGATE: FLUORANTHENE-	99.4	58-120			%	07/29/19	07/31/19

Quant Method: Y0717P.M
Run #: 0717Y309
Instrument: Yoda
Sequence: Y190717P
Initials: MA

GC SC-Blank-REG MDLs-DOD
Printed: 08/01/19 11:02:24 AM

8270D-SIM

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89624

Case No: 89624

Date Analyzed: 07/31/19

Matrix: WATER

Instrument: Yoda

LCS ID: 190729A-LCS

Time Analyzed: 1715

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190729A-BLK	Blank	0717Y309	07/31/19 1652
190729A-LCS	Lab Control Spike	0717Y310	07/31/19 1715
190729A-LCSD	Lab Control Spiked	0717Y311	07/31/19 1739
AZ95511	ERH863	0717Y315	07/31/19 1912
AZ95513	ERH867	0717Y316	07/31/19 1935

Comments: Batch: #SIM53-190729A

Printed: 08/01/19 11:02:30 AM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8270D SIM LIQ-LIQ

APPL ID: 190729W-95419 LCS - 242896
 Batch ID: #SIM53-190729A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1-METHYLNAPHTHALENE	6.25	3.44	3.37	55.0	53.9	41-115	2.1	20
2-METHYLNAPHTHALENE	6.25	4.24	4.16	67.8	66.6	39-114	1.9	20
NAPHTHALENE	6.25	3.74	3.65	59.8	58.4	43-114	2.4	20
<hr/>								
SURROGATE: 2-METHYLNAPHTHALEN	6.25	5.75	5.76	92.0	92.2	39-114		
SURROGATE: FLUORANTHENE-D10 (S)	6.25	6.84	6.77	109	108	58-120		
<hr/>								

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	Y0717P.M	Y0717P.M
Extraction Date :	07/29/19	07/29/19
Analysis Date :	07/31/19	07/31/19
Instrument :	Yoda	Yoda
Run :	0717Y310	0717Y311
Initials :	MA	

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: _____
 Matrix: Soil
 ID: 0717Y002.D

SDG No: _____
 Date Analyzed: 07/17/19
 Instrument: Yoda
 Time Analyzed: 9:34

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	0.1 SIM 07/10/19	0717Y003.D	07/17/19 9:51
2	0.2 SIM 07/10/19	0717Y004.D	07/17/19 10:14
3	0.5 SIM 07/10/19	0717Y005.D	07/17/19 10:38
4	1.0 SIM 07/10/19	0717Y006.D	07/17/19 11:01
5	5.0 SIM 07/10/19	0717Y007.D	07/17/19 11:25
6	10 SIM 07/10/19	0717Y008.D	07/17/19 11:48
7	50 SIM 07/10/19	0717Y009.D	07/17/19 12:11
8	100 SIM 07/10/19	0717Y010.D	07/17/19 12:35
9	SS SIM 07/10/19	0717Y012.D	07/17/19 13:32
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

m/e

51 10 - 80% of mass 198	<u>25.9</u>
68 0 - 2% of mass 69	<u>0.0</u>
70 0 - 2% of mass 69	<u>0.5</u>
127 10 - 80% of mass 198	<u>42.1</u>
197 0 - 2% of mass 198	<u>0.0</u>
198 100 - 100% of mass 198	<u>100.0</u>
199 5 - 9% of mass 198	<u>6.7</u>
275 10 - 60% of mass 198	<u>34.0</u>
365 1 - 100% of mass 198	<u>4.6</u>
441 0.01 - 24% of mass 442	<u>16.2</u>
442 50 - 500% of mass 198	<u>178.7</u>
443 17 - 23% of mass 442	<u>19.8</u>

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89607
 Lab File ID (Standard): 0717Y305.D Date Analyzed: 07/31/19
 Instrument ID: Yoda Time Analyzed: 14:49
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

	Napthalene-D8(IS)		Acenaphthene-D10(IS)		Phenanthrene-D10(IS)		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12 HOUR STD	58657	4.53	31984	6.66	63332	8.42	
UPPER LIMIT	117314	4.70	63968	6.83	126664	8.59	
LOWER LIMIT	29329	4.36	15992	6.49	31666	8.25	
SAMPLE NO.							
01	190729A BLK 1/800	64703	4.53	36203	6.68	74104	8.44
02	190729A LCS-2 1/800	63429	4.52	34007	6.66	67782	8.42
03	190729A LCSD-2 1/800	62289	4.52	32921	6.66	69173	8.41
04	AZ95419W08 1/800	59193	4.53	32767	6.66	67437	8.42
05	AZ95421W08 1/800	61206	4.52	33531	6.67	67492	8.43
06	AZ95423W10 1/800	61856	4.53	33426	6.66	68171	8.42
07	5.0 SIM 07/10/19 (1)	82076	4.53	43132	6.66	90418	8.41
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89607
 Lab File ID (Standard): 0717Y305.D Date Analyzed: 07/31/19
 Instrument ID: Yoda Time Analyzed: 14:49
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

	Chrysene-D12(IS)		Perylene-D12(IS)			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	87323	11.68	95940	14.21		
UPPER LIMIT	174646	11.85	191880	14.38		
LOWER LIMIT	43662	11.51	47970	14.04		
SAMPLE NO.						
01 190729A BLK 1/800	101497	11.70	111953	14.22		
02 190729A LCS-2 1/800	95613	11.68	103596	14.21		
03 190729A LCSD-2 1/800	92693	11.68	100080	14.21		
04 AZ95419W08 1/800	94603	11.69	101207	14.21		
05 AZ95421W08 1/800	95239	11.69	103086	14.21		
06 AZ95423W10 1/800	95478	11.69	104297	14.21		
07 5.0 SIM 07/10/19 (1)	123322	11.68	131754	14.21		
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

Data File Name: 0717Y304.D
Data File Path: M:\YODA\DATA\Y190717P\
Operator: MA,SS
Date Acquired: 31 Jul 2019 14:35
Method File: DFTPP2.M
Sample Name: SV TUNE 07/11/19
Vial Number: 4
Instrument Name: Yoda

#	Name	Ret Time	Target Response
1)	DDT	6.84	23629900
2)	DDD	6.63	925531
3)	DDE	6.69	0

Breakdown 3.77

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: 89607
 Matrix: Water
 ID: 0717Y304.D

SDG No: 89607
 Date Analyzed: 7/31/2019
 Instrument: Yoda
 Time Analyzed: 14:35

Client Sample No.	APPL ID.	File ID.	Date Analyzed	
1	Blank	190729A BLK 1/800	0717Y309.D	7/31/2019 16:52
2	Lab Control Spike	190729A LCS-2 1/800	0717Y310.D	7/31/2019 17:15
3	Lab Control SpikeD	190729A LCSD-2 1/800	0717Y311.D	7/31/2019 17:39
4	ERH844	AZ95419W08 1/800	0717Y312.D	7/31/2019 18:02
5	ERH861	AZ95421W08 1/800	0717Y313.D	7/31/2019 18:25
6	ERH865	AZ95423W10 1/800	0717Y314.D	7/31/2019 18:49
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17				
18				
19				
20				
21				
22				

m/e

51 10 - 80% of mass 198	24.3
68 0 - 2% of mass 69	0.0
70 0 - 2% of mass 69	0.6
127 10 - 80% of mass 198	41.9
197 0 - 2% of mass 198	0.0
198 100 - 100% of mass 198	100.0
199 5 - 9% of mass 198	6.7
275 10 - 60% of mass 198	34.1
365 1 - 100% of mass 198	4.6
441 0.01 - 24% of mass 442	16.4
442 50 - 500% of mass 198	208.8
443 17 - 23% of mass 442	19.6

EPA 8270D

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.
Case No: 89624
Matrix: WATER

SDG No: 89624
Date Analyzed: 08/01/19
Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: 2,4,6-TRIBROMOPHENOL (S)			SURROGATE: 2-FLUORBIPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190729A-BLK	Blank	43-140	92.6		44-119	81.0	
190729A-LCS	Lab Control Spike	43-140	98.4		44-119	81.6	
190729A-LCSD	Lab Control SpikeD	43-140	94.0		44-119	78.8	
AZ95511	ERH863	43-140	88.3		44-119	77.2	
AZ95513	ERH867	43-140	86.6		44-119	76.3	

Comments: Batch: #87DC5-190729A

Printed: 08/08/19 9:31:24 AM
Form 2 & 8, Surrogate Recovery Summary

EPA 8270D

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89624

Case No: 89624

Date Analyzed: 08/01/19

Matrix: WATER

Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: 2-FLUOROPHENOL (S)			SURROGATE: NITROBENZENE-D5 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190729A-BLK	Blank	19-119	83.0		44-120	88.1	
190729A-LCS	Lab Control Spike	19-119	91.6		44-120	91.2	
190729A-LCSD	Lab Control SpikeD	19-119	83.2		44-120	82.4	
AZ95511	ERH863	19-119	77.0		44-120	78.3	
AZ95513	ERH867	19-119	69.2		44-120	74.7	

Comments: Batch: #87DC5-190729A

Printed: 08/08/19 9:31:24 AM
Form 2 & 8, Surrogate Recovery Summary

EPA 8270D

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89624

Case No: 89624

Date Analyzed: 08/01/19

Matrix: WATER

Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: PHENOL-D6 (S)			SURROGATE: TERPHENYL-D14 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190729A-BLK	Blank	10-115	83.6		50-134	69.4	
190729A-LCS	Lab Control Spike	10-115	91.6		50-134	78.0	
190729A-LCSD	Lab Control SpikeD	10-115	83.2		50-134	75.0	
AZ95511	ERH863	10-115	79.1		50-134	67.8	
AZ95513	ERH867	10-115	73.0		50-134	67.6	

Comments: Batch: #87DC5-190729A

Printed: 08/08/19 9:31:24 AM
Form 2 & 8, Surrogate Recovery Summary

EPA 8270D

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89624

Case No: 89624

Date Analyzed: 08/01/19

Matrix: WATER

Instrument: Yoda

Blank ID: 190729A-BLK

Time Analyzed: 1042

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190729A-BLK	Blank	0722Y156	08/01/19 1042
190729A-LCS	Lab Control Spike	0722Y157	08/01/19 1110
190729A-LCSD	Lab Control SpikeD	0722Y158	08/01/19 1138
AZ95511	ERH863	0722Y165	08/01/19 1454
AZ95513	ERH867	0722Y166	08/01/19 1522

Comments: Batch: #87DC5-190729A

Printed: 08/08/19 9:31:29 AM
Form 4, Blank Summary

Method Blank
EPA 8270D WATER

Blank Name/QCG: **190729W-95419 - 242929**
Batch ID: #87DC5-190729A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	07/29/19	08/01/19
BLANK	SURROGATE: 2,4,6-TRIBROMOP	92.6	43-140			%	07/29/19	08/01/19
BLANK	SURROGATE: 2-FLUORBIPHENY	81.0	44-119			%	07/29/19	08/01/19
BLANK	SURROGATE: 2-FLUOROPHENO	83.0	19-119			%	07/29/19	08/01/19
BLANK	SURROGATE: NITROBENZENE-	88.1	44-120			%	07/29/19	08/01/19
BLANK	SURROGATE: PHENOL-D6 (S)	83.6	10-115			%	07/29/19	08/01/19
BLANK	SURROGATE: TERPHENYL-D14 (	69.4	50-134			%	07/29/19	08/01/19

Quant Method: Y0722NC.M
Run #: 0722Y156
Instrument: Yoda
Sequence: Y190722
Initials: JPR

GC SC-Blank-REG MDLs-DOD
Printed: 08/08/19 9:31:36 AM

EPA 8270D

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89624

Case No: 89624

Date Analyzed: 08/01/19

Matrix: WATER

Instrument: Yoda

LCS ID: 190729A-LCS

Time Analyzed: 1110

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190729A-BLK	Blank	0722Y156	08/01/19 1042
190729A-LCS	Lab Control Spike	0722Y157	08/01/19 1110
190729A-LCSD	Lab Control SpikeD	0722Y158	08/01/19 1138
AZ95511	ERH863	0722Y165	08/01/19 1454
AZ95513	ERH867	0722Y166	08/01/19 1522

Comments: Batch: #87DC5-190729A

Printed: 08/08/19 9:31:42 AM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8270D WATER

APPL ID: 190729W-95419 LCS - 242929
 Batch ID: #87DC5-190729A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
PHENOL	62.5	61.9	55.8	99.0	89.3	10-115	10.4	20
SURROGATE: 2,4,6-TRIBROMOPHENOL	250	246	235	98.4	94.0	43-140		
SURROGATE: 2-FLUORBIPHENYL (S)	125	102	98.5	81.6	78.8	44-119		
SURROGATE: 2-FLUOROPHENOL (S)	250	229	208	91.6	83.2	19-119		
SURROGATE: NITROBENZENE-D5 (S)	125	114	103	91.2	82.4	44-120		
SURROGATE: PHENOL-D6 (S)	250	229	208	91.6	83.2	10-115		
SURROGATE: TERPHENYL-D14 (S)	125	97.5	93.7	78.0	75.0	50-134		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	Y0722NC.M	Y0722NC.M
Extraction Date :	07/29/19	07/29/19
Analysis Date :	08/01/19	08/01/19
Instrument :	Yoda	Yoda
Run :	0722Y157	0722Y158
Initials :	JPR	

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: _____
 Matrix: Soil
 ID: 0722Y002.D

SDG No: _____
 Date Analyzed: 07/22/19
 Instrument: Yoda
 Time Analyzed: 13:46

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	4ug/ml 8270 07/12/19	0722Y003.D	07/22/19 14:01
2	5ug/ml 8270 07/12/19	0722Y004.D	07/22/19 14:29
3	10ug/ml 8270 07/12/1	0722Y005.D	07/22/19 14:57
4	20ug/ml 8270 07/12/1	0722Y006.D	07/22/19 15:25
5	40ug/ml 8270 07/12/1	0722Y007.D	07/22/19 15:53
6	50ug/ml 8270 07/12/1	0722Y008.D	07/22/19 16:21
7	60ug/ml 8270 07/12/1	0722Y009.D	07/22/19 16:49
8	80ug/ml 8270 07/12/1	0722Y010.D	07/22/19 17:17
9	100ug/ml 8270 07/12/1	0722Y011.D	07/22/19 17:45
10	SS 8270 07/12/19	0722Y012.D	07/22/19 18:13
11			
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22			

m/e

51 9.95 - 80.04% of mass 198	<u>26.6</u>
68 0 - 2% of mass 69	<u>0.0</u>
70 0 - 2% of mass 69	<u>0.5</u>
127 10 - 80% of mass 198	<u>42.2</u>
197 0 - 2% of mass 198	<u>0.0</u>
198 100 - 100% of mass 198	<u>100.0</u>
199 5 - 9% of mass 198	<u>6.7</u>
275 10 - 60% of mass 198	<u>32.8</u>
365 1 - 100% of mass 198	<u>4.2</u>
441 0.01 - 24% of mass 442	<u>16.1</u>
442 50 - 500% of mass 198	<u>176.3</u>
443 15 - 24% of mass 442	<u>19.5</u>

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: 89624
 Matrix: Water
 ID: 0722Y154.D

SDG No: 89624
 Date Analyzed: 08/01/19
 Instrument: Yoda
 Time Analyzed: 9:35

Client Sample No.	APPL ID.	File ID.	Date Analyzed	
1	50ug/ml 8270 07/12/1	0722Y155.D	08/01/19 10:00	
2	Blank	190729A BLK 1/800	0722Y156.D	08/01/19 10:42
3	Lab Control Spike	190729A LCS-1 1/800	0722Y157.D	08/01/19 11:10
4	Lab Control SpikeD	190729A LCSD-1 1/800	0722Y158.D	08/01/19 11:38
5	ERH863	AZ95511W15 1/800	0722Y165.D	08/01/19 14:54
6	ERH867	AZ95513W13 1/800	0722Y166.D	08/01/19 15:22
7	50ug/ml 8270 07/12/1	0722Y167.D	08/01/19 15:50	
8				
9				
10				
11				
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16				
17				
18				
19				
20				
21				
22				

m/e

51 9.95 - 80.04% of mass 198	<u>24.9</u>
68 0 - 2% of mass 69	<u>0.0</u>
70 0 - 2% of mass 69	<u>0.2</u>
127 10 - 80% of mass 198	<u>42.2</u>
197 0 - 2% of mass 198	<u>0.0</u>
198 100 - 100% of mass 198	<u>100.0</u>
199 5 - 9% of mass 198	<u>6.8</u>
275 10 - 60% of mass 198	<u>33.6</u>
365 1 - 100% of mass 198	<u>4.6</u>
441 0.01 - 24% of mass 442	<u>16.5</u>
442 50 - 500% of mass 198	<u>196.7</u>
443 15 - 24% of mass 442	<u>19.8</u>

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89624
 Lab File ID (Standard): 0722Y155.D Date Analyzed: 1 Aug 19 10:00
 Instrument ID: Yoda Time Analyzed: 1 Aug 19 10:00
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

		1,4-dichlorobenzene-D4(IS)		Napthalene-D8(IS)		Acenaphthene-D10(IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		306943	4.98	1210020	6.44	678921	8.47
UPPER LIMIT		613886	5.15	2420040	6.61	1357842	8.64
LOWER LIMIT		153472	4.81	605010	6.27	339461	8.30
SAMPLE NO.							
01	190729A BLK 1/800	259957	4.97	1121560	6.44	690767	8.47
02	190729A LCS-1 1/800	245598	4.97	1065590	6.43	686301	8.46
03	190729A LCSD-1 1/800	265350	4.96	1142010	6.43	692648	8.46
04	AZ95511W15 1/800	271218	4.97	1205930	6.43	696483	8.47
05	AZ95513W13 1/800	268960	4.97	1212220	6.43	681747	8.47
06	50ug/ml 8270 07/12/19 (362954	4.97	1425260	6.43	817480	8.47
07							
08							
09							
10							
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12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89624
 Lab File ID (Standard): 0722Y155.D Date Analyzed: 1 Aug 19 10:00
 Instrument ID: Yoda Time Analyzed: 1 Aug 19 10:00
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

	Phenanthrene-D10(IS)		Chrysene-D12(IS)		Perylene-D12(IS)		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12 HOUR STD	1382140	10.21	1270720	13.32	1509280	15.05	
UPPER LIMIT	2764280	10.38	2541440	13.49	3018560	15.22	
LOWER LIMIT	691070	10.04	635360	13.15	754640	14.88	
SAMPLE NO.							
01	190729A BLK 1/800	1442370	10.21	1456590	13.32	1567060	15.04
02	190729A LCS-1 1/800	1437800	10.21	1343240	13.32	1608090	15.04
03	190729A LCSD-1 1/800	1440630	10.21	1350110	13.32	1593480	15.04
04	AZ95511W15 1/800	1398650	10.20	1391130	13.31	1538380	15.03
05	AZ95513W13 1/800	1368440	10.20	1371410	13.31	1525650	15.03
06	50ug/ml 8270 07/12/19	1670400	10.21	1557000	13.32	1850220	15.04
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

EPA 8270D

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89624

Case No: 89624

Date Analyzed: 08/01/19

Matrix: WATER

Instrument: Linus

Blank ID: 190730A-BLK

Time Analyzed: 1053

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190730A-BLK	Blank	0730L034	08/01/19 1053
190730A-LCS	Lab Control Spike	0730L035	08/01/19 1116
190730A-LCSD	Lab Control Spiked	0730L036	08/01/19 1139
AZ95511	ERH863	0730L037	08/01/19 1202
AZ95513	ERH867	0730L038	08/01/19 1226

Comments: Batch: #87DME-190730A

Printed: 08/02/19 3:17:14 PM
Form 4, Blank Summary

Method Blank
EPA 8270D MODIFIED WATER

Blank Name/QCG: **190730W-95511 - 242964**
Batch ID: #87DME-190730A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	2-(2-METHOXYETHOXY)-ETHAN	80.0 U	100	80.0	40.0	ug/L	07/30/19	08/01/19

Quant Method: LMEE0430.M
Run #: 0730L034
Instrument: Linus
Sequence: L190730M
Initials: MA

GC SC-Blank-REG MDLs-DOD
Printed: 08/02/19 3:16:46 PM

EPA 8270D

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89624

Case No: 89624

Date Analyzed: 08/01/19

Matrix: WATER

Instrument: Linus

LCS ID: 190730A-LCS

Time Analyzed: 1116

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190730A-BLK	Blank	0730L034	08/01/19 1053
190730A-LCS	Lab Control Spike	0730L035	08/01/19 1116
190730A-LCSD	Lab Control Spiked	0730L036	08/01/19 1139
AZ95511	ERH863	0730L037	08/01/19 1202
AZ95513	ERH867	0730L038	08/01/19 1226

Comments: Batch: #87DME-190730A

Printed: 08/02/19 3:17:15 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8270D MODIFIED WATER

APPL ID: 190730W-95511 LCS - 242964
 Batch ID: #87DME-190730A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
2-(2-METHOXYETHOXY)-ETHANOL	80.0	76.2	73.6	95.3	92.0	30-130	3.5	20

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	LMEE0430.M	LMEE0430.M
Extraction Date :	07/30/19	07/30/19
Analysis Date :	08/01/19	08/01/19
Instrument :	Linus	Linus
Run :	0730L035	0730L036
Initials :	MA	

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89624

Case No: 89624

Date Analyzed: 07/31/19

Matrix: WATER

Instrument: Loki

APPL ID.	Client Sample No.	SURROGATE: 1,2-DICHLOROETHANE-D4 (S)			SURROGATE: 4-BROMOFLUOROBENZENE (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190730BL-LCS	Lab Control Spike	81-118	93.2		85-114	112	
190730BL-LCSD	Lab Control SpikeD	81-118	92.4		85-114	109	
190730BL-BLK	Blank	81-118	86.7		85-114	89.6	
AZ95510	ERH862	81-118	97.6		85-114	96.0	
AZ95511	ERH863	81-118	96.3		85-114	98.0	
AZ95512	ERH866	81-118	93.5		85-114	95.2	
AZ95513	ERH867	81-118	101		85-114	97.8	

Comments: Batch: #86BTO-190730BL

Printed: 08/01/19 9:34:36 AM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89624

Case No: 89624

Date Analyzed: 07/31/19

Matrix: WATER

Instrument: Loki

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190730BL-LCS	Lab Control Spike	80-119	95.6		89-112	106	
190730BL-LCSD	Lab Control SpikeD	80-119	92.4		89-112	104	
190730BL-BLK	Blank	80-119	88.5		89-112	91.7	
AZ95510	ERH862	80-119	99.2		89-112	101	
AZ95511	ERH863	80-119	96.4		89-112	101	
AZ95512	ERH866	80-119	95.5		89-112	97.9	
AZ95513	ERH867	80-119	103		89-112	98.4	

Comments: Batch: #86BTO-190730BL

Printed: 08/01/19 9:34:36 AM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89624

Case No: 89624

Date Analyzed: 07/31/19

Matrix: WATER

Instrument: Loki

Blank ID: 190730BL-BLK

Time Analyzed: 0716

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190730BL-LCS	Lab Control Spike	0730L47	07/31/19 0452
190730BL-LCSD	Lab Control Spiked	0730L48	07/31/19 0521
190730BL-BLK	Blank	0730I52	07/31/19 0716
AZ95510	ERH862	0730L53	07/31/19 0745
AZ95511	ERH863	0730L54	07/31/19 0813
AZ95512	ERH866	0730L55	07/31/19 0842
AZ95513	ERH867	0730L56	07/31/19 0911

Comments: Batch: #86BTO-190730BL

Printed: 08/01/19 9:34:39 AM
Form 4, Blank Summary

Method Blank
EPA 8260B BTEX WATER

Blank Name/QCG: **190730W-95510 - 242893**
Batch ID: #86BTO-190730BL

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	07/31/19	07/31/19
BLANK	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	07/31/19	07/31/19
BLANK	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	07/31/19	07/31/19
BLANK	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	07/31/19	07/31/19
BLANK	SURROGATE: 1,2-DICHLOROET	86.7	81-118			%	07/31/19	07/31/19
BLANK	SURROGATE: 4-BROMOFLUORO	89.6	85-114			%	07/31/19	07/31/19
BLANK	SURROGATE: DIBROMOFLUOR	88.5	80-119			%	07/31/19	07/31/19
BLANK	SURROGATE: TOLUENE-D8 (S)	91.7	89-112			%	07/31/19	07/31/19

Quant Method:L0724W.M
Run #:0730I52
Instrument:Loki
Sequence:190730
Initials:DPO

GC SC-Blank-REG MDLs-DOD
Printed: 08/01/19 9:34:35 AM

EPA 8260B

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89624

Case No: 89624

Date Analyzed: 07/31/19

Matrix: WATER

Instrument: Loki

LCS ID: 190730BL-LCS

Time Analyzed: 0452

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190730BL-LCS	Lab Control Spike	0730L47	07/31/19 0452
190730BL-LCSD	Lab Control SpikeD	0730L48	07/31/19 0521
190730BL-BLK	Blank	0730I52	07/31/19 0716
AZ95510	ERH862	0730L53	07/31/19 0745
AZ95511	ERH863	0730L54	07/31/19 0813
AZ95512	ERH866	0730L55	07/31/19 0842
AZ95513	ERH867	0730L56	07/31/19 0911

Comments: Batch: #86BTO-190730BL

Printed: 08/01/19 9:34:39 AM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8260B BTEX WATER

APPL ID: 190731W-95510 LCS - 242893
 Batch ID: #86BTO-190730BL

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
BENZENE	10.00	11.9	11.2	119	112	79-120	6.1	20
ETHYLBENZENE	10.00	12.0	11.4	120	114	79-121	5.1	20
TOLUENE	10.00	12.0	11.3	120	113	80-121	6.0	20
XYLENES (TOTAL)	30.0	33.7	32.9	112	110	79-121	2.4	20

SURROGATE: 1,2-DICHLOROETHANE-D	25.0	23.3	23.1	93.2	92.4	81-118		
SURROGATE: 4-BROMOFLUOROBENZE	25.0	28.0	27.2	112	109	85-114		
SURROGATE: DIBROMOFLUOROMETH	25.0	23.9	23.1	95.6	92.4	80-119		
SURROGATE: TOLUENE-D8 (S)	25.0	26.4	26.1	106	104	89-112		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	L0724W.M	L0724W.M
Extraction Date :	07/31/19	07/31/19
Analysis Date :	07/31/19	07/31/19
Instrument :	Loki	Loki
Run :	0730L47	0730L48
Initials :	DPO	

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: _____
Matrix: Water
ID: _____

SDG No: _____
Date Analyzed: 7/24/2019
Instrument: Loki
Time Analyzed: 13:52

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	0.3ug/L VOC STD 07/2	0724L15.D	7/24/2019 15:18
2	0.5ug/L VOC STD 07/2	0724L16.D	7/24/2019 15:47
3	1.0ug/L VOC STD 07/2	0724L17.D	7/24/2019 16:16
4	2.0ug/L VOC STD 07/2	0724L18.D	7/24/2019 16:45
5	5.0ug/L VOC STD 07/2	0724L19.D	7/24/2019 17:14
6	10ug/L VOC STD 07/24	0724L20.D	7/24/2019 17:42
7	20ug/L VOC STD 07/24	0724L21.D	7/24/2019 18:11
8	40ug/L VOC STD 07/24	0724L22.D	7/24/2019 18:40
9	100ug/L VOC STD 07/2	0724L23.D	7/24/2019 19:09
10	SS 10ug/L VOC STD 07	0724L26.D	7/24/2019 20:36
11	SS 30ug/L VOC STD 07	0724L27.D	7/24/2019 21:04
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

m/e

50 15.0 - 40.0% of mass 95	15.3
75 30.0 - 60.0% of mas 95	43.6
95 Base peak, 100% relative abundance	100.0
96 5.0 - 9.0% of mass 95	7.5
173 Less than 2.0% of mass 174	10.0
174 50.0 - 100.0% of mass 95	110.7
175 5.0 - 9.0% of mass 174	7.4
176 95.0 - 101.0% of mass 174	95.5
177 5.0 - 9.0% of mass 176	6.4

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: 89624
 Matrix: Water
 ID: _____

SDG No: 89624
 Date Analyzed: 7/31/2019
 Instrument: Loki
 Time Analyzed: 3:54

Client Sample No.	APPL ID.	File ID.	Date Analyzed	
1		190730B CCV 10ug/L	0730L46.D	7/31/2019 4:23
2	Lab Control Spike	190730B LCS 10ug/L	0730L47.D	7/31/2019 4:52
3	Lab Control SpikeD	190730B LCSD 10ug/L	0730L48.D	7/31/2019 5:21
4	Blank	190730B BLK	0730L52.D	7/31/2019 7:16
5	ERH862	AZ95510W01	0730L53.D	7/31/2019 7:45
6	ERH863	AZ95511W01	0730L54.D	7/31/2019 8:13
7	ERH866	AZ95512W01	0730L55.D	7/31/2019 8:42
8	ERH867	AZ95513W01	0730L56.D	7/31/2019 9:11
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e

50 15.0 - 40.0% of mass 95	<u>15.6</u>
75 30.0 - 60.0% of mas 95	<u>42.3</u>
95 Base peak, 100% relative abundance	<u>100.0</u>
96 5.0 - 9.0% of mass 95	<u>7.1</u>
173 Less than 2.0% of mass 174	<u>0.0</u>
174 50.0 - 100.0% of mass 95	<u>100.4</u>
175 5.0 - 9.0% of mass 174	<u>7.0</u>
176 95.0 - 101.0% of mass 174	<u>96.7</u>
177 5.0 - 9.0% of mass 176	<u>6.6</u>

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89624
 Lab File ID (Standard): 0730L46.D Date Analyzed: 07/31/19
 Instrument ID: Loki Time Analyzed: 4:23
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

	Fluorobenzene (IS)		Chlorobenzene-D5 (IS)		1,4-Dichlorobenzene-D (IS)		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12 HOUR STD	300416	5.71	269312	9.24	142912	11.79	
UPPER LIMIT	600832	5.88	538624	9.41	285824	11.96	
LOWER LIMIT	150208	5.54	134656	9.07	71456	11.62	
SAMPLE NO.							
01	190730B LCS 10ug/L	268864	5.71	248064	9.24	132608	11.79
02	190730B LCSD 10ug/L	275136	5.71	245376	9.24	136512	11.79
03	190730B BLK	264704	5.71	235904	9.24	115984	11.79
04	AZ95510W01	237312	5.71	210816	9.24	103040	11.79
05	AZ95511W01	232768	5.71	202368	9.24	101592	11.79
06	AZ95512W01	232320	5.71	200064	9.24	101736	11.79
07	AZ95513W01	205504	5.71	184832	9.24	89056	11.79
08	Ending CCV 10ug/L 07/3	233664	5.71	206400	9.24	118392	11.79
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89624

Case No: 89624

Date Analyzed: 07/31/19

Matrix: WATER

Instrument: Loki

APPL ID.	Client Sample No.	SURROGATE: 4-BROMOFLUOROBENZENE (S)			Limits	Result	Qualifier
		Limits	Result	Qualifier			
190730BL-LCS	Lab Control Spike	85-114	109				
190730BL-LCSD	Lab Control SpikeD	85-114	108				
190730BL-BLK	Blank	85-114	89.6				
AZ95510	ERH862	85-114	96.0				
AZ95511	ERH863	85-114	98.0				
AZ95512	ERH866	85-114	95.2				
AZ95513	ERH867	85-114	97.8				

Comments: Batch: #GRO86-190730BL

Printed: 08/01/19 9:35:08 AM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89624

Case No: 89624

Date Analyzed: 07/31/19

Matrix: WATER

Instrument: Loki

Blank ID: 190730BL-BLK

Time Analyzed: 0716

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190730BL-LCS	Lab Control Spike	0730L50	07/31/19 0618
190730BL-LCSD	Lab Control Spiked	0730L51	07/31/19 0647
190730BL-BLK	Blank	0730L52	07/31/19 0716
AZ95510	ERH862	0730L53	07/31/19 0745
AZ95511	ERH863	0730L54	07/31/19 0813
AZ95512	ERH866	0730L55	07/31/19 0842
AZ95513	ERH867	0730L56	07/31/19 0911

Comments: Batch: #GRO86-190730BL

Printed: 08/01/19 9:35:11 AM
Form 4, Blank Summary

Method Blank
EPA 8260B GRO WATER

Blank Name/QCG: **190730W-95510 - 242894**
Batch ID: #GRO86-190730BL

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	07/31/19	07/31/19
BLANK	SURROGATE: 4-BROMOFLUORO	89.6	85-114			%	07/31/19	07/31/19

Quant Method: LGAS716.M
Run #: 0730L52
Instrument: Loki
Sequence: 190730
Initials: DPO

GC SC-Blank-REG MDLs-DOD
Printed: 08/01/19 9:35:08 AM

EPA 8260B

Form 4

LCS Summary

Lab Name: APPL, Inc.
Case No: 89624
Matrix: WATER
LCS ID: 190730BL-LCS

SDG No: 89624
Date Analyzed: 07/31/19
Instrument: Loki
Time Analyzed: 0618

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190730BL-LCS	Lab Control Spike	0730L50	07/31/19 0618
190730BL-LCSD	Lab Control Spiked	0730L51	07/31/19 0647
190730BL-BLK	Blank	0730L52	07/31/19 0716
AZ95510	ERH862	0730L53	07/31/19 0745
AZ95511	ERH863	0730L54	07/31/19 0813
AZ95512	ERH866	0730L55	07/31/19 0842
AZ95513	ERH867	0730L56	07/31/19 0911

Comments: Batch: #GRO86-190730BL

Laboratory Control Spike Recoveries

EPA 8260B GRO WATER

APPL ID: 190731W-95510 LCS - 242894
 Batch ID: #GRO86-190730BL

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
GASOLINE RANGE ORGANICS	300	299	306	99.7	102	78-122	2.3	20
SURROGATE: 4-BROMOFLUOROBENZE	25.0	27.3	26.9	109	108	85-114		

Comments: _____

	<u>SPK</u>	<u>DUP</u>
Quant Method :	LGAS716.M	LGAS716.M
Extraction Date :	07/31/19	07/31/19
Analysis Date :	07/31/19	07/31/19
Instrument :	Loki	Loki
Run :	0730L50	0730L51
Initials :	DPO	

RSK 175

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89624

Case No: 89624

Date Analyzed: 07/30/19

Matrix: WATER

Instrument: Rocky

Blank ID: 190730A-BLK

Time Analyzed: 1459

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190730A-LCS	Lab Control Spike	19073005	07/30/19 1453
190730A-LCSD	Lab Control Spiked	19073006	07/30/19 1456
190730A-BLK	Blank	19073007	07/30/19 1459
AZ95510	ERH862	19073021	07/30/19 1539
AZ95511	ERH863	19073022	07/30/19 1541
AZ95512	ERH866	19073023	07/30/19 1543
AZ95513	ERH867	19073024	07/30/19 1546

Comments: Batch: #RSKME-190730A

Printed: 07/30/19 4:22:58 PM
Form 4, Blank Summary

Method Blank
METHANE

Blank Name/QCG: **190730W-95418 - 242833**
Batch ID: #RSKME-190730A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	METHANE	1.00 U	5.0	1.00	0.25	ug/L	07/30/19	07/30/19

Quant Method:RSK0618.M
Run #:19073007
Instrument:Rocky
Sequence:190618
Initials:CMO

GC SC-Blank-REG MDLs-DOD
Printed: 07/30/19 4:23:09 PM

RSK 175

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89624

Case No: 89624

Date Analyzed: 07/30/19

Matrix: WATER

Instrument: Rocky

LCS ID: 190730A-LCS

Time Analyzed: 1453

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190730A-LCS	Lab Control Spike	19073005	07/30/19 1453
190730A-LCSD	Lab Control SpikeD	19073006	07/30/19 1456
190730A-BLK	Blank	19073007	07/30/19 1459
AZ95510	ERH862	19073021	07/30/19 1539
AZ95511	ERH863	19073022	07/30/19 1541
AZ95512	ERH866	19073023	07/30/19 1543
AZ95513	ERH867	19073024	07/30/19 1546

Comments: Batch: #RSKME-190730A

Printed: 07/30/19 4:22:55 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

METHANE

APPL ID: 190730W-95418 LCS - 242833

Batch ID: #RSKME-190730A

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
METHANE	83.4	77.4	76.5	92.8	91.7	72-125	1.2	30

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	RSK0618.M	RSK0618.M
Extraction Date :	07/30/19	07/30/19
Analysis Date :	07/30/19	07/30/19
Instrument :	Rocky	Rocky
Run :	19073005	19073006
Initials :	CMO	

EPA 300.0

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89624

Case No: 89624

Date Analyzed: 08/03/19

Matrix: WATER

Instrument: Charlie

Blank ID: 190801B11-BLK

Time Analyzed: 0952

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190801B11-BLK	Blank	15	08/03/19 0952
AZ95511	ERH863	16	08/03/19 1000
AZ95513	ERH867	17	08/03/19 1007
190801B11-LCS	Lab Control Spike	3	08/03/19 0737
AZ95513	ERH867	33	08/15/19 1200
190801B11-LCSD	Lab Control Spiked	4	08/03/19 0745

Comments: Batch: #300W-190801B11

Printed: 08/16/19 3:47:49 PM
Form 4, Blank Summary

WETLAB BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
EPA 300.0	CHLORIDE	0.20 U	1.0	0.20	0.08	mg/L	08/03/19	08/03/19	#300W-190801B11-AZ95511
EPA 300.0	SULFATE	0.20 U	1.0	0.20	0.09	mg/L	08/03/19	08/03/19	#300W-190801B11-AZ95511

Wetlab SC-Blank-REG MDLs
Printed: 08/16/19 3:47:48 PM

EPA 300.0

Form 4

LCS Summary

Lab Name: APPL, Inc.
Case No: 89624
Matrix: WATER
LCS ID: 190801B11-LCS

SDG No: 89624
Date Analyzed: 08/03/19
Instrument: Charlie
Time Analyzed: 0737

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190801B11-BLK	Blank	15	08/03/19 0952
AZ95511	ERH863	16	08/03/19 1000
AZ95513	ERH867	17	08/03/19 1007
190801B11-LCS	Lab Control Spike	3	08/03/19 0737
AZ95513	ERH867	33	08/15/19 1200
190801B11-LCSD	Lab Control Spiked	4	08/03/19 0745

Comments: Batch: #300W-190801B11

Printed: 08/16/19 3:47:49 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

WETLAB

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
EPA 300.0	CHLORIDE	25.0	23.5	23.5	94.0	94.0	0.0	20	90-110	08/03/19	08/03/19	08/03/19	08/03/19	#300W-190801B11-AZ955
EPA 300.0	SULFATE	25.0	23.4	23.4	93.6	93.6	0.0	20	90-110	08/03/19	08/03/19	08/03/19	08/03/19	#300W-190801B11-AZ955

Comments:

EPA 353.2

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89624

Case No: 89624

Date Analyzed: 07/31/19

Matrix: WATER

Instrument: EVE

Blank ID: 190731A-BLK

Time Analyzed: 1829

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190731A-BLK	Blank	19	07/31/19 1829
190731A-LCS	Lab Control Spike	20	07/31/19 1831
190731A-LCSD	Lab Control Spiked	21	07/31/19 1834
AZ95511	ERH863	36	07/31/19 1900
AZ95513	ERH867	37	07/31/19 1901

Comments: Batch: #35OF-190731A

Printed: 08/16/19 3:44:11 PM
Form 4, Blank Summary

SM 2320B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89624

Case No: 89624

Date Analyzed: 08/01/19

Matrix: WATER

Instrument: Tiamo

Blank ID: 190801A1-BLK

Time Analyzed: 1515

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190801A1-BLK	Blank	1	08/01/19 1515
AZ95511	ERH863	14	08/01/19 1656
AZ95513	ERH867	15	08/01/19 1701
190801A1-LCS	Lab Control Spike	2	08/01/19 1518
190801A1-LCSD	Lab Control Spiked	3	08/01/19 1524

Comments: Batch: #232W-190801A1

Printed: 08/16/19 3:44:11 PM
Form 4, Blank Summary

SM3500FeB

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89624

Case No: 89624

Date Analyzed: 07/27/19

Matrix: WATER

Instrument: Manual Spec

Blank ID: A190727-BLK

Time Analyzed: 1309

APPL ID.	Client Sample No.	File ID.	Date Analyzed
A190727-BLK	Blank	26	07/27/19 1309
AZ95513	ERH867	28	07/27/19 1311
A190727-LCS	Lab Control Spike	29	07/27/19 1311
AZ95511	ERH863	30	07/27/19 1312

Comments: Batch: #35FE-A190727

Printed: 08/16/19 3:44:11 PM
Form 4, Blank Summary

SW846 9060A

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89624

Case No: 89624

Date Analyzed: 08/05/19

Matrix: WATER

Instrument: TICTOC

Blank ID: 190805A1-BLK

Time Analyzed: 2223

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190805A1-BLK	Blank	10	08/05/19 2223
190805A1-LCS	Lab Control Spike	11	08/05/19 2255
190805A1-LCSD	Lab Control SpikeD	12	08/05/19 2327
AZ95511	ERH863	30	08/06/19 0901
AZ95513	ERH867	31	08/06/19 0932

Comments: Batch: #TOCW5-190805A

Printed: 08/16/19 3:44:11 PM
Form 4, Blank Summary

WETLAB BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
SM 2320B	BICARBONATE AS	1.70 U	2.0	1.70	0.85	mg/L	08/01/19	08/01/19	#232W-190801A1-AZ95511
SM 2320B	CARBONATE AS C	1.70 U	2.0	1.70	0.85	mg/L	08/01/19	08/01/19	#232W-190801A1-AZ95511
SM 2320B	TOTAL ALKALINITY	1.70 U	2.0	1.70	0.85	mg/L	08/01/19	08/01/19	#232W-190801A1-AZ95511
SM3500Fe	FERROUS IRON	0.32 U	1.0	0.32	0.16	mg/L	07/27/19	07/27/19	#35FE-A190727-AZ95556
EPA 353.2	NITRATE-NITRITE-	0.090 U	0.10	0.090	0.028	mg/L	07/31/19	07/31/19	#35OF-190731A-AZ95189
SW846 90	TOTAL ORGANIC C	0.18 J	0.93	0.350	0.130	mg/L	08/05/19	08/05/19	TOCW5-190805A1-AZ95511

J = Estimated value.

Wetlab SC-Blank-REG MDLs
Printed: 08/16/19 3:44:04 PM

EPA 353.2

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89624

Case No: 89624

Date Analyzed: 07/31/19

Matrix: WATER

Instrument: EVE

LCS ID: 190731A-LCS

Time Analyzed: 1831

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190731A-BLK	Blank	19	07/31/19 1829
190731A-LCS	Lab Control Spike	20	07/31/19 1831
190731A-LCSD	Lab Control SpikeD	21	07/31/19 1834
AZ95511	ERH863	36	07/31/19 1900
AZ95513	ERH867	37	07/31/19 1901

Comments: Batch: #35OF-190731A

Printed: 08/16/19 3:44:11 PM
Form 4, LCS Summary

SM 2320B

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89624

Case No: 89624

Date Analyzed: 08/01/19

Matrix: WATER

Instrument: Tiamo

LCS ID: 190801A1-LCS

Time Analyzed: 1518

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190801A1-BLK	Blank	1	08/01/19 1515
AZ95511	ERH863	14	08/01/19 1656
AZ95513	ERH867	15	08/01/19 1701
190801A1-LCS	Lab Control Spike	2	08/01/19 1518
190801A1-LCSD	Lab Control Spiked	3	08/01/19 1524

Comments: Batch: #232W-190801A1

Printed: 08/16/19 3:44:11 PM
Form 4, LCS Summary

SM3500FeB

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89624

Case No: 89624

Date Analyzed: 07/27/19

Matrix: WATER

Instrument: Manual Spec

LCS ID: A190727-LCS

Time Analyzed: 1311

APPL ID.	Client Sample No.	File ID.	Date Analyzed
A190727-BLK	Blank	26	07/27/19 1309
AZ95513	ERH867	28	07/27/19 1311
A190727-LCS	Lab Control Spike	29	07/27/19 1311
AZ95511	ERH863	30	07/27/19 1312

Comments: Batch: #35FE-A190727

Printed: 08/16/19 3:44:11 PM
Form 4, LCS Summary

SW846 9060A

Form 4

LCS Summary

Lab Name: APPL, Inc.
Case No: 89624
Matrix: WATER
LCS ID: 190805A1-LCS

SDG No: 89624
Date Analyzed: 08/05/19
Instrument: TICTOC
Time Analyzed: 2255

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190805A1-BLK	Blank	10	08/05/19 2223
190805A1-LCS	Lab Control Spike	11	08/05/19 2255
190805A1-LCSD	Lab Control SpikeD	12	08/05/19 2327
AZ95511	ERH863	30	08/06/19 0901
AZ95513	ERH867	31	08/06/19 0932

Comments: Batch: #TOCW5-190805A

Printed: 08/16/19 3:44:11 PM
Form 4, LCS Summary

Laboratory Control Spike Recovery
WETLAB

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/L	SPK Result mg/L	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
SM3500Fe	FERROUS IRON	3.00	3.15	105	80-120	07/27/19	07/27/19	#35FE-A190727-AZ95556

Comments:

Laboratory Control Spike Recoveries

WETLAB

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
EPA 353.2	NITRATE-NITRITE-N	3.00	2.76	2.91	92.0	97.0	5.3	20	90-110	07/31/19	07/31/19	07/31/19	07/31/19	#35OF-190731A-AZ95189
SM 2320B	BICARBONATE AS CaCO3	250	249	247	99.6	98.8	0.81	20	90-110	08/01/19	08/01/19	08/01/19	08/01/19	#232W-190801A1-AZ9551
SM 2320B	TOTAL ALKALINITY AS Ca	250	249	247	99.6	98.8	0.81	20	90-110	08/01/19	08/01/19	08/01/19	08/01/19	#232W-190801A1-AZ9551
SW846 90	TOTAL ORGANIC CARBO	2.50	2.75	2.64	110	106	4.1	20	90-110	08/05/19	08/05/19	08/05/19	08/05/19	#TOCW5-190805A1-AZ95

Comments:

ORGANICS
Calibration Data

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: Water

SDG No: _____
Initial Cal. Date: 06/17/19
Instrument: Apollo

Initials: BJT

617003.D 617004.D 617005.D 617006.D 617007.D 617008.D

	Compound	1	2	3	4	5	6					Avg	%RSD	Type	r^2	Q
1	HATML Diesel (C10-C24)	2690303	1116857	1087632	1051285	1058686	1101324					1351015	49	HATM	0.999	
2	HBTM Motor Oil (C24-C40)	1266274	913149	865251	811199	794482	848774					916522	19	HBTM		
3	SA Ortho-Terphenyl(S)	2130750	1828574	1896892	1721330	1622234	1705036					1817469	10.0	SA		
4	SCL Decanoic Acid(S)	150177	314603	492479	537134	542867	560663					432987	38	SC	0.999	
5	SA Octacosane(S)	2220335	1730219	1828557	1673992	1654539	1933989					1840272	12	SA		
6																
7																
8																
9																
10																
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3.64617

Data File : G:\APOLLO\DATA\190617\617003.D Vial: 3
 Acq On : 6-17-19 16:40:59 Operator: DP
 Sample : Diesel/Motor Oil - 1 6/17/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:02 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

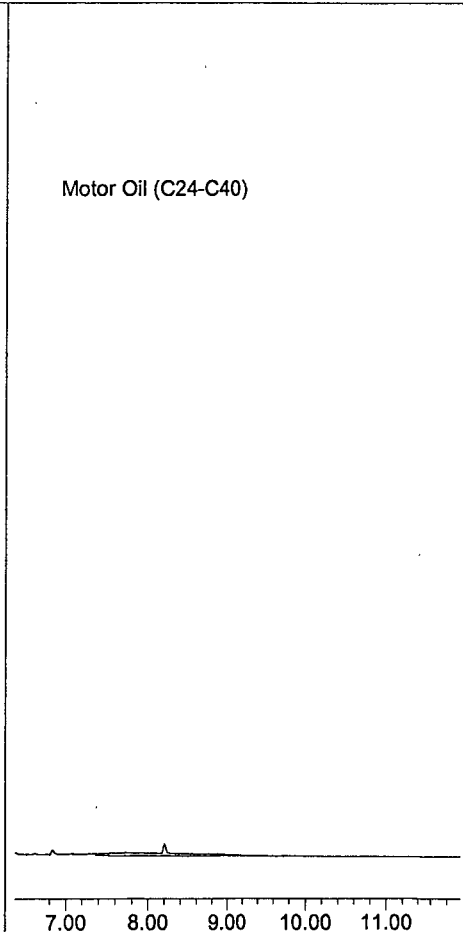
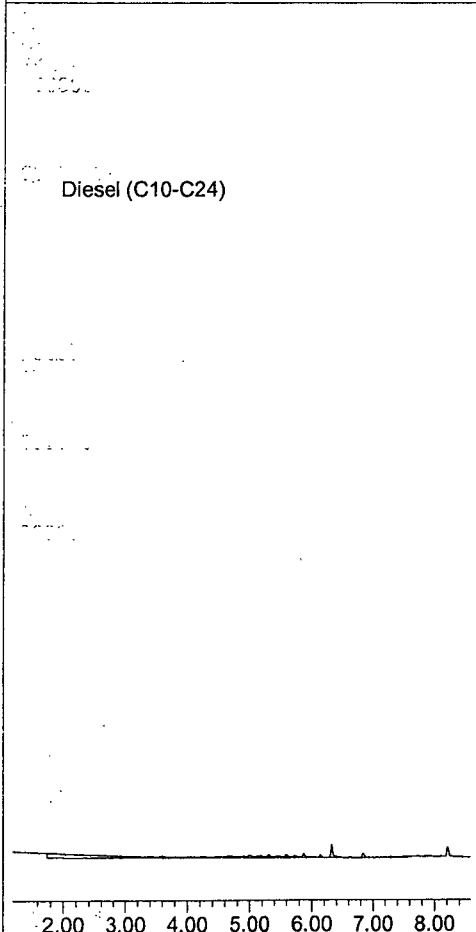
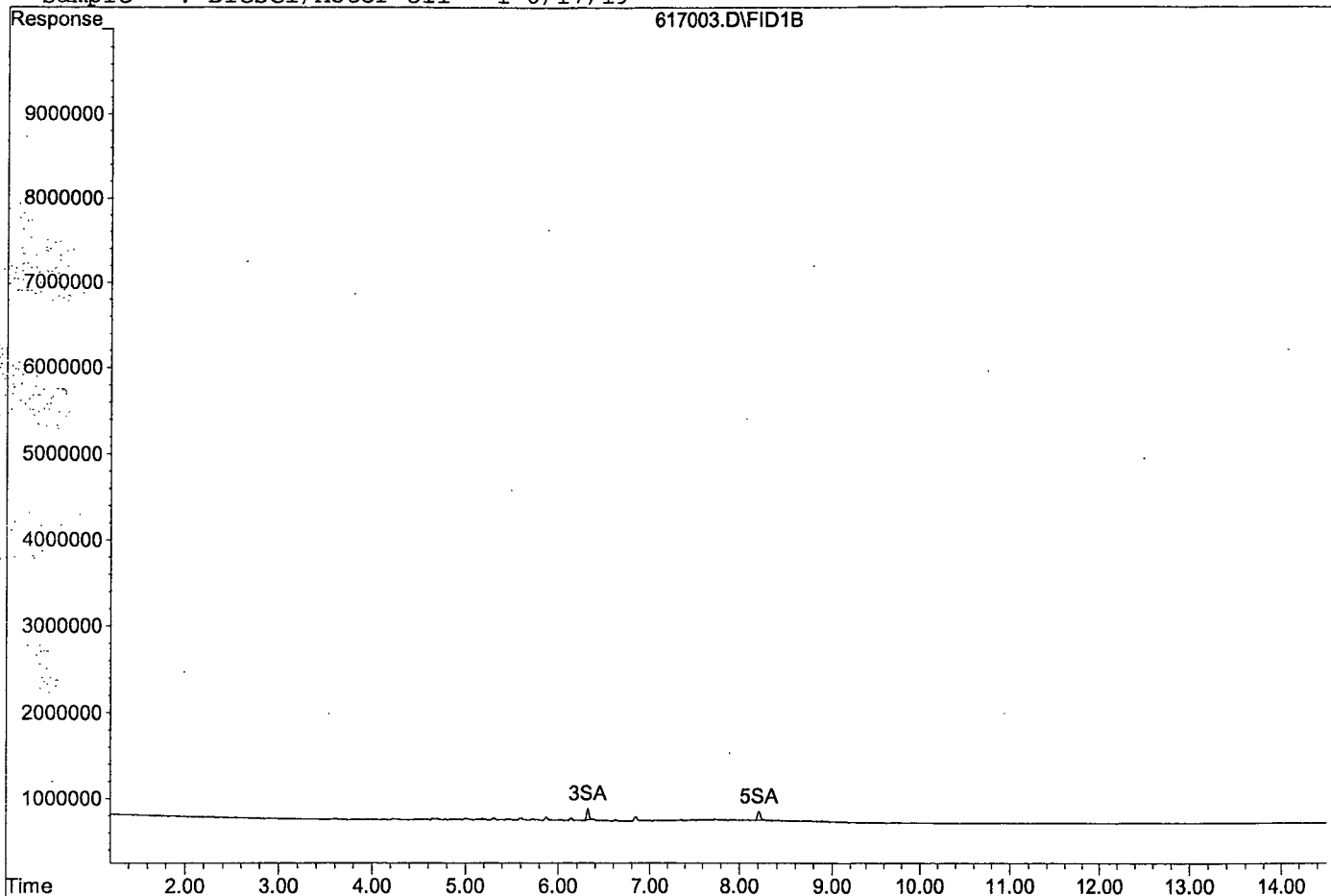
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.32	2130750	0.586 ppb
Surrogate Spike 37.500		Recovery =	1.56%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.21	2220335	0.603 ppb
Surrogate Spike 37.500		Recovery =	1.61%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	53806066	26.270 ppb
2) HBTM Motor Oil (C24-C40)	9.16	25325476	13.816 ppb

Target Compounds

Data File: G:\APOLLO\DATA\190617\617003.D

Sample : Diesel/Motor Oil - 1 6/17/19



Data File : G:\APOLLO\DATA\190617\617004.D Vial: 4
 Acq On : 6-17-19 17:00:17 Operator: DP
 Sample : Diesel/Motor Oil - 2 6/17/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:02 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

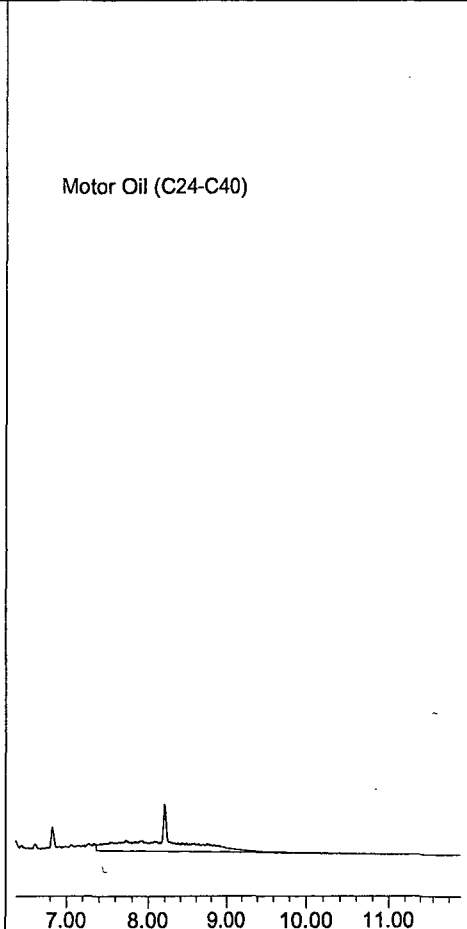
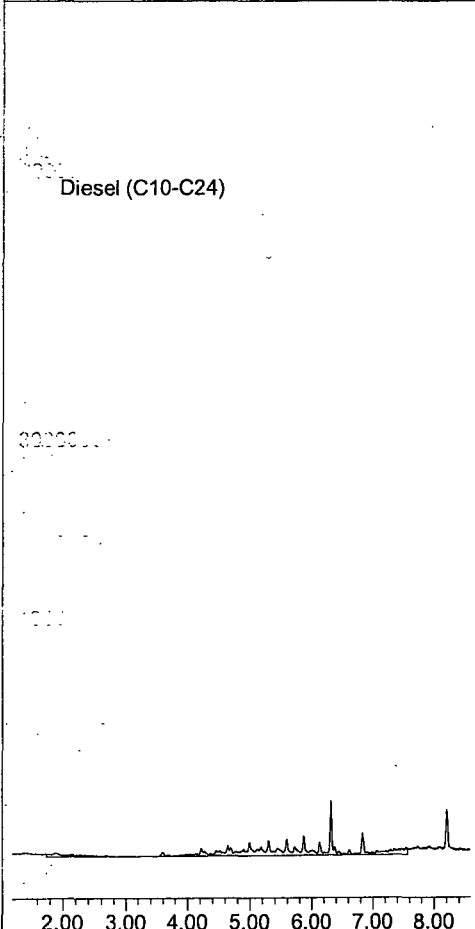
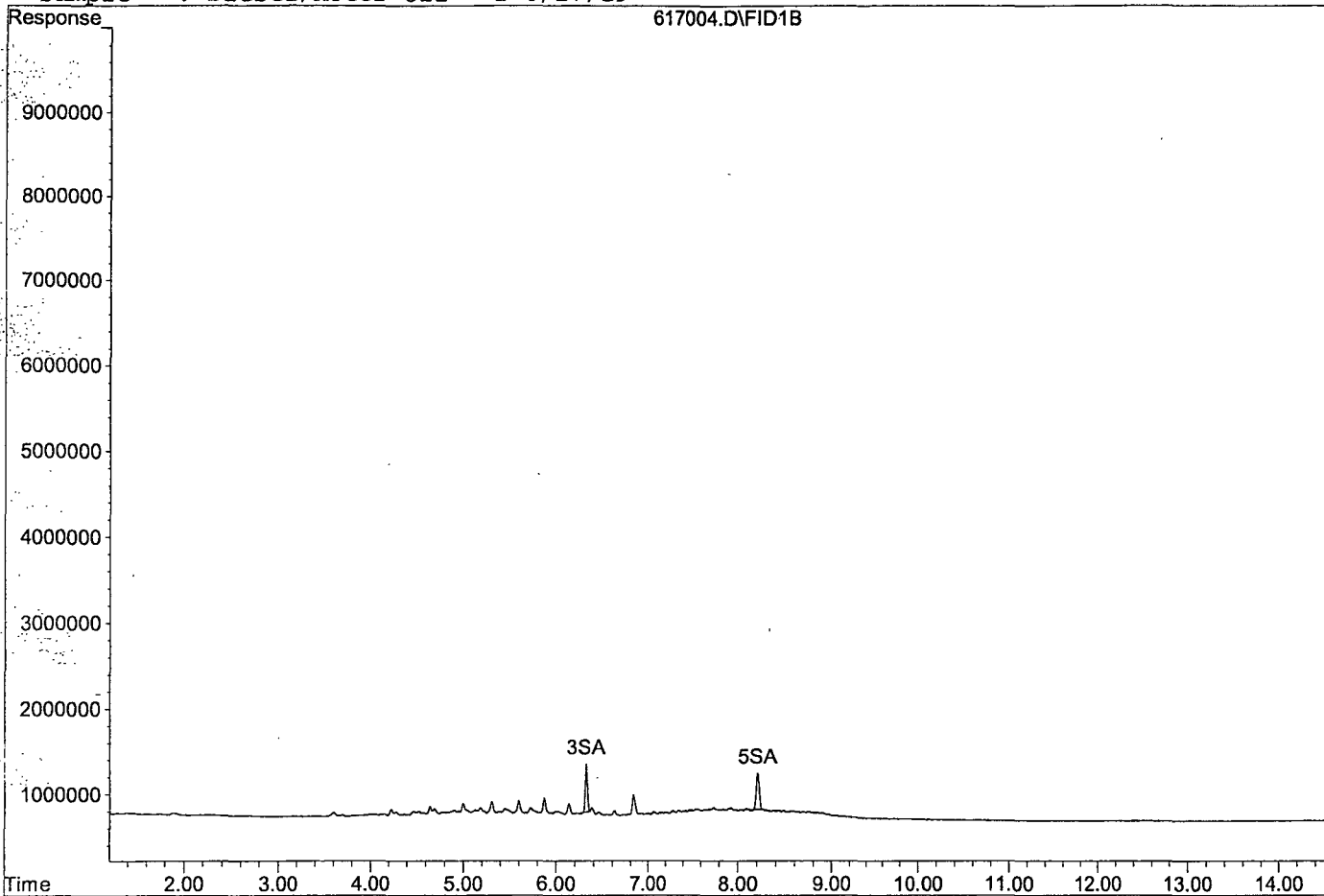
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.32	9142868	2.515 ppb
Surrogate Spike 37.500		Recovery =	6.71%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.21	8651097	2.350 ppb
Surrogate Spike 37.500		Recovery =	6.27%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	111685733	53.009 ppb
2) HBTM Motor Oil (C24-C40)	9.16	91314932	49.816 ppb

Target Compounds

Data File: G:\APOLLO\DATA\190617\617004.D

Sample : Diesel/Motor Oil - 2 6/17/19



Data File : G:\APOLLO\DATA\190617\617005.D Vial: 5
 Acq On : 6-17-19 17:20:24 Operator: DP
 Sample : Diesel/Motor Oil - 3 6/17/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:02 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

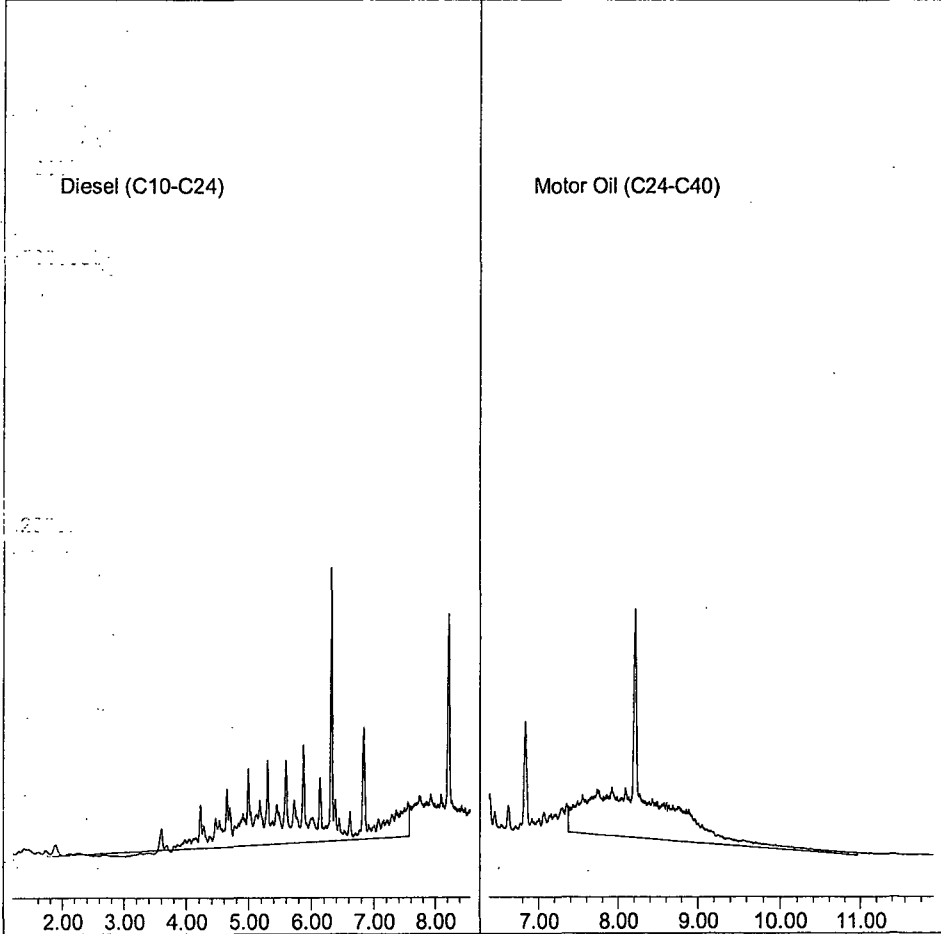
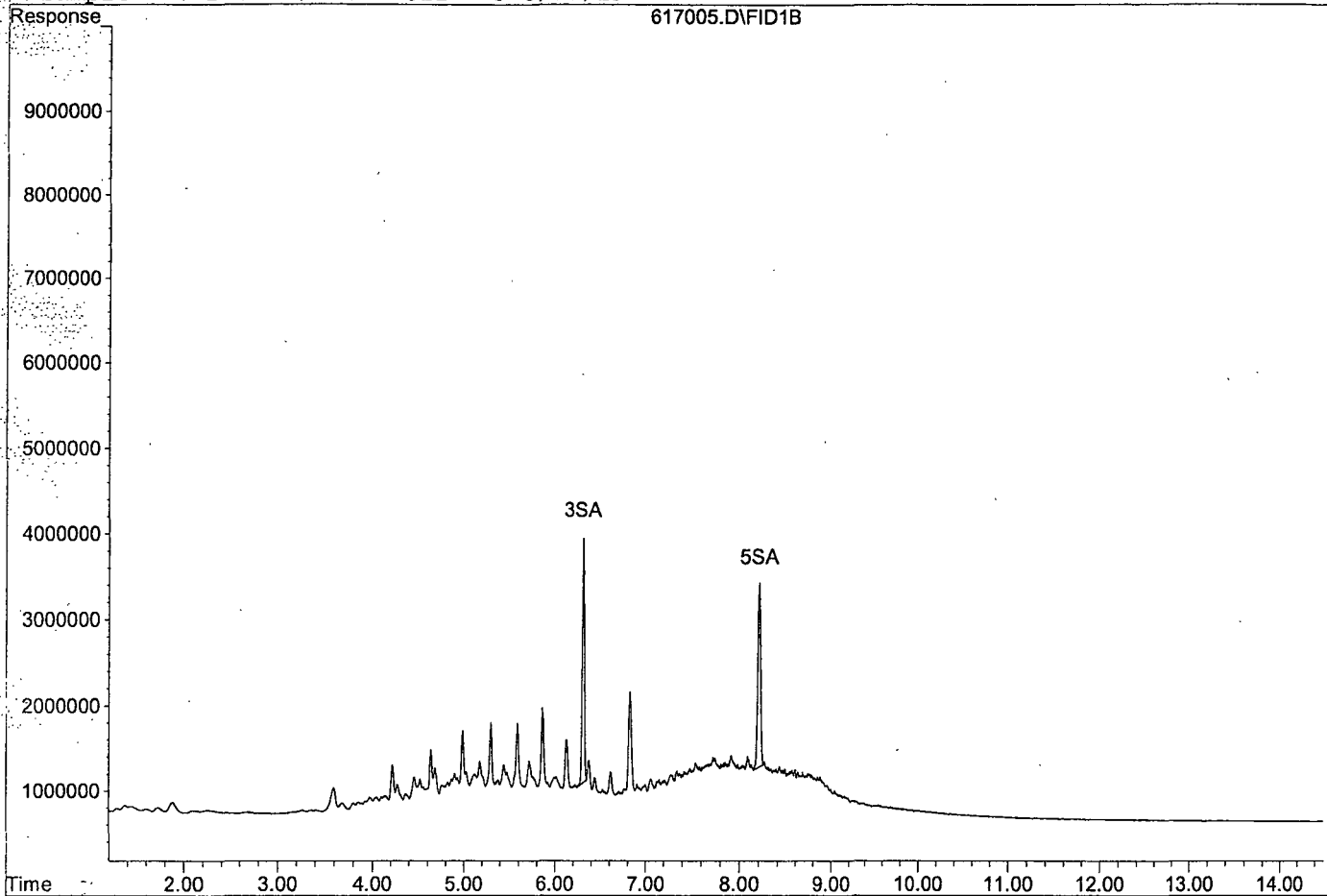
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.32	47422311	13.046 ppb
Surrogate Spike 37.500		Recovery =	34.79%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.21	45713919	12.420 ppb
Surrogate Spike 37.500		Recovery =	33.12%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	543816041	252.647 ppb
2) HBTM Motor Oil (C24-C40)	9.16	432625605	236.015 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190617\617005.D

Sample : Diesel/Motor Oil - 3 6/17/19



Data File : G:\APOLLO\DATA\190617\617006.D Vial: 6
 Acq On : 6-17-19 17:40:33 Operator: DP
 Sample : Diesel/Motor Oil - 4 6/17/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:03 2019 Quant Results File: DOC0617.RES

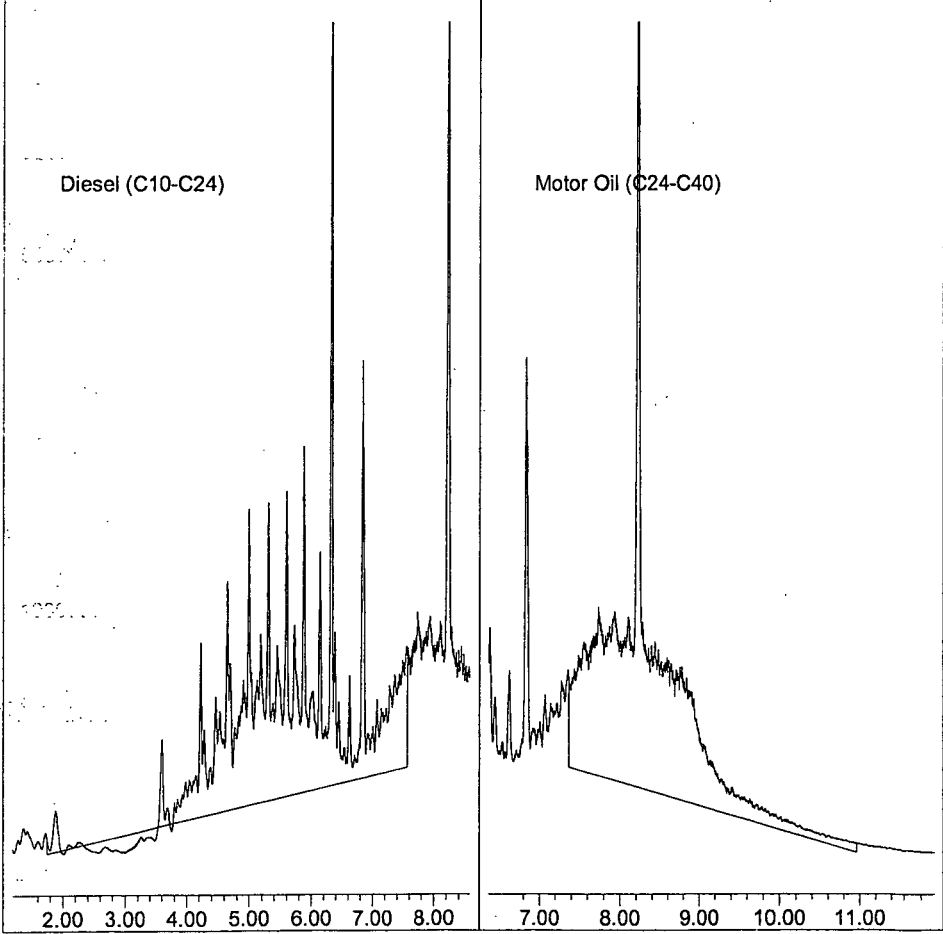
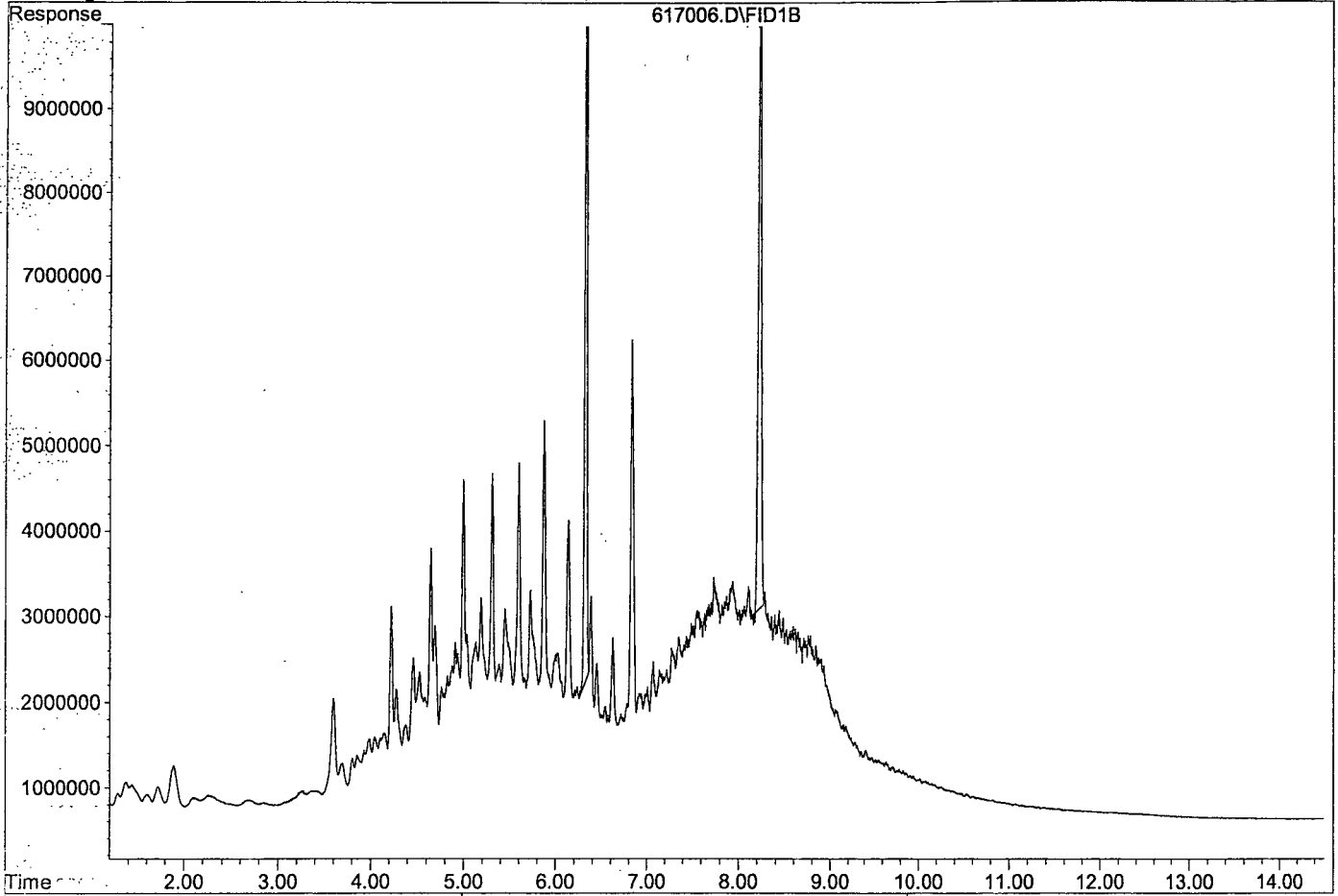
Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.33	172133037	47.355 ppb
Surrogate Spike 37.500		Recovery =	126.28%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.22	167399224	45.482 ppb
Surrogate Spike 37.500		Recovery =	121.29%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	2102569494	972.770 ppb
2) HBTM-Motor Oil (C24-C40)	9.16	1622398534	885.085 ppb
Target Compounds			

Data File: G:\APOLLO\DATA\190617\617006.D

Sample : Diesel/Motor Oil - 4 6/17/19



Data File : G:\APOLLO\DATA\190617\617007.D Vial: 7
 Acq On : 6-17-19 18:00:01 Operator: DP
 Sample : Diesel/Motor Oil - 5 6/17/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:03 2019 Quant Results File: DOC0617.RES

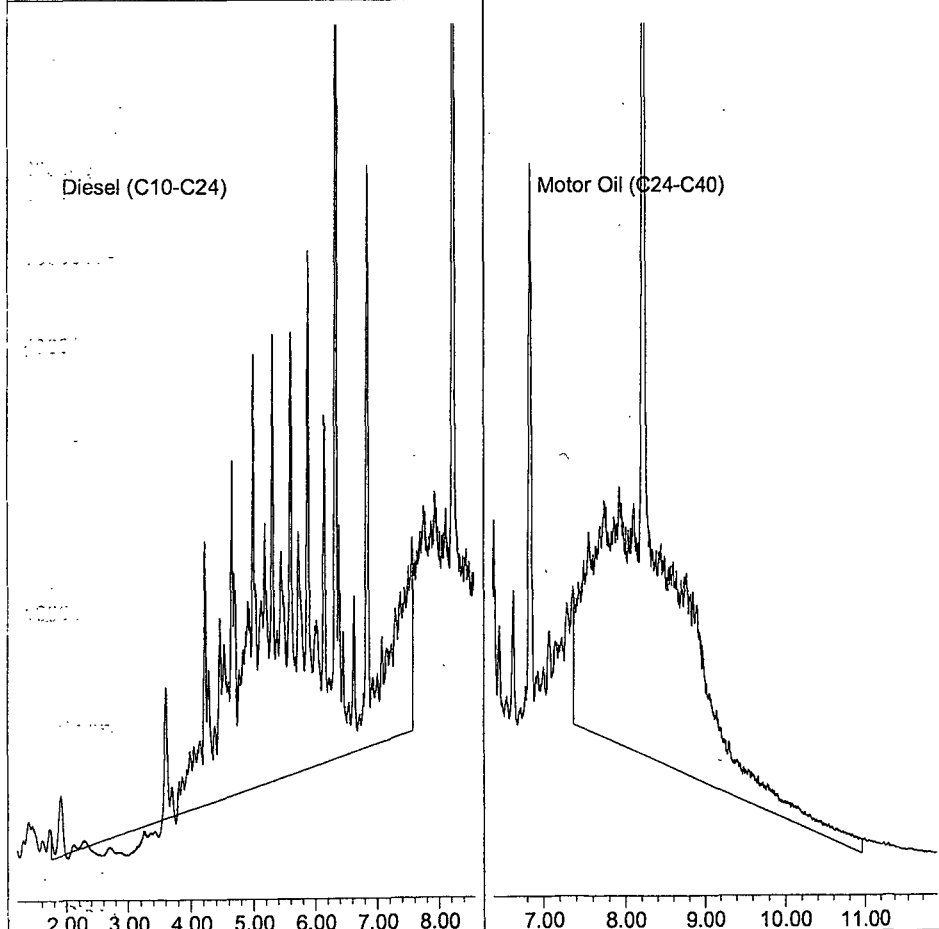
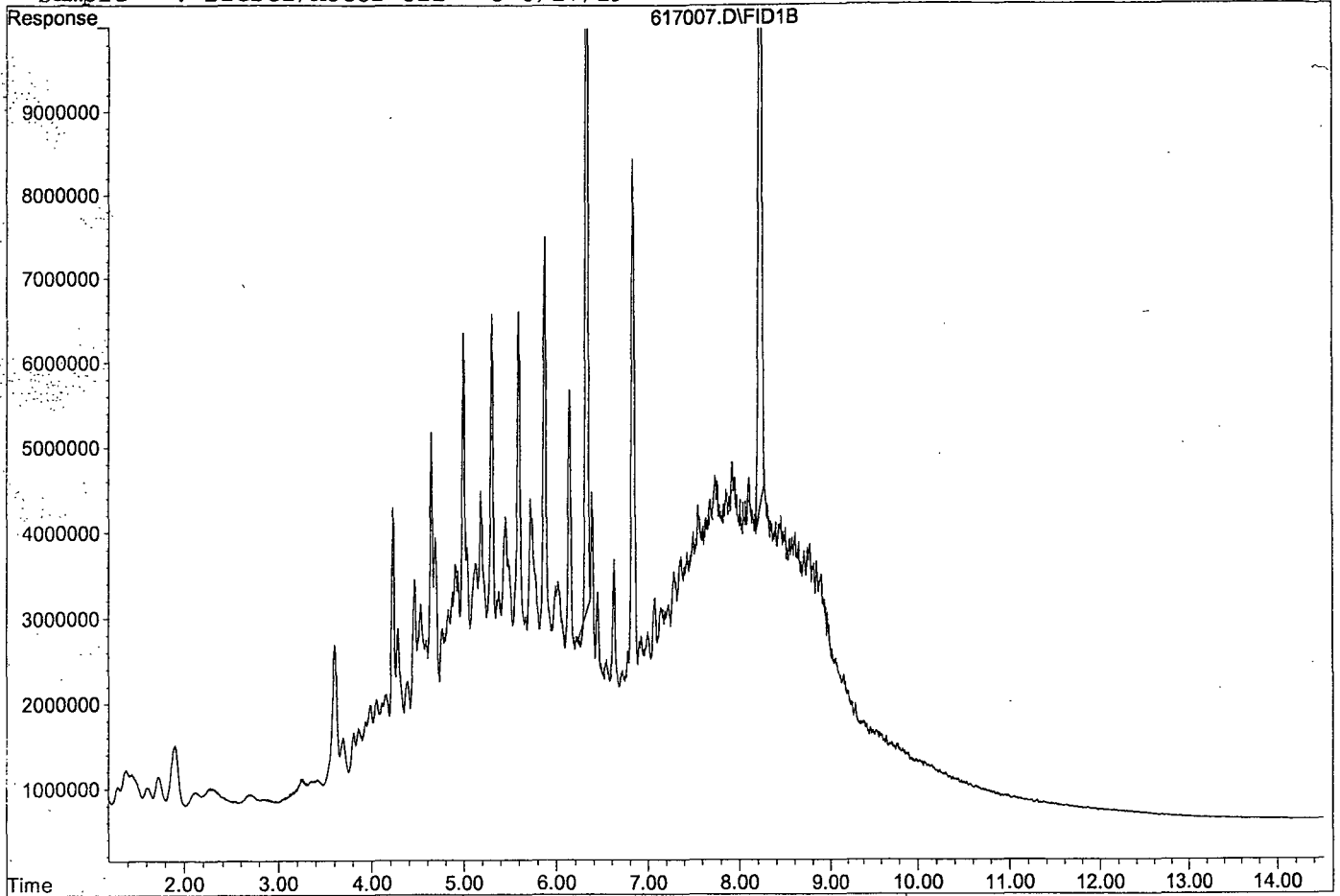
Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.33	243335035	66.943 ppb
Surrogate Spike 37.500		Recovery =	178.51%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.23	248180866	67.430 ppb
Surrogate Spike 37.500		Recovery =	179.81%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	3176057733	1468.706 ppb
2) HBTM Motor Oil (C24-C40)	9.16	2383445329	1300.267 ppb

Target Compounds

Data File: G:\APOLLO\DATA\190617\617007.D
Sample : Diesel/Motor Oil - 5 6/17/19



Data File : G:\APOLLO\DATA\190617\617008.D Vial: 8
 Acq On : 6-17-19 18:20:06 Operator: DP
 Sample : Diesel/Motor Oil - 6 6/17/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:02 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

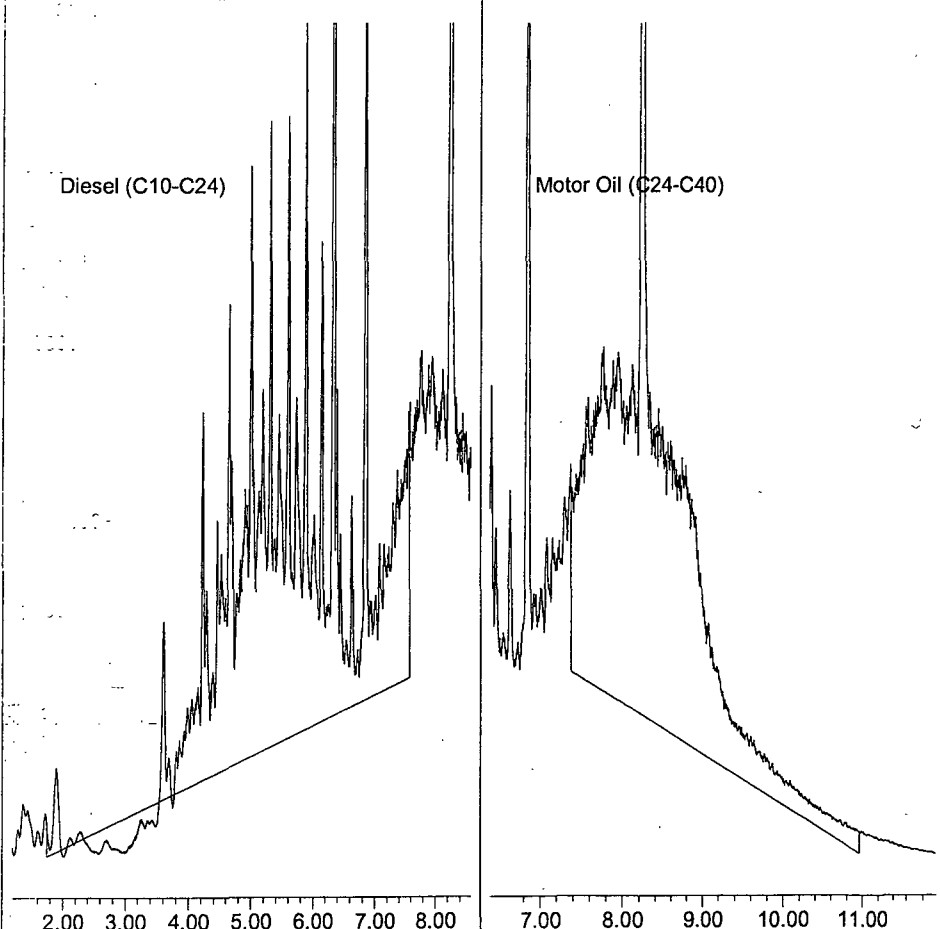
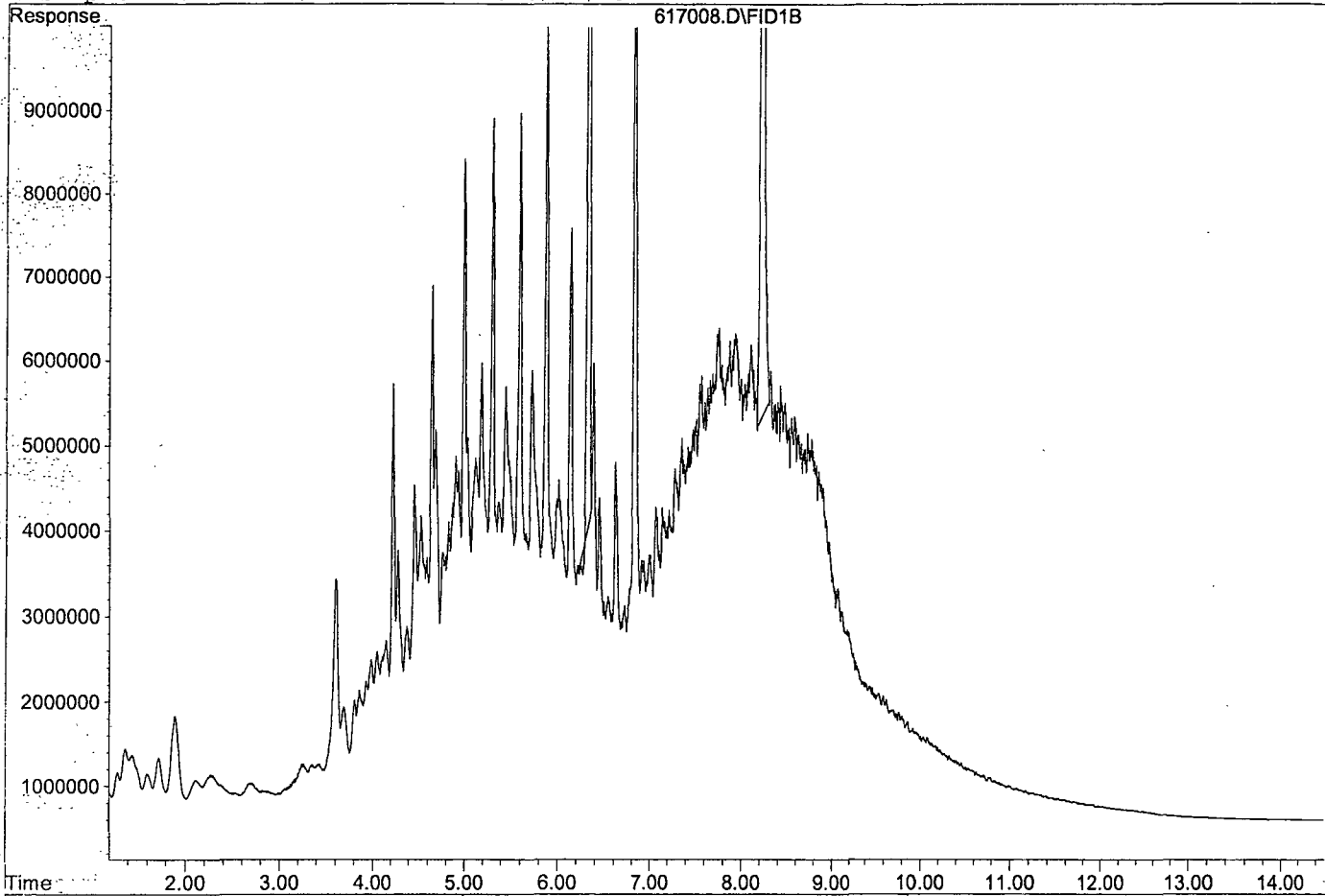
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.34	341007115	93.814 ppb
Surrogate Spike 37.500		Recovery =	250.17%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.23	386797753	105.093 ppb
Surrogate Spike 37.500		Recovery =	280.25%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	4405297136	2036.598 ppb
2) HBTM-Motor Oil (C24-C40)	9.16	3395096242	1852.164 ppb

Target Compounds

Data File: G:\APOLLO\DATA\190617\617008.D

Sample : Diesel/Motor Oil - 6/6/17/19



TPH Extractables
DOC0617

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: Water

SDG No: _____
Date Analyzed: 06/17/19
Instrument: Apollo
Initial Cal. Date: 06/17/19
Data File: 617009.D

	Compound	MEAN	CCRF	%D	%Drift
1	HATM Diesel (C10-C24)	1351010	1018430	25	HATML 5.3
2	HBTM Motor Oil (C24-C40)	916522	873901	4.7	HBTM
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
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32					
33					
34					
35					
36					
37					
38					
39					
40	Average			14.9	

Data File : G:\APOLLO\DATA\190617\617009.D Vial: 9
 Acq On : 6-17-19 18:39:28 Operator: DP
 Sample : Diesel/Motor Oil Second Source 1/15/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:21 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

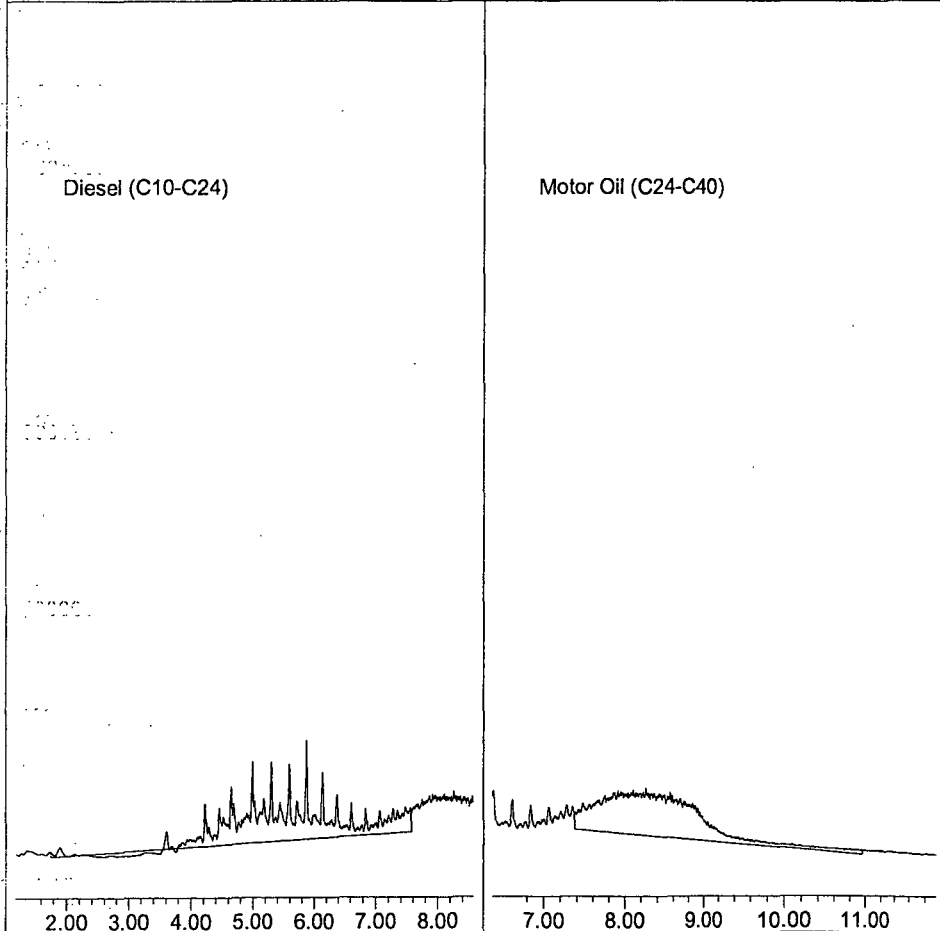
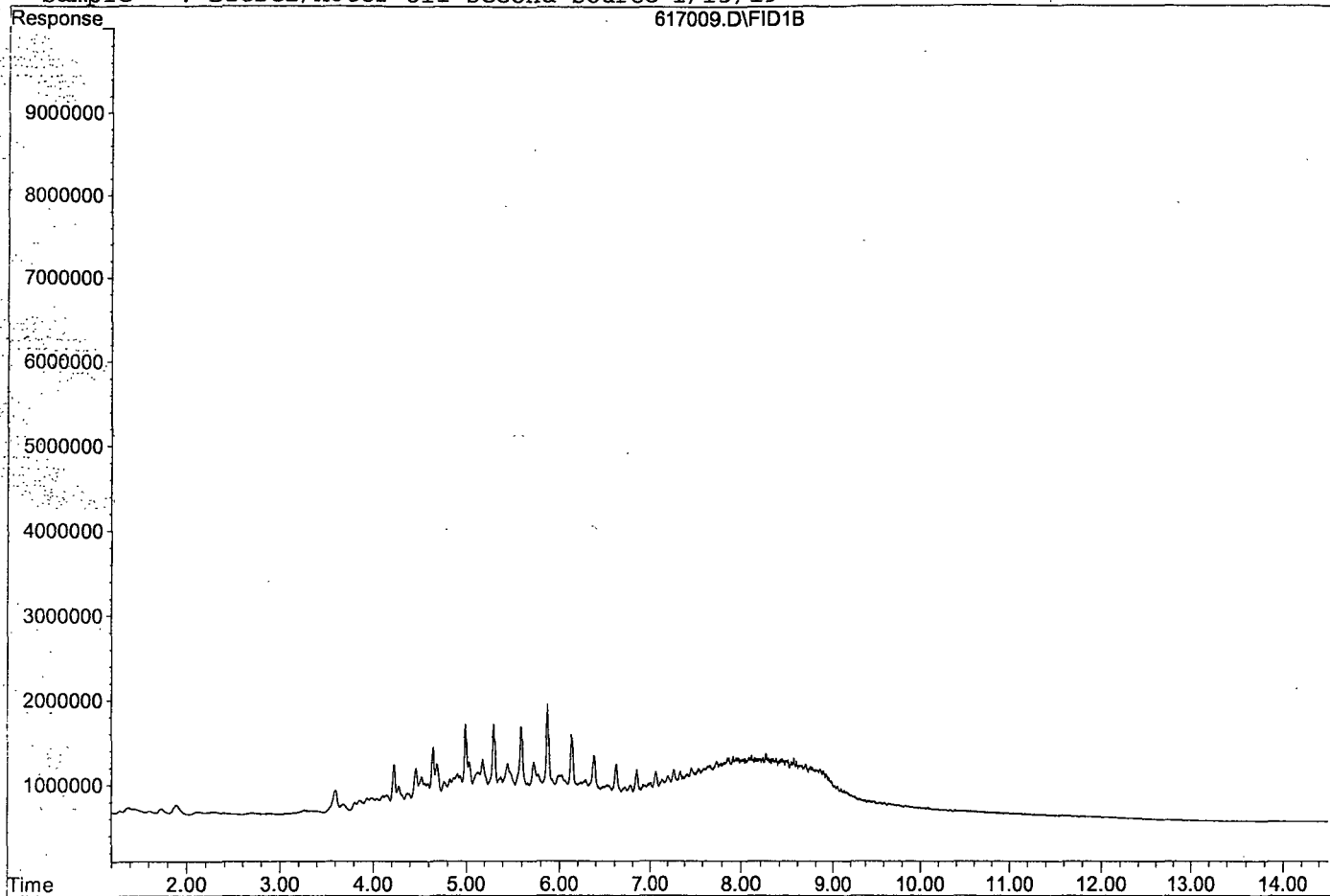
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	0.00	0	N.D. ppb d
Surrogate Spike 37.500		Recovery =	0.00%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	0.00	0	N.D. ppb d
Surrogate Spike 37.500		Recovery =	0.00%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	509215791	236.663 ppb
2) HBTM Motor Oil (C24-C40)	9.16	436950596	238.374 ppb

Target Compounds

Data File: G:\APOLLO\DATA\190617\617009.D

Sample : Diesel/Motor Oil Second Source 1/15/19

617009.D\FID1B



Data File : G:\APOLLO\DATA\190411\411009.D Vial: 9
 Acq On : 4-11-19 15:57:31 Operator: DP
 Sample : Decanoic Acid - 1 4/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:04 2019 Quant Results File: DOC0617.RES

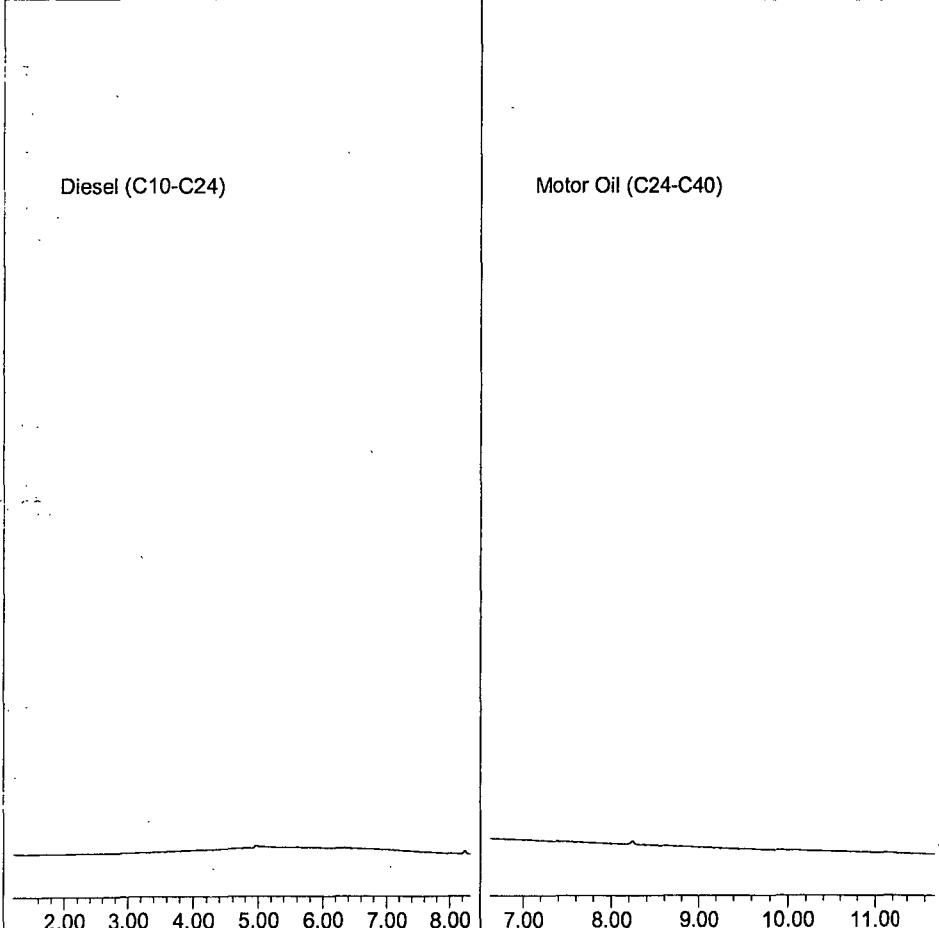
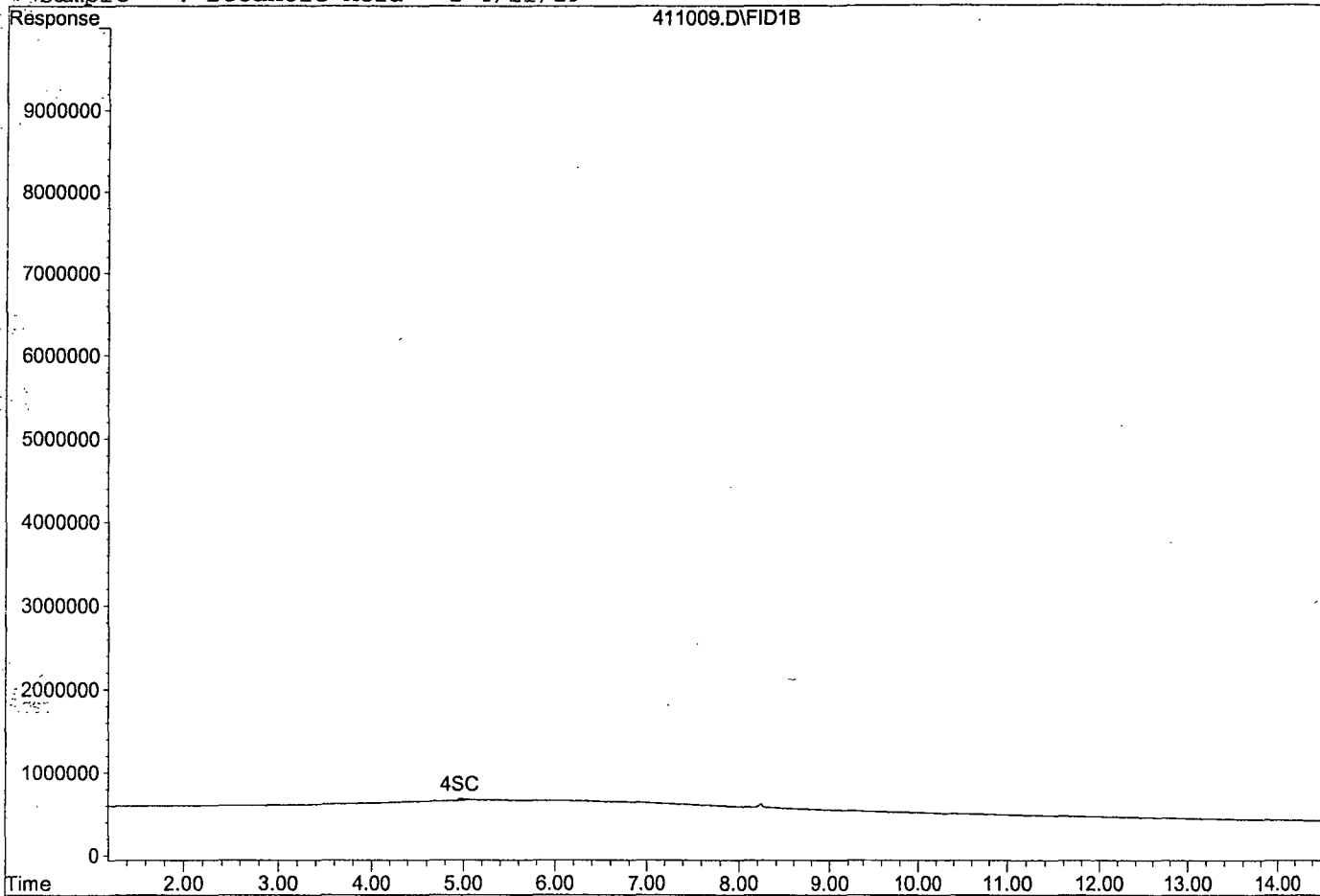
Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
4) SC Decanoic Acid(S)	4.95	901062	3.555	ppb m
Surrogate Spike 24.000		Recovery =	14.81%	
5) SA Octacosane(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
Target Compounds				
Target Compounds				
1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb

Data File: G:\APOLLO\DATA\190411\411009.D

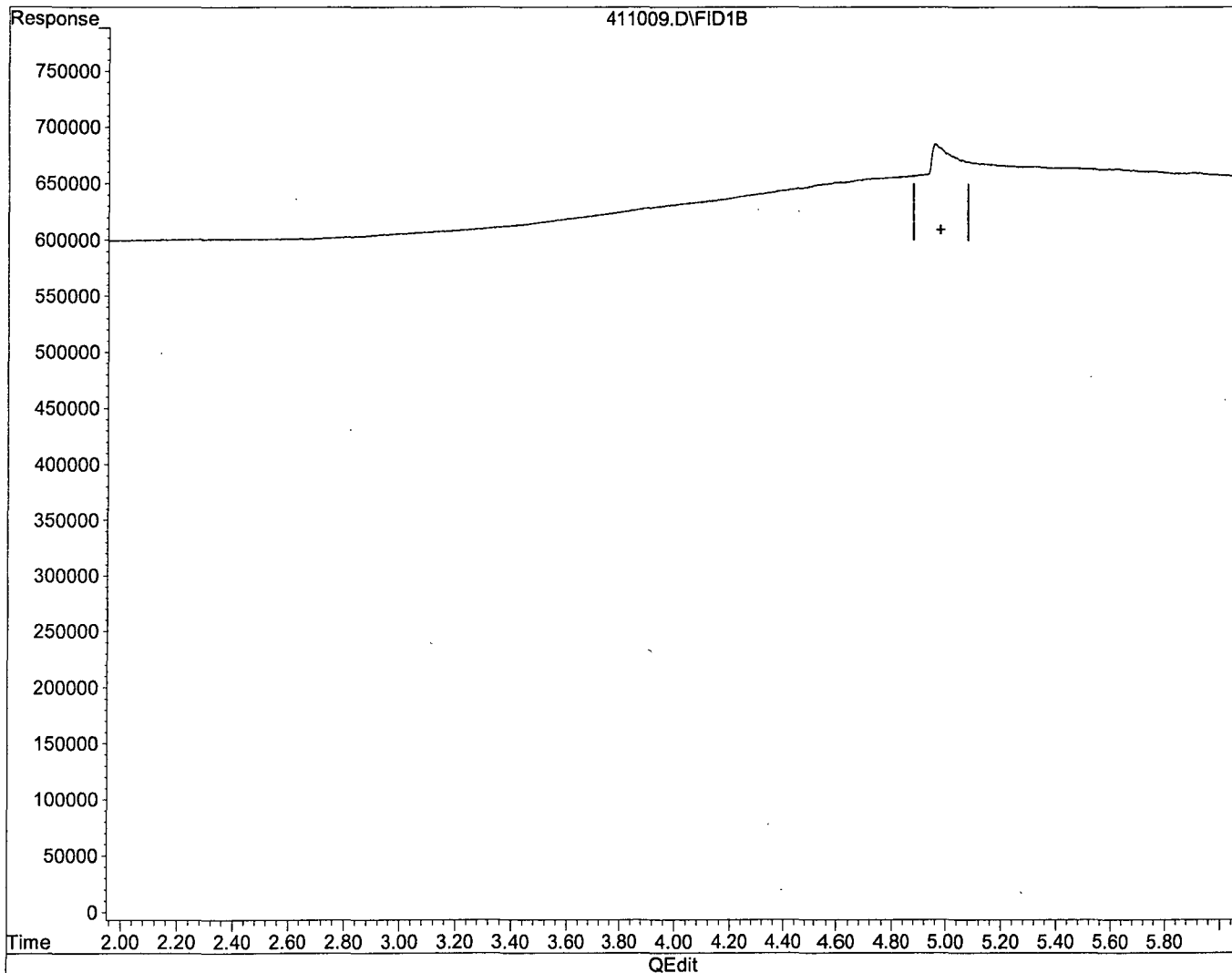
Sample : Decanoic Acid - 1 4/11/19



Quantitation Report

Data File : G:\APOLLO\DATA\190411\411009.D Vial: 9
Acq On : 4-11-19 15:57:31 Operator: DP
Sample : Decanoic Acid - 1 4/11/19 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Jul 17 10:01 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Jul 17 09:56:49 2019
Response via : Multiple Level Calibration

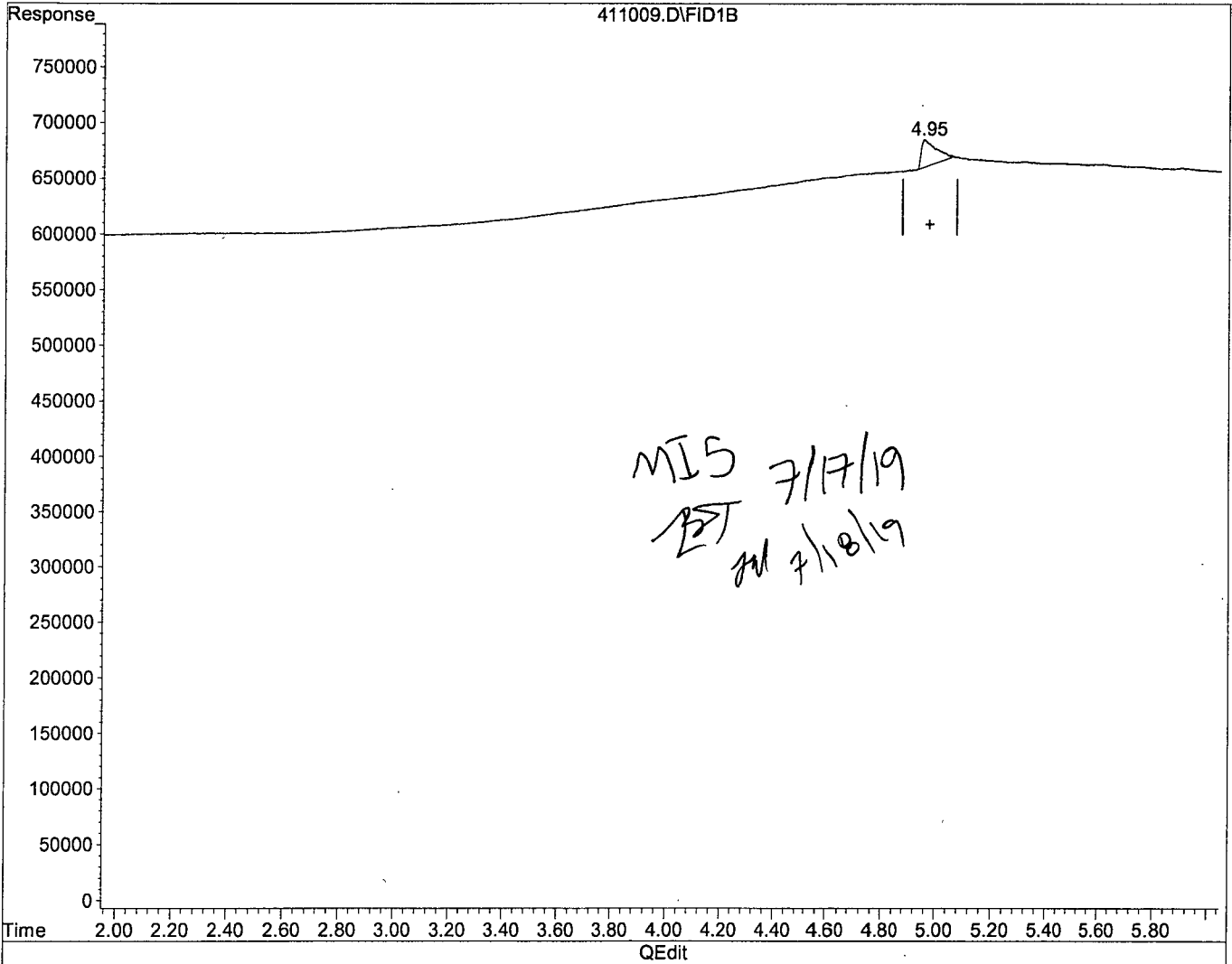


(4) Decanoic Acid(S) (SC)
4.96min -2.682ppb
response -6352807

Quantitation Report

Data File : G:\APOLLO\DATA\190411\411009.D Vial: 9
Acq On : 4-11-19 15:57:31 Operator: DP
Sample : Decanoic Acid - 1 4/11/19 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Jul 17 10:01 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Jul 17 09:56:49 2019
Response via : Multiple Level Calibration



(4) Decanoic Acid(S) (SC)

4.95min 3.555ppb m

response 901062

Data File : G:\APOLLO\DATA\190411\411010.D Vial: 10
 Acq On : 4-11-19 16:16:26 Operator: DP
 Sample : Decanoic Acid - 2 4/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:04 2019 Quant Results File: DOC0617.RES

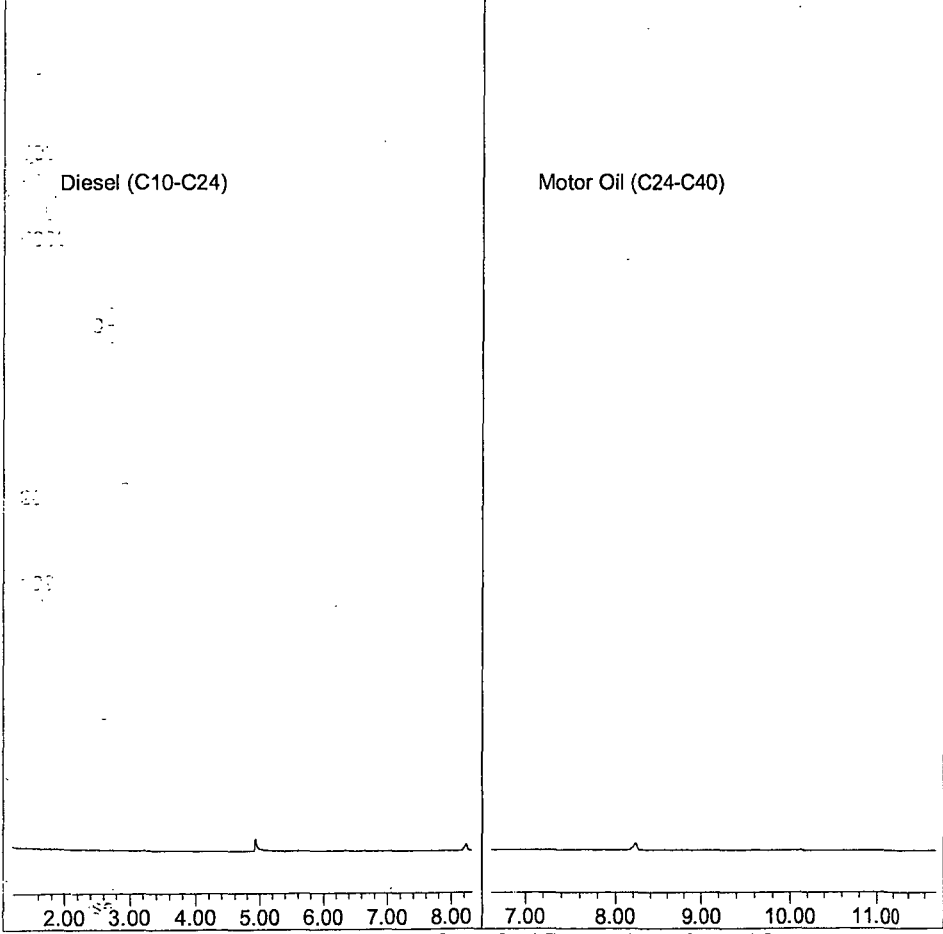
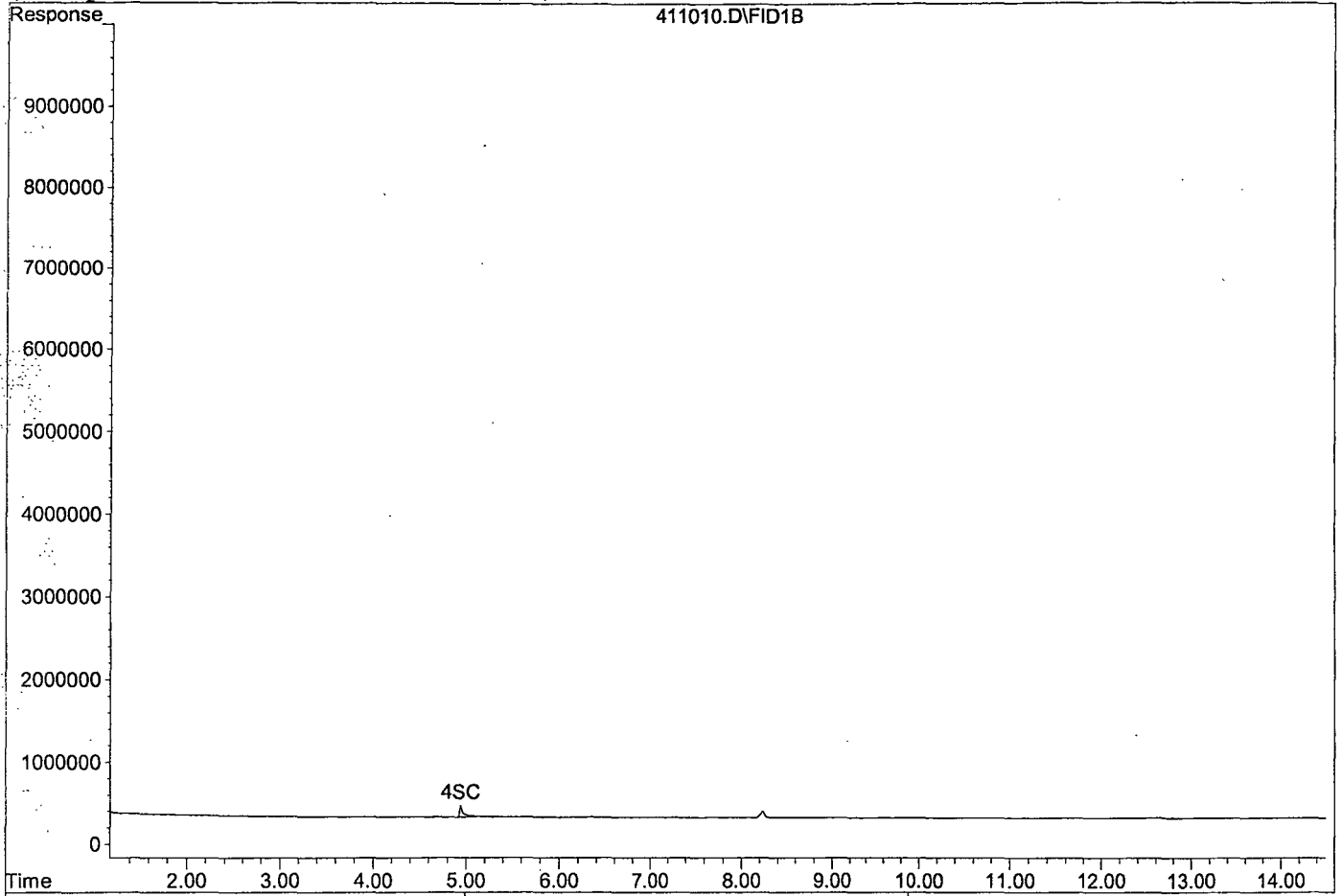
Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
4) SC Decanoic Acid(S)	4.94	3775239	6.027	ppb
Surrogate Spike 24.000		Recovery =	25.11%	
5) SA Octacosane(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
Target Compounds				
Target Compounds				
1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb

Data File: G:\APOLLO\DATA\190411\411010.D

Sample : Decanoic Acid - 2 4/11/19



Data File : G:\APOLLO\DATA\190411\411011.D Vial: 11
 Acq On : 4-11-19 16:36:04 Operator: DP
 Sample : Decanoic Acid - 3 4/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:04 2019 Quant Results File: DOC0617.RES

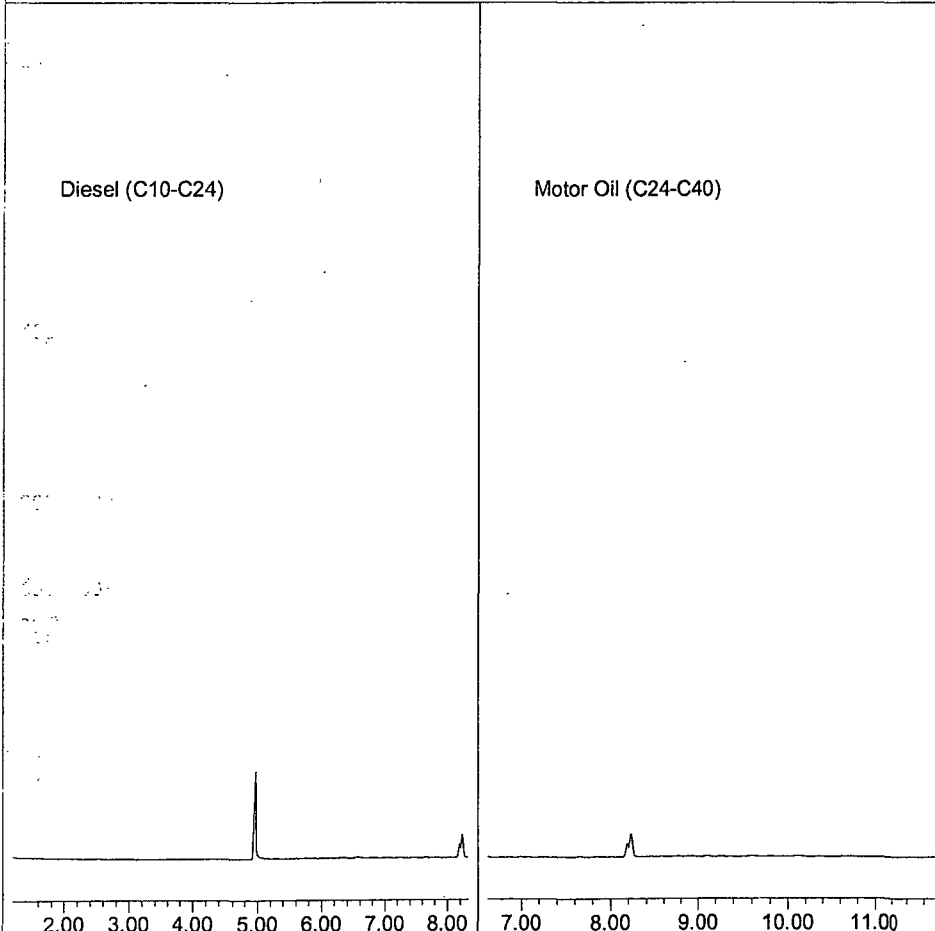
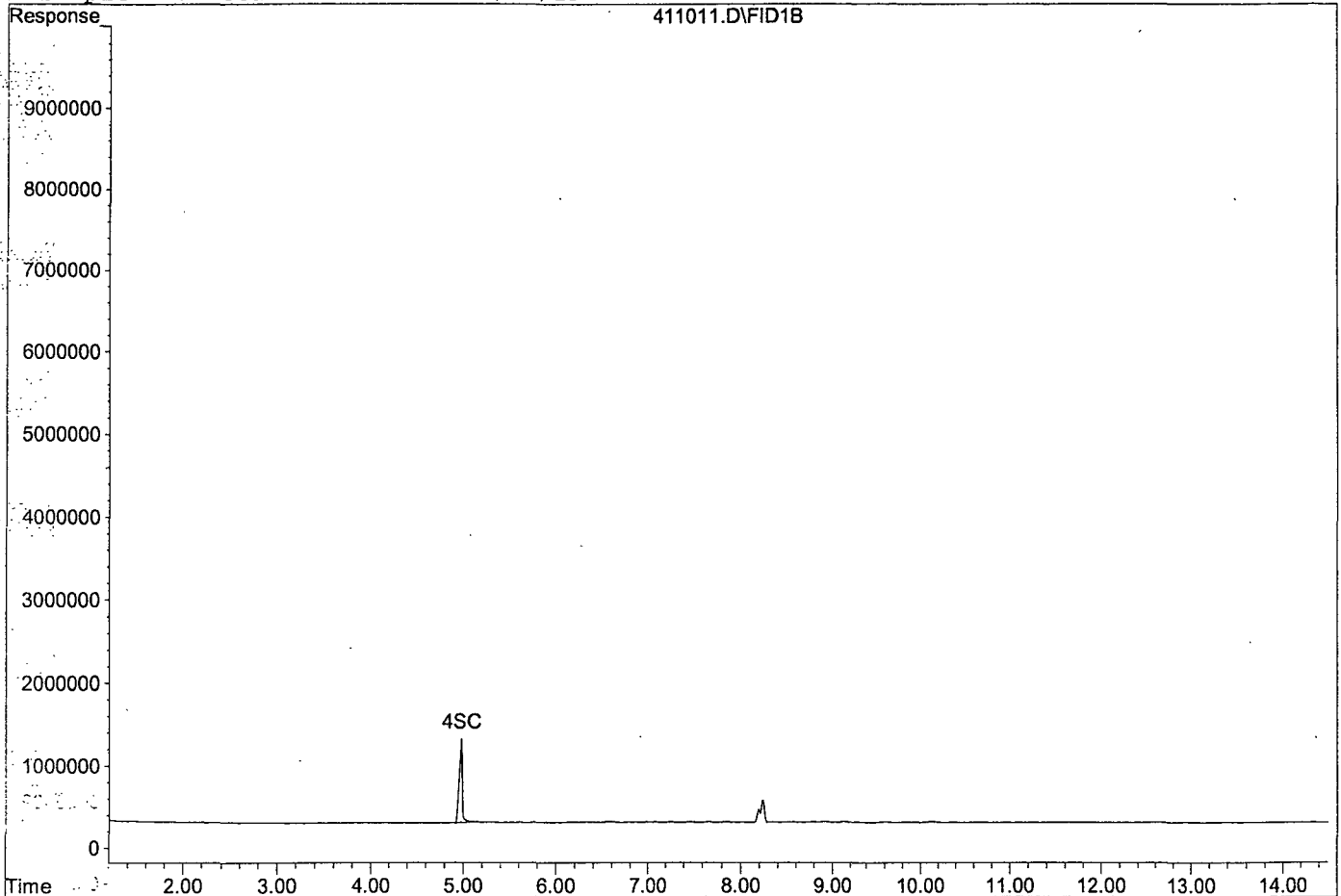
Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
4) SC Decanoic Acid(S)	4.97	23638982	23.106	ppb
Surrogate Spike 24.000		Recovery =	96.28%	
5) SA Octacosane(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
Target Compounds				
Target Compounds				
1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb

Data File: G:\APOLLO\DATA\190411\411011.D

Sample : Decanoic Acid - 3 4/11/19



Data File : G:\APOLLO\DATA\190411\411012.D Vial: 12
 Acq On : 4-11-19 16:55:47 Operator: DP
 Sample : Decanoic Acid - 4 4/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:04 2019 Quant Results File: DOC0617.RES

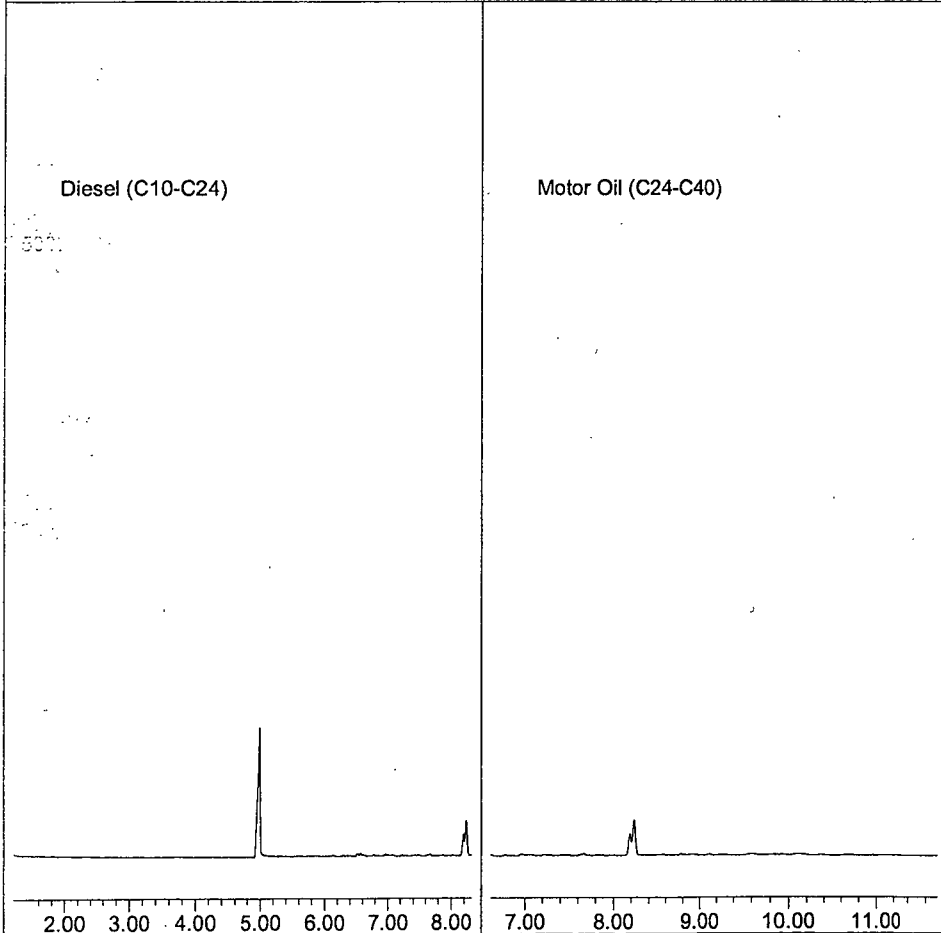
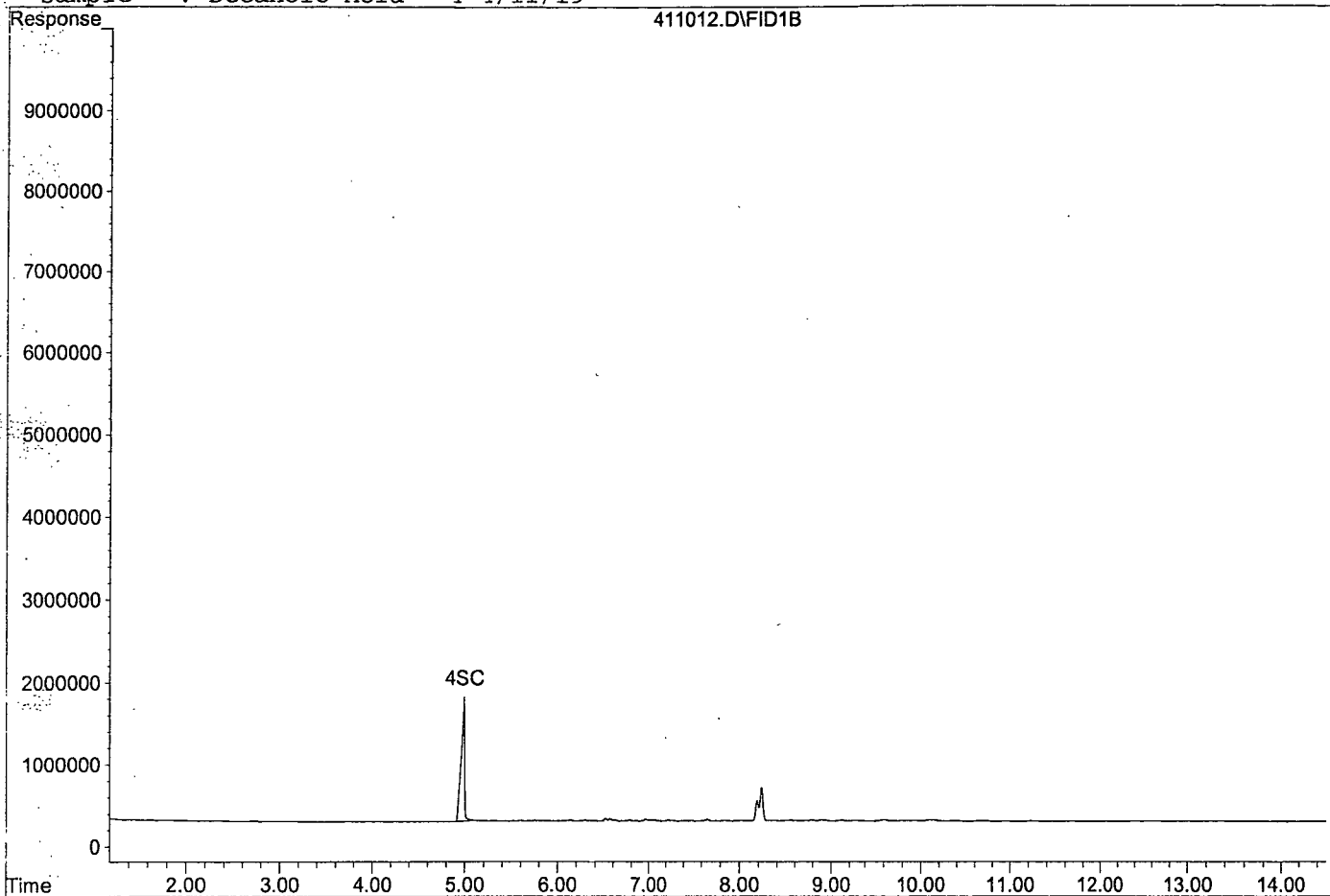
Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
4) SC Decanoic Acid(S)	4.99	38673628	36.034	ppb
Surrogate Spike 24.000		Recovery =	150.14%	
5) SA Octacosane(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
Target Compounds				
Target Compounds				
1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb

Data File: G:\APOLLO\DATA\190411\411012.D

Sample : Decanoic Acid - 4 4/11/19



Data File : G:\APOLLO\DATA\190411\411013.D Vial: 13
 Acq On : 4-11-19 17:15:26 Operator: DP
 Sample : Decanoic Acid - 5 4/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:04 2019 Quant Results File: DOC0617.RES

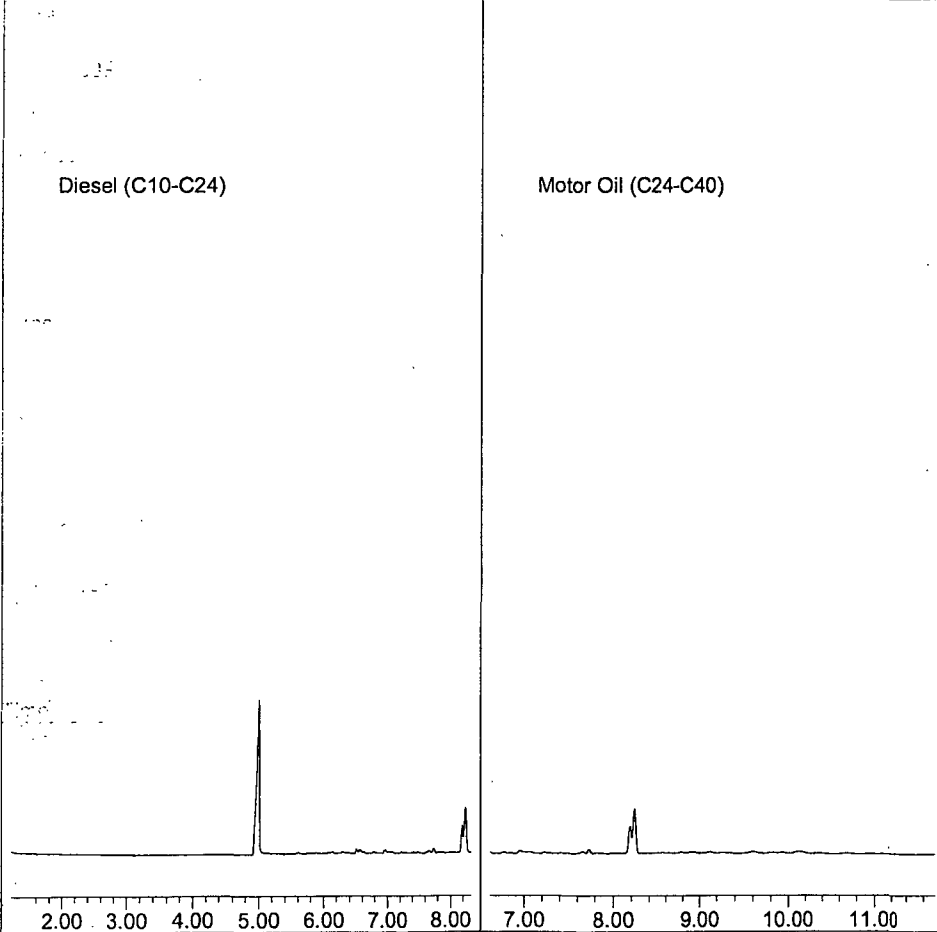
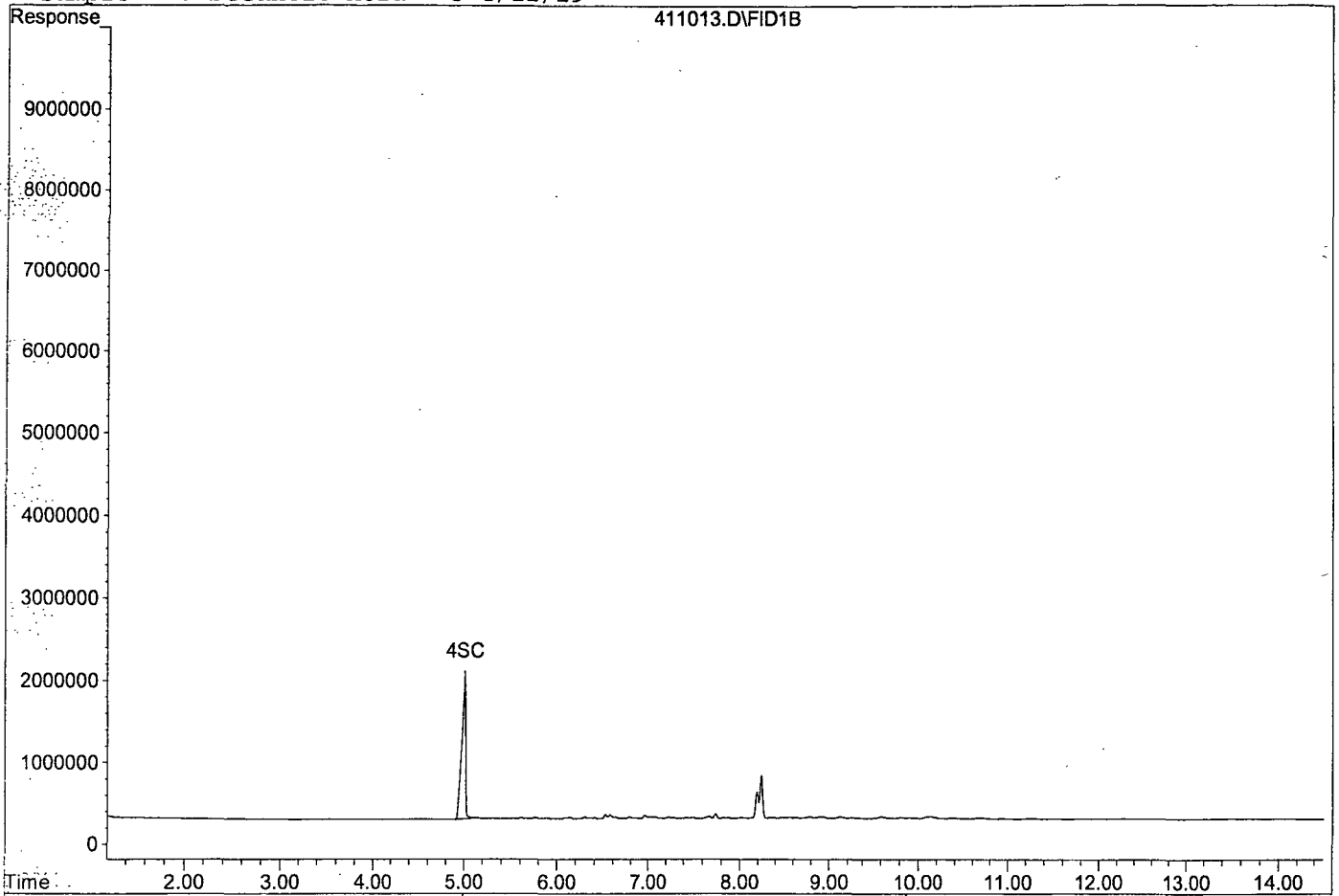
Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
4) SC Decanoic Acid(S)	5.00	52115206	47.592	ppb
Surrogate Spike 24.000		Recovery =	198.30%	
5) SA Octacosane(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
Target Compounds				
Target Compounds				
1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb

Data File: G:\APOLLO\DATA\190411\411013.D

Sample : Decanoic Acid - 5 4/11/19



Data File : G:\APOLLO\DATA\190411\411014.D Vial: 14
 Acq On : 4-11-19 17:35:11 Operator: DP
 Sample : Decanoic Acid - 6 4/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:05 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

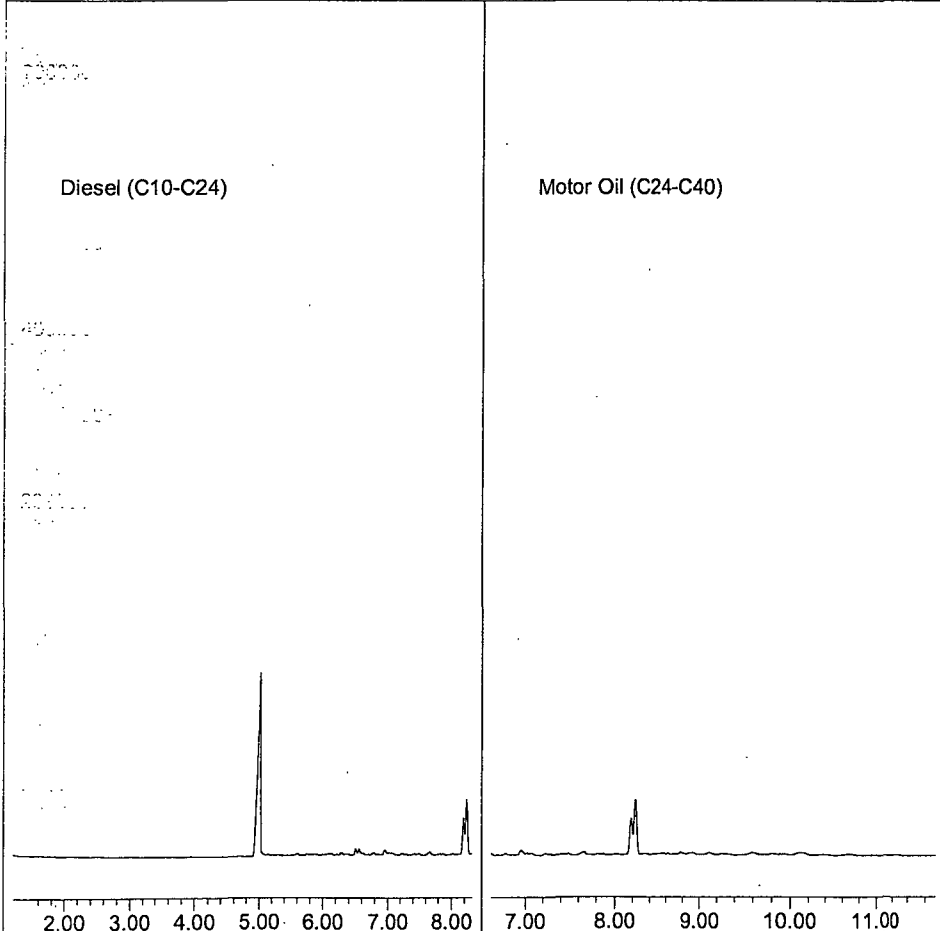
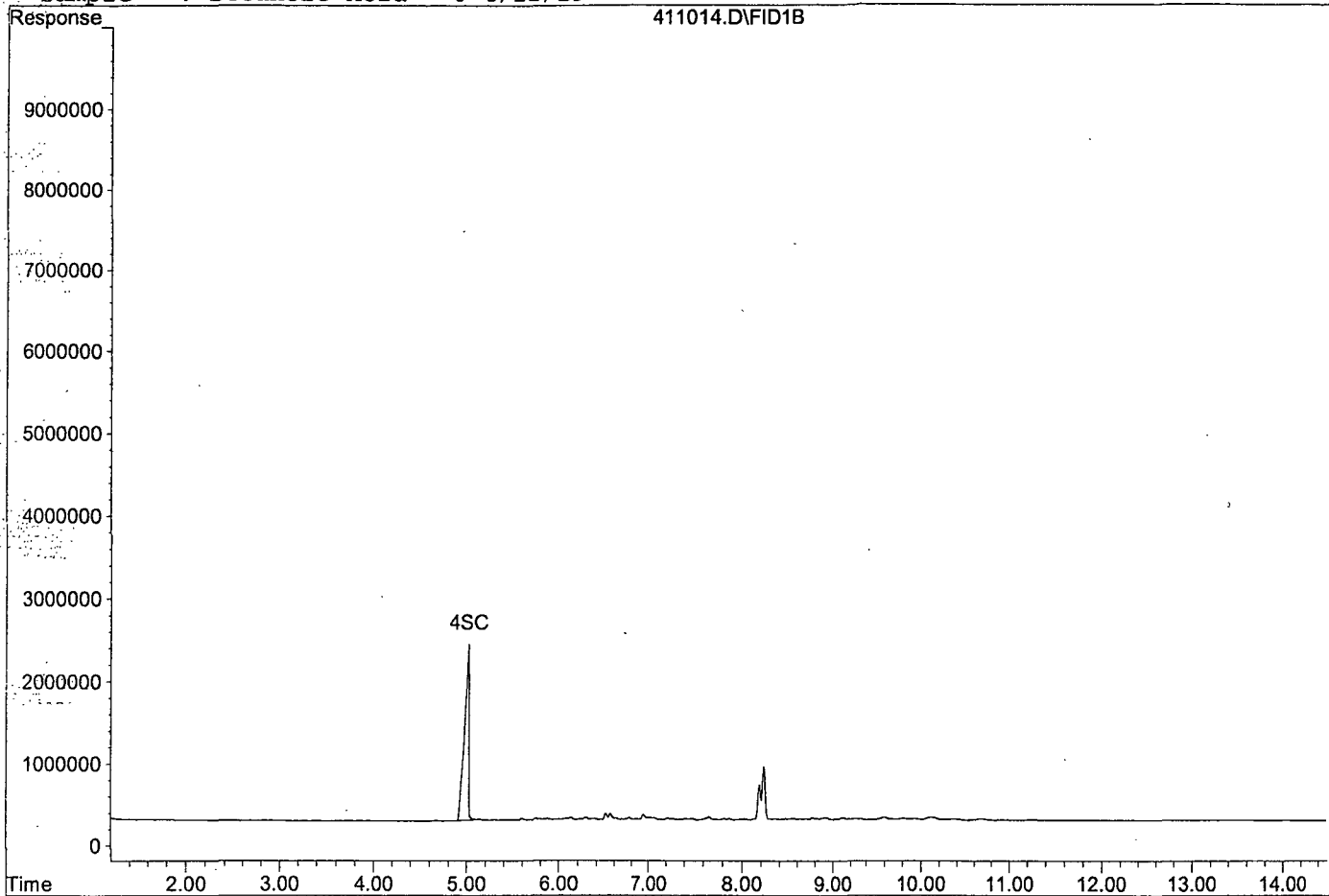
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
4) SC Decanoic Acid(S)	5.02	67279572	60.631	ppb
Surrogate Spike 24.000		Recovery =	252.63%	
5) SA Octacosane(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	

Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb

Data File: G:\APOLLO\DATA\190411\411014.D

Sample : Decanoic Acid - 6 4/11/19



TPH Extractables
DOC0617

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 8/5/2019

Matrix: Water

Instrument: Apollo

Initial Cal. Date: 6/17/2019

Data File: 801023.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C24)	1351010	1116000	17	HATML	3.7
2	HBTM	Motor Oil (C24-C40)	916522	932827	1.8	HBTM	
3	SA	Ortho-Terphenyl(S)	1817470	1900050	4.5	SA	
4	SA	Octacosane(S)	1840270	1923810	4.5	SA	
5							
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36							
37							
38							
39							
40							

Average

7.0

Data File : G:\APOLLO\DATA\190801\801023.D Vial: 23
 Acq On : 8-5-19 9:36:18 Operator: DP
 Sample : Diesel/Motor Oil CCV 7/19/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 8 17:28 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

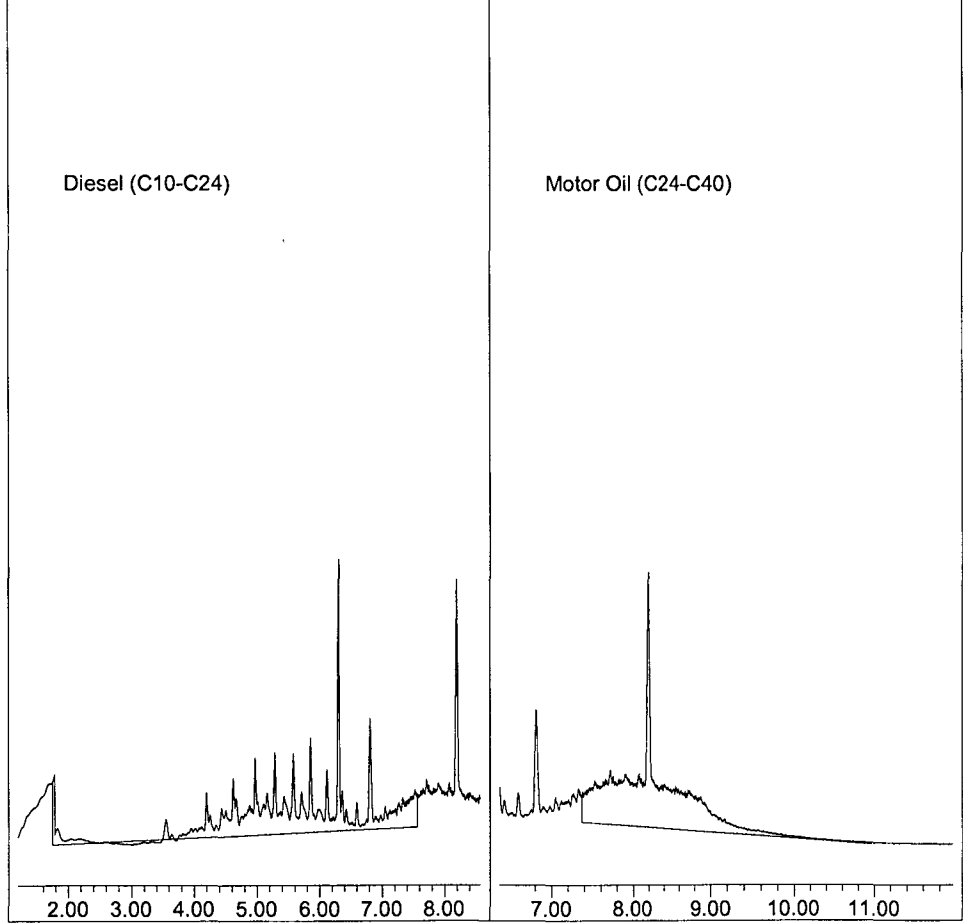
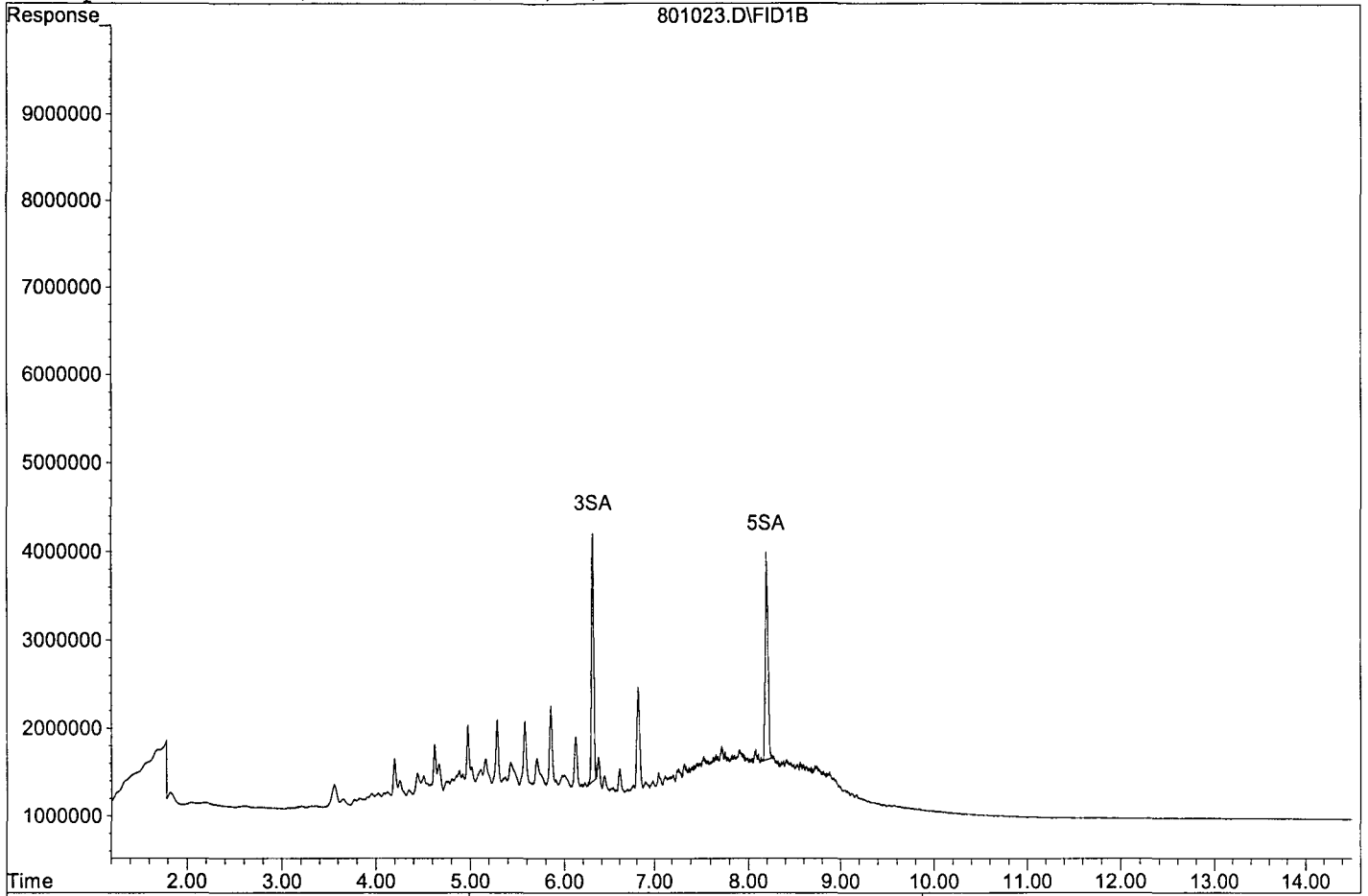
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.30	47501199	13.068 ppb
Surrogate Spike 30.000		Recovery =	43.56%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.20	48095217	13.067 ppb
Surrogate Spike 30.000		Recovery =	43.56%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	557997588	259.199 ppb
2) HBTM Motor Oil (C24-C40)	9.16	466413703	254.448 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190801\801023.D
Sample : Diesel/Motor Oil CCV 7/19/19



TPH Extractables
DOC0617

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: Water

SDG No: _____
Date Analyzed: 8/5/2019
Instrument: Apollo
Initial Cal. Date: 6/17/2019
Data File: 801031.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C24)	1351010	1096670	19	HATML	1.9
2	HBTM	Motor Oil (C24-C40)	916522	923733	0.79	HBTM	
3	SA	Ortho-Terphenyl(S)	1817470	1828790	0.62	SA	
4	SA	Octacosane(S)	1840270	1804120	2.0	SA	
5							
6							
7							
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31							
32							
33							
34							
35							
36							
37							
38							
39							
40		Average			5.6		

Data File : G:\APOLLO\DATA\190801\801031.D Vial: 31
 Acq On : 8-5-19 12:15:42 Operator: DP
 Sample : Diesel/Motor Oil CCV 7/19/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 8 17:30 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

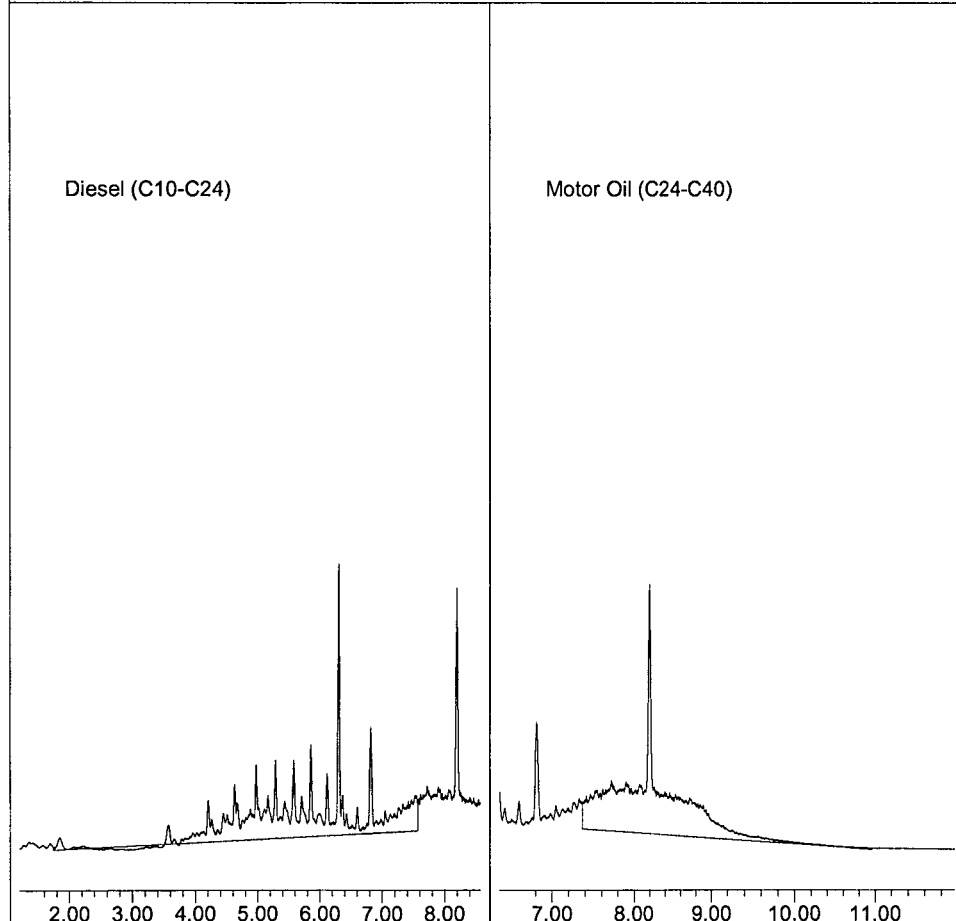
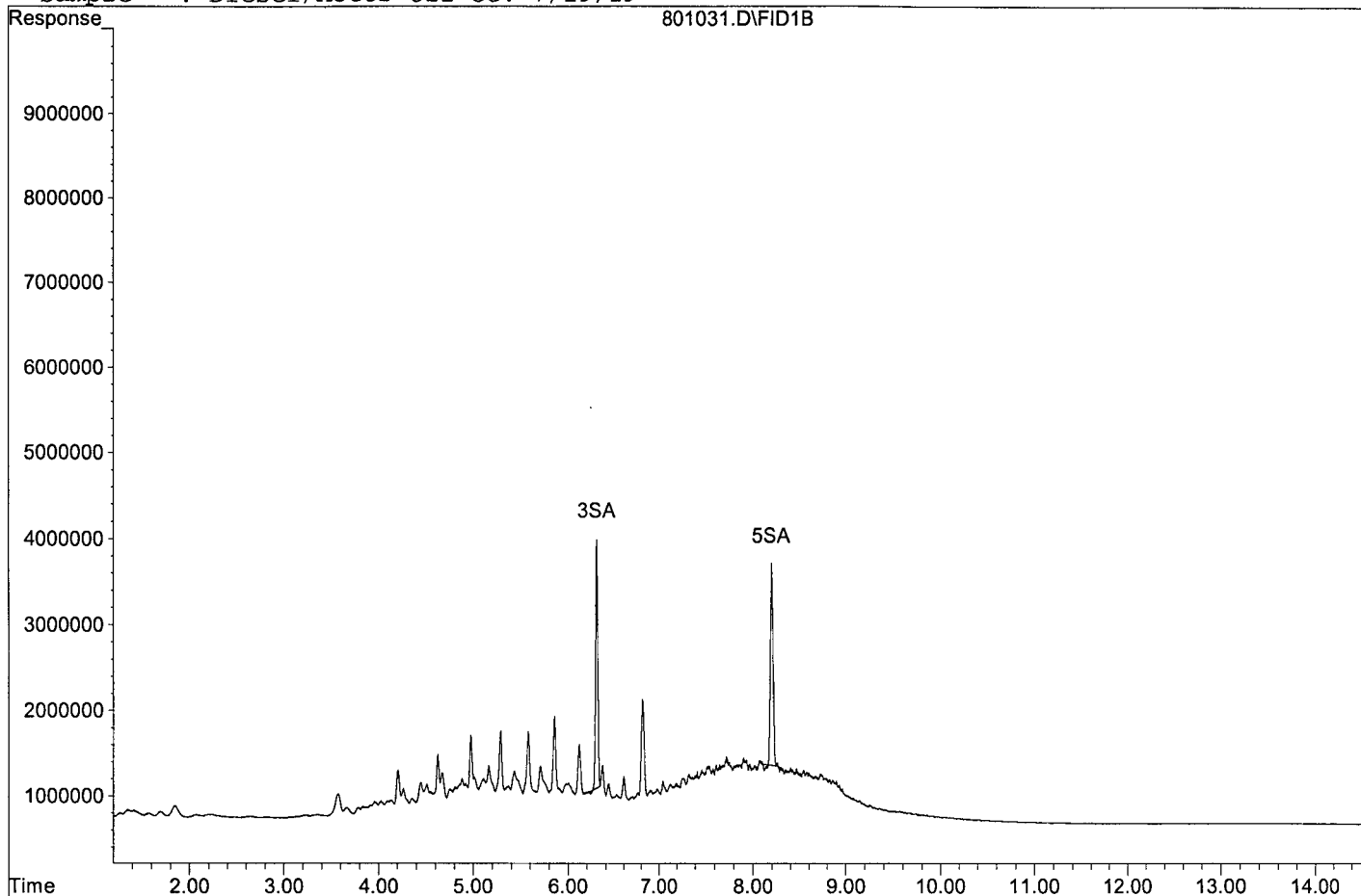
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	45719806	12.578 ppb
Surrogate Spike 30.000		Recovery =	41.93%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.20	45103124	12.254 ppb
Surrogate Spike 30.000		Recovery =	40.85%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	548333503	254.734 ppb
2) HBTM Motor Oil (C24-C40)	9.16	461866360	251.967 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190801\801031.D

Sample : Diesel/Motor Oil CCV 7/19/19



ORGANICS
Raw Data

Data File : G:\APOLLO\DATA\190801\801027.D Vial: 27
 Acq On : 8-5-19 10:55:35 Operator: DP
 Sample : AZ95511W13 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 8 17:32 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

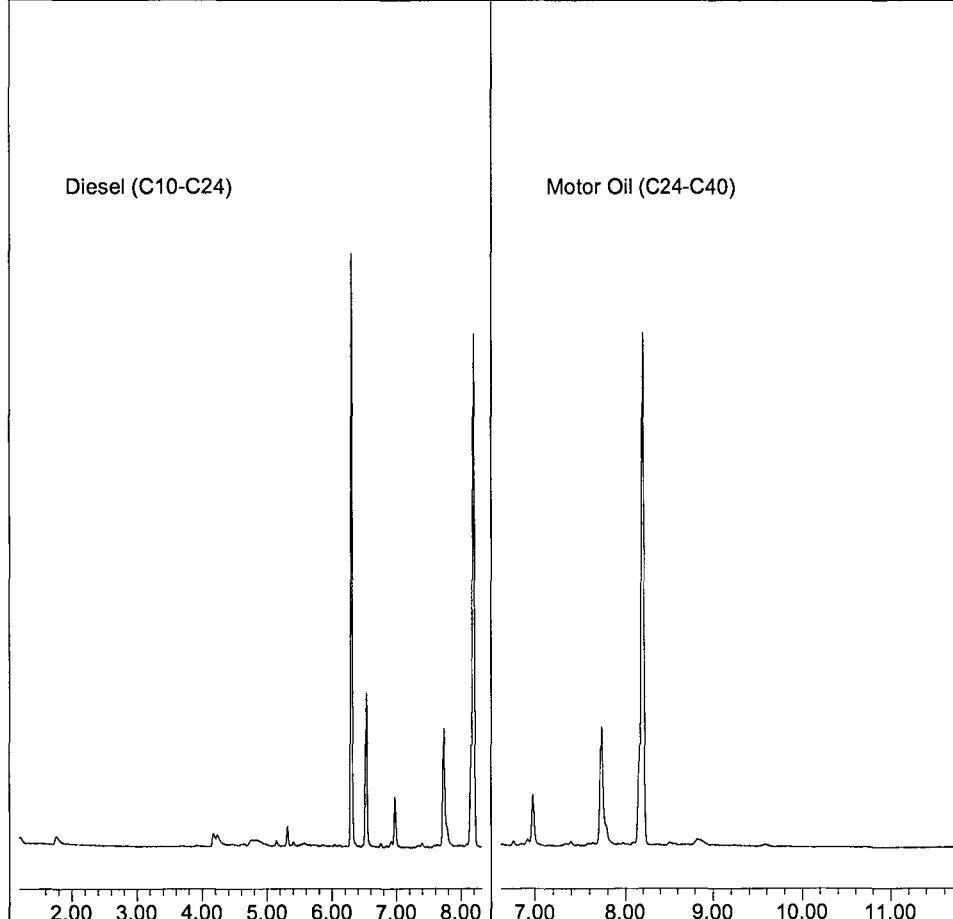
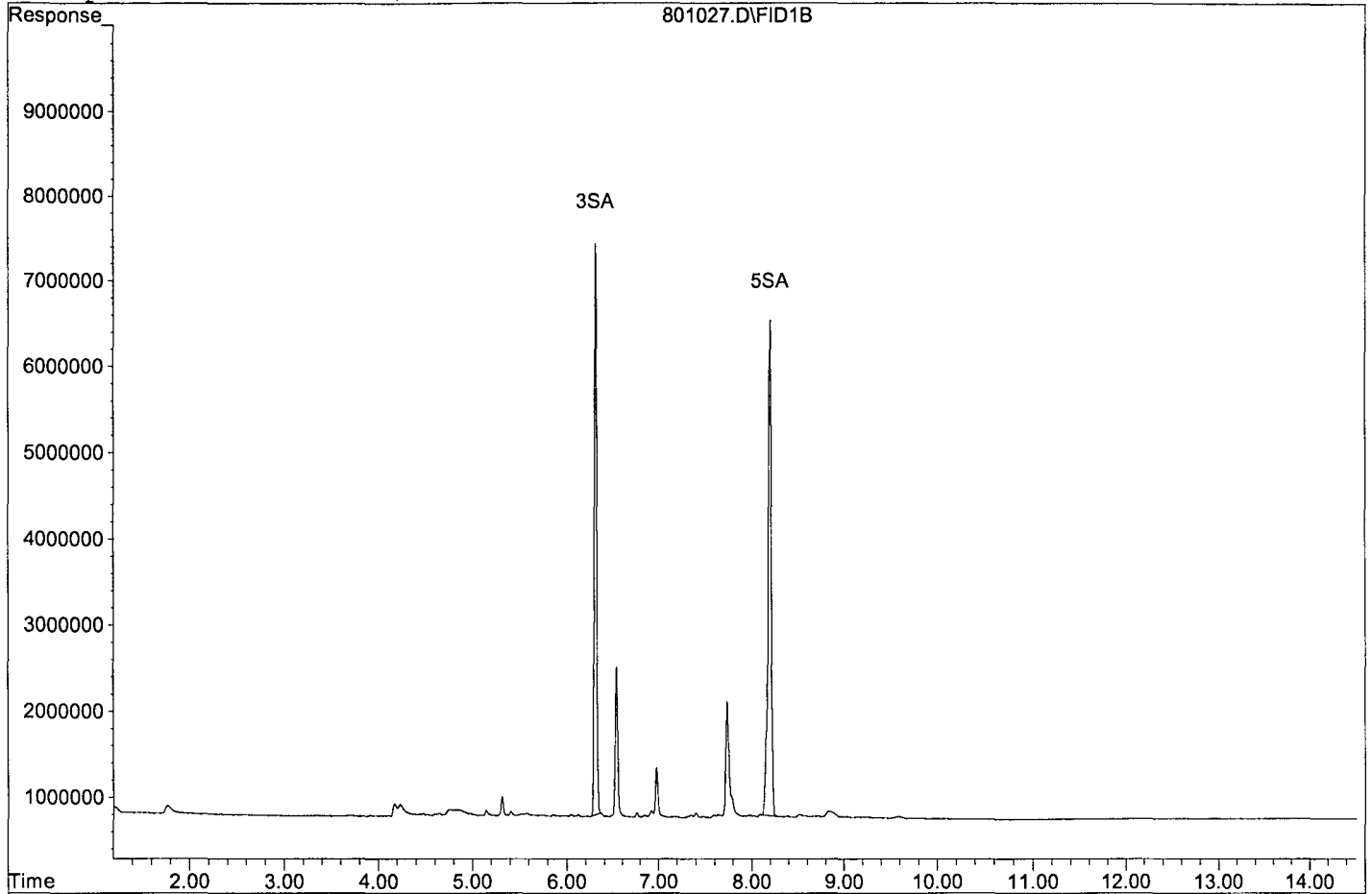
Compound	R.T.	Response	Conc	Units

System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	6.31	111016412	76.354	ppb
Surrogate Spike 75.000		Recovery =	101.81%	
4) SC Decanoic Acid(S)	0.00	0	N.D.	ppb d
Surrogate Spike 60.000		Recovery =	0.00%	
5) SA Octacosane(S)	8.20	139889863	95.020	ppb
Surrogate Spike 75.000		Recovery =	126.69%	
Target Compounds				
Target Compounds				
1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb

Quantitation Report

Data File: G:\APOLLO\DATA\190801\801027.D

Sample : AZ95511W13 2/800



Data File : G:\APOLLO\DATA\190801\801028.D Vial: 28
 Acq On : 8-5-19 11:15:33 Operator: DP
 Sample : AZ95513W16 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 8 17:32 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

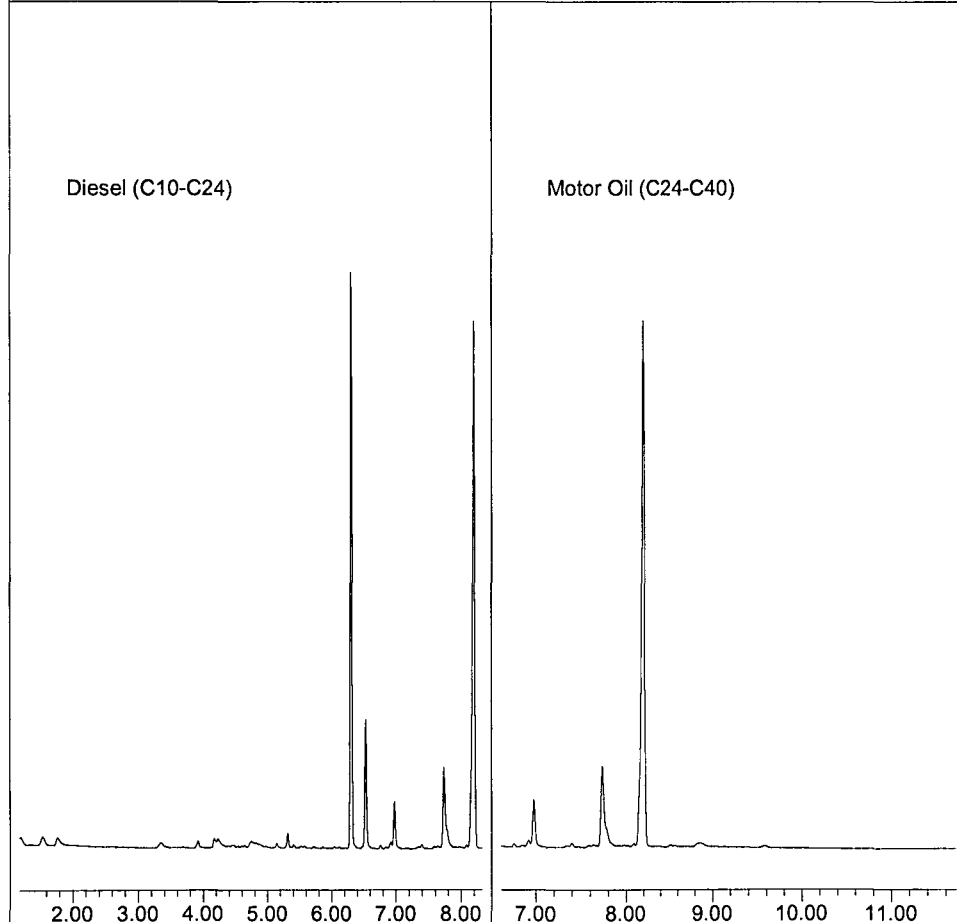
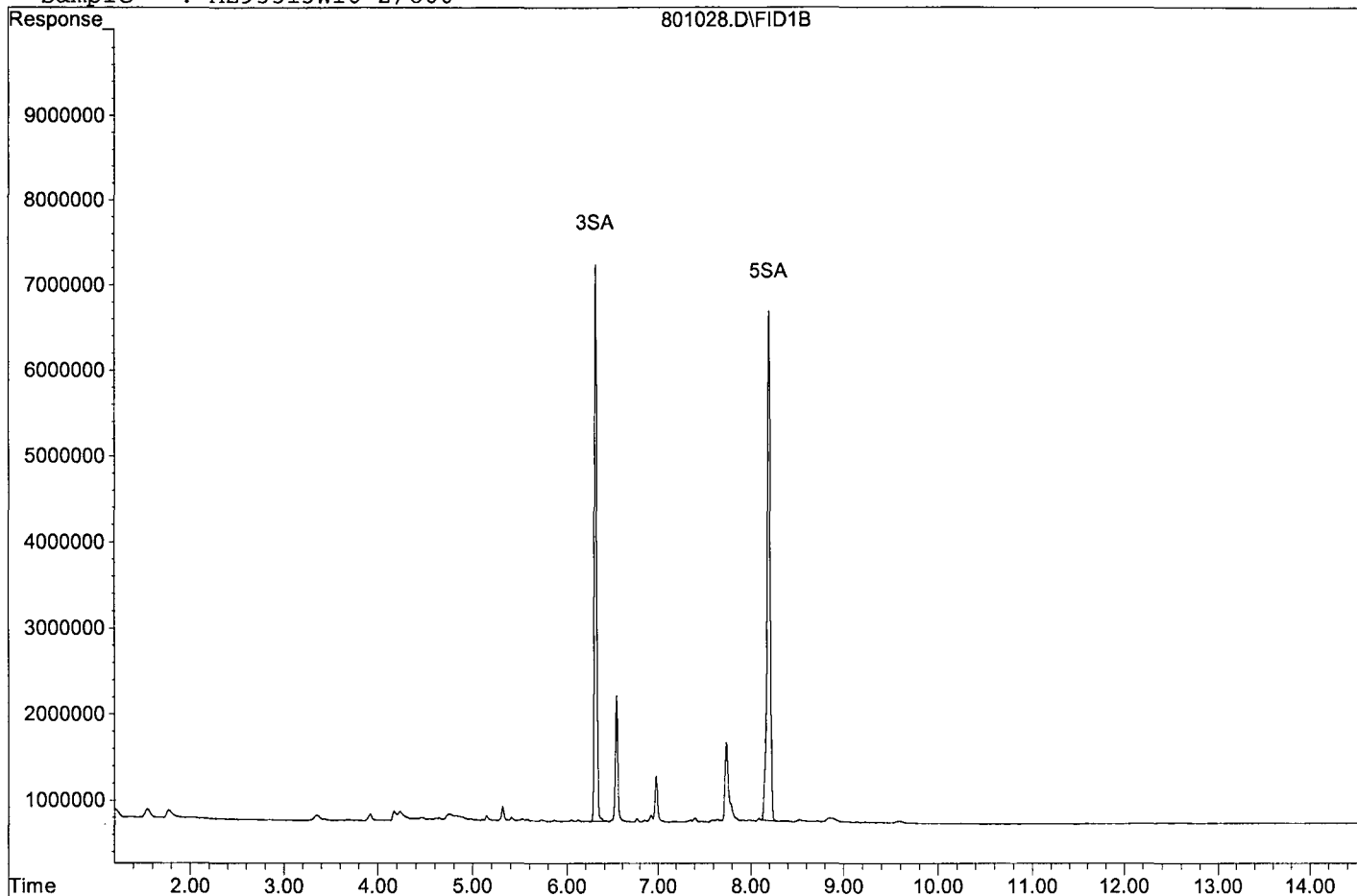
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	113863044	78.312 ppb
Surrogate Spike 75.000		Recovery =	104.42%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 60.000		Recovery =	0.00%
5) SA Octacosane(S)	8.20	137550669	93.431 ppb
Surrogate Spike 75.000		Recovery =	124.57%
Target Compounds			
Target Compounds			
1) HATM Diesel (C10-C24)	0.00	0	N.D. ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D. ppb

Data File: G:\APOLLO\DATA\190801\801028.D

Sample : AZ95513W16 2/800



Data File : G:\APOLLO\DATA\190801\801024.D Vial: 24
 Acq On : 8-5-19 9:56:00 Operator: DP
 Sample : 190731A BLK 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 9 12:47 2019 Quant Results File: DROE0617.RES

Method : G:\APOLLO\DATA\190801\DROE0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Thu Jul 25 08:54:07 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

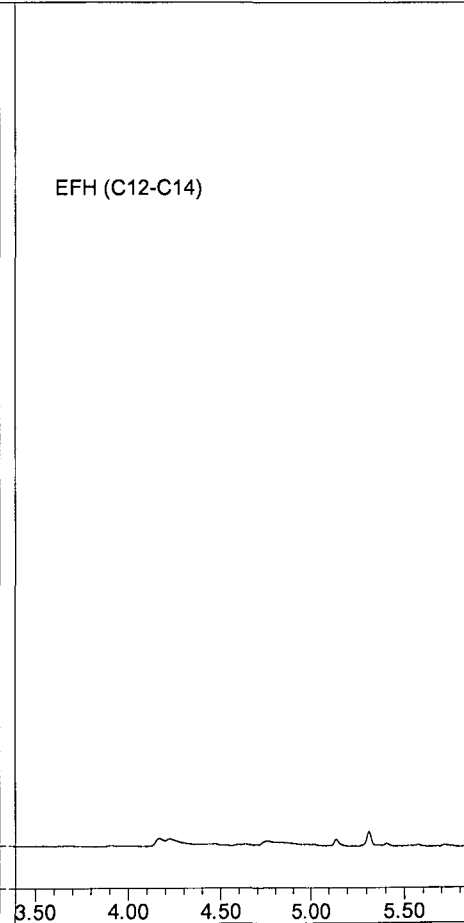
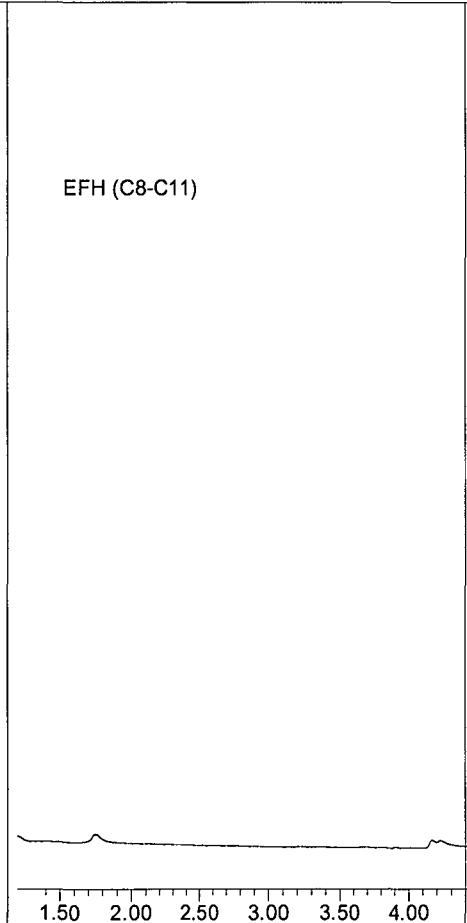
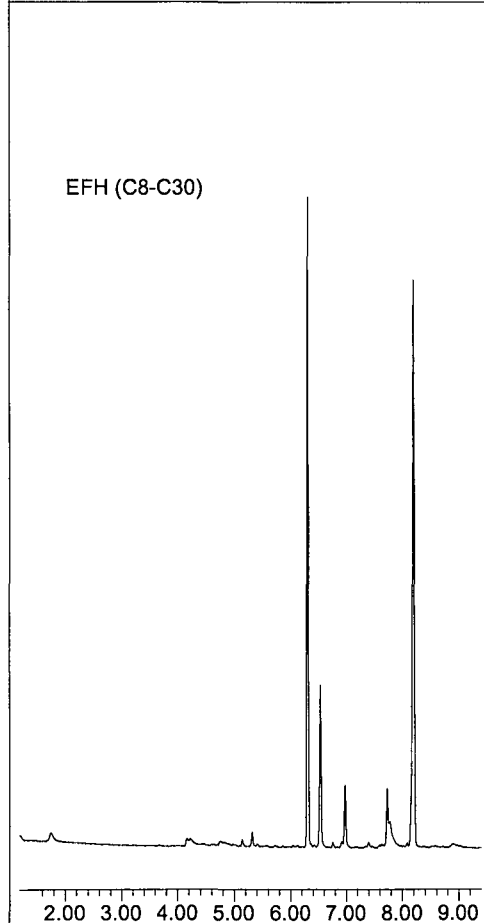
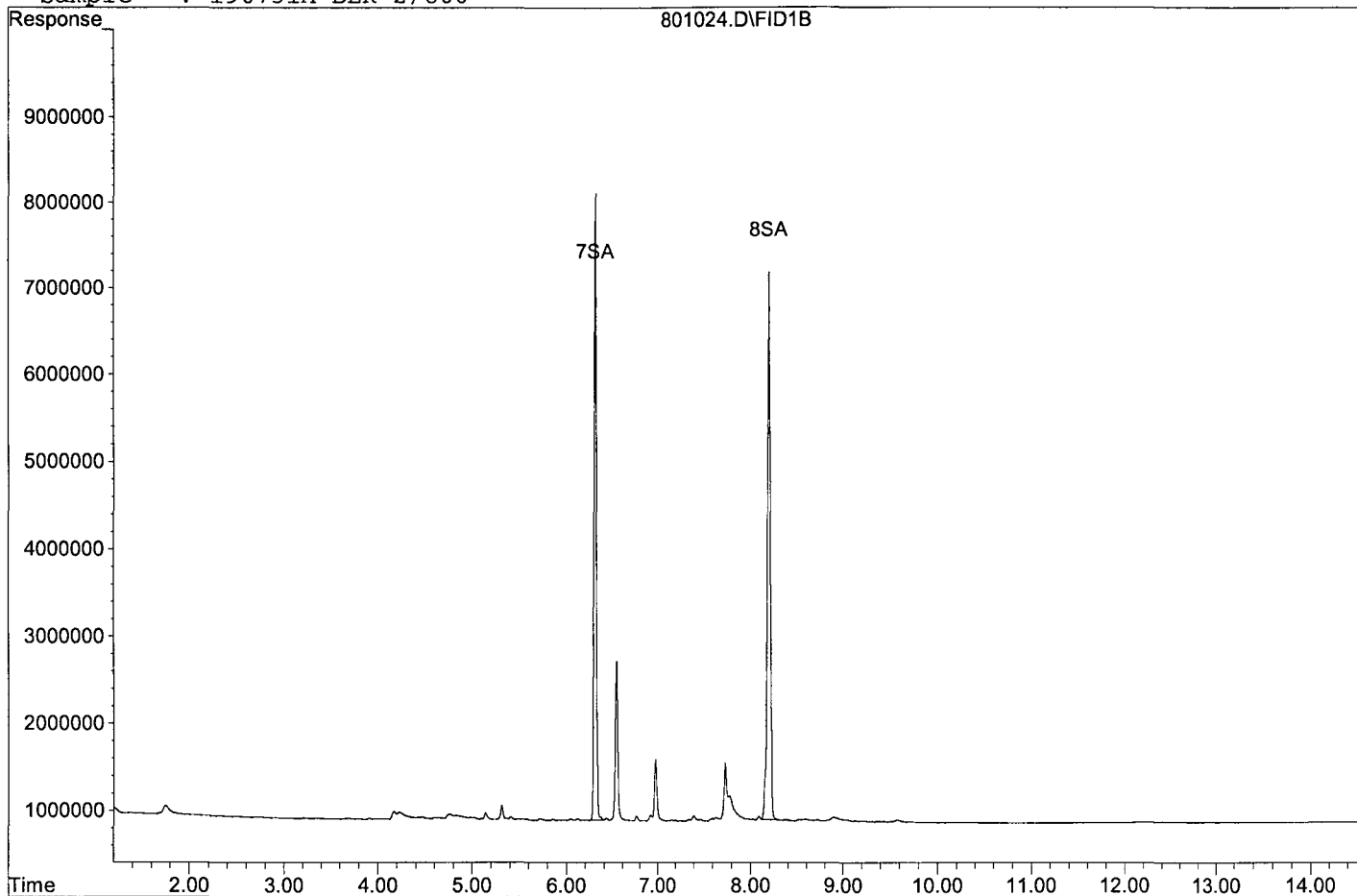
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
7) SA Ortho-Terphenyl(S)	6.31	115426478	79.387 ppb
Surrogate Spike 75.000		Recovery =	105.85%
8) SA Octacosane(S)	8.20	135562724	92.081 ppb
Surrogate Spike 75.000		Recovery =	122.77%

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190801\801024.D
Sample : 190731A BLK 2/800



Data File : G:\APOLLO\DATA\190801\801024.D Vial: 24
 Acq On : 8-5-19 9:56:00 Operator: DP
 Sample : 190731A BLK 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 8 17:31 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190801\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Mon Aug 12 12:39:32 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

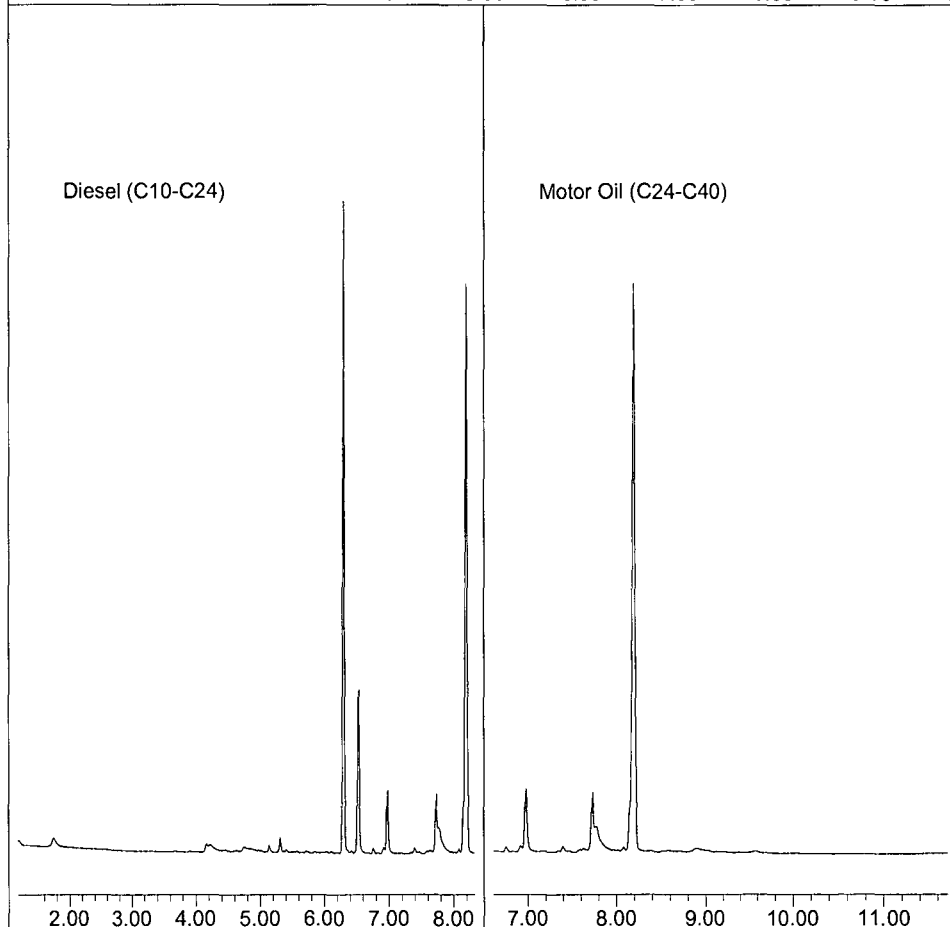
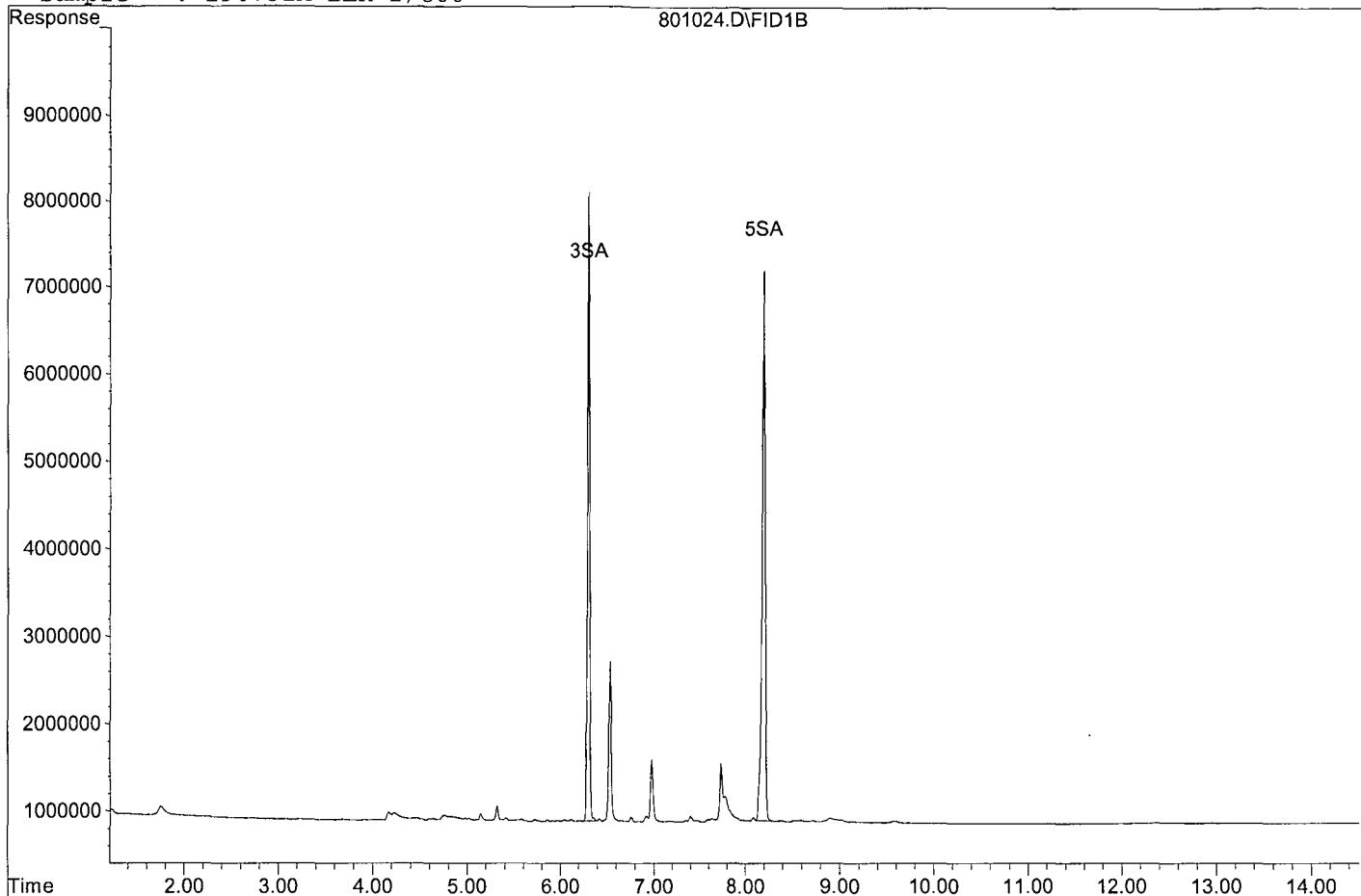
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	115426478	79.387 ppb
Surrogate Spike 93.750		Recovery =	84.68%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 60.000		Recovery =	0.00%
5) SA Octacosane(S)	8.20	135562724	92.081 ppb
Surrogate Spike 93.750		Recovery =	98.22%
Target Compounds			
Target Compounds			
1) HATM Diesel (C10-C24)	0.00	0	N.D. ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D. ppb

Quantitation Report

Data File: G:\APOLLO\DATA\190801\801024.D

Sample : 190731A BLK 2/800



Data File : G:\APOLLO\DATA\190801\801025.D Vial: 25
 Acq On : 8-5-19 10:15:53 Operator: DP
 Sample : 190731A LCS-1 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 8 17:27 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190801\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Mon Aug 12 12:39:32 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

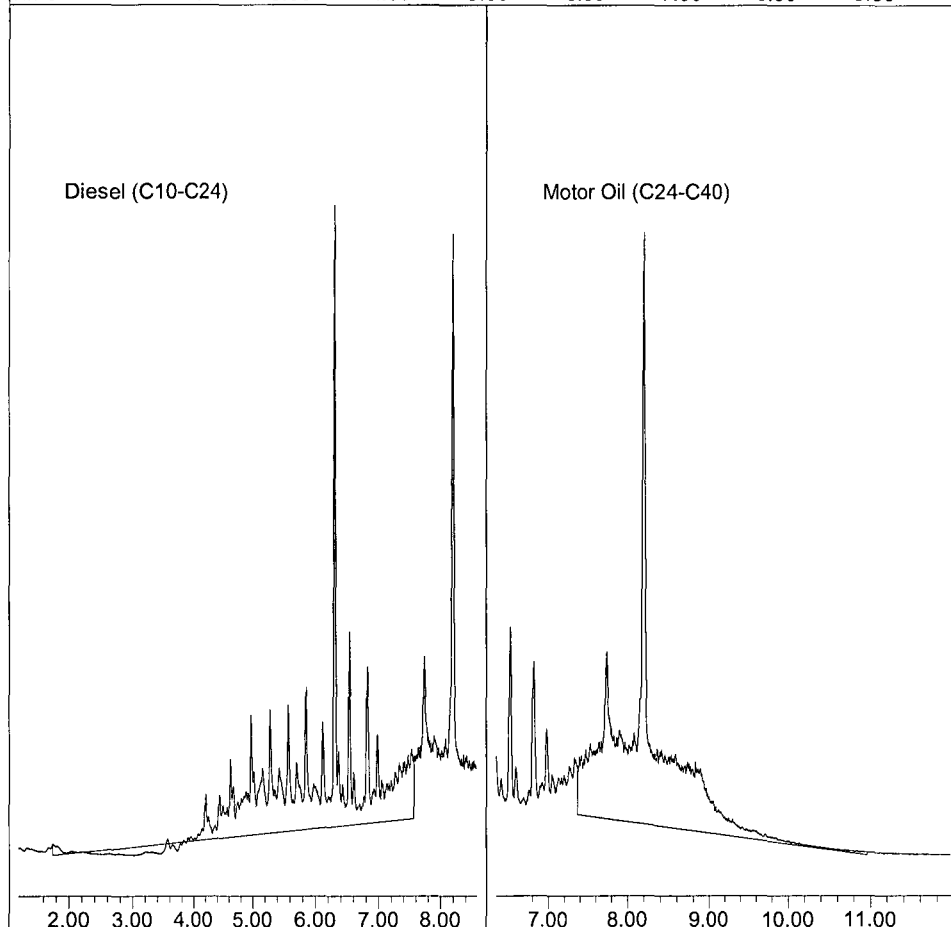
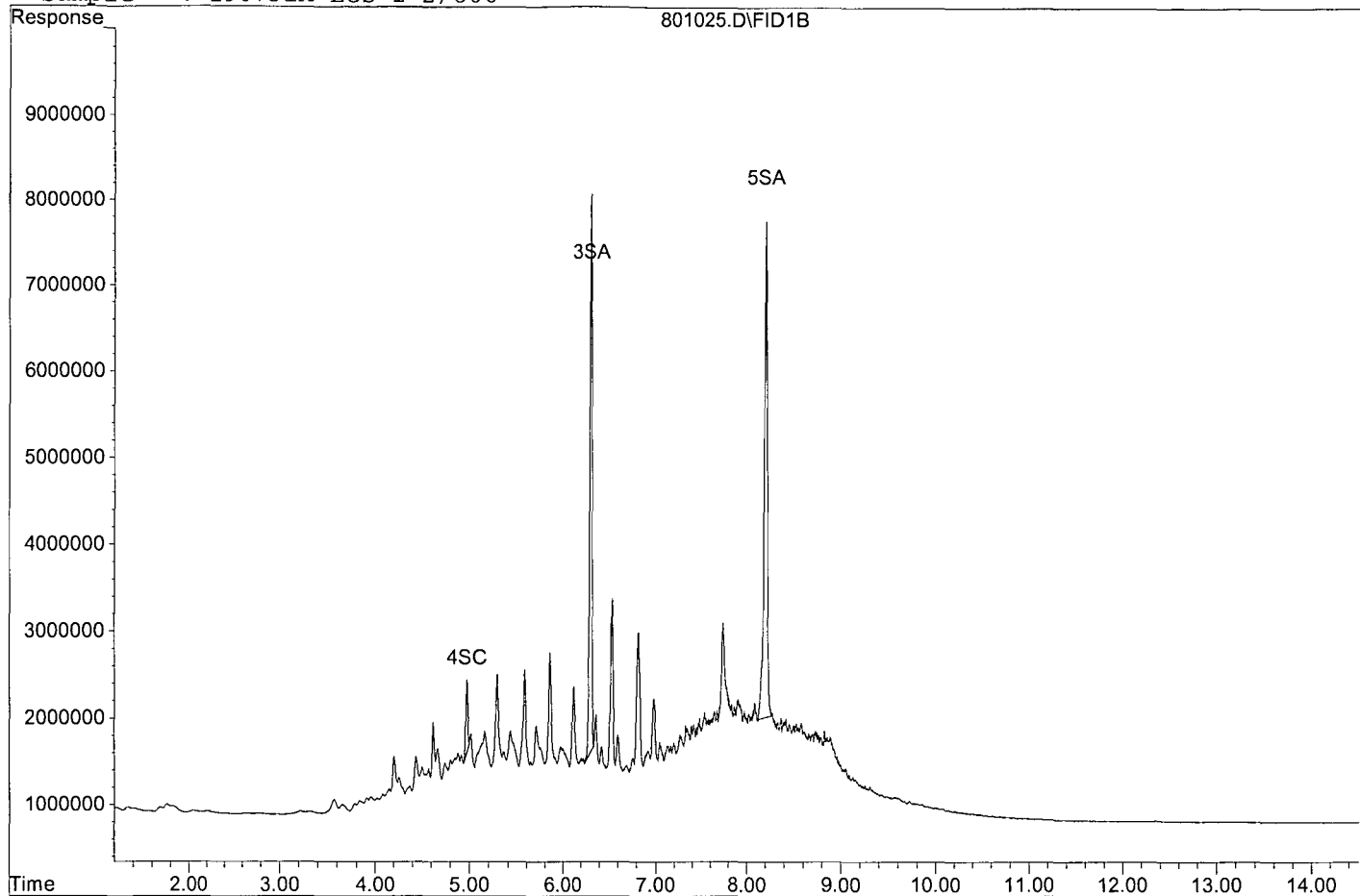
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	109140707	75.064 ppb
Surrogate Spike 93.750		Recovery =	80.07%
4) SC Decanoic Acid(S)	4.97	12025474	32.848 ppb
Surrogate Spike 60.000		Recovery =	54.75%
5) SA Octacosane(S)	8.20	130985135	88.971 ppb
Surrogate Spike 93.750		Recovery =	94.90%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	960576766	1112.962 ppb
2) HBTM Motor Oil (C24-C40)	9.16	853795001	1164.450 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190801\801025.D

Sample : 190731A LCS-1 2/800



Data File : G:\APOLLO\DATA\190801\801026.D Vial: 26
 Acq On : 8-5-19 10:35:43 Operator: DP
 Sample : 190731A LCSD-1 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 8 17:27 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190801\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Mon Aug 12 12:39:32 2019
 Response via : Multiple Level Calibration

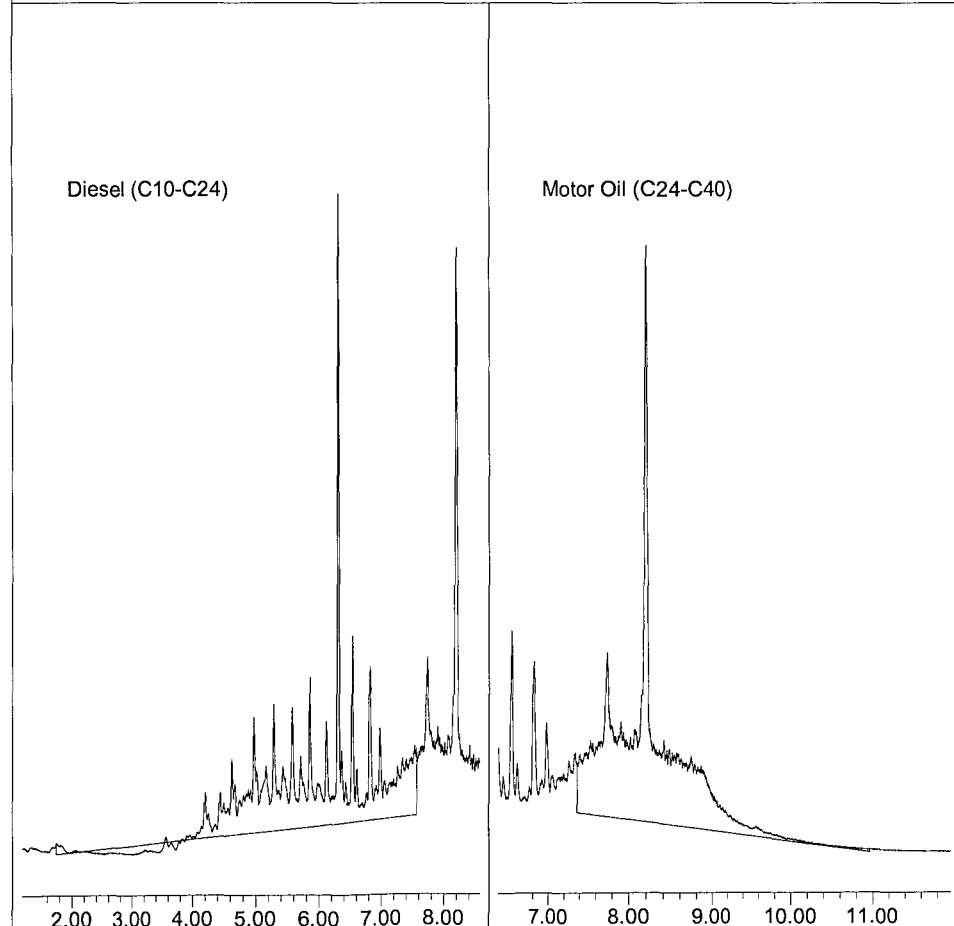
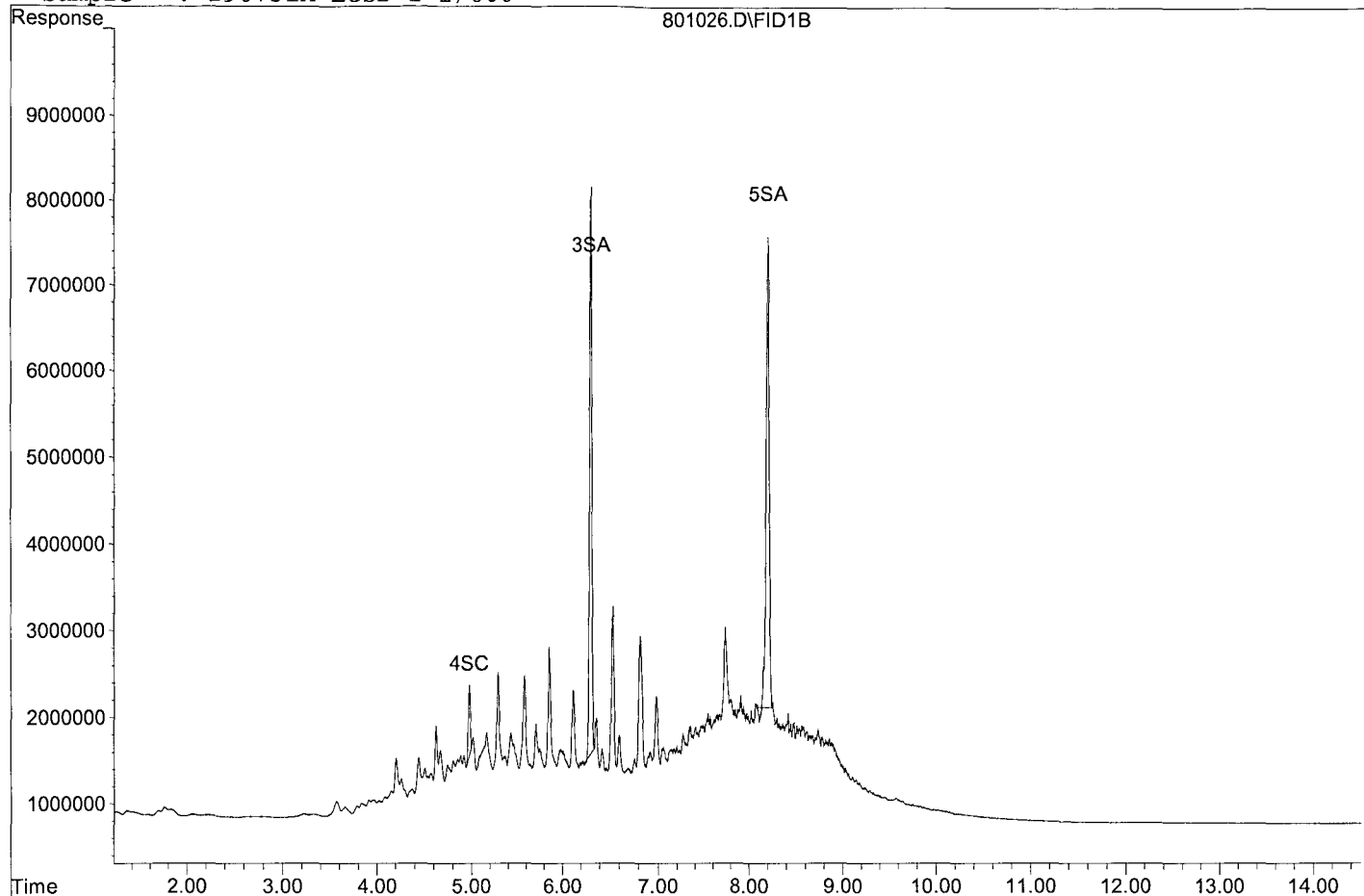
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	107383853	73.855 ppb
Surrogate Spike 93.750		Recovery =	78.78%
4) SC Decanoic Acid(S)	4.98	12119530	33.050 ppb
Surrogate Spike 60.000		Recovery =	55.08%
5) SA Octacosane(S)	8.20	119530781	81.191 ppb
Surrogate Spike 93.750		Recovery =	86.60%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	947788113	1098.192 ppb
2) HBTM Motor Oil (C24-C40)	9.16	873691730	1191.586 ppb

Target Compounds

Data File: G:\APOLLO\DATA\190801\801026.D

Sample : 190731A LCSD-1 2/800



Organic Extraction Worksheet

Method	Continuous Liq/Liq TPH-Diesel/MO 3520C	Extraction Set	190731A	Extraction Method	LIQ005	Units	mL
Spiked ID 1	Diesel Spike 7/29/19-7/26/20	Surrogate ID 1	THC Surrogate 7/25/19-7/25/20				
Spiked ID 2	Motor Oil Spike 7/31/19-7/31/20	Surrogate ID 2					
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:		no			
Spiked ID 7		Ext. Start Time:		07/31/19 13:05			
Spiked ID 8		Ext. End Time:		08/01/19 15:15			
		GC Requires Extract By:		08/01/19 0:00			
		pH1		Water Bath Temp 1 °C			
		pH2		Water Bath Temp 2 °C			
		pH3		Water Bath Temp 3 °C			

Spiked By: DL

Date 07/31/19

Witnessed By: CFM

Date 07/31/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1 190731A Blk				0.100	1	800	2	2	07/31/19 13:05	
					equip	E-HP51 E-WB2				
2 190731A LCS-1		0.020	1,2	0.100	1	800	2	2	07/31/19 13:05	
					equip	E-HP50 E-WB1				
3 190731A LCSD-1		0.020	1,2	0.100	1	800	2	2	07/31/19 13:05	
					equip	E-HP49 E-WB3				
4 AZ95511	AZ95511W13			0.100	1	800	2	2	07/31/19 13:05	89624
					equip	E-HP48 E-WB2				
5 AZ95513	AZ95513W16			0.100	1	800	2	2	07/31/19 13:05	89624
					equip	E-HP47 E-WB3				
6 AZ95764	AZ95764W15			0.100	1	800	2	2	07/31/19 13:05	89644
					equip	E-HP25 E-WB2				
7 AZ95765	AZ95765W10			0.100	1	800	2	2	07/31/19 13:05	89644
					equip	E-HP26 E-WB3				

SS 8/12/19

Solvent and Lot#	
1+1 HCL	6/15/19
PH Strips	HC863463
Dichloromethane (DCM)	58240
Filter Paper	400163
B. Sodium Sulfate	2019010772

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	<i>[Signature]</i>
Date	8/5/19
Time	8:15 am
Refrigerator	Hobart 1

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	MP
Modified	08/08/19 7:51:34 AM

Reviewed By: SS Date 8/12/19
 Page 50 of 579
 Ext_ID 63719

Diesel / Motor Oil Calibration Curve

Prepared: 06/17/19

Expires: 12/17/19

Prepared By (Initials): BT

Methylene Chloride Lot No. 5829

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference to APPL Prep Date	Exp. Date	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 1	2,000	Prepared 06/17/19	06/17/20	N/A	5uL	1mL	MC	10
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 2	2,000	Prepared 06/17/19	06/17/20	N/A	25uL	1mL	MC	50
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 3	2,000	Prepared 06/17/19	06/17/20	N/A	125uL	1mL	MC	250
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 4	2,000	Prepared 06/17/19	06/17/20	N/A	500uL	1mL	MC	1000
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 5	2,000	Prepared 06/17/19	06/17/20	N/A	750uL	1mL	MC	1500
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 6	2,000	Prepared 06/17/19	06/17/20	N/A	100uL	100uL	N/A	2,000

Diesel / Motor Oil Calibration Standard

Prepared: 06/17/19

Prepared By (Initials): BT

Expires: 06/17/20

Methylene Chloride Lot No. 5829

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel Fuel #2	Phenova	ALO-101287	50,000	CL13227-40441	06/17/20	02/31/2025	400uL	10mL	MC	2000
Motor Oil	Restek	31464	50,000	A0144044-40655	06/17/20	01/31/26	400uL			2000
THC Surrogate	Phenova	ALO-130161	600	CL13256-40366	06/17/20	02/28/24	1666uL			100

Diesel / Motor Oil Second Source (SS)										
Prepared: 01/15/19						Prepared By (Initials): DP				
Expires: 01/15/20										
Methylene Chloride Lot No. 56278										
Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel Fuel #2	O2SI	G34-011598-03	50,000	G34-319187-38958	08/02/19	09/29/21	50uL	10mL	MC	250
Motor Oil Second Source	O2SI	116390-02-SS	50,000	301142-37652	07/13/19	03/05/22	50uL			

Diesel / Motor Oil CCV										
Prepared: 07/19/19										
Expires: 01/19/20										
Methylene Chloride Lot No. 5829										
Prepared By (Initials): <u>BT</u>										
Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference to APPL Prep Date	Exp. Date	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel / Motor Oil STD	APPL	Diesel / Motor Oil CCV	2,000	Prepared 06/17/19	06/17/20	N/A	1250uL	10mL	MC	250

Injection Log

Directory: G:\APOLLO\DATA\190617\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	3	617003.D	1	Diesel/Motor Oil - 1 6/17/19	water	6-17-19 16:40:59
2	4	617004.D	1	Diesel/Motor Oil - 2 6/17/19	water	6-17-19 17:00:17
3	5	617005.D	1	Diesel/Motor Oil - 3 6/17/19	water	6-17-19 17:20:24
4	6	617006.D	1	Diesel/Motor Oil - 4 6/17/19	water	6-17-19 17:40:33
5	7	617007.D	1	Diesel/Motor Oil - 5 6/17/19	water	6-17-19 18:00:01
6	8	617008.D	1	Diesel/Motor Oil - 6 6/17/19	water	6-17-19 18:20:06
7	9	617009.D	1	Diesel/Motor Oil Second Source 1/15/19	water	6-17-19 18:39:28
8	23	801023.D	1	Diesel/Motor Oil CCV 7/19/19	water	8-5-19 9:36:18
9	24	801024.D	2.5	190731A BLK 2/800	water	8-5-19 9:56:00
10	25	801025.D	2.5	190731A LCS-1 2/800	water	8-5-19 10:15:53
11	26	801026.D	2.5	190731A LCSD-1 2/800	water	8-5-19 10:35:43
12	27	801027.D	2.5	AZ95511W13 2/800	water	8-5-19 10:55:35
13	28	801028.D	2.5	AZ95513W16 2/800	water	8-5-19 11:15:33
14	31	801031.D	1	Diesel/Motor Oil CCV 7/19/19	water	8-5-19 12:15:42

**ORGANICS
Calibration Data**

PAH by GCMS SIM
EPA 8270 SIM

Form 6
Initial Calibration

Lab Name: APPL, Inc.

Case No:

Matrix:

SDG No:

Initial Cal. Date: 07/17/19

Instrument: Yoda

Initials: MA

0717Y003.D 0717Y004.D 0717Y005.D 0717Y006.D 0717Y007.D 0717Y008.D 0717Y009.D 0717Y010.D

	Compound	0.1	0.2	0.5	1	5	10	50	100			Avg	%RSD	Type	r ²	Q	MRF
1	I Naphthalene-D8(IS)																
2	SL Surrogate Recovery (NBZ)			0.1517	0.2458	0.2053	0.2373	0.3108	0.3194			0.25	26	SL	0.999		
3	TM Naphthalene	1.553	1.439	1.409	1.423	1.251	1.286	0.9952				1.3	14	TM			0.700
4	S 2-Methylnaphthalene-D10 (2M)	1.355	1.223	1.169	1.151	0.9967	1.042	1.155	1.130			1.2	9.5	S			
5	TM 2-Methylnaphthalene	0.8712	0.8109	0.8424	0.8624	0.8306	0.8597	0.6871	0.6384			0.80	11	TM			0.400
6	TM 1-Methylnaphthalene	1.117	1.084	1.017	0.9774	0.8494	0.8545					0.98	11	TM			
7	I Acenaphthene-D10(IS)																
8	S Surrogate Recovery (FBP)		1.482	1.479	1.494	1.344	1.375	1.473	1.456			1.4	4.1	S			
9	TM Acenaphthylene	5.064	4.292	4.377	4.564	4.729	4.842	3.887	3.665			4.4	11	TM			0.900
10	*TM Acenaphthene	2.037	1.809	1.779	1.739	1.603	1.610	1.297				1.7	13	*TM			0.900
11	TM Fluorene	2.171	1.944	1.947	1.998	1.890	1.953	1.546	1.418			1.9	13	TM			0.900
12	I Phenanthrene-D10(IS)																
13	TM Phenanthrene	1.732	1.558	1.551	1.588	1.428	1.448	1.101				1.5	13	TM			0.700
14	TM Anthracene	1.379	1.217	1.228	1.323	1.331	1.414	1.132	1.006			1.3	11	TM			0.700
15	S Fluoranthene-D10 (FRT)	1.337	1.034	1.012	1.059	1.002	1.195	1.189	1.147			1.1	10	S			
16	*TM Fluoranthene	2.252	1.815	1.838	1.928	1.834	1.888	1.442				1.9	13	*TM			0.600
17	I Chrysene-D12(IS)																
18	TM Pyrene	2.231	1.845	1.552	1.766	1.706	1.763	1.364				1.7	15	TM			0.600
19	S Surrogate Recovery (TPH)		1.143	0.8928	0.9491	0.8358	0.9421	0.9482	0.9507			0.95	9.9	S			
20	TM Benz (a) anthracene	1.938	1.457	1.253	1.391	1.456	1.572					1.5	15	TM			0.800
21	TM Chrysene	2.072	1.813	1.455	1.661	1.540	1.550					1.7	14	TM			0.700
22	TM Indeno (1,2,3-cd) pyrene	2.177	1.873	1.538	1.748	1.709	1.814	1.462	1.468			1.7	14	TM			0.500
23	I Perylene-D12(IS)																
24	TML Benzo (b) fluoranthene	1.811	1.253	1.193	1.501	1.601	1.697					1.5	16	TML	0.999		0.700
25	TM Benzo (k) fluoranthene	1.854	1.898	1.501	1.686	1.621	1.735	1.393	1.304			1.6	13	TM			0.700
26	*TM Benzo (a) pyrene	1.838	1.447	1.257	1.434	1.489	1.613	1.309	1.230			1.5	14	*TM			0.700
27	TM Dibenz (a,h) anthracene	1.818	1.560	1.309	1.510	1.531	1.638	1.344	1.298			1.5	12	TM			0.400
28	TM Benzo (g,h,i) perylene	1.326	1.502	1.244	1.455	1.476	1.576	1.269	1.216			1.4	9.8	TM			0.500
29																	
30																	
31																	
32																	
33																	
34																	
35																	

Data File : M:\YODA\DATA\Y190717P\0717Y003.D
 Acq On : 17 Jul 19 9:51
 Sample : 0.1 SIM 07/10/19
 Misc :

Vial: 3
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 17 13:01 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 13:01:02 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.72	136	111514	2.50000	ppb	0.01
7) Acenaphthene-D10 (IS)	6.85	164	57226	2.50000	ppb	0.01
12) Phenanthrene-D10 (IS)	8.61	188	112163	2.50000	ppb	0.01
17) Chrysene-D12 (IS)	11.97	240	115994	2.50000	ppb	0.02
23) Perylene-D12 (IS)	14.49	264	117205	2.50000	ppb	0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.79	82	219	0.64641	ppb	-0.01
Spiked Amount	5.000		Recovery	= 12.920%		
4) 2-Methylnaphthalene-D10 (2)	5.61	152	3022	0.05877	ppb	0.05
Spiked Amount	5.000		Recovery	= 1.180%		
8) Surrogate Recovery (FBP)	6.07	172	2034	0.05983	ppb	0.03
Spiked Amount	5.000		Recovery	= 1.200%		
15) Fluoranthene-D10 (FRT)	10.02	212	3000	0.05958	ppb	0.02
Spiked Amount	5.000		Recovery	= 1.200%		
19) Surrogate Recovery (TPH)	10.47	244	4308	0.09756	ppb	0.01
Spiked Amount	5.000		Recovery	= 1.960%		
Target Compounds						
3) Naphthalene	4.75	128	6929	0.11621	ppb	Qvalue 98
5) 2-Methylnaphthalene	5.64	142	3886	0.10885	ppb	98
6) 1-Methylnaphthalene	5.75	142	4983	0.11361	ppb	96
9) Acenaphthylene	6.71	152	11592	0.11436	ppb	99
10) Acenaphthene	6.89	154	4662	0.12004	ppb	96
11) Fluorene	7.52	166	4970	0.11682	ppb	97
13) Phenanthrene	8.65	178	7771	0.11618	ppb	98
14) Anthracene	8.72	178	6186	0.10969	ppb	97
16) Fluoranthene	10.05	202	10104	0.12115	ppb	97
18) Pyrene	10.31	202	10352	0.12773	ppb	95
20) Benz (a) anthracene	11.94	228	8993	0.12825	ppb	99
21) Chrysene	12.02	228	9612	0.12285	ppb	97
22) Indeno (1,2,3-cd) pyrene	16.38	276	10102	0.12631	ppb	# 96
24) Benzo (b) fluoranthene	13.94	252	8488	0.20690	ppb	94
25) Benzo (k) fluoranthene	13.99	252	8692	0.11328	ppb	# 92
26) Benzo (a) pyrene	14.45	252	8616	0.12605	ppb	100
27) Dibenz (a,h) anthracene	16.33	278	8524	0.12113	ppb	97
28) Benzo (g,h,i) perylene	16.89	276	6216	0.09266	ppb	96

Quantitation Report

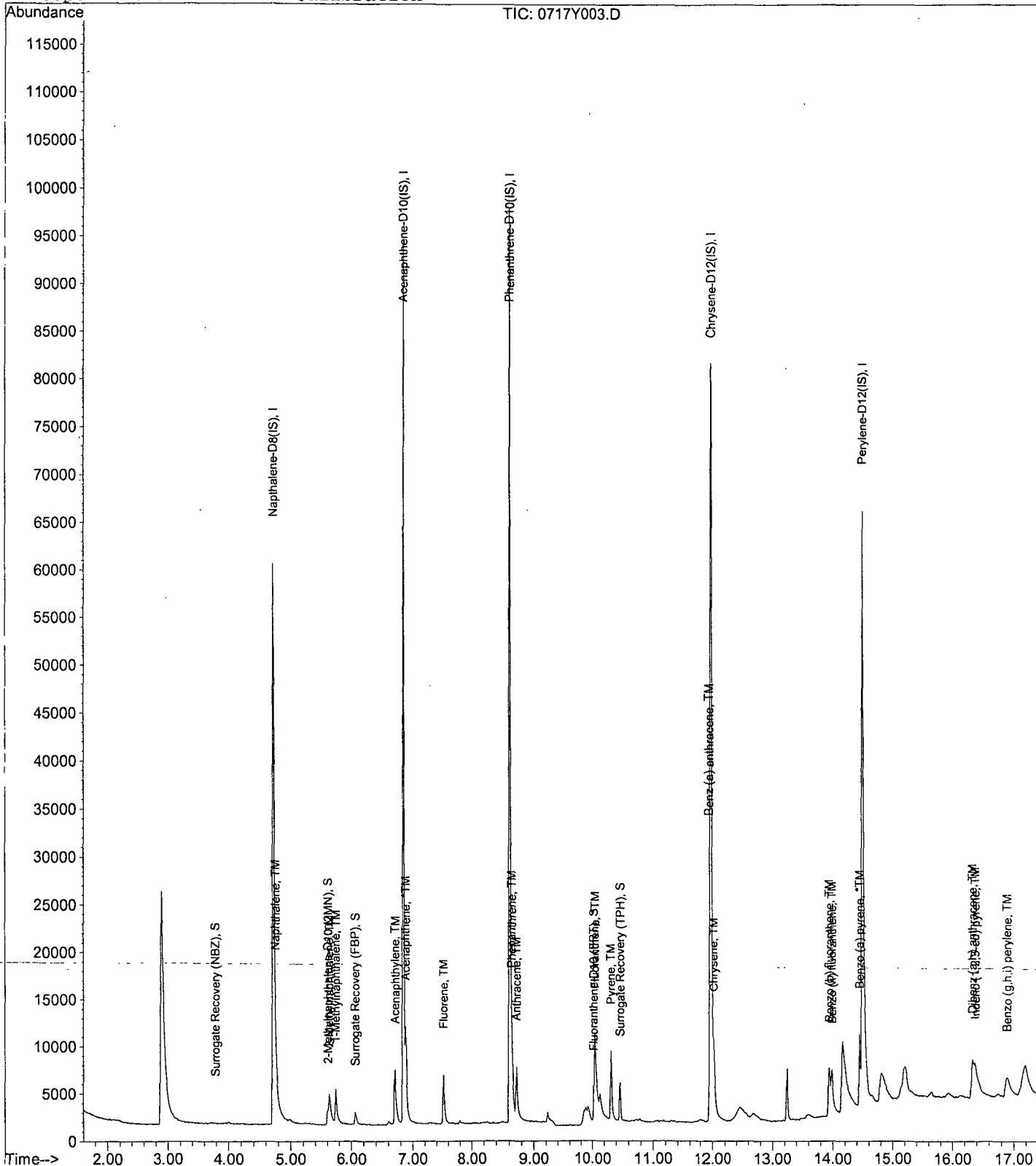
Data File : M:\YODA\DATA\Y190717P\0717Y003.D
 Acq On : 17 Jul 19 9:51
 Sample : 0.1 SIM 07/10/19
 Misc :

Vial: 3
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 17 13:01 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 13:35:41 2019
 Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y004.D
 Acq On : 17 Jul 19 10:14
 Sample : 0.2 SIM 07/10/19
 Misc :

Vial: 4
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 17 12:36 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 12:32:05 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Napthalene-D8 (IS)	4.72	136	104713	2.50000	ppb	0.02
7) Acenaphthene-D10 (IS)	6.84	164	54673	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	8.60	188	102660	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.96	240	103577	2.50000	ppb	0.01
23) Perylene-D12 (IS)	14.48	264	104410	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.85	82	481	0.04989	ppb	0.05
Spiked Amount	5.000		Recovery	=	1.000%	
4) 2-Methylnaphthalene-D10 (2)	5.60	152	5121	0.10576	ppb	0.04
Spiked Amount	5.000		Recovery	=	2.120%	
8) Surrogate Recovery (FBP)	6.07	172	3238	0.09941	ppb	0.03
Spiked Amount	5.000		Recovery	=	1.980%	
15) Fluoranthene-D10 (FRT)	10.01	212	4244	0.09238	ppb	0.01
Spiked Amount	5.000		Recovery	=	1.840%	
19) Surrogate Recovery (TPH)	10.46	244	4736	0.12009	ppb	0.00
Spiked Amount	5.000		Recovery	=	2.400%	
Target Compounds						
3) Naphthalene	4.75	128	12056	0.21534	ppb	99
5) 2-Methylnaphthalene	5.63	142	6793	0.19695	ppb	99
6) 1-Methylnaphthalene	5.74	142	9082	0.23052	ppb	96
9) Acenaphthylene	6.70	152	18753	0.18900	ppb	99
10) Acenaphthene	6.89	154	7905	0.21305	ppb	97
11) Fluorene	7.51	166	8496	0.20217	ppb	99
13) Phenanthrene	8.64	178	12506	0.20429	ppb	99
14) Anthracene	8.71	178	9876	0.18603	ppb	99
16) Fluoranthene	10.04	202	14846	0.19448	ppb	98
18) Pyrene	10.30	202	15206	0.21012	ppb	97
20) Benz (a) anthracene	11.95	228	12075	0.19734	ppb	97
21) Chrysene	12.01	228	14844	0.22083	ppb	98
22) Indeno (1,2,3-cd) pyrene	16.34	276	15408	0.21127	ppb	# 100
24) Benzo (b) fluoranthene	13.92	252	10464	0.16889	ppb	94
25) Benzo (k) fluoranthene	13.97	252	15432	0.21941	ppb	# 94
26) Benzo (a) pyrene	14.44	252	11773	0.18911	ppb	98
27) Dibenz (a,h) anthracene	16.30	278	13027	0.20387	ppb	99
28) Benzo (g,h,i) perylene	16.84	276	10603	0.17371	ppb	95

Quantitation Report

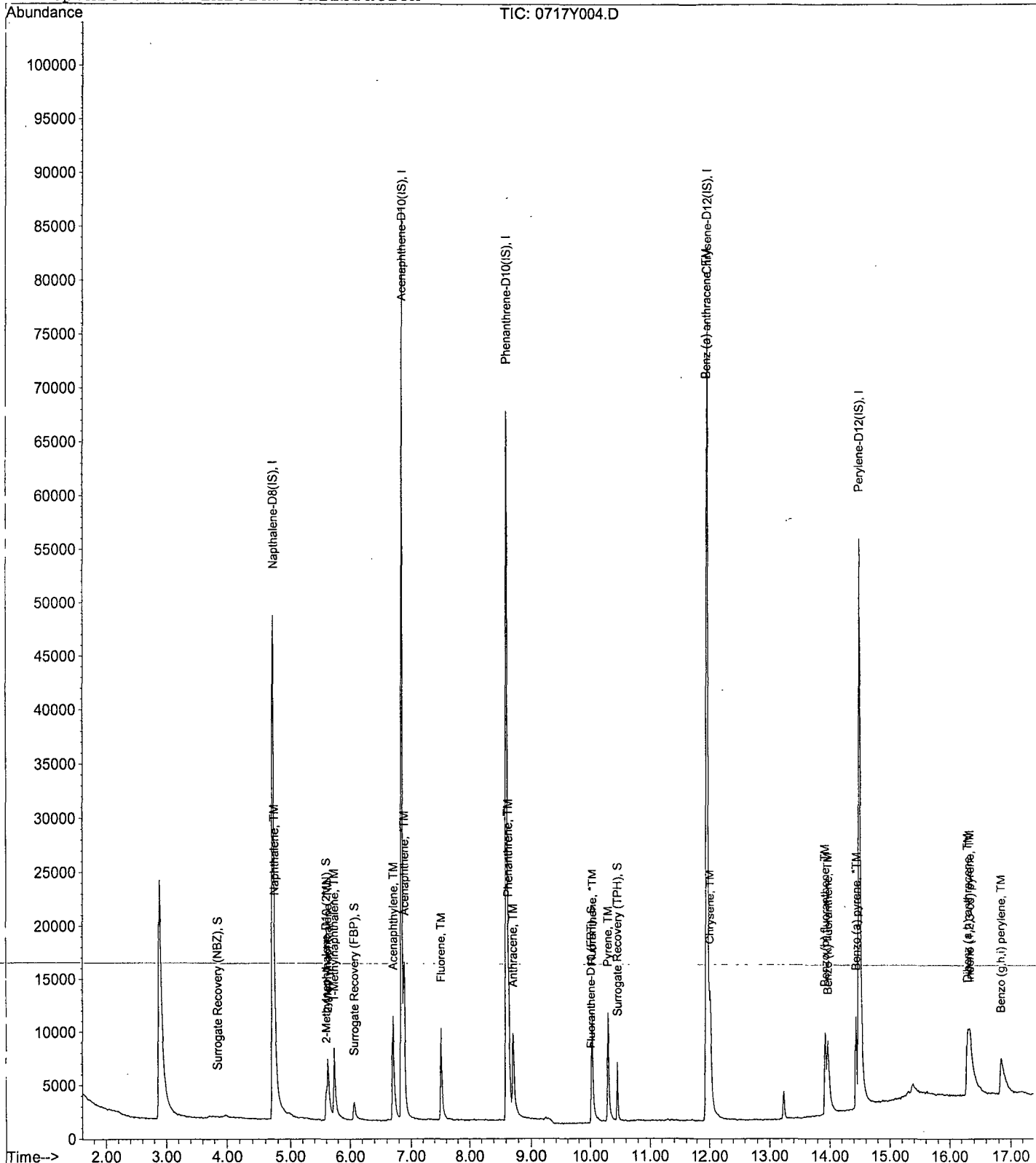
Data File : M:\YODA\DATA\Y190717P\0717Y004.D
 Acq On : 17 Jul 19 10:14
 Sample : 0.2 SIM 07/10/19
 Misc :

Vial: 4
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 17 12:36 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 13:35:41 2019
 Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y005.D
 Acq On : 17 Jul 19 10:38
 Sample : 0.5 SIM 07/10/19
 Misc :

Vial: 5
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 17 10:43 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 10:43:28 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8(IS)	4.71	136	106830	2.50000	ppb	-0.01
7) Acenaphthene-D10(IS)	6.84	164	54954	2.50000	ppb	-0.01
12) Phenanthrene-D10(IS)	8.60	188	104266	2.50000	ppb	-0.01
17) Chrysene-D12(IS)	11.95	240	124552	2.50000	ppb	-0.02
23) Perylene-D12(IS)	14.48	264	125343	2.50000	ppb	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	3.93	82	1621	0.13079	ppb	0.00
Spiked Amount	5.000					
Recovery				=	2.620%	
4) 2-Methylnaphthalene-D10 (2)	5.59	152	12493	0.23244	ppb	-0.01
Spiked Amount	5.000					
Recovery				=	4.640%	
8) Surrogate Recovery (FBP)	6.06	172	8128	0.17844	ppb	-0.01
Spiked Amount	5.000					
Recovery				=	3.560%	
15) Fluoranthene-D10 (FRT)	10.01	212	10551	0.14218	ppb	0.00
Spiked Amount	5.000					
Recovery				=	2.840%	
19) Surrogate Recovery (TPH)	10.46	244	11120	0.24058	ppb	0.00
Spiked Amount	5.000					
Recovery				=	4.820%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.75	128	30095	0.58499	ppb	100
5) 2-Methylnaphthalene	5.61	142	17998	0.58022	ppb	97
6) 1-Methylnaphthalene	5.73	142	21738	0.63274	ppb	98
9) Acenaphthylene	6.69	152	48108	0.49102	ppb	99
10) Acenaphthene	6.89	154	19552	0.56031	ppb	90
11) Fluorene	7.51	166	21400	0.53166	ppb	95
13) Phenanthrene	8.64	178	32333	0.51671	ppb	98
14) Anthracene	8.71	178	25606	0.51896	ppb	98
16) Fluoranthene	10.04	202	38336	0.44177	ppb	97
18) Pyrene	10.31	202	38667	0.56813	ppb	96
20) Benz (a) anthracene	11.94	228	31214	0.55616	ppb	99
21) Chrysene	12.01	228	36246	0.52010	ppb	99
22) Indeno (1,2,3-cd) pyrene	16.29	276	38324	0.53772	ppb #	83
24) Benzo (b) fluoranthene	13.91	252	29900	0.43563	ppb	99
25) Benzo (k) fluoranthene	13.96	252	37626	0.49232	ppb	98
26) Benzo (a) pyrene	14.43	252	31503	0.51638	ppb	97
27) Dibenz (a,h) anthracene	16.27	278	32815	0.46608	ppb	95
28) Benzo (g,h,i) perylene	16.79	276	31190	0.45491	ppb #	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report

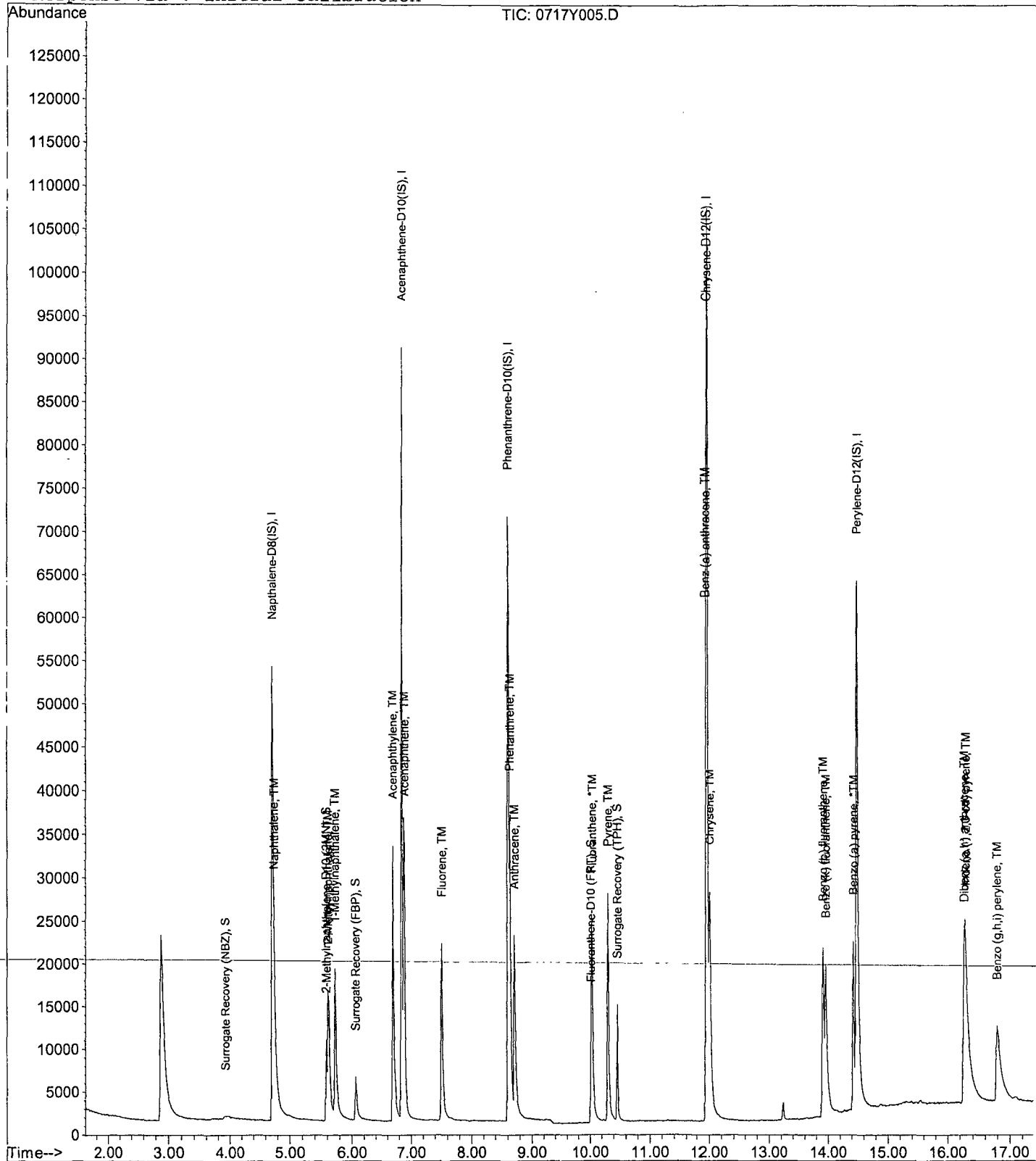
Data File : M:\YODA\DATA\Y190717P\0717Y005.D
Acq On : 17 Jul 19 10:38
Sample : 0.5 SIM 07/10/19
Misc :

Vial: 5
Operator: MA, SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 17 10:43 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Jul 17 13:35:41 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y006.D
 Acq On : 17 Jul 19 11:01
 Sample : 1.0 SIM 07/10/19
 Misc :

Vial: 6
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 17 11:08 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 11:08:37 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8(IS)	4.72	136	111652	2.50000	ppb	0.00
7) Acenaphthene-D10(IS)	6.84	164	55853	2.50000	ppb	-0.02
12) Phenanthrene-D10(IS)	8.61	188	105324	2.50000	ppb	0.00
17) Chrysene-D12(IS)	11.95	240	115441	2.50000	ppb	-0.02
23) Perylene-D12(IS)	14.48	264	113930	2.50000	ppb	0.01

System Monitoring Compounds

2) Surrogate Recovery (NBZ)	3.92	82	5489	0.42375	ppb	0.00
Spiked Amount	5.000		Recovery	=	8.480%	
4) 2-Methylnaphthalene-D10 (2)	5.59	152	25712	0.45773	ppb	-0.02
Spiked Amount	5.000		Recovery	=	9.160%	
8) Surrogate Recovery (FBP)	6.06	172	16691	0.36052	ppb	-0.02
Spiked Amount	5.000		Recovery	=	7.220%	
15) Fluoranthene-D10 (FRT)	10.00	212	22298	0.29747	ppb	-0.02
Spiked Amount	5.000		Recovery	=	5.940%	
19) Surrogate Recovery (TPH)	10.46	244	21914	0.51153	ppb	-0.01
Spiked Amount	5.000		Recovery	=	10.240%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.74	128	63563	1.18218	ppb	99
5) 2-Methylnaphthalene	5.61	142	38516	1.18806	ppb	100
6) 1-Methylnaphthalene	5.72	142	43653	1.21575	ppb	98
9) Acenaphthylene	6.69	152	101972	1.02405	ppb	99
10) Acenaphthene	6.89	154	38853	1.09550	ppb	88
11) Fluorene	7.51	166	44627	1.09087	ppb	94
13) Phenanthrene	8.64	178	66889	1.05820	ppb	98
14) Anthracene	8.71	178	55749	1.11853	ppb	97
16) Fluoranthene	10.02	202	81228	0.92664	ppb	# 91
18) Pyrene	10.29	202	81542	1.29264	ppb	# 86
20) Benz (a) anthracene	11.93	228	64225	1.23466	ppb	99
21) Chrysene	12.00	228	76689	1.18726	ppb	98
22) Indeno (1,2,3-cd) pyrene	16.24	276	80695	1.22158	ppb	# 80
24) Benzo (b) fluoranthene	13.89	252	68390	1.09622	ppb	100
25) Benzo (k) fluoranthene	13.94	252	76839	1.10612	ppb	99
26) Benzo (a) pyrene	14.41	252	65347	1.17843	ppb	98
27) Dibenz (a,h) anthracene	16.24	278	68833	1.07558	ppb	98
28) Benzo (g,h,i) perylene	16.75	276	66316	1.06411	ppb	# 91

(#) = qualifier out of range (m) = manual integration

Quantitation Report

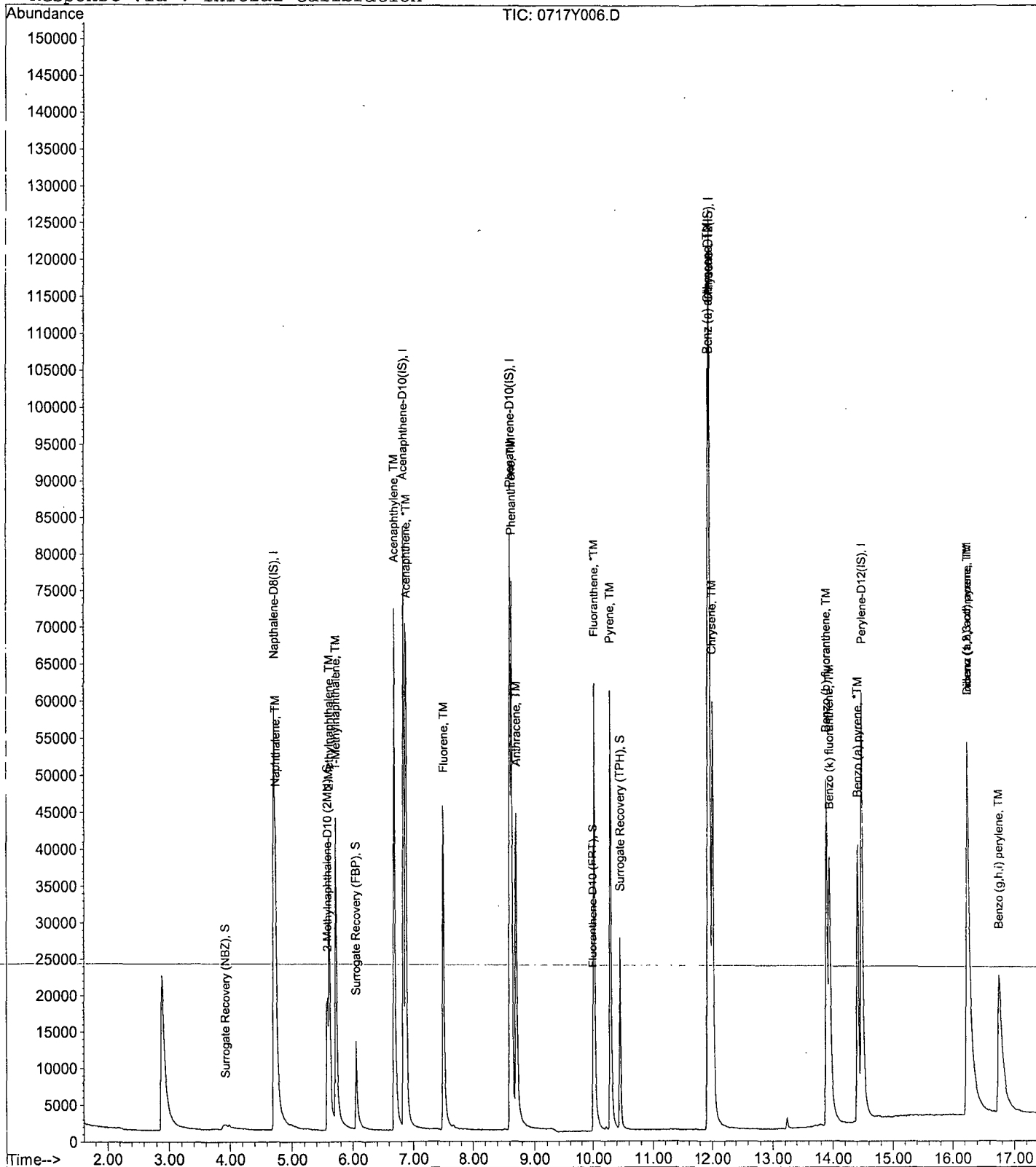
Data File : M:\YODA\DATA\Y190717P\0717Y006.D
Acq On : 17 Jul 19 11:01
Sample : 1.0 SIM 07/10/19
Misc :

Vial: 6
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 17 11:08 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Jul 17 13:35:41 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y007.D
 Acq On : 17 Jul 19 11:25
 Sample : 5.0 SIM 07/10/19
 Misc :

Vial: 7
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 17 13:02 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 13:02:08 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.70	136	114310	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	6.84	164	57235	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	8.60	188	109744	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.94	240	119236	2.50000	ppb	0.00
23) Perylene-D12 (IS)	14.48	264	113481	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.80	82	23465	2.22403	ppb	0.00
Spiked Amount	5.000		Recovery	=	44.480%	
4) 2-Methylnaphthalene-D10 (2)	5.56	152	113931	2.16141	ppb	0.00
Spiked Amount	5.000		Recovery	=	43.220%	
8) Surrogate Recovery (FBP)	6.04	172	76794	2.25850	ppb	0.00
Spiked Amount	5.000		Recovery	=	45.160%	
15) Fluoranthene-D10 (FRT)	10.00	212	110003	2.23265	ppb	0.00
Spiked Amount	5.000		Recovery	=	44.660%	
19) Surrogate Recovery (TPH)	10.46	244	99653	2.19550	ppb	0.00
Spiked Amount	5.000		Recovery	=	43.900%	
Target Compounds						
3) Naphthalene	4.73	128	286024	4.67985	ppb	100
5) 2-Methylnaphthalene	5.60	142	189901	5.18928	ppb	100
6) 1-Methylnaphthalene	5.72	142	194200	4.31918	ppb	100
9) Acenaphthylene	6.68	152	540886	5.33527	ppb	100
10) Acenaphthene	6.87	154	183392	4.72137	ppb	100
11) Fluorene	7.49	166	216112	5.07897	ppb	100
13) Phenanthrene	8.62	178	313376	4.78857	ppb	100
14) Anthracene	8.70	178	291160	5.27669	ppb	100
16) Fluoranthene	10.01	202	402342	4.93037	ppb	100
18) Pyrene	10.28	202	406809	4.88304	ppb	100
20) Benz (a) anthracene	11.92	228	347245	4.81756	ppb	100
21) Chrysene	11.99	228	366452	4.55630	ppb	100
22) Indeno (1,2,3-cd) pyrene	16.20	276	407562	4.95728	ppb	100
24) Benzo (b) fluoranthene	13.87	252	363305	4.81494	ppb	100
25) Benzo (k) fluoranthene	13.92	252	369414	4.97264	ppb	100
26) Benzo (a) pyrene	14.39	252	335875	5.07483	ppb	100
27) Dibenz (a,h) anthracene	16.20	278	347519	5.10035	ppb	100
28) Benzo (g,h,i) perylene	16.69	276	330592	5.08990	ppb	100

Quantitation Report

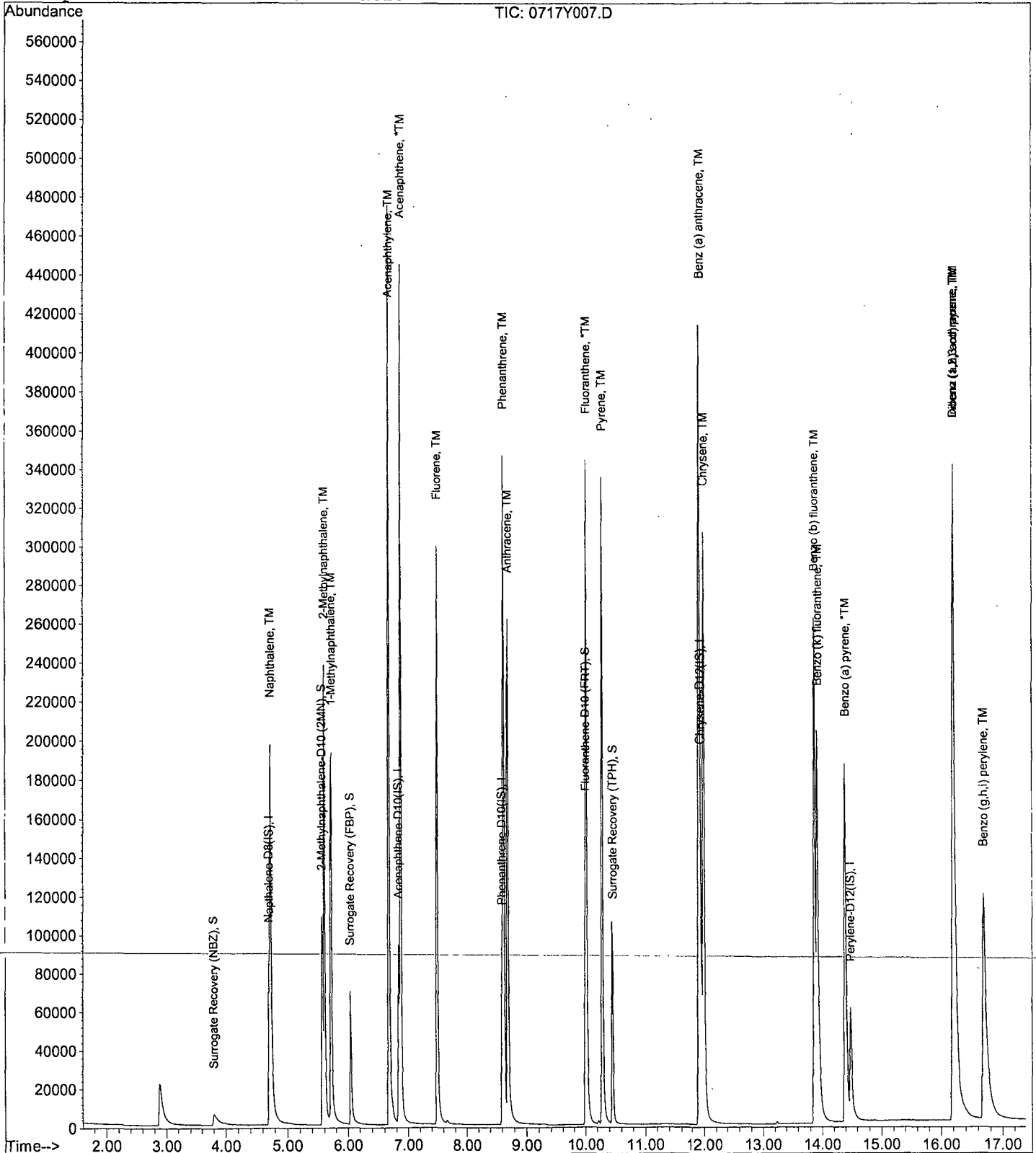
Data File : M:\YODA\DATA\Y190717P\0717Y007.D
Acq On : 17 Jul 19 11:25
Sample : 5.0 SIM 07/10/19
Misc :

Vial: 7
Operator: MA, SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 17 13:02 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Jul 17 13:35:41 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y008.D
 Acq On : 17 Jul 19 11:48
 Sample : 10 SIM 07/10/19
 Misc :

Vial: 8
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 17 12:17 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 12:16:55 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.71	136	112785	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	6.84	164	57579	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	8.60	188	110627	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.93	240	118772	2.50000	ppb	-0.01
23) Perylene-D12 (IS)	14.48	264	112091	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.78	82	53537	4.62492	ppb	-0.02
Spiked Amount	5.000		Recovery	=	92.500%	
4) 2-Methylnaphthalene-D10 (2)	5.56	152	235122	4.34514	ppb	0.00
Spiked Amount	5.000		Recovery	=	86.900%	
8) Surrogate Recovery (FBP)	6.04	172	158308	4.21887	ppb	0.00
Spiked Amount	5.000		Recovery	=	84.380%	
15) Fluoranthene-D10 (FRT)	9.99	212	264484	4.21131	ppb	-0.01
Spiked Amount	5.000		Recovery	=	84.220%	
19) Surrogate Recovery (TPH)	10.45	244	223786	4.60444	ppb	-0.01
Spiked Amount	5.000		Recovery	=	92.080%	
Target Compounds						
3) Naphthalene	4.73	128	580219	9.94920	ppb	99
5) 2-Methylnaphthalene	5.60	142	387867	10.69107	ppb	97
6) 1-Methylnaphthalene	5.71	142	385488	9.40770	ppb	96
9) Acenaphthylene	6.68	152	1115129	10.20838	ppb	99
10) Acenaphthene	6.88	154	370915	9.56817	ppb	96
11) Fluorene	7.48	166	449884	10.02152	ppb	94
13) Phenanthrene	8.62	178	640553	9.44535	ppb	99
14) Anthracene	8.69	178	625887	10.53009	ppb	99
16) Fluoranthene	10.01	202	835310	9.24893	ppb	96
18) Pyrene	10.28	202	837724	10.86096	ppb	93
20) Benz (a) anthracene	11.92	228	746877	10.90485	ppb	99
21) Chrysene	11.98	228	736209	10.10186	ppb	98
22) Indeno (1,2,3-cd) pyrene	16.18	276	861660	10.69768	ppb	100
24) Benzo (b) fluoranthene	13.87	252	760704	11.45890	ppb	# 95
25) Benzo (k) fluoranthene	13.91	252	777741	10.35106	ppb	99
26) Benzo (a) pyrene	14.37	252	723216	10.92796	ppb	# 96
27) Dibenzo (a,h) anthracene	16.19	278	734521	10.67982	ppb	98
28) Benzo (g,h,i) perylene	16.67	276	706722	10.75207	ppb	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

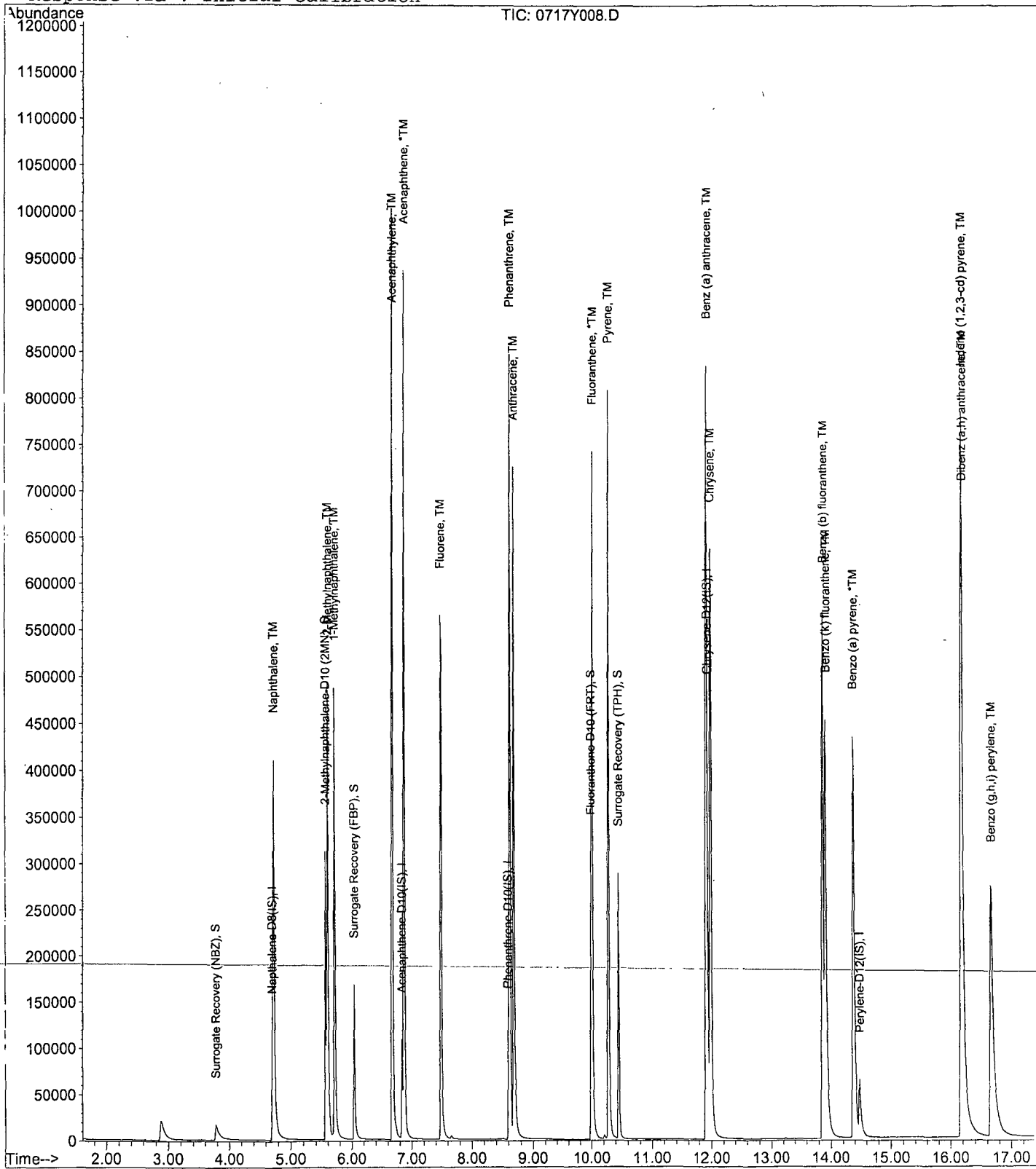
Data File : M:\YODA\DATA\Y190717P\0717Y008.D
Acq On : 17 Jul 19 11:48
Sample : 10 SIM 07/10/19
Misc :

Vial: 8
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 17 12:17 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Jul 17 13:35:41 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y009.D Vial: 9
 Acq On : 17 Jul 19 12:11 Operator: MA, SS
 Sample : 50 SIM 07/10/19 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Jul 17 12:17 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 12:16:55 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.71	136	109001	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	6.84	164	57556	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	8.60	188	111042	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.93	240	119923	2.50000	ppb	-0.01
23) Perylene-D12 (IS)	14.48	264	114306	2.50000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	3.74	82	338807	30.63060	ppb	-0.06
Spiked Amount	5.000		Recovery	= 612.620%		
4) 2-Methylnaphthalene-D10 (2)	5.55	152	1258518	24.53932	ppb	-0.01
Spiked Amount	5.000		Recovery	= 490.780%		
8) Surrogate Recovery (FBP)	6.03	172	847677	23.51675	ppb	-0.01
Spiked Amount	5.000		Recovery	= 470.340%		
15) Fluoranthene-D10 (FRT)	9.99	212	1320833	22.42688	ppb	-0.01
Spiked Amount	5.000		Recovery	= 448.540%		
19) Surrogate Recovery (TPH)	10.45	244	1137090	23.01060	ppb	-0.01
Spiked Amount	5.000		Recovery	= 460.220%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.72	128	2169505	38.27856	ppb	99
5) 2-Methylnaphthalene	5.59	142	1497930	42.35345	ppb	99
6) 1-Methylnaphthalene	5.71	142	1491974	37.42326	ppb	99
9) Acenaphthylene	6.67	152	4474703	41.76386	ppb	99
10) Acenaphthene	6.88	154	1492800	38.60402	ppb	92
11) Fluorene	7.48	166	1779419	39.92321	ppb	98
13) Phenanthrene	8.62	178	2445747	36.46600	ppb	97
14) Anthracene	8.69	178	2513890	42.88802	ppb	98
16) Fluoranthene	10.01	202	3202788	36.70567	ppb	92
18) Pyrene	10.28	202	3270777	41.29212	ppb #	89
20) Benz (a) anthracene	11.91	228	3047141	43.28209	ppb	97
21) Chrysene	11.98	228	2972451	40.07734	ppb	98
22) Indeno (1,2,3-cd) pyrene	16.17	276	3507566	42.68766	ppb	97
24) Benzo (b) fluoranthene	13.86	252	3042168	44.61200	ppb	95
25) Benzo (k) fluoranthene	13.90	252	3184479	41.91846	ppb	96
26) Benzo (a) pyrene	14.36	252	2991745	44.23949	ppb #	94
27) Dibenz (a,h) anthracene	16.18	278	3071475	43.89671	ppb	96
28) Benzo (g,h,i) perylene	16.64	276	2901323	43.42396	ppb	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

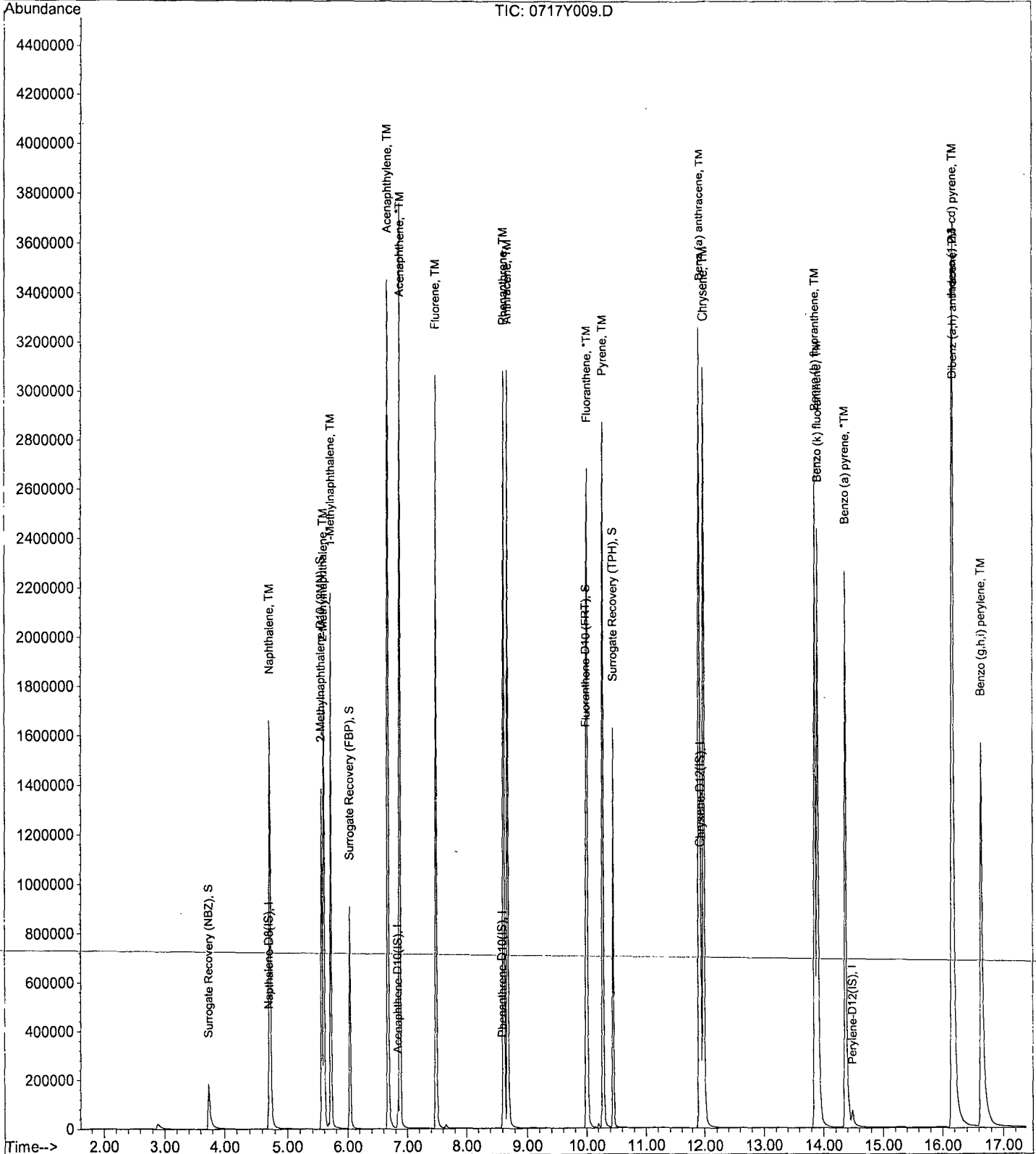
Data File : M:\YODA\DATA\Y190717P\0717Y009.D
Acq On : 17 Jul 19 12:11
Sample : 50 SIM 07/10/19
Misc :

Vial: 9
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 17 12:17 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Jul 17 13:35:41 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y010.D Vial: 10
 Acq On : 17 Jul 19 12:35 Operator: MA, SS
 Sample : 100 SIM 07/10/19 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Jul 17 12:41 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 12:40:49 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	4.70	136	114626	2.50000	ppb	0.00
7) Acenaphthene-D10(IS)	6.84	164	59383	2.50000	ppb	0.00
12) Phenanthrene-D10(IS)	8.60	188	118298	2.50000	ppb	0.00
17) Chrysene-D12(IS)	11.93	240	125343	2.50000	ppb	0.00
23) Perylene-D12(IS)	14.48	264	122799	2.50000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	3.73	82	732231	69.37506	ppb	-0.07
Spiked Amount	5.000		Recovery	= 1387.500%		
4) 2-Methylnaphthalene-D10 (2)	5.55	152	2591528	48.89332	ppb	0.00
Spiked Amount	5.000		Recovery	= 977.860%		
8) Surrogate Recovery (FBP)	6.03	172	1729303	48.88181	ppb	0.00
Spiked Amount	5.000		Recovery	= 977.640%		
15) Fluoranthene-D10 (FRT)	9.99	212	2714747	51.27848	ppb	0.00
Spiked Amount	5.000		Recovery	= 1025.560%		
19) Surrogate Recovery (TPH)	10.45	244	2383177	49.93776	ppb	0.00
Spiked Amount	5.000		Recovery	= 998.760%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.72	128	4131317	67.40920	ppb	98
5) 2-Methylnaphthalene	5.59	142	2926900	77.51933	ppb	99
6) 1-Methylnaphthalene	5.71	142	2890239	67.01478	ppb	100
9) Acenaphthylene	6.67	152	8706116	80.78205	ppb	98
10) Acenaphthene	6.88	154	2806475	69.63830	ppb	97
11) Fluorene	7.48	166	3367396	73.77615	ppb	99
13) Phenanthrene	8.63	178	4676426	66.29145	ppb	96
14) Anthracene	8.69	178	4759973	77.80720	ppb	95
16) Fluoranthene	10.01	202	6112167	69.48362	ppb	98
18) Pyrene	10.28	202	6337915	72.36922	ppb	95
20) Benz (a) anthracene	11.92	228	6149247	83.04631	ppb	96
21) Chrysene	11.99	228	5731027	70.45313	ppb	97
22) Indeno (1,2,3-cd) pyrene	16.17	276	7362396	83.42239	ppb	92
24) Benzo (b) fluoranthene	13.86	252	5980790	82.07402	ppb	96
25) Benzo (k) fluoranthene	13.90	252	6406000	77.44013	ppb	# 93
26) Benzo (a) pyrene	14.37	252	6040854	82.50231	ppb	96
27) Dibenz (a,h) anthracene	16.18	278	6377024	84.85276	ppb	96
28) Benzo (g,h,i) perylene	16.64	276	5973947	83.21411	ppb	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

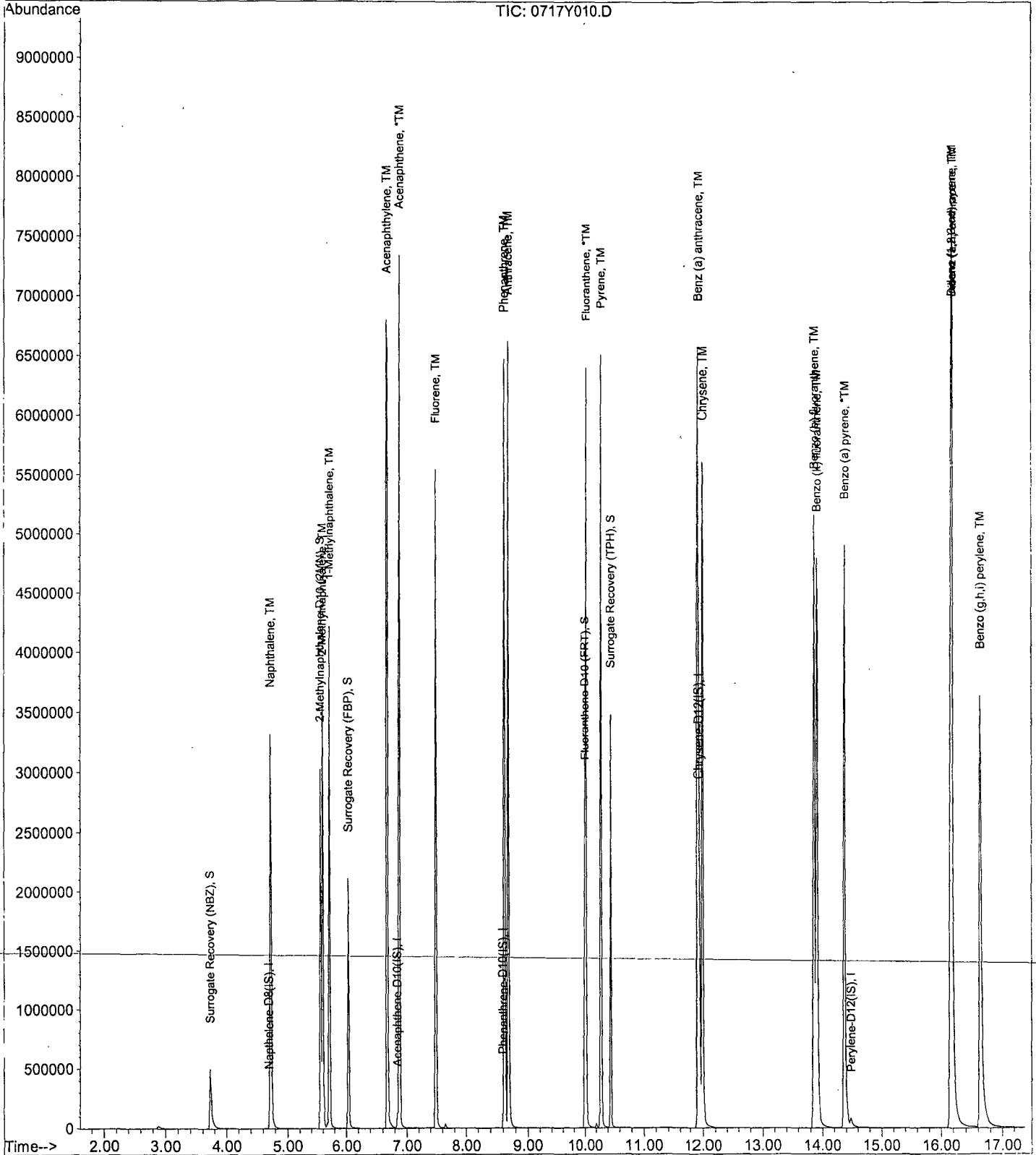
Data File : M:\YODA\DATA\Y190717P\0717Y010.D
Acq On : 17 Jul 19 12:35
Sample : 100 SIM 07/10/19
Misc :

Vial: 10
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 17 12:41 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Jul 17 13:35:41 2019
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/17/19
Instrument: Yoda
Initial Cal. Date: 07/17/19
Data File: 0717Y012.D

		Compound	MEAN	CCRF	%D	%Drift
1	TM	Naphthalene	1.337	1.122	16	TM
2	TM	2-Methylnaphthalene	0.8003	0.7338	8.3	TM
3	TM	1-Methylnaphthalene	0.9833	0.8071	18	TM
4	TM	Acenaphthylene	4.428	3.998	9.7	TM
5	*TM	Acenaphthene	1.696	1.380	19	*TM
6	TM	Fluorene	1.858	1.636	12	TM
7	TM	Phenanthrene	1.486	1.297	13	TM
8	TM	Anthracene	1.254	1.123	10	TM
9	*TM	Fluoranthene	1.857	1.606	14	*TM
10	TM	Pyrene	1.747	1.523	13	TM
11	TM	Benz (a) anthracene	1.511	1.272	16	TM
12	TM	Chrysene	1.682	1.390	17	TM
13	TM	Indeno (1,2,3-cd) pyrene	1.724	1.471	15	TM
14	TML	Benzo (b) fluoranthene	1.509	1.362	9.7	TML 18
15	TM	Benzo (k) fluoranthene	1.624	1.571	3.3	TM
16	*TM	Benzo (a) pyrene	1.452	1.284	12	*TM
17	TM	Dibenz (a,h) anthracene	1.501	1.365	9.0	TM
18	TM	Benzo (g,h,i) perylene	1.383	1.304	5.7	TM
19						
20						
21						
22						
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40						

Average

12.3

Data File : M:\YODA\DATA\Y190717P\0717Y012.D Vial: 12
 Acq On : 17 Jul 19 13:32 Operator: MA,SS
 Sample : SS SIM 07/10/19 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Jul 17 13:54 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Jul 17 13:35:41 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	4.72	136	113489	2.50000	ppb	0.01
7) Acenaphthene-D10(IS)	6.85	164	57573	2.50000	ppb	0.01
12) Phenanthrene-D10(IS)	8.61	188	106559	2.50000	ppb	0.01
17) Chrysene-D12(IS)	11.95	240	116279	2.50000	ppb	0.00
23) Perylene-D12(IS)	14.48	264	107289	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	0.00	82	0d	0.63118	ppb	
Spiked Amount	5.000		Recovery	=	12.620%	
4) 2-Methylnaphthalene-D10 (2)	0.00	152	0d	0.00000	ppb	
Spiked Amount	5.000		Recovery	=	0.000%	
8) Surrogate Recovery (FBP)	0.00	172	0d	0.00000	ppb	
Spiked Amount	5.000		Recovery	=	0.000%	
15) Fluoranthene-D10 (FRT)	0.00	212	0d	0.00000	ppb	
Spiked Amount	5.000		Recovery	=	0.000%	
19) Surrogate Recovery (TPH)	0.00	244	0d	0.00000	ppb	
Spiked Amount	5.000		Recovery	=	0.000%	
Target Compounds						
3) Naphthalene	4.74	128	254734	4.19804	ppb	99
5) 2-Methylnaphthalene	5.60	142	166552	4.58416	ppb	97
6) 1-Methylnaphthalene	5.72	142	183184	4.10365	ppb	98
9) Acenaphthylene	6.68	152	460304	4.51437	ppb	99
10) Acenaphthene	6.87	154	158939	4.06847	ppb	97
11) Fluorene	7.49	166	188407	4.40247	ppb	98
13) Phenanthrene	8.63	178	276456	4.36335	ppb	98
14) Anthracene	8.70	178	239371	4.47930	ppb	99
16) Fluoranthene	10.02	202	342243	4.32429	ppb	92
18) Pyrene	10.29	202	354213	4.35984	ppb #	88
20) Benz (a) anthracene	11.92	228	295879	4.20931	ppb	99
21) Chrysene	11.99	228	323306	4.13361	ppb	99
22) Indeno (1,2,3-cd) pyrene	16.20	276	342109	4.26698	ppb	95
24) Benzo (b) fluoranthene	13.88	252	292264	4.11192	ppb	100
25) Benzo (k) fluoranthene	13.92	252	337070	4.83639	ppb	100
26) Benzo (a) pyrene	14.39	252	275586	4.42266	ppb	99
27) Dibenz (a,h) anthracene	16.21	278	292997	4.54834	ppb	98
28) Benzo (g,h,i) perylene	16.69	276	279830	4.71433	ppb	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

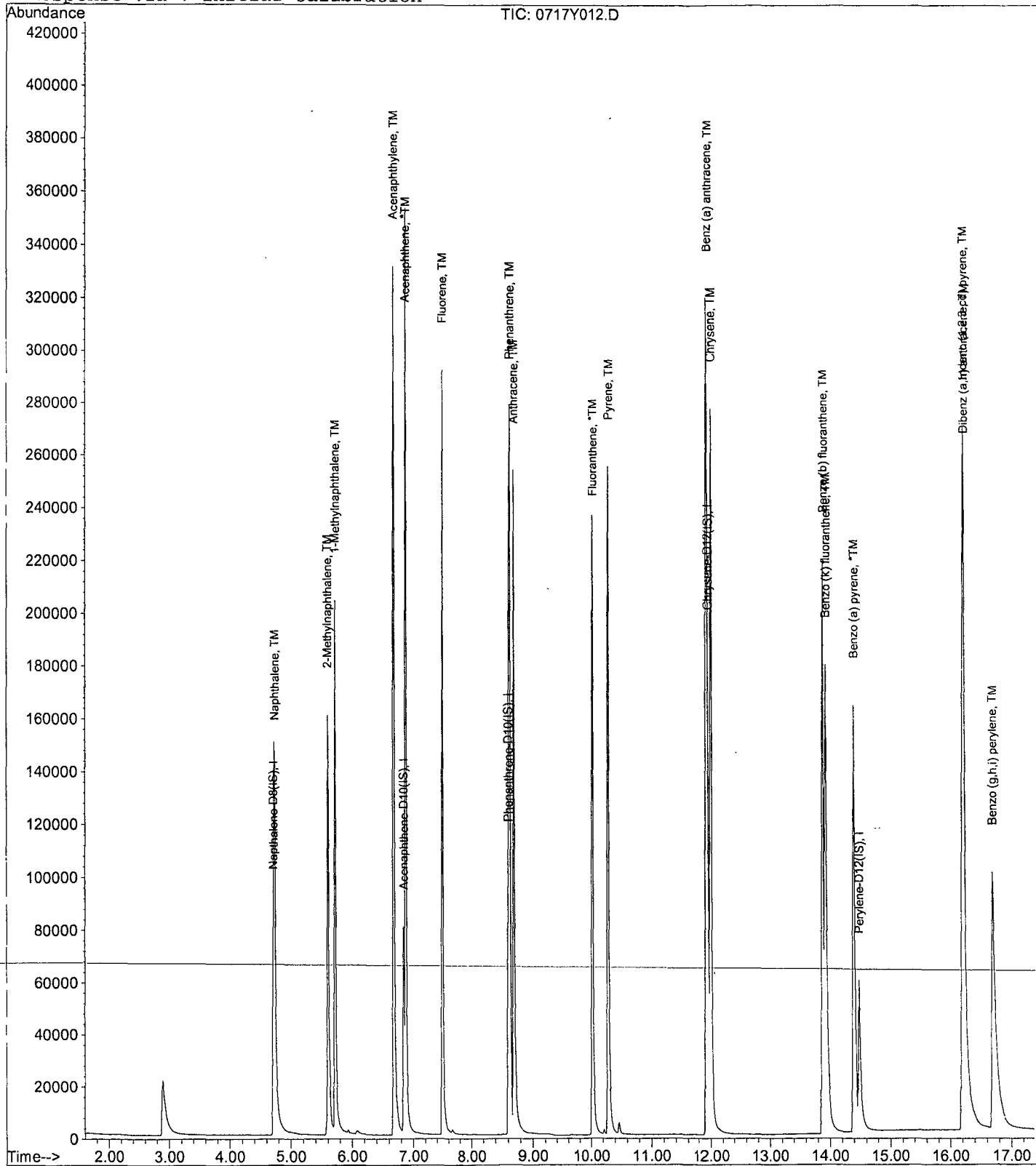
Data File : M:\YODA\DATA\Y190717P\0717Y012.D
Acq On : 17 Jul 19 13:32
Sample : SS SIM 07/10/19
Misc :

Vial: 12
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 17 13:54 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Jul 17 13:35:41 2019
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/31/19
Instrument: Yoda
Initial Cal. Date: 07/17/19
Data File: 0717Y305.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Napthalene-D8(IS)	ISTD			I	
2	SL	Surrogate Recovery (NBZ)	0.2451	0.2748	12	SL	11
3	TM	Napthalene	1.337	1.326	0.81	TM	
4	S	2-Methylnapthalene-D10 (2MN)	1.153	1.226	6.4	S	
5	TM	2-Methylnapthalene	0.8003	0.8817	10	TM	
6	TM	1-Methylnapthalene	0.9833	0.8949	9.0	TM	
7	I	Acenaphthene-D10(IS)	ISTD			I	
8	S	Surrogate Recovery (FBP)	1.443	1.474	2.2	S	
9	TM	Acenaphthylene	4.428	6.002	36	TM	*
10	*TM	Acenaphthene	1.696	1.573	7.2	*TM	
11	TM	Fluorene	1.858	1.930	3.9	TM	
12	I	Phenanthrene-D10(IS)	ISTD			I	
13	TM	Phenanthrene	1.486	1.409	5.2	TM	
14	TM	Anthracene	1.254	1.367	9.0	TM	
15	S	Fluoranthene-D10 (FRT)	1.122	1.303	16	S	
16	*TM	Fluoranthene	1.857	2.028	9.2	*TM	
17	I	Chrysene-D12(IS)	ISTD			I	
18	TM	Pyrene	1.747	1.494	14	TM	
19	S	Surrogate Recovery (TPH)	0.9517	0.9595	0.83	S	
20	TM	Benz (a) anthracene	1.511	1.440	4.7	TM	
21	TM	Chrysene	1.682	1.376	18	TM	
22	TM	Indeno (1,2,3-cd) pyrene	1.724	1.778	3.2	TM	
23	I	Perylene-D12(IS)	ISTD			I	
24	TML	Benzo (b) fluoranthene	1.509	1.437	4.8	TML	13
25	TM	Benzo (k) fluoranthene	1.624	1.381	15	TM	
26	*TM	Benzo (a) pyrene	1.452	1.337	7.9	*TM	
27	TM	Dibenz (a,h) anthracene	1.501	1.393	7.2	TM	
28	TM	Benzo (g,h,i) perylene	1.383	1.300	6.0	TM	
29							
30							
31							
32							
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36							
37							
38							
39							
40							

Average

9.1

Data File : M:\YODA\DATA\Y190717P\0717Y305.D
 Acq On : 31 Jul 19 14:49
 Sample : 5.0 SIM 07/10/19 (2)
 Misc :

Vial: 5
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 31 14:52 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	4.53	136	58657	2.50000	ppb	-0.05
7) Acenaphthene-D10 (IS)	6.66	164	31984	2.50000	ppb	-0.06
12) Phenanthrene-D10 (IS)	8.42	188	63332	2.50000	ppb	-0.06
17) Chrysene-D12 (IS)	11.68	240	87323	2.50000	ppb	-0.11
23) Perylene-D12 (IS)	14.21	264	95940	2.50000	ppb	-0.11

System Monitoring Compounds

2) Surrogate Recovery (NBZ)	3.61	82	16119	2.76352	ppb	-0.09
Spiked Amount	5.000		Recovery	=	55.280%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	71925	2.65913	ppb	-0.05
Spiked Amount	5.000		Recovery	=	53.180%	
8) Surrogate Recovery (FBP)	5.87	172	47159	2.55405	ppb	-0.08
Spiked Amount	5.000		Recovery	=	51.080%	
15) Fluoranthene-D10 (FRT)	9.81	212	82529	2.90357	ppb	-0.06
Spiked Amount	5.000		Recovery	=	58.080%	
19) Surrogate Recovery (TPH)	10.27	244	83790	2.52066	ppb	-0.05
Spiked Amount	5.000		Recovery	=	50.420%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.56	128	155547	4.95970	ppb	100
5) 2-Methylnaphthalene	5.42	142	103439	5.50844	ppb	99
6) 1-Methylnaphthalene	5.54	142	104983	4.55025	ppb	93
9) Acenaphthylene	6.50	152	383935	6.77792	ppb	# 84
10) Acenaphthene	6.70	154	100650	4.63768	ppb	93
11) Fluorene	7.31	166	123469	5.19330	ppb	92
13) Phenanthrene	8.45	178	178532	4.74108	ppb	99
14) Anthracene	8.51	178	173163	5.45206	ppb	99
16) Fluoranthene	9.82	202	256831	5.46003	ppb	97
18) Pyrene	10.09	202	260978	4.27743	ppb	93
20) Benz (a) anthracene	11.67	228	251456	4.76356	ppb	98
21) Chrysene	11.72	228	240293	4.09100	ppb	# 90
22) Indeno (1,2,3-cd) pyrene	15.83	276	310561	5.15793	ppb	# 88
24) Benzo (b) fluoranthene	13.60	252	275657	4.33156	ppb	99
25) Benzo (k) fluoranthene	13.64	252	264942	4.25116	ppb	98
26) Benzo (a) pyrene	14.12	252	256482	4.60298	ppb	99
27) Dibenz (a,h) anthracene	15.83	278	267286	4.64003	ppb	95
28) Benzo (g,h,i) perylene	16.29	276	249531	4.70117	ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

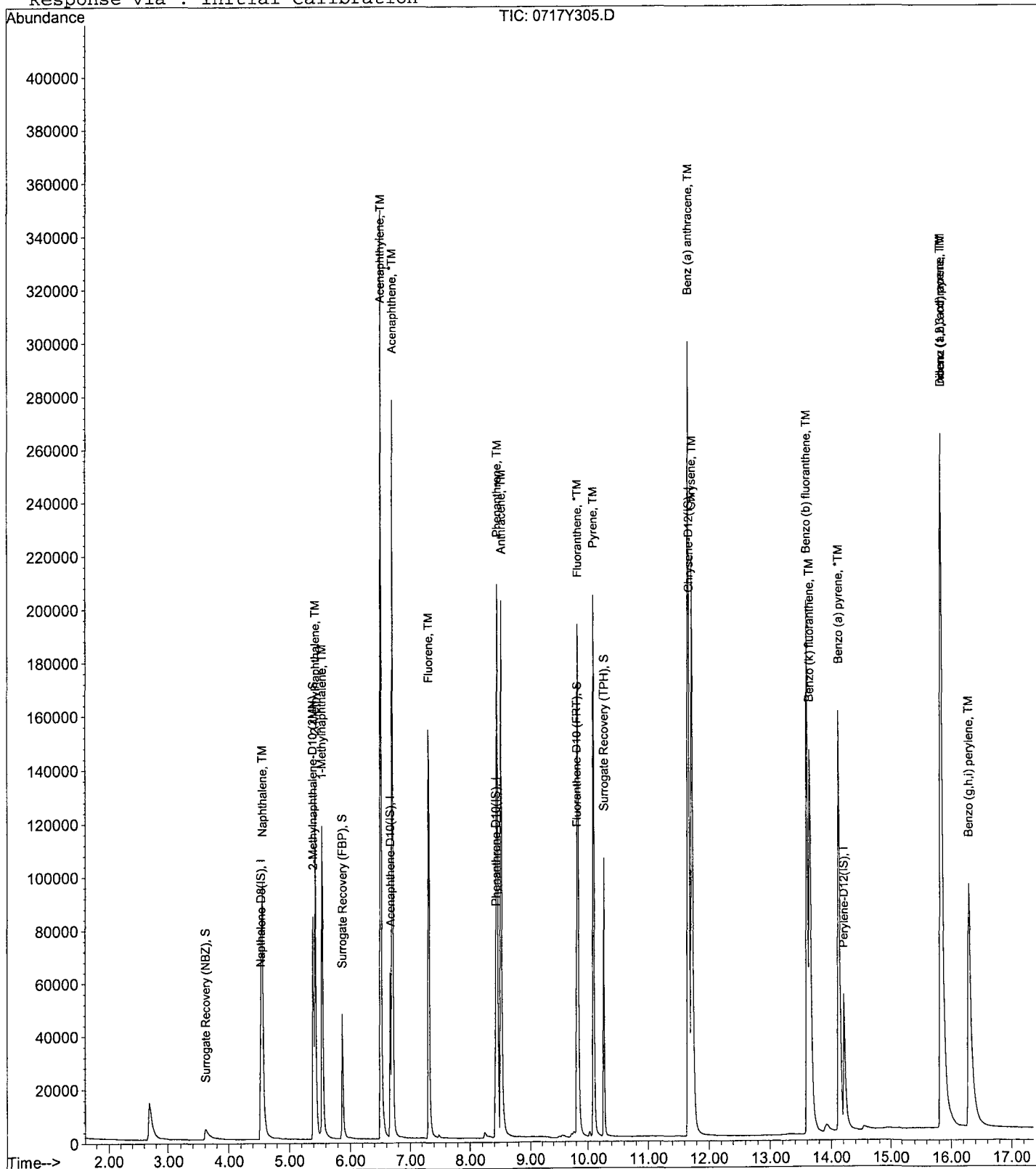
Data File : M:\YODA\DATA\Y190717P\0717Y305.D
Acq On : 31 Jul 19 14:49
Sample : 5.0 SIM 07/10/19 (2)
Misc :

Vial: 5
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 31 14:52 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 1 Aug 19 2:57
Instrument: Yoda
Initial Cal. Date: 07/17/19
Data File: 0717Y335.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Naphthalene-D8(IS)	ISTD			I
2	SL Surrogate Recovery (NBZ)	0.2451	0.2835	16	SL 13
3	TM Naphthalene	1.337	1.222	8.6	TM
4	S 2-Methylnaphthalene-D10 (2MN)	1.153	1.505	31	S
5	TM 2-Methylnaphthalene	0.8003	0.8116	1.4	TM
6	TM 1-Methylnaphthalene	0.9833	0.8244	16	TM
7	I Acenaphthene-D10(IS)	ISTD			I
8	S Surrogate Recovery (FBP)	1.443	1.893	31	S
9	TM Acenaphthylene	4.428	5.619	27	TM
10	*TM Acenaphthene	1.696	1.497	12	*TM
11	TM Fluorene	1.858	1.860	0.09	TM
12	I Phenanthrene-D10(IS)	ISTD			I
13	TM Phenanthrene	1.486	1.292	13	TM
14	TM Anthracene	1.254	1.243	0.85	TM
15	S Fluoranthene-D10 (FRT)	1.122	1.599	43	S
16	*TM Fluoranthene	1.857	1.855	0.12	*TM
17	I Chrysene-D12(IS)	ISTD			I
18	TM Pyrene	1.747	1.356	22	TM
19	S Surrogate Recovery (TPH)	0.9517	1.266	33	S
20	TM Benz (a) anthracene	1.511	1.313	13	TM
21	TM Chrysene	1.682	1.296	23	TM
22	TM Indeno (1,2,3-cd) pyrene	1.724	1.589	7.8	TM
23	I Perylene-D12(IS)	ISTD			I
24	TML Benzo (b) fluoranthene	1.509	1.253	17	TML 24
25	TM Benzo (k) fluoranthene	1.624	1.375	15	TM
26	*TM Benzo (a) pyrene	1.452	1.232	15	*TM
27	TM Dibenz (a,h) anthracene	1.501	1.282	15	TM
28	TM Benzo (g,h,i) perylene	1.383	1.205	13	TM
29					
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40					

Average

16.3

Data File : M:\YODA\DATA\Y190717P\0717Y335.D Vial: 35
 Acq On : 1 Aug 19 2:57 Operator: MA,SS
 Sample : 5.0 SIM 07/10/19 (1) Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Aug 1 8:33 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.53	136	82076	2.50000	ppb	-0.05
7) Acenaphthene-D10 (IS)	6.66	164	43132	2.50000	ppb	-0.06
12) Phenanthrene-D10 (IS)	8.41	188	90418	2.50000	ppb	-0.08
17) Chrysene-D12 (IS)	11.68	240	123322	2.50000	ppb	-0.11
23) Perylene-D12 (IS)	14.21	264	131754	2.50000	ppb	-0.11
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.60	82	23270	2.83116	ppb	-0.10
Spiked Amount	5.000		Recovery	=	56.620%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	123555	3.26456	ppb	-0.05
Spiked Amount	5.000		Recovery	=	65.300%	
8) Surrogate Recovery (FBP)	5.87	172	81639	3.27865	ppb	-0.08
Spiked Amount	5.000		Recovery	=	65.580%	
15) Fluoranthene-D10 (FRT)	9.80	212	144572	3.56269	ppb	-0.07
Spiked Amount	5.000		Recovery	=	71.260%	
19) Surrogate Recovery (TPH)	10.27	244	156071	3.32454	ppb	-0.05
Spiked Amount	5.000		Recovery	=	66.500%	
Target Compounds						
3) Naphthalene	4.54	128	200520	4.56936	ppb	99
5) 2-Methylnaphthalene	5.42	142	133223	5.07022	ppb	99
6) 1-Methylnaphthalene	5.54	142	135331	4.19196	ppb	95
9) Acenaphthylene	6.50	152	484755	6.34591	ppb	# 84
10) Acenaphthene	6.70	154	129150	4.41280	ppb	96
11) Fluorene	7.31	166	160454	5.00460	ppb	96
13) Phenanthrene	8.44	178	233643	4.34592	ppb	100
14) Anthracene	8.51	178	224801	4.95761	ppb	99
16) Fluoranthene	9.82	202	335379	4.99404	ppb	91
18) Pyrene	10.09	202	334335	3.88015	ppb	# 87
20) Benz (a) anthracene	11.65	228	323867	4.34435	ppb	99
21) Chrysene	11.72	228	319570	3.85249	ppb	# 89
22) Indeno (1,2,3-cd) pyrene	15.82	276	391901	4.60886	ppb	# 87
24) Benzo (b) fluoranthene	13.60	252	330122	3.79016	ppb	99
25) Benzo (k) fluoranthene	13.64	252	362345	4.23365	ppb	97
26) Benzo (a) pyrene	14.11	252	324655	4.24267	ppb	99
27) Dibenz (a,h) anthracene	15.82	278	337735	4.26930	ppb	95
28) Benzo (g,h,i) perylene	16.28	276	317641	4.35767	ppb	98

(#) = qualifier out of range (m) = manual integration

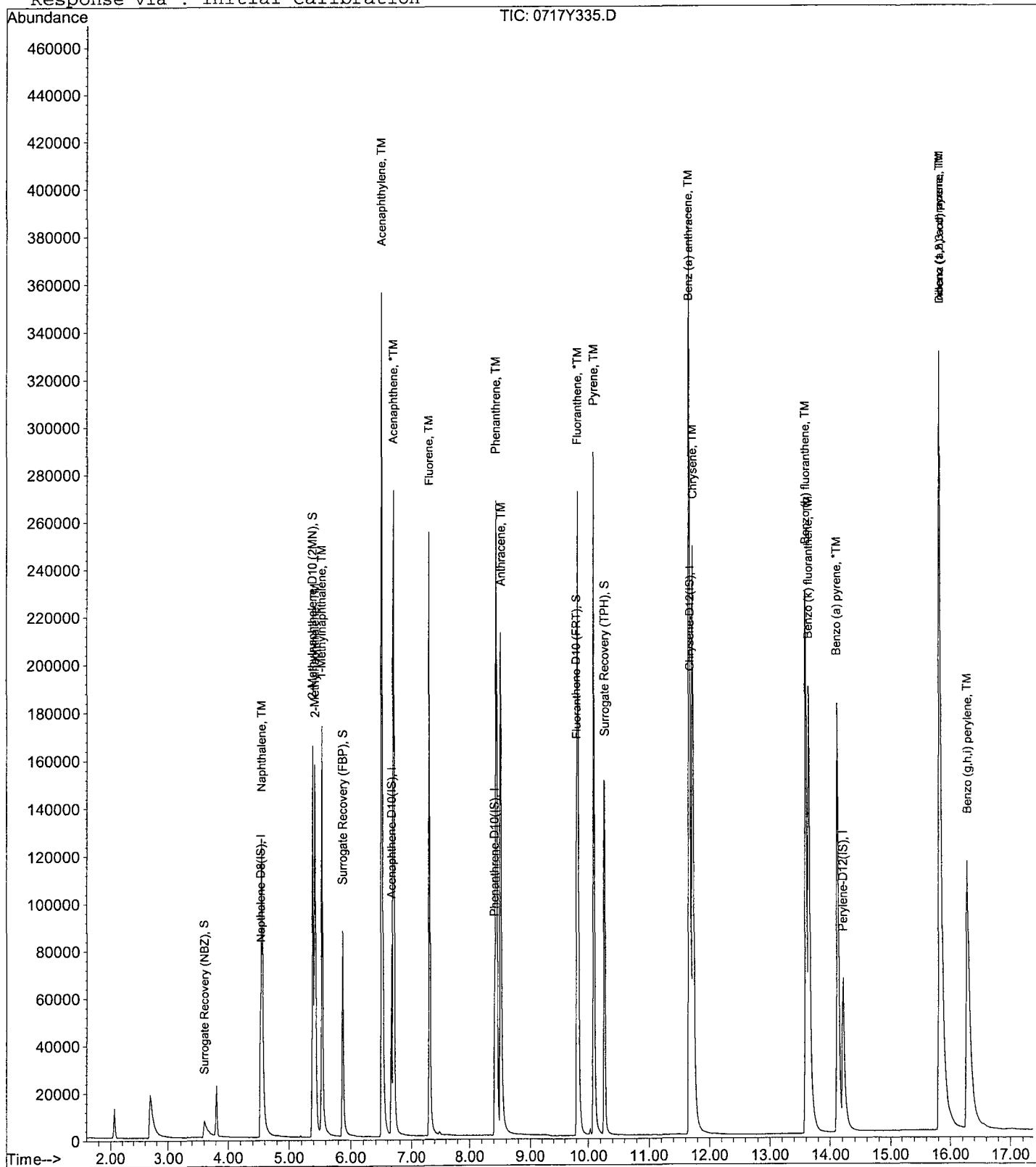
Data File : M:\YODA\DATA\Y190717P\0717Y335.D
Acq On : 1 Aug 19 2:57
Sample : 5.0 SIM 07/10/19 (1)
Misc :

Vial: 35
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Aug 1 8:33 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



ORGANICS
Raw Data

Data File : M:\YODA\DATA\Y190717P\0717Y315.D Vial: 15
 Acq On : 31 Jul 19 19:12 Operator: MA,SS
 Sample : AZ95511W15 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Aug 1 9:28 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	4.52	136	59749	2.50000	ppb	-0.06
7) Acenaphthene-D10 (IS)	6.67	164	32634	2.50000	ppb	-0.06
12) Phenanthrene-D10 (IS)	8.43	188	66392	2.50000	ppb	-0.06
17) Chrysene-D12 (IS)	11.69	240	92511	2.50000	ppb	-0.10
23) Perylene-D12 (IS)	14.21	264	100198	2.50000	ppb	-0.11

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	0.00	82	0	0.00000	ppb	
Spiked Amount	6.250					
Recovery				=	0.000%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	140850	6.39023	ppb	-0.05
Spiked Amount	6.250					
Recovery				=	102.240%	
8) Surrogate Recovery (FBP)	5.86	172	1609640	106.79858	ppb	-0.09
Spiked Amount	6.250					
Recovery				=	1708.784%	
15) Fluoranthene-D10 (FRT)	9.81	212	167190	7.01379	ppb	-0.06
Spiked Amount	6.250					
Recovery				=	112.224%	
19) Surrogate Recovery (TPH)	10.27	244	2688925	95.44330	ppb	-0.05
Spiked Amount	6.250					
Recovery				=	1527.088%	

Target Compounds Qvalue

Quantitation Report

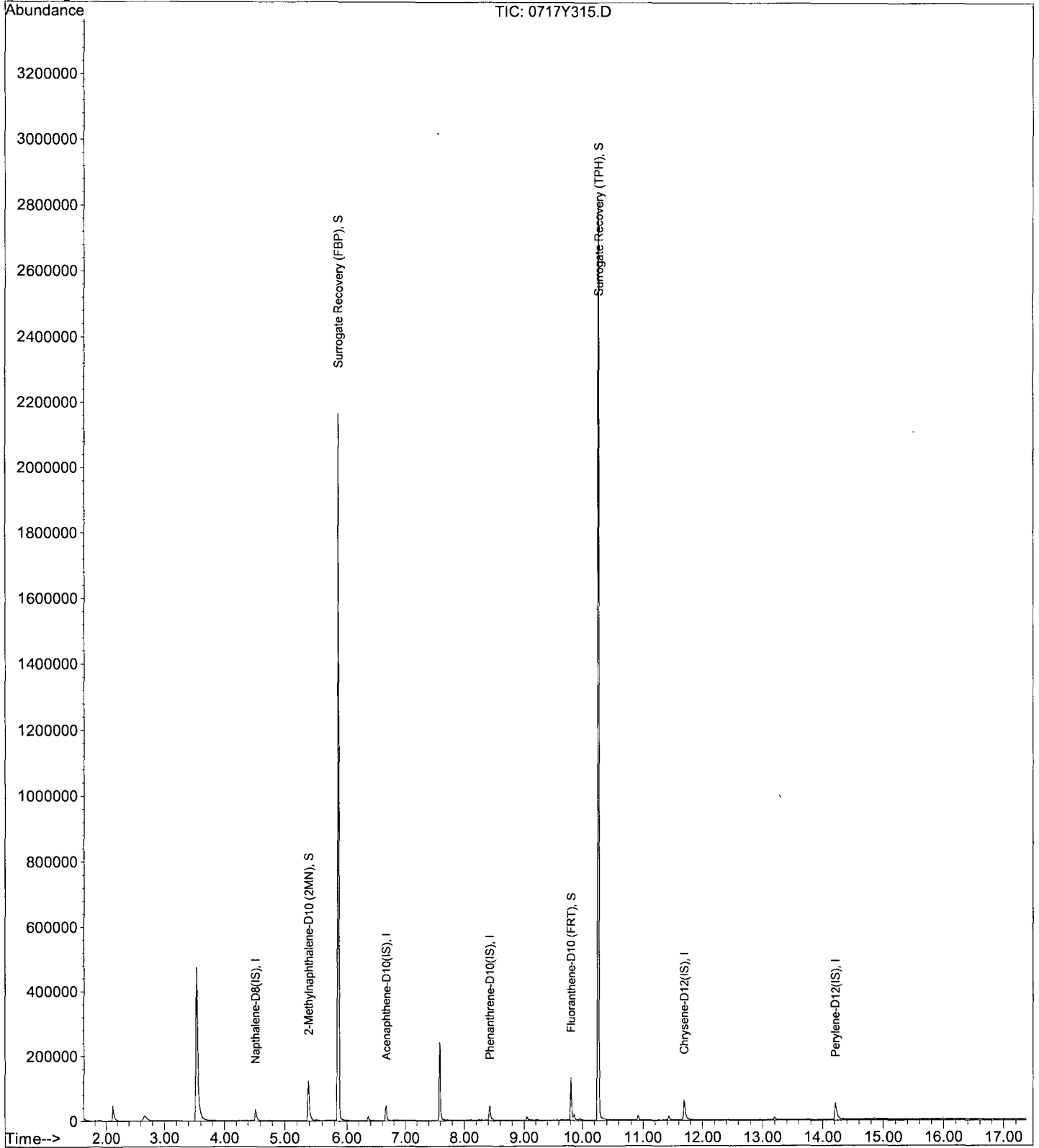
Data File : M:\YODA\DATA\Y190717P\0717Y315.D
Acq On : 31 Jul 19 19:12
Sample : AZ95511W15 1/800
Misc :

Vial: 15
Operator: MA, SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Aug 1 9:28 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y316.D Vial: 16
 Acq On : 31 Jul 19 19:35 Operator: MA, SS
 Sample : AZ95513W13 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Aug 1 9:29 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	4.52	136	64515	2.50000	ppb	-0.06
7) Acenaphthene-D10 (IS)	6.66	164	34585	2.50000	ppb	-0.06
12) Phenanthrene-D10 (IS)	8.43	188	70389	2.50000	ppb	-0.06
17) Chrysene-D12 (IS)	11.69	240	99270	2.50000	ppb	-0.10
23) Perylene-D12 (IS)	14.21	264	107162	2.50000	ppb	-0.11
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	0.00	82	0	0.00000	ppb	
Spiked Amount	6.250		Recovery	=	0.000%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	137586	5.78101	ppb	-0.05
Spiked Amount	6.250		Recovery	=	92.496%	
8) Surrogate Recovery (FBP)	5.86	172	1591397	99.63175	ppb	-0.09
Spiked Amount	6.250		Recovery	=	1594.112%	
15) Fluoranthene-D10 (FRT)	9.81	212	166784	6.59945	ppb	-0.06
Spiked Amount	6.250		Recovery	=	105.584%	
19) Surrogate Recovery (TPH)	10.27	244	2635401	87.17437	ppb	-0.05
Spiked Amount	6.250		Recovery	=	1394.784%	

Target Compounds Qvalue

Quantitation Report

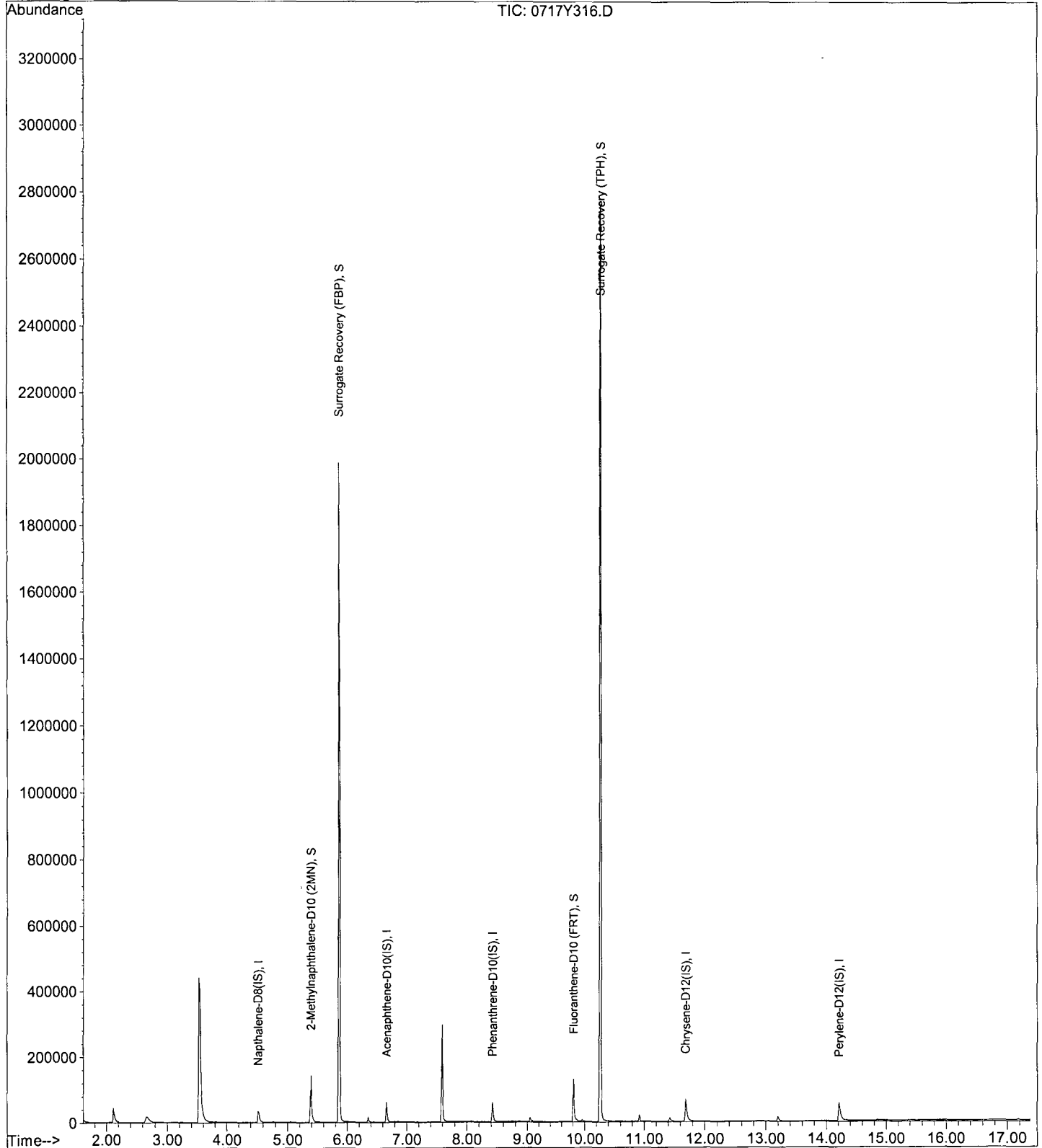
Data File : M:\YODA\DATA\Y190717P\0717Y316.D
Acq On : 31 Jul 19 19:35
Sample : AZ95513W13 1/800
Misc :

Vial: 16
Operator: MA, SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Aug 1 9:29 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y309.D
 Acq On : 31 Jul 19 16:52
 Sample : 190729A BLK 1/800
 Misc :

Vial: 9
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Aug 1 9:27 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	4.53	136	64703	2.50000	ppb	-0.05
7) Acenaphthene-D10(IS)	6.68	164	36203	2.50000	ppb	-0.05
12) Phenanthrene-D10(IS)	8.44	188	74104	2.50000	ppb	-0.05
17) Chrysene-D12(IS)	11.70	240	101497	2.50000	ppb	-0.09
23) Perylene-D12(IS)	14.22	264	111953	2.50000	ppb	-0.10
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	0.00	82	0	0.00000	ppb	
Spiked Amount	6.250					
			Recovery	=	0.000%	
4) 2-Methylnaphthalene-D10 (2)	5.40	152	137408	5.75675	ppb	-0.04
Spiked Amount	6.250					
			Recovery	=	92.112%	
8) Surrogate Recovery (FBP)	5.87	172	1599963	95.69129	ppb	-0.08
Spiked Amount	6.250					
			Recovery	=	1531.056%	
15) Fluoranthene-D10 (FRT)	9.81	212	165347	6.21460	ppb	-0.06
Spiked Amount	6.250					
			Recovery	=	99.440%	
19) Surrogate Recovery (TPH)	10.27	244	2573160	83.24798	ppb	-0.05
Spiked Amount	6.250					
			Recovery	=	1331.968%	

Target Compounds

Qvalue

Quantitation Report

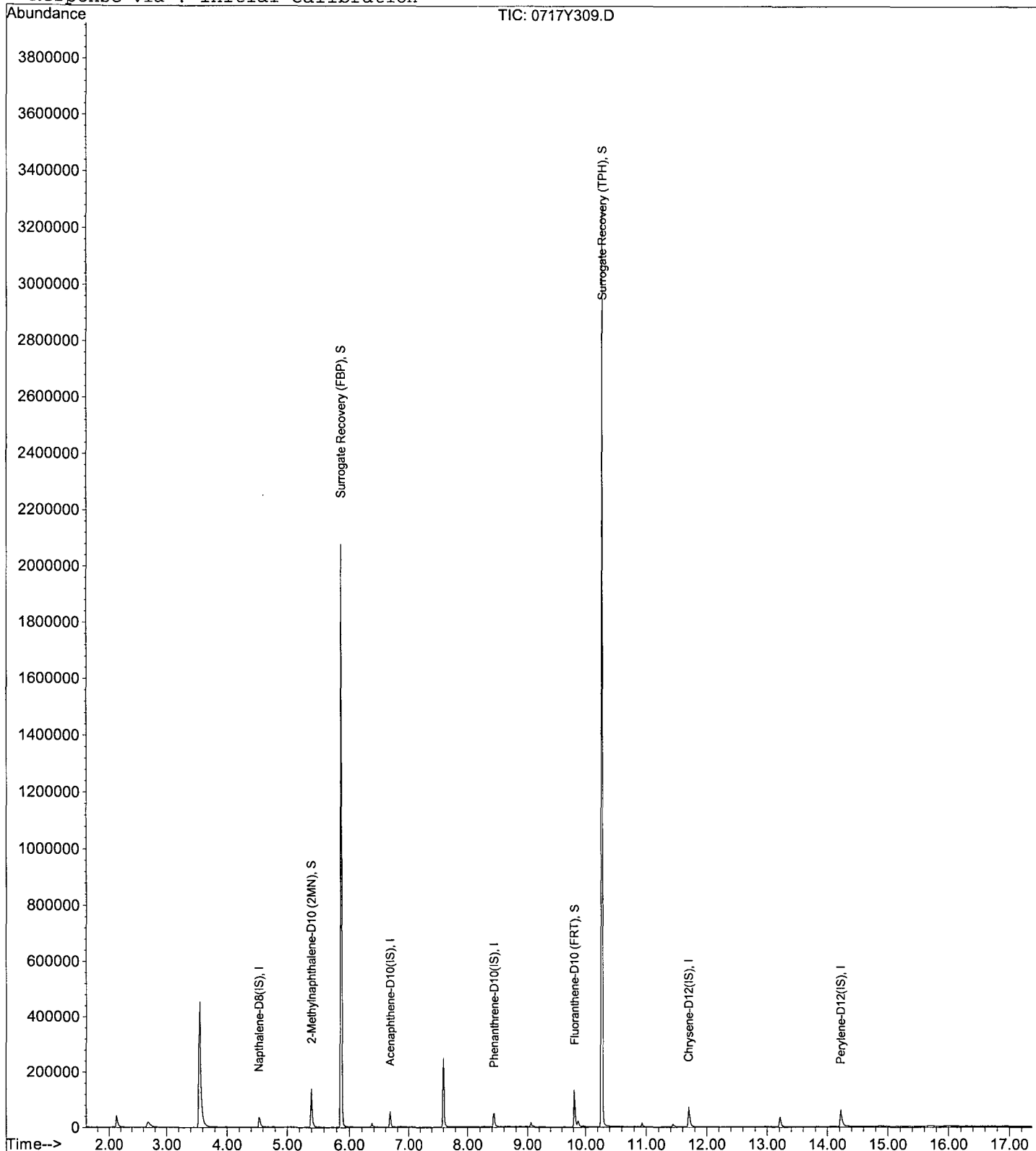
Data File : M:\YODA\DATA\Y190717P\0717Y309.D
Acq On : 31 Jul 19 16:52
Sample : 190729A BLK 1/800
Misc :

Vial: 9
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Aug 1 9:27 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y310.D
 Acq On : 31 Jul 19 17:15
 Sample : 190729A LCS-2 1/800
 Misc :

Vial: 10
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Jul 31 17:32 2019

Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

1) Naphthalene-D8 (IS)	4.52	136	63429	2.50000	ppb	-0.06
7) Acenaphthene-D10 (IS)	6.66	164	34007	2.50000	ppb	-0.06
12) Phenanthrene-D10 (IS)	8.42	188	67782	2.50000	ppb	-0.06
17) Chrysene-D12 (IS)	11.68	240	95613	2.50000	ppb	-0.11
23) Perylene-D12 (IS)	14.21	264	103596	2.50000	ppb	-0.11
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.68	82	707	0.89708	ppb	-0.03
Spiked Amount	6.250		Recovery	=	14.352%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	134448	5.74588	ppb	-0.05
Spiked Amount	6.250		Recovery	=	91.936%	
8) Surrogate Recovery (FBP)	5.88	172	725	0.04616	ppb	-0.06
Spiked Amount	6.250		Recovery	=	0.736%	
15) Fluoranthene-D10 (FRT)	9.80	212	166448	6.83947	ppb	-0.08
Spiked Amount	6.250		Recovery	=	109.424%	
19) Surrogate Recovery (TPH)	10.28	244	2006	0.06889	ppb	-0.04
Spiked Amount	6.250		Recovery	=	1.104%	
Target Compounds						Qvalue
3) Naphthalene	4.54	128	101366	3.73618	ppb	99
5) 2-Methylnaphthalene	5.42	142	68869	4.23945	ppb	99
6) 1-Methylnaphthalene	5.54	142	68619	3.43797	ppb	94
9) Acenaphthylene	6.50	152	260697	5.41065	ppb	# 84
10) Acenaphthene	6.70	154	68610	3.71662	ppb	95
11) Fluorene	7.31	166	91330	4.51620	ppb	94
13) Phenanthrene	8.45	178	135960	4.21688	ppb	99
14) Anthracene	8.51	178	130096	4.78397	ppb	99
16) Fluoranthene	9.82	202	197052	4.89268	ppb	96
18) Pyrene	10.09	202	200073	3.74360	ppb	94
20) Benz (a) anthracene	11.67	228	186324	4.02958	ppb	98
21) Chrysene	11.72	228	178153	3.46260	ppb	# 90
22) Indeno (1,2,3-cd) pyrene	15.84	276	221013	4.19053	ppb	# 86
24) Benzo (b) fluoranthene	13.60	252	196510	3.61717	ppb	98
25) Benzo (k) fluoranthene	13.65	252	202936	3.76949	ppb	97
26) Benzo (a) pyrene	14.12	252	172779	3.58955	ppb	99
27) Dibenz (a,h) anthracene	15.84	278	176463	3.54622	ppb	# 93
28) Benzo (g,h,i) perylene	16.31	276	154608	3.37194	ppb	97

(#) = qualifier out of range (m) = manual integration
 0717Y310.D Y0717P.M Fri Aug 23 12:32:08 2019

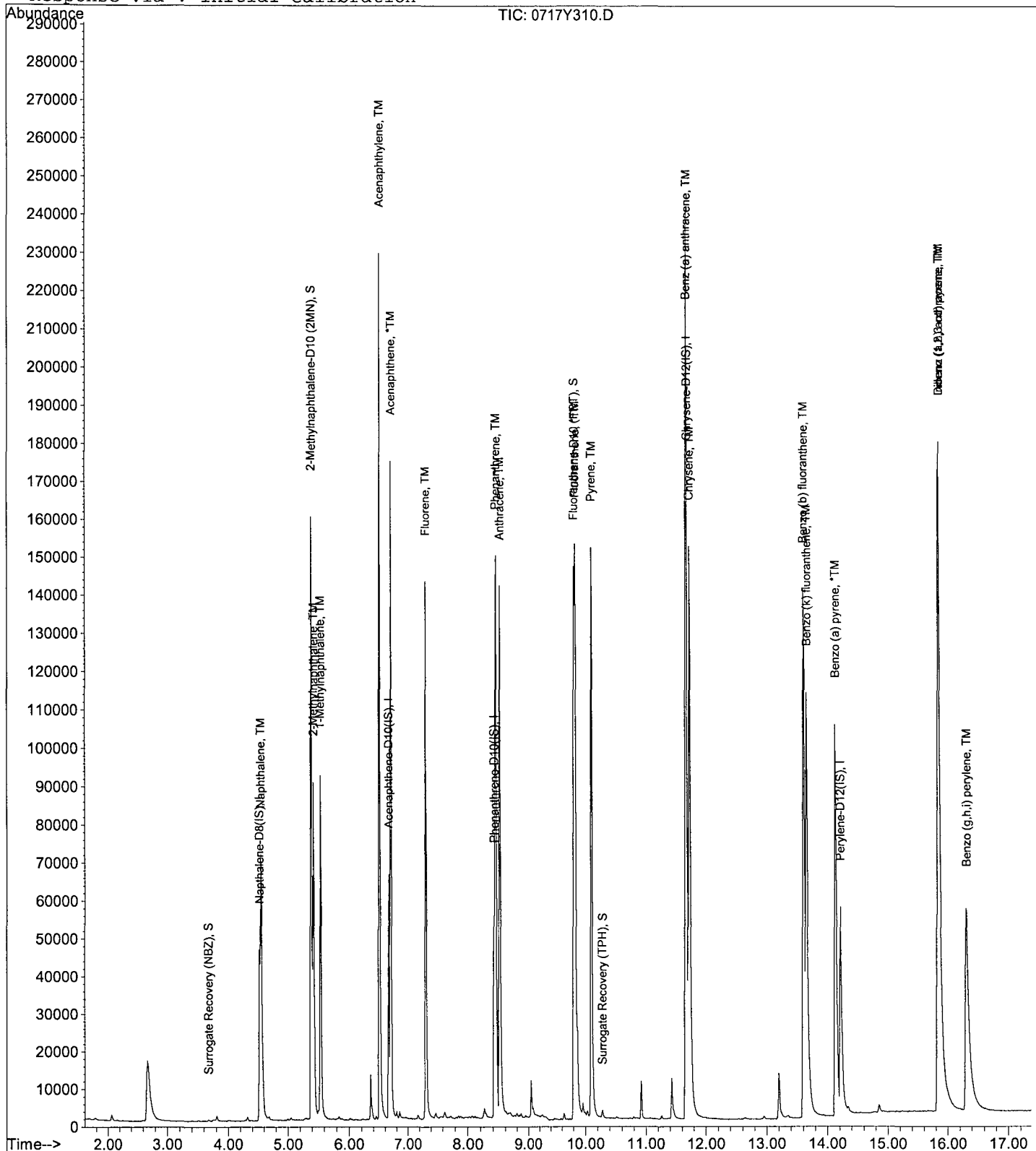
Data File : M:\YODA\DATA\Y190717P\0717Y310.D
Acq On : 31 Jul 19 17:15
Sample : 190729A LCS-2 1/800
Misc :

Vial: 10
Operator: MA, SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Jul 31 17:32 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190717P\0717Y311.D Vial: 11
 Acq On : 31 Jul 19 17:39 Operator: MA, SS
 Sample : 190729A LCSD-2 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Aug 1 8:54 2019 Quant Results File: Y0717P.RES

Quant Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Mon Jul 29 09:19:19 2019
 Response via : Initial Calibration
 DataAcq Meth : YSIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

1) Naphthalene-D8 (IS)	4.52	136	62289	2.50000	ppb	-0.06
7) Acenaphthene-D10 (IS)	6.66	164	32921	2.50000	ppb	-0.06
12) Phenanthrene-D10 (IS)	8.41	188	69173	2.50000	ppb	-0.08
17) Chrysene-D12 (IS)	11.68	240	92693	2.50000	ppb	-0.11
23) Perylene-D12 (IS)	14.21	264	100080	2.50000	ppb	-0.11
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.66	82	688	0.89610	ppb	-0.04
Spiked Amount	6.250		Recovery	=	14.336%	
4) 2-Methylnaphthalene-D10 (2)	5.39	152	132356	5.76000	ppb	-0.05
Spiked Amount	6.250		Recovery	=	92.160%	
8) Surrogate Recovery (FBP)	5.88	172	361	0.02374	ppb	-0.06
Spiked Amount	6.250		Recovery	=	0.384%	
15) Fluoranthene-D10 (FRT)	9.80	212	168204	6.77264	ppb	-0.07
Spiked Amount	6.250		Recovery	=	108.368%	
19) Surrogate Recovery (TPH)	10.28	244	966	0.03422	ppb	-0.04
Spiked Amount	6.250		Recovery	=	0.544%	
Target Compounds						Qvalue
3) Naphthalene	4.54	128	97238	3.64963	ppb	99
5) 2-Methylnaphthalene	5.43	142	66332	4.15801	ppb	99
6) 1-Methylnaphthalene	5.54	142	65992	3.36687	ppb	95
9) Acenaphthylene	6.50	152	252368	5.41057	ppb	# 84
10) Acenaphthene	6.70	154	67093	3.75434	ppb	95
11) Fluorene	7.31	166	90140	4.60440	ppb	97
13) Phenanthrene	8.44	178	134947	4.10129	ppb	99
14) Anthracene	8.51	178	129873	4.67973	ppb	99
16) Fluoranthene	9.82	202	198151	4.82104	ppb	94
18) Pyrene	10.09	202	200296	3.86583	ppb	91
20) Benz (a) anthracene	11.67	228	191461	4.27112	ppb	98
21) Chrysene	11.72	228	182870	3.66625	ppb	# 90
22) Indeno (1,2,3-cd) pyrene	15.83	276	229833	4.49503	ppb	92
24) Benzo (b) fluoranthene	13.60	252	205584	3.90675	ppb	99
25) Benzo (k) fluoranthene	13.65	252	204876	3.93922	ppb	# 96
26) Benzo (a) pyrene	14.12	252	177797	3.82357	ppb	98
27) Dibenz (a,h) anthracene	15.83	278	189321	3.93828	ppb	96
28) Benzo (g,h,i) perylene	16.30	276	170630	3.85212	ppb	97

(#) = qualifier out of range (m) = manual integration
 0717Y311.D Y0717P.M Fri Aug 23 12:32:10 2019

Quantitation Report

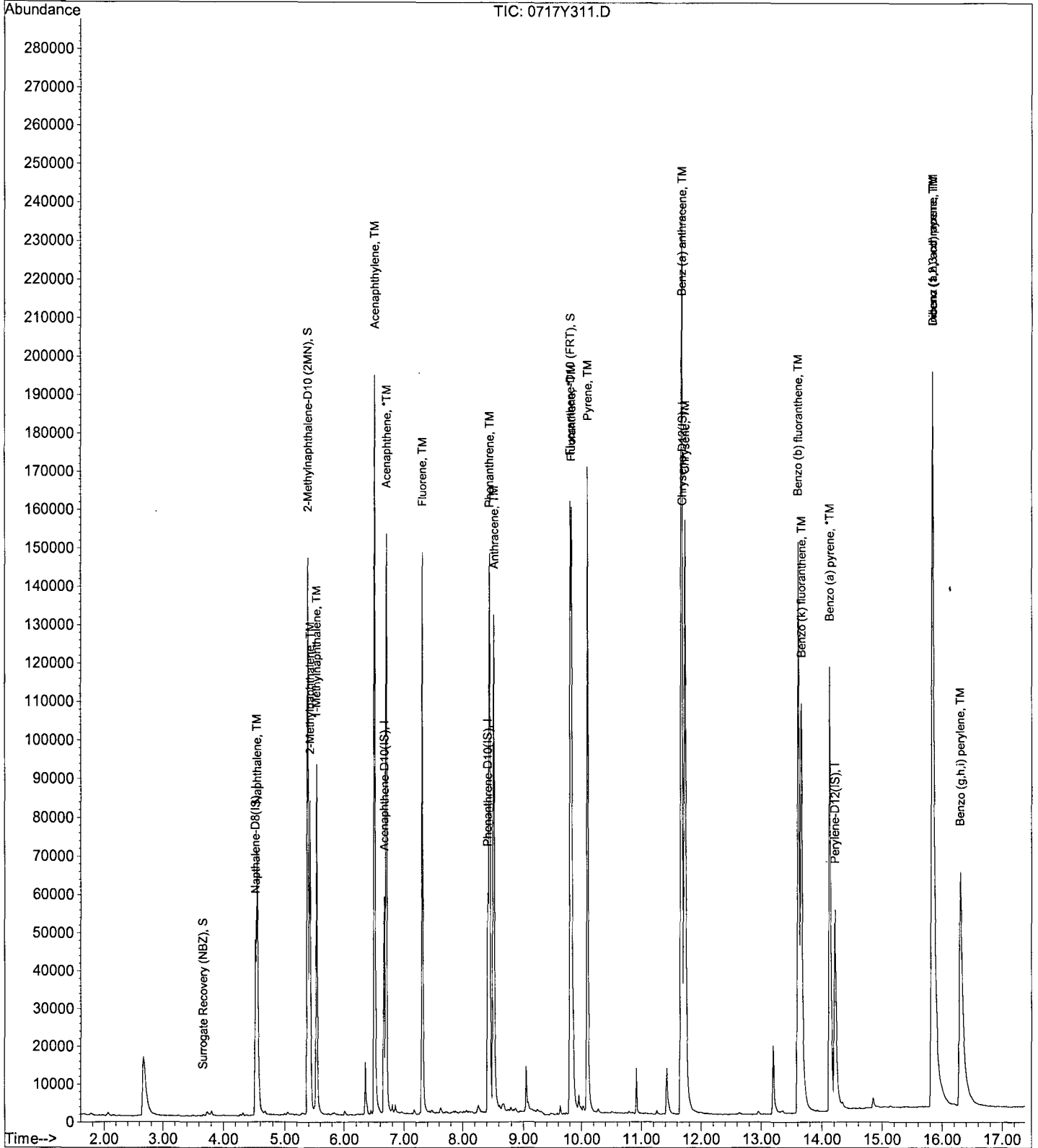
Data File : M:\YODA\DATA\Y190717P\0717Y311.D
Acq On : 31 Jul 19 17:39
Sample : 190729A LCSD-2 1/800
Misc :

Vial: 11
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Aug 1 8:54 2019

Quant Results File: Y0717P.RES

Method : M:\YODA\DATA\Y190717P\Y0717P.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Jul 29 09:19:19 2019
Response via : Initial Calibration



Data File Name: 0717Y002.D
Data File Path: M:\YODA\DATA\Y190717P\
Operator: MA,SS
Date Acquired: 17 Jul 2019 09:34
Method File: DFTPP2.M
Sample Name: SV TUNE 07/11/19
Vial Number: 2
Instrument Name: Yoda

#	Name	Ret Time	Target Response
1)	DDT	6.94	53172800
2)	DDD	6.71	294434
3)	DDE	6.80	131871

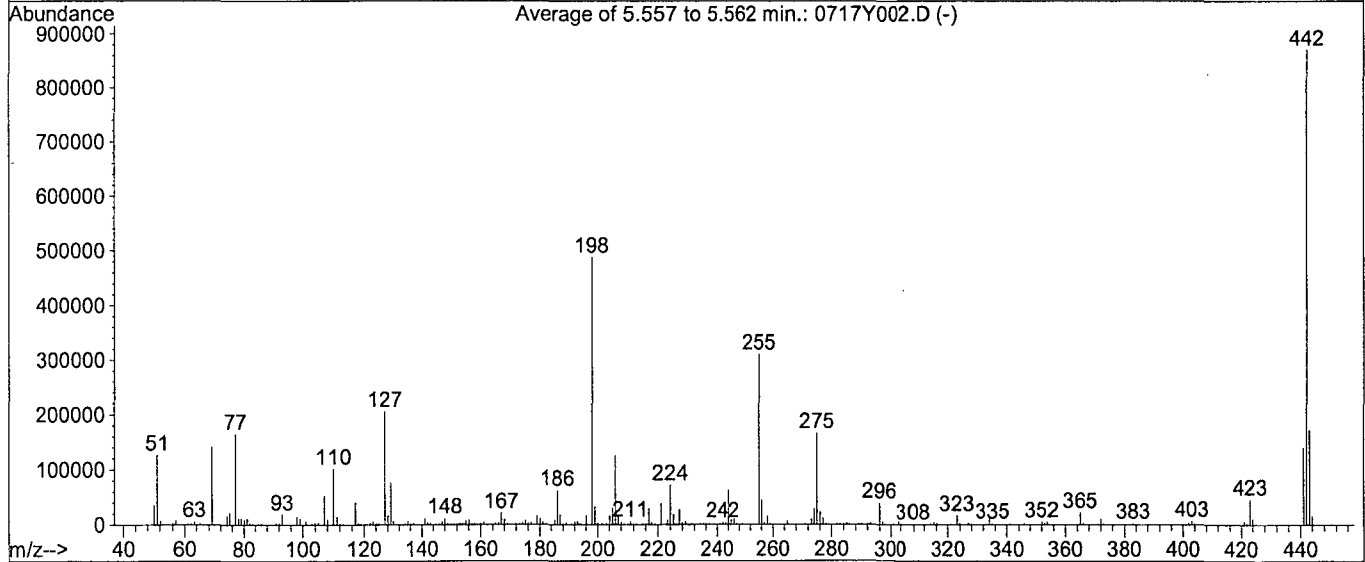
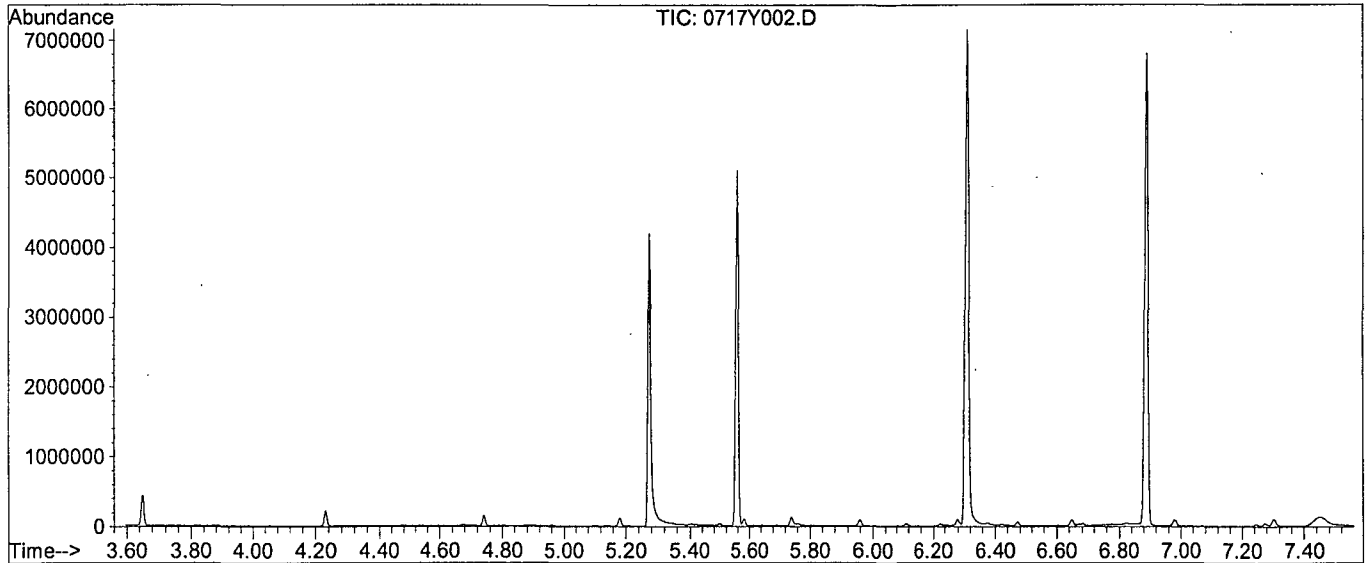
Breakdown 0.80

DFTPP

Data File : M:\YODA\DATA\Y190717P\0717Y002.D
 Acq On : 17 Jul 19 9:34
 Sample : SV TUNE 07/11/19
 Misc :

Vial: 2
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Method : M:\YODA\DATA\Y190717P\DFTPP2.M (Chemstation Integrator)
 Title :



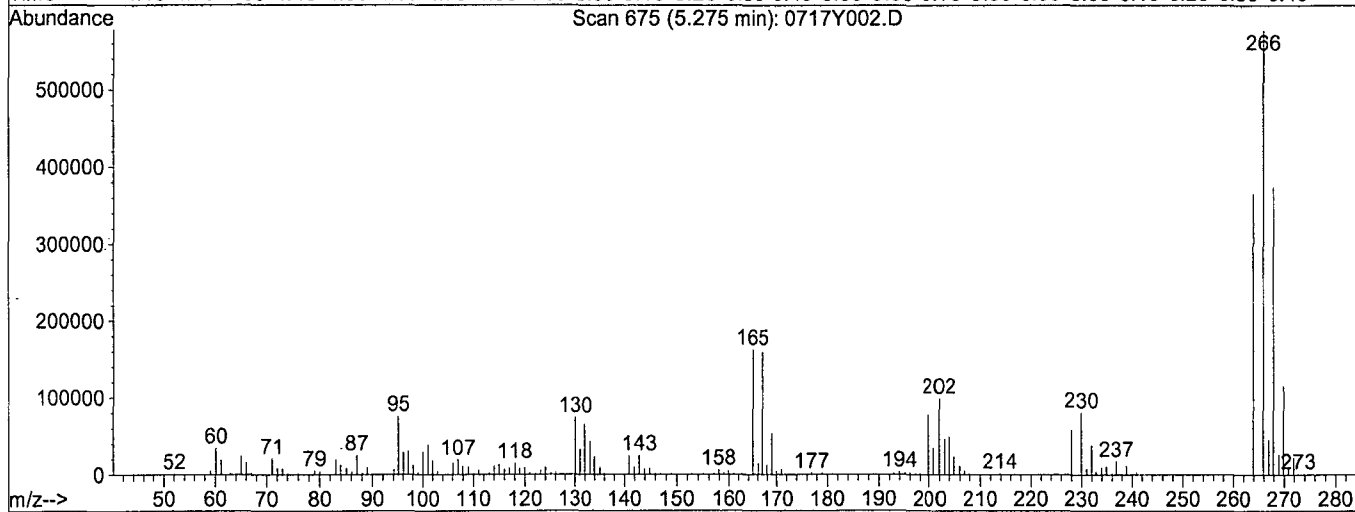
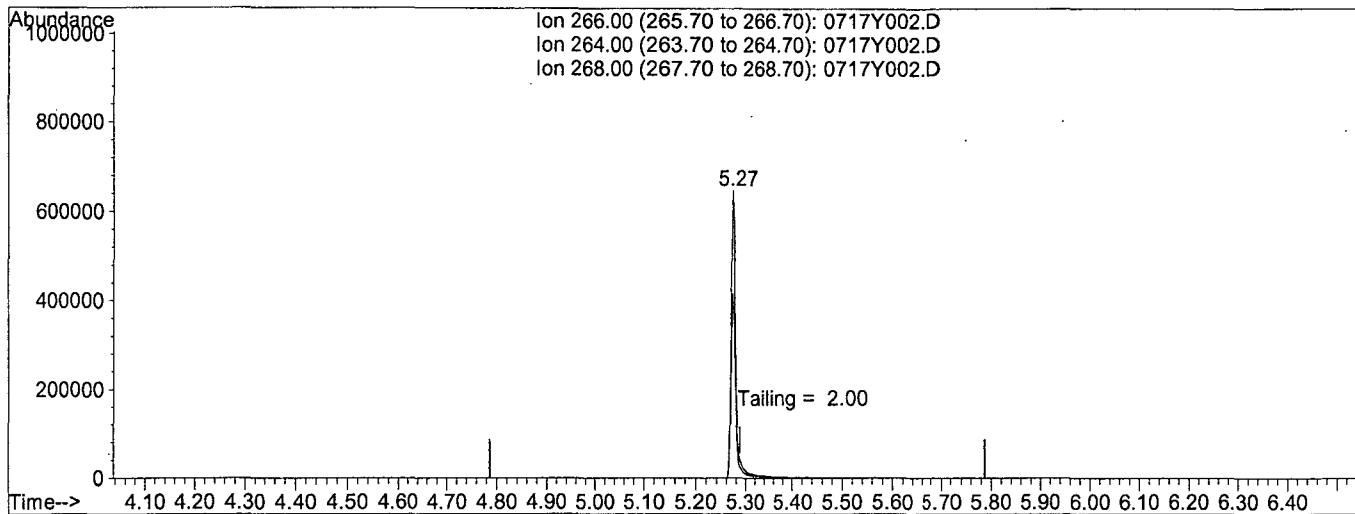
Spectrum Information: Average of 5.557 to 5.562 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	25.9	126393	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.5	670	PASS
127	198	10	80	42.1	205333	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	487445	PASS
199	198	5	9	6.7	32565	PASS
275	198	10	60	34.0	165504	PASS
365	198	1	100	4.6	22304	PASS
441	442	0.01	24	16.2	141016	PASS
442	198	50	500	178.7	870955	PASS
443	442	17	23	19.8	172459	PASS

Quantitation Report

Data File : M:\YODA\DATA\Y190717P\0717Y002.D Vial: 2
 Acq On : 17 Jul 19 9:34 Operator: MA, SS
 Sample : SV TUNE 07/11/19 Inst : Yoda
 Misc : Multiplr: 1.00
 Quant Time: Jul 17 9:31 2019 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190717P\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Thu Jul 04 10:59:55 2019
 Response via : Single Level Calibration



TIC: 0717Y002.D

(5) Pentachlorophenol

5.27min 0.0000

response 4357739

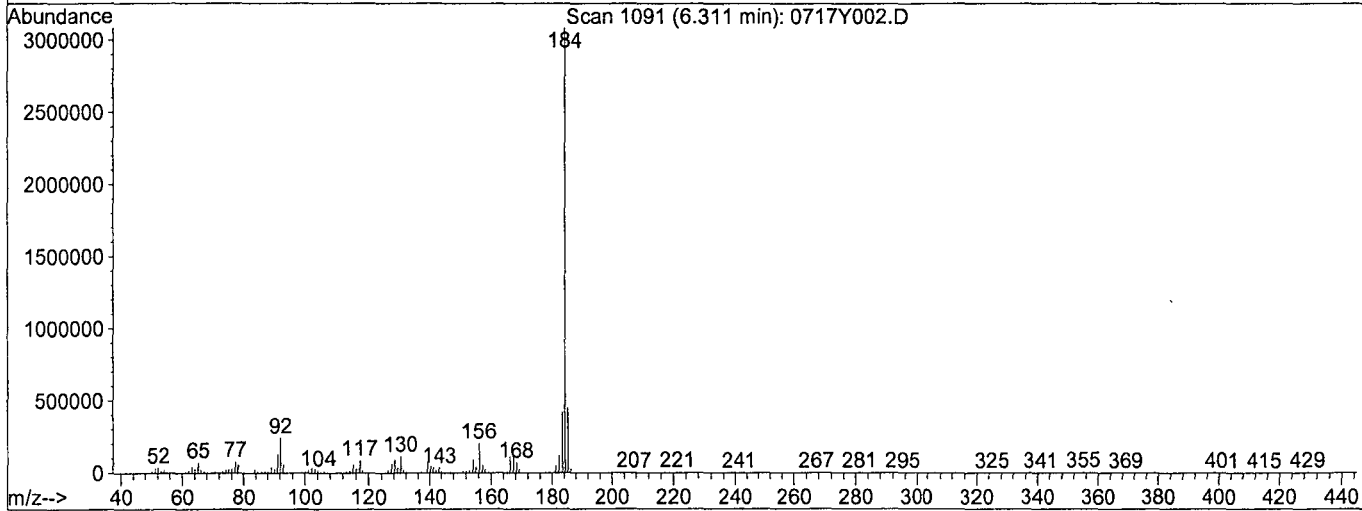
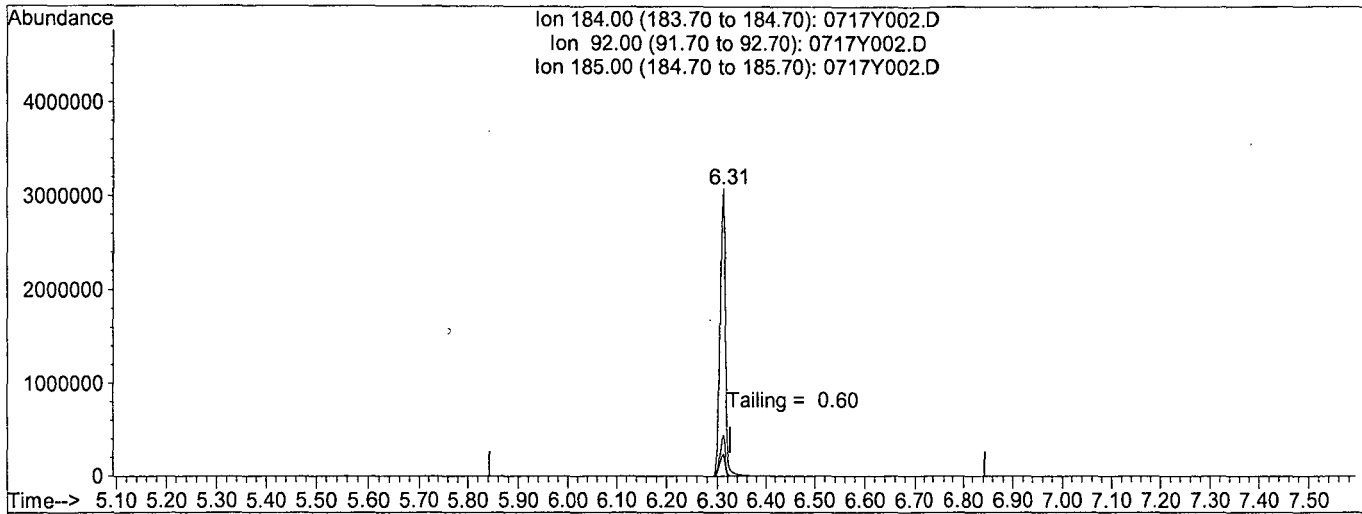
Ion	Exp%	Act%
266.00	100	100
264.00	58.70	62.68
268.00	59.20	62.80
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190717P\0717Y002.D
 Acq On : 17 Jul 19 9:34
 Sample : SV TUNE 07/11/19
 Misc :
 Quant Time: Jul 17 9:31 2019

Vial: 2
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190717P\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Thu Jul 04 10:59:55 2019
 Response via : Single Level Calibration



TIC: 0717Y002.D

(6) Benzidine

6.31min 0.0000

response 23796780

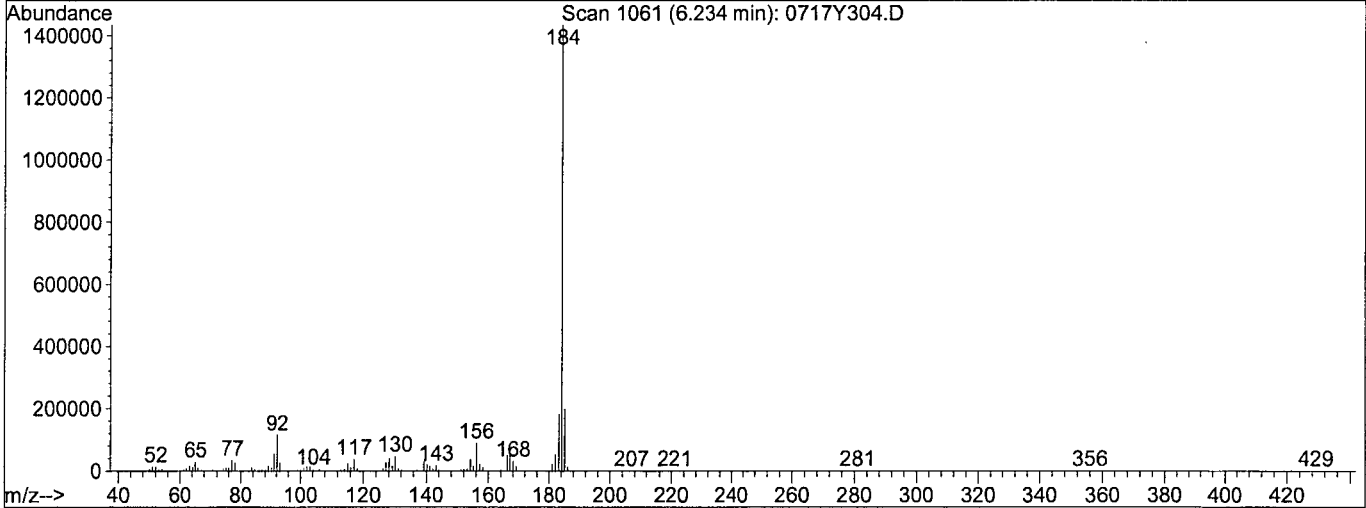
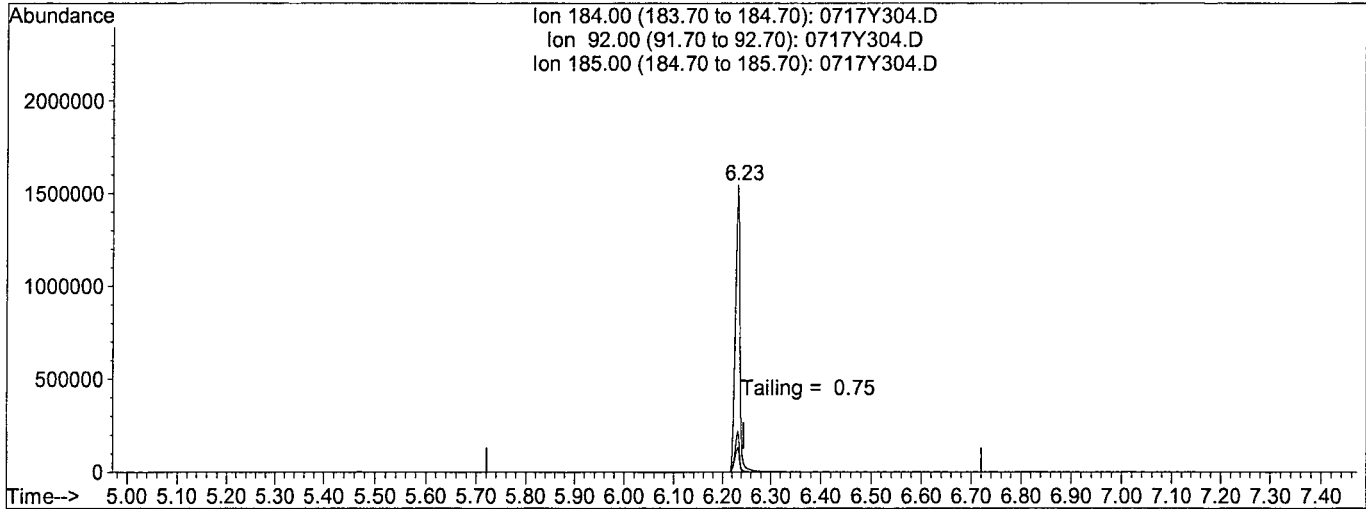
Ion	Exp%	Act%
184.00	100	100
92.00	6.60	8.03
185.00	14.60	14.63
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190717P\0717Y304.D
 Acq On : 31 Jul 19 14:35
 Sample : SV TUNE 07/11/19
 Misc :
 Quant Time: Jul 31 14:29 2019

Vial: 4
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190717P\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Sat Jul 27 13:57:25 2019
 Response via : Single Level Calibration



TIC: 0717Y304.D

(6) Benzidine

6.23min 0.0000

response 11224781

Ion	Exp%	Act%
184.00	100	100
92.00	7.80	8.58
185.00	14.00	14.08
0.00	0.00	0.00

Name of Final Standard SIM Curve
 Prep Date 07/10/19
 Exp Date 12/28/19

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
1.0 ug/mL SIM	Phenova	1.0 ug/mL SIM	1.0 ug/mL	07/10/19	12/28/19	10 uL	100uL	MC 56258 90uL	0.1 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	2 uL	*	*	2.5ug/mL
1.0 ug/mL SIM	Phenova	1.0 ug/mL SIM	1.0 ug/mL	07/10/19	12/28/19	20 uL	100uL	MC 56258 80uL	0.2 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	2 uL	*	*	2.5ug/mL
5.0 ug/mL SIM	Phenova	5.0 ug/mL SIM	5.0 ug/mL	07/10/19	12/28/19	10 uL	100uL	MC 56258 90uL	0.5 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	2 uL	*	*	2.5ug/mL
5.0 ug/mL SIM	APPL	5.0 ug/mL SIM	5.0 ug/mL	07/10/19	12/28/19	20 uL	100uL	MC 56258 80 uL	1.0 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	2 uL	*	*	2.5ug/mL
PAH SIM STOCK	Phenova	PAH SIM STOCK	200 ug/mL	12/28/18	12/28/19	5 uL	200uL	MC 56258 190 uL	5.0 ug/mL
Sim 2S Surrogate	Restek	SIM 2S SURR.	100 ug/mL	05/17/19	01/24/20	5 uL	*	*	2.5 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	4 uL	*	*	2.5ug/mL
PAH SIM STOCK	Phenova	PAH SIM STOCK	200 ug/mL	12/28/18	12/28/19	5 uL	100 uL	MC 56258 90 uL	10 ug/mL
Sim 2S Surrogate	APPL	SIM 2S SURR.	100 ug/mL	05/17/19	01/24/20	5 uL	*	*	5 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	2 uL	*	*	2.5ug/mL
PAH SIM STOCK	Phenova	PAH SIM STOCK	200 ug/mL	12/28/18	12/28/19	25 uL	100uL	MC 56258 50 uL	50 ug/mL
Sim 2S Surrogate	Restek	SIM 2S SURR.	100 ug/mL	05/17/19	01/24/20	25 uL	*	*	25 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	2 uL	*	*	2.5ug/mL
PAH SIM STOCK	Phenova	PAH SIM STOCK	200 ug/mL	12/28/18	12/28/19	50 uL	100uL	na	100 ug/mL
Sim 2S Surrogate	Restek	SIM 2S SURR.	100 ug/mL	05/17/19	01/24/20	50 uL	*	*	50 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	2 uL	*	*	2.5ug/mL

Name of Final Standard 8270 PAH SIM Second Source
 Prep Date 07/10/19
 Exp Date 12/28/19

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N#(or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
PAH SIM SS Stock	Phenova	AL0-130490	200 ug/mL	12/28/18	12/28/19	5 uL	200uL	MC 56258 195uL	5 ug/mL
SIM Internal Standard	Restek	SIM I.S.	125 ug/mL	07/10/19	07/10/20	4 uL	*	*	2.5ug/mL

Name of Final Standard PAH SIM Stock (Ampule)
 Prep Date 12/28/18
 Exp Date 12/28/19

Prep'd By (I GA)

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Custom PAH SIM Mix	Phenova	AL0-130490	200 ug/mL	CL13117-40078	12/28/19	1000 uL	1mL	NA	200ug/mL

Name of Final Standard PAH SIM 2nd Source Stock (Ampule)
 Prep Date 12/28/18
 Exp Date 12/28/19

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Custom PAH SIM Mix	Phenova	AL0-130490	200 ug/mL	CL13121 - 40082	12/28/19	1 mL	na	na	200 ug/mL

Name of Final Standard SIM 2S Surrogate
 Prep Date 05/17/19
 Exp Date 01/24/20

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
SIM Surrogate Mix	Restek	33913	2000 ug/mL	A0137718 - 39318	01/24/20	250 uL	5 mL	Acetone #030817A	100 ug/mL
8270 B/N surrog mix	Restek	31086	5000 ug/mL	A0141697 - 40112	04/10/20	100 uL			

Name of Final Standard 8270 SIM PAH Internal Standard
 Prep Date 07/10/19
 Exp Date 07/10/20

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc. (range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
SV Internal Standard	Restek	31206	2000 ug/mL	A0144261-40464	07/10/19	350 uL	5,600 uL	MC 56258 5,250 uL	125 ug/mL

Name of Final Standard Semivolatle (SV) Tuning Solution
Prep Date 07/11/19
Exp Date 09/30/19

Prep'd By (Initials)

JP

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Semivolatle GC/MS Tuning Standard	Ultra Scientific	GCM-150-1	1,000 ug/mL	CR3789-38879	09/30/19	1,250 uL	25 mL	MC #58240	50 ug/mL

Name of Final Standard SIM Spike
 Prep Date 06/24/19
 Exp Date 06/24/20

Prep'd By (Initials) JP

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Custom PAH Sim Mix	Phenova	AL0-130490	200 ug/mL	CL13117 - 40080	12/31/22	1 mL	5 mL	Methanol	40 ug/mL

Name of Final Standard **SIM Surrogate**
 Prep Date **07/01/19**
 Exp Date **01/24/20**

Prep'd By (Initials) **GA**

Initial Standard Information					Final Standard Information				
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc. (range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Sim Surrogate Deuterated	Restek	33913	2000 ug/mL	A0137718-39318 A0145699-40667	01/24/20 07/01/20	1250 uL	25 mL	Acetone #1017171	100 ug/mL

Organic Extraction Worksheet











Method	Continuous Liquid/Liquid SVOC 3520C	Extraction Set	190729A	Extraction Method	LIQ003	Units	mL
Spiked ID 1	8270T Spike 6/19/19-12/19/19	Surrogate ID 1	8270 Surrogate 6/24/19-4/10/20				
Spiked ID 2	Sim Spike 7/24/19-7/9/20	Surrogate ID 2	SIM Surrogate 7/19/19-7/1/20				
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:		no			
Spiked ID 7		Ext. Start Time:		07/29/19 13:50			
Spiked ID 8		Ext. End Time:		07/31/19 12:05			
		GC Requires Extract By:		08/01/19 0:00			
	pH1	2	07/29/19 13:55	Water Bath Temp 1 °C	75/74.9 EWB6 °		
	pH2	14	07/30/19 12:35	Water Bath Temp 2 °C			
	pH3			Water Bath Temp 3 °C			

Spiked By: DL

Date 07/29/19

Witnessed By: CFM

Date 07/29/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	190729A Blk			1,0.050	1,2	800	1	2/1	07/29/19 13:50	
					equip	E-HP51 E-WB6				
2	190729A LCS-1	1	1	1	1	800	1	2/1	07/29/19 13:50	
					equip	E-HP50 E-WB6				
3	190729A LCS-2	0.125	2	0.050	2	800	1	2/1	07/29/19 13:50	
					equip	E-HP49 E-WB6				
4	190729A LCSD-1	1	1	1	1	800	1	2/1	07/29/19 13:50	
					equip	E-HP48 E-WB6				
5	190729A LCSD-2	0.125	2	0.050	2	800	1	2/1	07/29/19 13:50	
					equip	E-HP47 E-WB6				
6	AZ95419 AZ95419W08			1,0.050	1,2	800	1	2/1	07/29/19 13:50	89607
					equip	E-HP25 E-WB6				
7	AZ95421 AZ95421W08			1,0.050	1,2	800	1	2/1	07/29/19 13:50	89607
					equip	E-HP26 E-WB6				
8	AZ95423 AZ95423W10			1,0.050	1,2	800	1	2/1	07/29/19 13:50	89607
					equip	E-HP27 E-WB6				
9	AZ95511 AZ95511W15			1,0.050	1,2	800	1	2/1	07/29/19 13:50	89624
					equip	E-HP28 E-WB6				
10	AZ95513 AZ95513W13			1,0.050	1,2	800	1	2/1	07/29/19 13:50	89624
					equip	E-HP29 E-WB6				

Solvent and Lot#	
PH Strips	HC863463
Dichloromethane (DCM)	58240
1+1 H2SO4	7/2/19
10N NaOH	7/16/19
Filter Paper	400163
Acidified Na2SO4	2/28/19
B. Na2SO4	2019010772

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	
Date	
Time	
Refrigerator	

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	08/04/19 9:45:38 AM

Reviewed By:

Date

Injection Log

Directory: M:\YODA\DATA\Y190717P

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	2	0717Y002.D	1	SV TUNE 07/11/19		07/17/2019 09:34
2	3	0717Y003.D	1	0.1 SIM 07/10/19		07/17/2019 09:51
3	4	0717Y004.D	1	0.2 SIM 07/10/19		07/17/2019 10:14
4	5	0717Y005.D	1	0.5 SIM 07/10/19		07/17/2019 10:38
5	6	0717Y006.D	1	1.0 SIM 07/10/19		07/17/2019 11:01
6	7	0717Y007.D	1	5.0 SIM 07/10/19		07/17/2019 11:25
7	8	0717Y008.D	1	10 SIM 07/10/19		07/17/2019 11:48
8	9	0717Y009.D	1	50 SIM 07/10/19		07/17/2019 12:11
9	10	0717Y010.D	1	100 SIM 07/10/19		07/17/2019 12:35
10	12	0717Y012.D	1	SS SIM 07/10/19		07/17/2019 13:32
11	4	0717Y304.D	1	SV TUNE 07/11/19		07/31/2019 14:35
12	5	0717Y305.D	1	5.0 SIM 07/10/19 (2)		07/31/2019 14:49
13	9	0717Y309.D	1.25	190729A BLK 1/800		07/31/2019 16:52
14	10	0717Y310.D	1.25	190729A LCS-2 1/800		07/31/2019 17:15
15	11	0717Y311.D	1.25	190729A LCSD-2 1/800		07/31/2019 17:39
16	15	0717Y315.D	1.25	AZ95511W15 1/800		07/31/2019 19:12
17	16	0717Y316.D	1.25	AZ95513W13 1/800		07/31/2019 19:35
18	35	0717Y335.D	1	5.0 SIM 07/10/19 (1)		08/01/2019 02:57

**ORGANICS
Calibration Data**

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/22/19
Instrument: Yoda

Initials: 

		0722Y003.D	0722Y004.D	0722Y005.D	0722Y006.D	0722Y007.D	0722Y008.D	0722Y009.D	0722Y010.D	0722Y011.D		Avg	%RSD	Type	r ²	Q	MRF
Compound		4	5	10	20	40	50	60	80	100							
1	I	1,4-dichlorobenzene-D4(ISTD)	ISTD									0.10	13				
2		1,4-Dioxane		0.1117	0.0733	0.1044	0.1141	0.1057	0.1012	0.1075		0.18	4.4	TM			
3	TM	n-Nitrosodimethylamine	0.1792	0.1777	0.1909	0.1763	0.1691	0.1844	0.1919	0.1881		0.45	3.5	TM			
4	TM	Pyridine	0.4437	0.4356	0.4386	0.4508	0.4462	0.4332	0.4774	0.4673		1.3	9.2	S			
5	S	2-Fluorophenol (S)	1.545	1.449	1.381	1.287	1.285	1.228	1.222	1.211		1.4	13	S			
6	S	Phenol-D6 (S)		1.688	1.581	1.377	1.374	1.289	1.254	1.192		1.8	9.3	*TM			0.800
7	*TM	Phenol	2.029	2.025	1.986	1.801	1.860	1.745	1.641	1.587		1.8	6.9	TM			
8	TM	Aniline	1.857	1.948	1.960	1.766	1.792	1.708	1.687	1.617		0.78	6.5	TM			0.700
9	TM	Bis (2-chloroethyl) ether	0.8531	0.8548	0.8180	0.7543	0.7703	0.7486	0.7443	0.7269		1.5	5.6	TM			0.800
10	TM	2-Chlorophenol	1.591	1.583	1.530	1.423	1.481	1.403	1.399	1.396		1.7	7.2	TM			
11	TM	1,3-DCB	1.861	1.796	1.731	1.610	1.641	1.572	1.573	1.529		1.7	7.0	*TM			
12	*TM	1,4-DCB	1.843	1.810	1.741	1.603	1.658	1.589	1.577	1.529		0.82	3.7	TM			
13	TM	Benzyl alcohol	0.7967	0.8471	0.8688	0.7975	0.8325	0.7952	0.7953	0.7892		1.5	7.7	TM			
14	TM	1,2-DCB	1.720	1.667	1.633	1.494	1.526	1.452	1.439	1.398		1.2	6.3	TM			0.700
15	TM	2-Methylphenol	1.256	1.256	1.256	1.115	1.160	1.111	1.116	1.092		1.2	12	TM			0.010
16	TM	Bis (2-chloroisopropyl) ether	1.450	1.400	1.340	1.167	1.194	1.120	1.099	1.063		1.7	7.7	TM			0.010
17	TM	Acetophenone	1.923	1.892	1.853	1.634	1.713	1.625	1.628	1.606		1.4	9.4	TM			0.600
18	TM	3&4-Methylphenol	1.552	1.554	1.496	1.338	1.374	1.300	1.272	1.217		0.83	12	**TM			0.500
19	**TM	n-Nitrosodi-n-propylamine	0.9462	0.9388	0.9069	0.8052	0.8411	0.7903	0.7893	0.6296		0.56	7.5	TM			0.300
20	TM	Hexachloroethane	0.6170	0.6129	0.5902	0.5378	0.5506	0.5254	0.5277	0.5095							
21	I	Napthalene-D8(ISTD)	ISTD									0.31	13	S			
22	S	Nitrobenzene-D5(S)	0.3911	0.3510	0.3260	0.2965	0.2904	0.2783	0.2766	0.2781		0.33	5.4	TM			0.200
23	TM	Nitrobenzene	0.3523	0.3451	0.3442	0.3164	0.3204	0.3115	0.3095	0.3115		0.58	4.1	TM			0.400
24	TM	Isophorone	0.6032	0.6029	0.6050	0.5526	0.5679	0.5505	0.5585	0.5695		0.21	9.6	*TM			0.100
25	*TM	2-Nitrophenol	0.1594	0.2171	0.2205	0.2133	0.2149	0.2123	0.2131	0.2166		0.32	4.8	TM			0.200
26	TM	2,4-Dimethylphenol	0.3459	0.3390	0.3385	0.3122	0.3200	0.3079	0.3104	0.3097		0.21	10	TM			
27	TM	Benzoic acid		0.1686	0.2090	0.2224	0.2319	0.1934	0.1988	0.2172		0.38	7.5	TM			0.300
28	TM	Bis (2-chloroethoxy) methane	0.4264	0.4100	0.3970	0.3600	0.3689	0.3557	0.3558	0.3543		0.31	4.0	*TM			0.200
29	*TM	2,4-Dichlorophenol	0.3208	0.3238	0.3220	0.2985	0.3080	0.2969	0.2965	0.2974		0.34	6.9	TM			
30	TM	1,2,4-Trichlorobenzene	0.3799	0.3701	0.3533	0.3275	0.3326	0.3229	0.3239	0.3180		0.41	7.0	TM			
31	TM	3,4-Dimethylphenol	0.4603	0.4450	0.4367	0.3969	0.4048	0.3934	0.3914	0.3826		1.0	9.1	TM			0.700
32	TM	Napthalene	1.190	1.156	1.087	1.013	0.9975	0.9716	0.9598	0.9343		0.39	14	TM			0.010
33	TM	4-Chloroaniline	0.4453	0.4502	0.4333	0.3881	0.3827	0.3627	0.3369	0.3020		0.29	11	TM			
34	TM	2,6-Dichlorophenol	0.3433	0.3277	0.3115	0.2826	0.2818	0.2683	0.2617	0.2529		0.19	3.6	TM			
35	TM	Hexachloropropene	0.1899	0.2022	0.2012	0.1924	0.1928	0.1872	0.1864	0.1828							

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/22/19
Instrument: Yoda

Initials: _____

		Compound	4	5	10	20	40	50	60	80	100		Avg	%RSD	Type		Q
36	*TM	Hexachlorobutadiene		0.2044	0.2009	0.1926	0.1808	0.1836	0.1789	0.1792	0.1777		0.19	5.7	*TM		0.010
37	TM	Caprolactum		0.1132	0.1221	0.1281	0.1184	0.1189	0.1166	0.1199	0.1215		0.12	3.7	TM		0.010
38	*TM	4-Chloro-3-methylphenol		0.3039	0.3098	0.3100	0.2924	0.2970	0.2876	0.2936	0.2962		0.30	2.8	*TM		0.200
39	TM	2-Methylnaphthalene		0.7811	0.7561	0.7283	0.6800	0.6831	0.6618	0.6472	0.6396		0.70	7.5	TM		0.400
40	TM	1-Methylnaphthalene		0.8477	0.7838	0.7554	0.6877	0.7001	0.6704	0.6622	0.6513		0.72	9.6	TM		
41	I	Acenaphthene-D10(IS)	ISTD														
42	**TMQ	Hexachlorocyclopentadiene				0.0415	0.0835	0.1056	0.1236	0.1545	0.1866		0.12	44	**TMQ	1.000	0.050
43	TM	1,2,4,5-Tetrachlorobenzene		0.6963	0.6776	0.6474	0.6007	0.6034	0.5827	0.5883	0.5789		0.62	7.3	TM		0.010
44	*TM	2,4,6-Trichlorophenol		0.3871	0.4006	0.4066	0.3772	0.3826	0.3746	0.3848	0.3829		0.39	2.9	*TM		0.200
45	TM	2,4,5-Trichlorophenol		0.4292	0.4290	0.4256	0.3920	0.4071	0.3971	0.4040	0.4020		0.41	3.6	TM		0.200
46	S	2-Fluorobiphenyl(S)			1.780	1.584	1.391	1.369	1.281	1.243	1.183		1.4	15	S		
47	TM	1,1'-Biphenyl		1.963	1.876	1.791	1.628	1.638	1.555	1.531	1.464		1.7	11	TM		0.010
48	TM	2-Chloronaphthalene		1.482	1.423	1.377	1.263	1.251	1.196	1.199	1.164		1.3	9.1	TM		0.800
49	TM	2-Nitroaniline		0.2993	0.3233	0.3335	0.3088	0.3086	0.3001	0.3038	0.2996		0.31	4.0	TM		0.010
50	TM	Dimethyl phthalate		1.667	1.602	1.601	1.459	1.470	1.414	1.437	1.412		1.5	6.6	TM		0.010
51	TM	2,6-DNT		0.3446	0.3646	0.3779	0.3571	0.3623	0.3569	0.3598	0.3591		0.36	2.6	TM		0.200
52	TM	Acenaphthylene		2.250	2.211	2.159	1.961	1.972	1.912	1.887	1.817		2.0	8.1	TM		0.900
53	TM	3-Nitroaniline		0.3625	0.3940	0.3981	0.3762	0.3834	0.3627	0.3633	0.3544		0.37	4.3	TM		0.010
54	*TM	Acenaphthene		1.507	1.450	1.373	1.222	1.226	1.170	1.167	1.122		1.3	11	*TM		0.900
55	**TML	2,4-Dinitrophenol				0.1216	0.1551	0.1762	0.1733	0.1980	0.2185		0.17	19	**TML	0.990	0.010
56	**TM	4-Nitrophenol		0.1459	0.1535	0.1696	0.1589	0.1635	0.1580	0.1605	0.1665		0.16	4.7	**TM		0.010
57	TM	Dibenzofuran		2.128	2.069	1.993	1.799	1.805	1.739	1.729	1.655		1.9	9.4	TM		0.800
58	TM	2,4-DNT		0.4401	0.4913	0.5120	0.4779	0.4894	0.4712	0.4795	0.4838		0.48	4.2	TM		0.200
59	TM	2,3,4,6-Tetrachlorophenol		0.2975	0.3126	0.3236	0.3138	0.3236	0.3175	0.3295	0.3340		0.32	3.6	TM		0.010
60	TM	Diethyl phthalate		1.582	1.527	1.514	1.367	1.394	1.326	1.325	1.321		1.4	7.4	TM		0.010
61	TM	4-Chlorophenyl phenyl ether		0.8866	0.8482	0.8236	0.7254	0.7198	0.6821	0.6697	0.6418		0.75	12	TM		0.400
62	TM	Fluorene		1.738	1.642	1.593	1.408	1.392	1.306	1.283	1.218		1.4	13	TM		0.900
63	TM	4-Nitroaniline		0.3674	0.3624	0.3782	0.3510	0.3562	0.3494	0.3548	0.3570		0.36	2.7	TM		0.010
64	S	2,4,6-Tribromophenol(S)		0.2451	0.2352	0.2225	0.2063	0.2082	0.2001	0.2018	0.2055		0.22	7.8	S		
65	I	Phenanthrene-D10(IS)	ISTD														
66	TM	4,6-Dinitro-2-methylphenol			0.1252	0.1430	0.1461	0.1526	0.1502	0.1560	0.1552		0.15	7.2	TM		0.010
67	TM	Diphenyl amine		0.6963	0.6489	0.6290	0.5602	0.5521	0.5299	0.5066	0.4761		0.57	13	TM		
68	*TM	n-Nitrosodiphenylamine		0.6963	0.6489	0.6290	0.5602	0.5521	0.5299	0.5066	0.4761		0.57	13	*TM		0.010
69	TM	1,2-Diphenylhydrazine		0.7045	0.6798	0.6478	0.5894	0.6813	0.6666	0.6315	0.5978		0.65	6.3	TM		
70	TM	4-Bromophenyl phenyl ether		0.2471	0.2401	0.2417	0.2209	0.2273	0.2243	0.2190	0.2176		0.23	5.0	TM		0.100

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/22/19
Instrument: Yoda

Initials: _____

		Compound	4	5	10	20	40	50	60	80	100		Avg	%RSD	Type		Q
71	TM	Hexachlorobenzene		0.2601	0.2501	0.2477	0.2314	0.2350	0.2290	0.2305	0.2256		0.24	5.2	TM		0.100
72	TM	Atrazine		0.2183	0.2222	0.2204	0.2084	0.2133	0.2099	0.2105	0.2065		0.21	2.8	TM		0.010
73	*TM	Pentachlorophenol			0.0643	0.0711	0.0739	0.0791	0.0787	0.0836	0.0900		0.08	11	*TM		0.050
74	TM	Phenanthrene		1.292	1.238	1.181	1.069	1.075	1.019	0.9956	0.9499		1.1	11	TM		0.700
75	TM	Anthracene		1.279	1.263	1.215	1.119	1.118	1.063	1.029	0.9736		1.1	9.8	TM		0.700
76	TM	Carbazol		1.183	1.154	1.141	1.022	1.039	0.9935	0.9669	0.9191		1.1	9.2	TM		0.010
77	TM	Di-n-butylphthalate		1.213	1.269	1.310	1.188	1.170	1.144	1.112	1.038		1.2	7.3	TM		0.010
78	*TM	Fluoranthene		1.342	1.332	1.316	1.185	1.187	1.152	1.104	1.041		1.2	9.3	*TM		0.600
79	I	Chrysene-D12(IS)	ISTD														
80	TM	Benzidine				0.3272	0.3380	0.3635	0.3680	0.3721	0.3823		0.36	5.9	TM		
81	TM	Pyrene		1.517	1.492	1.463	1.393	1.427	1.354	1.356	1.307		1.4	5.2	TM		0.600
82	S	Terphenyl-D14(S)		1.244	1.126	1.030	0.9560	0.9641	0.9093	0.9101	0.8867		1.0	12	S		
83	TM	Butyl benzylphthalate		0.5300	0.5827	0.6059	0.6021	0.6253	0.5920	0.5952	0.5859		0.59	4.7	TM		0.010
84	TM	3,3'-Dichlorobenzidine		0.3756	0.4091	0.4270	0.4114	0.4230	0.4059	0.4089	0.4054		0.41	3.8	TM		0.010
85	TM	Benz (a) anthracene		1.462	1.427	1.359	1.268	1.289	1.234	1.216	1.166		1.3	8.0	TM		0.800
86	TM	Bis (2-ethylhexyl) phthalate		0.7564	0.7956	0.7867	0.7432	0.7559	0.7037	0.6708	0.6236		0.73	8.1	TM		0.010
87	TM	Chrysene		1.407	1.349	1.348	1.259	1.289	1.200	1.226	1.202		1.3	6.0	TM		0.700
88	*TM	Di-n-octylphthalate		1.103	1.303	1.389	1.406	1.443	1.395	1.377	1.347		1.3	7.9	*TM		0.010
89	I	Perylene-D12(IS)	ISTD														
90	TM	Benzo (b) fluoranthene		1.138	1.316	1.267	1.154	1.199	1.149	1.248	1.218		1.2	5.2	TM		0.700
91	TM	Benzo (k) fluoranthene		1.384	1.247	1.275	1.252	1.243	1.150	1.055	0.9963		1.2	11	TM		0.700
92	*TM	Benzo (a) pyrene	1.051	1.193	1.207	1.185	1.138	1.155	1.100	1.107	1.076		1.1	4.8	*TM		0.700
93	TM	Indeno (1,2,3-cd) pyrene		1.274	1.337	1.343	1.305	1.339	1.273	1.285	1.250		1.3	2.7	TM		0.500
94	TM	Dibenz (a,h) anthracene	0.9710	1.128	1.172	1.178	1.141	1.171	1.114	1.112	1.082		1.1	5.7	TM		0.400
95	TM	Benzo (g,h,i) perylene		0.9912	1.036	1.049	1.026	1.059	1.005	1.025	1.018		1.0	2.2	TM		0.500
96																	
97																	
98																	
99																	
100																	
101																	
102																	
103																	
104																	
105																	

Data File : M:\YODA\DATA\Y190722\0722Y003.D
 Acq On : 22 Jul 19 14:01
 Sample : 4ug/ml 8270 07/12/19
 Misc :

Vial: 3
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 14:24 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 16 08:54:23 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	440945	40.00000	ppb	-0.12
21) Napthalene-D8 (IS)	6.47	136	1828972	40.00000	ppb	-0.12
41) Acenaphthene-D10 (IS)	8.51	164	955144	40.00000	ppb	-0.12
65) Phenanthrene-D10 (IS)	10.26	188	1851498	40.00000	ppb	-0.13
79) Chrysene-D12 (IS)	13.38	240	1736228	40.00000	ppb	-0.13
89) Perylene-D12 (IS)	15.12	264	1784940	40.00000	ppb	-0.18
System Monitoring Compounds						
5) 2-Fluorophenol (S)	0.00	112	0d	0.00000	ppb	
Spiked Amount 200.000			Recovery =	0.000%		
6) Phenol-D6 (S)	0.00	99	0d	0.00000	ppb	
Spiked Amount 200.000			Recovery =	0.000%		
22) Nitrobenzene-D5 (S)	0.00	82	0d	0.00000	ppb	
Spiked Amount 100.000			Recovery =	0.000%		
46) 2-Fluorobiphenyl (S)	0.00	172	0d	0.00000	ppb	
Spiked Amount 100.000			Recovery =	0.000%		
64) 2,4,6-Tribromophenol (S)	0.00	330	0d	0.00000	ppb	
Spiked Amount 200.000			Recovery =	0.000%		
82) Terphenyl-D14 (S)	0.00	244	0d	0.00000	ppb	
Spiked Amount 100.000			Recovery =	0.000%		
Target Compounds						
92) Benzo (a) pyrene	15.07	252	187613	3.83990	ppb	99
94) Dibenz (a,h) anthracene	16.91	278	173311	3.60349	ppb	98

Quantitation Report

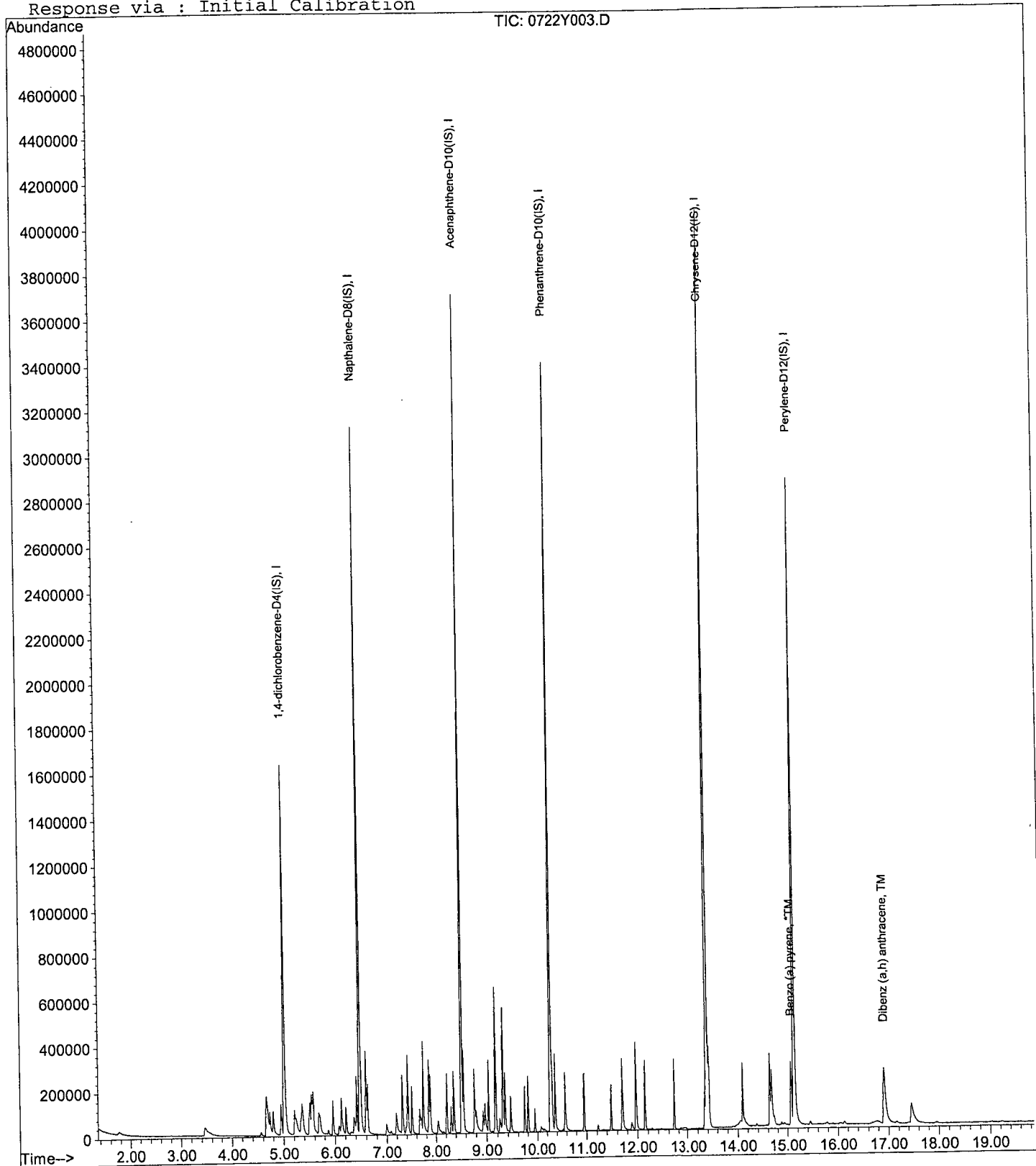
Data File : M:\YODA\DATA\Y190722\0722Y003.D
Acq On : 22 Jul 19 14:01
Sample : 4ug/ml 8270 07/12/19
Misc :

Vial: 3
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 22 14:24 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y004.D
 Acq On : 22 Jul 19 14:29
 Sample : 5ug/ml 8270 07/12/19
 Misc :

Vial: 4
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 15:40 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 15:40:36 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	439617	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.47	136	1780662	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.51	164	941418	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1820185	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.38	240	1721437	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.13	264	1799909	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.42	112	169794	11.84169	ppb	0.00
Spiked Amount 200.000			Recovery =	5.921%		
6) Phenol-D6 (S)	4.64	99	200650	11.10931	ppb	0.00
Spiked Amount 200.000			Recovery =	5.555%		
22) Nitrobenzene-D5 (S)	5.68	82	87053	5.49120	ppb	0.00
Spiked Amount 100.000			Recovery =	5.491%		
46) 2-Fluorobiphenyl (S)	7.73	172	238253	7.14110	ppb	0.00
Spiked Amount 100.000			Recovery =	7.141%		
64) 2,4,6-Tribromophenol (S)	9.46	330	57680	12.14484	ppb	0.01
Spiked Amount 200.000			Recovery =	6.073%		
82) Terphenyl-D14 (S)	12.14	244	267606	6.78454	ppb	0.00
Spiked Amount 100.000			Recovery =	6.785%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.48	58	310	0.16684		# 1
3) n-Nitrosodimethylamine	1.72	42	9847	3.42861	ppb	87
4) Pyridine	1.74	79	24380	3.41809	ppb	96
7) Phenol	4.66	94	111511	5.21256	ppb	79
8) Aniline	4.66	93	102039	4.87983	ppb	91
9) Bis (2-chloroethyl) ether	4.72	63	46879	5.12894	ppb	90
10) 2-Chlorophenol	4.79	128	87456	5.67964	ppb	93
11) 1,3-DCB	4.95	146	102246	5.82611	ppb	96
12) 1,4-DCB	5.03	146	101294	5.61331	ppb	97
13) Benzyl alcohol	5.22	108	43783	4.84804	ppb	99
14) 1,2-DCB	5.21	146	94512	5.60069	ppb	99
15) 2-Methylphenol	5.35	107	69015	5.29979	ppb	95
16) Bis (2-chloroisopropyl) et	5.34	45	79683	5.82786	ppb	# 64
17) Acetophenone	5.50	105	105669	5.22907	ppb	100
18) 3&4-Methylphenol	5.53	107	170611	10.56461	ppb	100
19) n-Nitrosodi-n-propylamine	5.49	70	51994	4.66721	ppb	97
20) Hexachloroethane	5.57	117	33903	5.24195	ppb	95
23) Nitrobenzene	5.70	77	78416	5.00549	ppb	98
24) Isophorone	5.96	82	134253	5.00246	ppb	98
25) 2-Nitrophenol	6.07	139	35469	4.19062	ppb	98
26) 2,4-Dimethylphenol	6.12	122	76999	5.65093	ppb	97
27) Benzoic acid	6.30	105	26733	3.03214	ppb	95
28) Bis (2-chloroethoxy) metha	6.21	93	94906	5.55245	ppb	100
29) 2,4-Dichlorophenol	6.37	162	71396	5.53564	ppb	98
30) 1,2,4-Trichlorobenzene	6.41	180	84562	5.92490	ppb	96
31) 3,4-Dimethylphenol	6.47	107	102460	5.45069	ppb	97
32) Naphthalene	6.50	128	264804	5.86348	ppb	100
33) 4-Chloroaniline	6.59	127	99119	5.66495	ppb	97
34) 2,6-Dichlorophenol	6.59	162	76420	5.68116	ppb	99
35) Hexachloropropene	6.59	213	42263	4.65469	ppb	97
36) Hexachlorobutadiene	6.63	225	45485	5.49442	ppb	97
37) Caprolactum	6.99	55	25199	4.80618	ppb	94

Data File : M:\YODA\DATA\Y190722\0722Y004.D
 Acq On : 22 Jul 19 14:29
 Sample : 5ug/ml 8270 07/12/19
 Misc :

Vial: 4
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 15:40 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 15:40:36 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.18	107	67633	5.35837	ppb	94
39) 2-Methylnaphthalene	7.30	142	173851	5.87295	ppb	99
40) 1-Methylnaphthalene	7.42	142	188687	6.09252	ppb	100
42) Hexachlorocyclopentadiene	7.47	237	179	-40.00000	ppb #	91
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	81939	6.09018	ppb	99
44) 2,4,6-Trichlorophenol	7.66	196	45549	5.25409	ppb	97
45) 2,4,5-Trichlorophenol	7.73	196	50509	5.72438	ppb	91
47) 1,1'-Biphenyl	7.85	154	231037	6.45109	ppb	96
48) 2-Chloronaphthalene	7.88	162	174431	6.21041	ppb	96
49) 2-Nitroaniline	8.03	65	35223	4.92091	ppb	84
50) Dimethyl phthalate	8.21	163	196175	6.14970	ppb	98
51) 2,6-DNT	8.31	165	40552	5.63342	ppb	91
52) Acenaphthylene	8.35	152	264745	6.04675	ppb	99
53) 3-Nitroaniline	8.52	138	42661	5.39381	ppb #	80
54) Acenaphthene	8.56	154	177362	6.41463	ppb	98
55) 2,4-Dinitrophenol	8.73	184	2169	1.78318	ppb	94
56) 4-Nitrophenol	8.82	65	17168	4.26606	ppb	93
57) Dibenzofuran	8.76	168	250418	6.25571	ppb	95
58) 2,4-DNT	8.80	165	51795	5.27126	ppb	95
59) 2,3,4,6-Tetrachlorophenol	8.93	232	35006	5.20295	ppb	95
60) Diethyl phthalate	9.03	149	186121	5.95827	ppb	100
61) 4-Chlorophenyl phenyl ethe	9.16	204	104332	6.32042	ppb	97
62) Fluorene	9.16	166	204503	6.09528	ppb	98
63) 4-Nitroaniline	9.24	138	43238	5.89579	ppb	92
66) 4,6-Dinitro-2-methylphenol	9.28	198	21188	9.08540	ppb #	86
67) Diphenyl amine	9.31	169	316857	11.10923	ppb	99
68) n-Nitrosodiphenylamine	9.31	169	316857	11.10923	ppb	99
69) 1,2-Diphenylhydrazine	9.35	77	160282	4.59370	ppb	98
70) 4-Bromophenyl phenyl ether	9.74	248	56214	5.22755	ppb	95
71) Hexachlorobenzene	9.80	284	59188	5.29075	ppb	97
72) Atrazine	9.94	200	24834	2.62700	ppb	95
73) Pentachlorophenol	10.07	266	11979	3.21451	ppb	99
74) Phenanthrene	10.29	178	293847	5.67124	ppb	99
75) Anthracene	10.36	178	290906	5.41986	ppb	100
76) Carbazol	10.56	167	269170	5.50616	ppb	97
77) Di-n-butylphthalate	10.95	149	275967	4.85930	ppb	99
78) Fluoranthene	11.70	202	305247	5.51943	ppb	97
80) Benzidine	11.88	184	52041	4.77705	ppb	97
81) Pyrene	11.96	202	326488	6.41288	ppb	100
83) Butyl benzylphthalate	12.71	149	114042	5.13532	ppb	89
84) 3,3'-Dichlorobenzidine	13.35	252	80832	5.43176	ppb	97
85) Benz (a) anthracene	13.37	228	314487	5.62193	ppb	100
86) Bis (2-ethylhexyl) phthala	13.38	149	162758	5.02768	ppb	95
87) Chrysene	13.41	228	302719	6.14953	ppb	100
88) Di-n-octylphthalate	14.10	149	237395	4.66053	ppb	96
90) Benzo (b) fluoranthene	14.63	252	256076	4.75488	ppb	98
91) Benzo (k) fluoranthene	14.67	252	311351	5.89326	ppb	100
92) Benzo (a) pyrene	15.07	252	268510	5.44993	ppb	97
93) Indeno (1,2,3-cd) pyrene	16.90	276	286549	5.08249	ppb	97
94) Dibenz (a,h) anthracene	16.91	278	253893	5.23506	ppb	99
95) Benzo (g,h,i) perylene	17.45	276	222998	5.16993	ppb	95

Data File : M:\YODA\DATA\Y190722\0722Y005.D
 Acq On : 22 Jul 19 14:57
 Sample : 10ug/ml 8270 07/12/19
 Misc :

Vial: 5
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:32:36 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	494862	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.47	136	1977082	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.51	164	1040818	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.26	188	2035484	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.38	240	1894706	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.13	264	1984381	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.40	112	358492	22.22414	ppb	0.02
Spiked Amount						
						Recovery = 11.112%
6) Phenol-D6 (S)	4.63	99	417767	20.78065	ppb	0.00
Spiked Amount						Recovery = 10.391%
22) Nitrobenzene-D5 (S)	5.67	82	173507	9.92501	ppb	0.00
Spiked Amount						Recovery = 9.925%
46) 2-Fluorobiphenyl (S)	7.73	172	463218	12.57100	ppb	0.00
Spiked Amount						Recovery = 12.571%
64) 2,4,6-Tribromophenol (S)	9.45	330	122393	22.82155	ppb	0.00
Spiked Amount						Recovery = 11.411%
82) Terphenyl-D14 (S)	12.14	244	533349	12.10006	ppb	0.00
Spiked Amount						Recovery = 12.100%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.48	58	1382	0.67324		81
3) n-Nitrosodimethylamine	1.71	42	21988	6.96639	ppb	98
4) Pyridine	1.72	79	53893	6.85757	ppb	100
7) Phenol	4.65	94	250482	10.51846	ppb	90
8) Aniline	4.64	93	240981	10.38838	ppb	# 87
9) Bis (2-chloroethyl) ether	4.71	63	105754	10.48865	ppb	97
10) 2-Chlorophenol	4.78	128	195815	11.29814	ppb	98
11) 1,3-DCB	4.94	146	222252	11.22338	ppb	99
12) 1,4-DCB	5.03	146	223877	11.01791	ppb	100
13) Benzyl alcohol	5.21	108	104802	10.39089	ppb	97
14) 1,2-DCB	5.21	146	206238	10.87348	ppb	98
15) 2-Methylphenol	5.34	107	155412	10.70991	ppb	97
16) Bis (2-chloroisopropyl) et	5.34	45	173163	11.63742	ppb	# 88
17) Acetophenone	5.49	105	234120	10.44007	ppb	95
18) 3&4-Methylphenol	5.52	107	384586	21.45807	ppb	99
19) n-Nitrosodi-n-propylamine	5.48	70	116145	9.47300	ppb	96
20) Hexachloroethane	5.57	117	75826	10.51398	ppb	81
23) Nitrobenzene	5.69	77	170582	9.89462	ppb	97
24) Isophorone	5.96	82	298008	10.07146	ppb	95
25) 2-Nitrophenol	6.06	139	107318	11.30918	ppb	99
26) 2,4-Dimethylphenol	6.12	122	167563	11.05925	ppb	99
27) Benzoic acid	6.26	105	83337	8.46946	ppb	96
28) Bis (2-chloroethoxy) metha	6.21	93	202658	10.72609	ppb	99
29) 2,4-Dichlorophenol	6.35	162	160030	11.06528	ppb	100
30) 1,2,4-Trichlorobenzene	6.41	180	182933	11.43968	ppb	99
31) 3,4-Dimethylphenol	6.46	107	219944	10.59004	ppb	98
32) Napthalene	6.50	128	571280	11.40869	ppb	100
33) 4-Chloroaniline	6.59	127	222510	11.53806	ppb	97
34) 2,6-Dichlorophenol	6.59	162	161963	10.89378	ppb	99
35) Hexachloropropene	6.59	213	99937	9.90244	ppb	98
36) Hexachlorobutadiene	6.63	225	99309	10.69913	ppb	98
37) Caprolactum	6.99	55	60350	10.54999	ppb	92

(#) = qualifier out of range (m) = manual integration
 0722Y005.D Y0722NC.M Tue Jul 23 Page 229 of 579

Data File : M:\YODA\DATA\Y190722\0722Y005.D
 Acq On : 22 Jul 19 14:57
 Sample : 10ug/ml 8270 07/12/19
 Misc :

Vial: 5
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:32:36 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	153114	10.93286	ppb	93
39) 2-Methylnaphthalene	7.30	142	373735	11.34952	ppb	99
40) 1-Methylnaphthalene	7.41	142	387403	11.27475	ppb	99
42) Hexachlorocyclopentadiene	7.47	237	4136	1.72454	ppb	98
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	176321	11.75744	ppb	100
44) 2,4,6-Trichlorophenol	7.66	196	104250	10.80084	ppb	99
45) 2,4,5-Trichlorophenol	7.71	196	111616	11.37921	ppb	# 93
47) 1,1'-Biphenyl	7.84	154	488170	12.34435	ppb	# 98
48) 2-Chloronaphthalene	7.87	162	370340	11.94582	ppb	100
49) 2-Nitroaniline	8.02	65	84128	10.83411	ppb	85
50) Dimethyl phthalate	8.21	163	416968	11.82222	ppb	99
51) 2,6-DNT	8.31	165	94879	11.84877	ppb	97
52) Acenaphthylene	8.35	152	575395	11.91664	ppb	100
53) 3-Nitroaniline	8.51	138	102521	11.76288	ppb	# 88
54) Acenaphthene	8.56	154	377311	12.39989	ppb	98
55) 2,4-Dinitrophenol	8.70	184	14038	4.68342	ppb	98
56) 4-Nitrophenol	8.78	65	39935	9.20265	ppb	80
57) Dibenzofuran	8.76	168	538398	12.20496	ppb	94
58) 2,4-DNT	8.79	165	127838	11.72944	ppb	88
59) 2,3,4,6-Tetrachlorophenol	8.93	232	81339	10.72911	ppb	96
60) Diethyl phthalate	9.03	149	397222	11.54365	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.16	204	220710	12.14078	ppb	97
62) Fluorene	9.16	166	427356	11.63675	ppb	100
63) 4-Nitroaniline	9.23	138	94293	11.57289	ppb	98
66) 4,6-Dinitro-2-methylphenol	9.27	198	63725	13.26532	ppb	96
67) Diphenyl amine	9.31	169	660461	20.92637	ppb	99
68) n-Nitrosodiphenylamine	9.31	169	660461	20.92637	ppb	99
69) 1,2-Diphenylhydrazine	9.35	77	345930	8.89163	ppb	97
70) 4-Bromophenyl phenyl ether	9.74	248	122158	10.08917	ppb	98
71) Hexachlorobenzene	9.80	284	127261	10.06275	ppb	97
72) Atrazine	9.94	200	56541	5.33914	ppb	96
73) Pentachlorophenol	10.06	266	32737	7.74673	ppb	96
74) Phenanthrene	10.29	178	630028	10.91833	ppb	99
75) Anthracene	10.36	178	642848	10.74560	ppb	99
76) Carbazol	10.56	167	587286	10.77676	ppb	99
77) Di-n-butylphthalate	10.95	149	645730	10.26866	ppb	99
78) Fluoranthene	11.69	202	677855	10.96689	ppb	98
80) Benzidine	11.87	184	134874	11.03349	ppb	# 98
81) Pyrene	11.96	202	706700	12.47354	ppb	100
83) Butyl benzylphthalate	12.71	149	276019	11.28610	ppb	82
84) 3,3'-Dichlorobenzidine	13.34	252	193787	11.53281	ppb	98
85) Benz (a) anthracene	13.37	228	675902	11.00459	ppb	100
86) Bis (2-ethylhexyl) phthala	13.37	149	376834	10.80604	ppb	98
87) Chrysene	13.41	228	638925	11.66556	ppb	100
88) Di-n-octylphthalate	14.10	149	617175	11.00300	ppb	# 95
90) Benzo (b) fluoranthene	14.62	252	652864	11.02209	ppb	98
91) Benzo (k) fluoranthene	14.66	252	618688	10.63284	ppb	99
92) Benzo (a) pyrene	15.06	252	598712	11.02449	ppb	99
93) Indeno (1,2,3-cd) pyrene	16.89	276	663063	10.66455	ppb	99
94) Dibenz (a,h) anthracene	16.89	278	581544	10.86152	ppb	97
95) Benzo (g,h,i) perylene	17.42	276	513851	10.72960	ppb	97

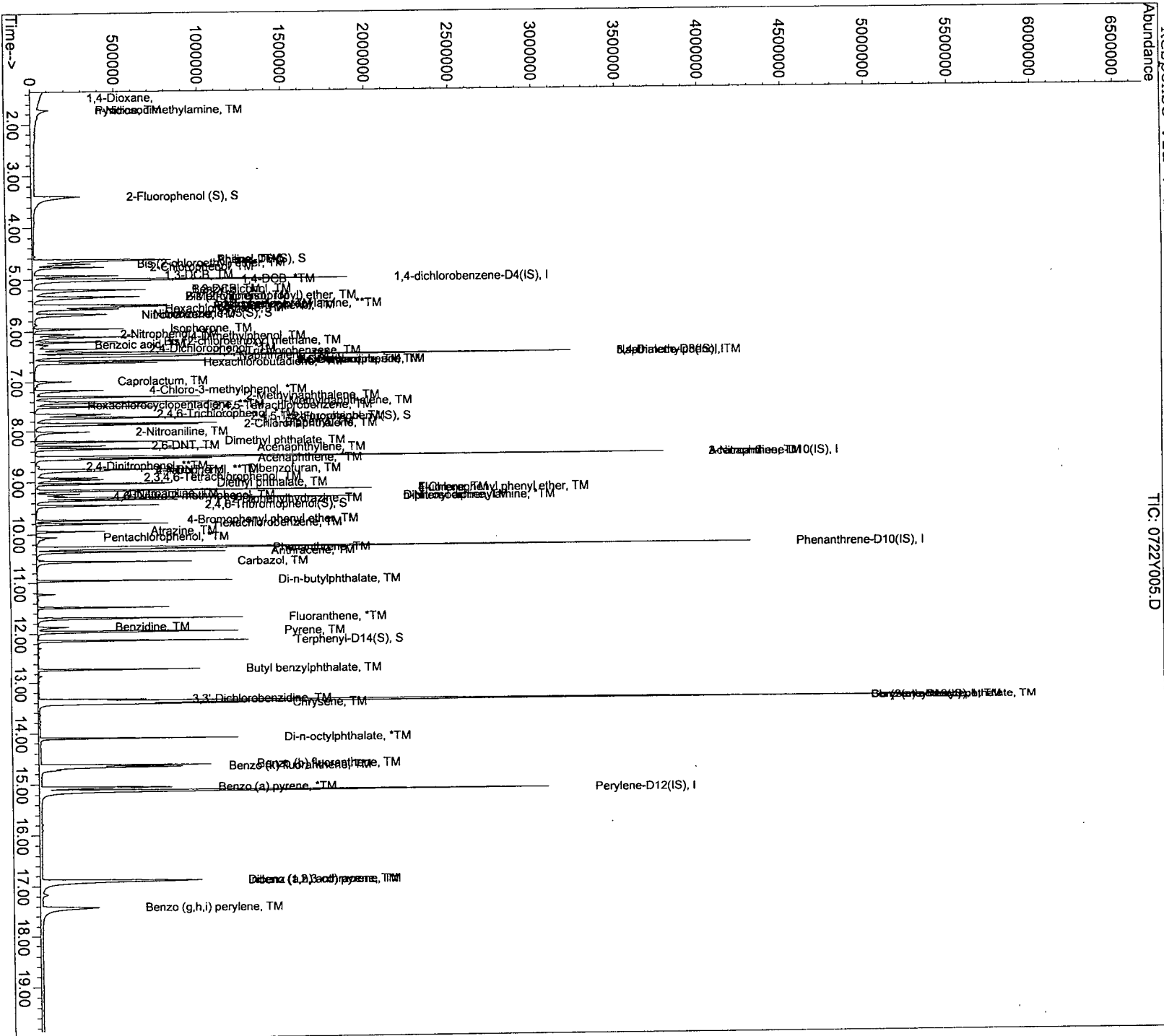
Data File : M:\YODA\DATA\Y190722\0722Y005.D
Acq On : 22 Jul 19 14:57
Sample : 10ug/ml 8270 07/12/19
Misc :

Vial : 5
Operator : MA,SS
Inst : Yoda
Multiplr : 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y006.D
 Acq On : 22 Jul 19 15:25
 Sample : 20ug/ml 8270 07/12/19
 Misc :

Vial: 6
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:24 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:35:45 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	449552	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.47	136	1802981	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.51	164	964305	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1897463	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.38	240	1747780	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.13	264	1861922	40.00000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol (S)	3.39	112	621052	42.38162	ppb	0.00
Spiked Amount 200.000			Recovery =	21.191%		
6) Phenol-D6 (S)	4.62	99	710958	38.92898	ppb	0.00
Spiked Amount 200.000			Recovery =	19.465%		
22) Nitrobenzene-D5 (S)	5.66	82	293880	18.43391	ppb	0.00
Spiked Amount 100.000			Recovery =	18.434%		
46) 2-Fluorobiphenyl (S)	7.72	172	763550	22.36569	ppb	0.00
Spiked Amount 100.000			Recovery =	22.366%		
64) 2,4,6-Tribromophenol (S)	9.45	330	214535	43.17647	ppb	0.00
Spiked Amount 200.000			Recovery =	21.588%		
82) Terphenyl-D14 (S)	12.13	244	900378	22.14400	ppb	0.00
Spiked Amount 100.000			Recovery =	22.144%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.48	58	1648m	0.88374		80
3) n-Nitrosodimethylamine	1.71	42	42917	14.96771	ppb	100
4) Pyridine	1.72	79	98578	13.80773	ppb	99
7) Phenol	4.64	94	446508	20.63998	ppb	90
8) Aniline	4.64	93	440648	20.91034	ppb	93
9) Bis (2-chloroethyl) ether	4.72	63	183864	20.07352	ppb	93
10) 2-Chlorophenol	4.77	128	343946	21.84518	ppb	99
11) 1,3-DCB	4.94	146	389026	21.62523	ppb	99
12) 1,4-DCB	5.02	146	391367	21.20206	ppb	98
13) Benzyl alcohol	5.20	108	195279	21.31291	ppb	99
14) 1,2-DCB	5.20	146	367155	21.30852	ppb	100
15) 2-Methylphenol	5.34	107	282308	21.41553	ppb	99
16) Bis (2-chloroisopropyl) et	5.33	45	301306	22.29018	ppb	100
17) Acetophenone	5.50	105	416480	20.44387	ppb	99
18) 3&4-Methylphenol	5.51	107	672559	41.30778	ppb	96
19) n-Nitrosodi-n-propylamine	5.49	70	203852	18.30232	ppb	98
20) Hexachloroethane	5.57	117	132666	20.24942	ppb	87
23) Nitrobenzene	5.69	77	310328	19.73878	ppb	100
24) Isophorone	5.96	82	545427	20.21318	ppb	93
25) 2-Nitrophenol	6.05	139	198818	22.97458	ppb	98
26) 2,4-Dimethylphenol	6.11	122	305159	22.08551	ppb	96
27) Benzoic acid	6.28	105	188388	20.99445	ppb	99
28) Bis (2-chloroethoxy) metha	6.21	93	357892	20.77128	ppb	99
29) 2,4-Dichlorophenol	6.34	162	290242	22.00669	ppb	99
30) 1,2,4-Trichlorobenzene	6.41	180	318460	21.83786	ppb	99
31) 3,4-Dimethylphenol	6.46	107	393672	20.78517	ppb	100
32) Napthalene	6.50	128	980235	21.46596	ppb	99
33) 4-Chloroaniline	6.58	127	390582	22.20900	ppb	98
34) 2,6-Dichlorophenol	6.58	162	280825	20.71247	ppb	95
35) Hexachloropropene	6.59	213	181367	19.70641	ppb	98
36) Hexachlorobutadiene	6.63	225	173617	20.51095	ppb	98
37) Caprolactum	7.00	55	115507	22.14199	ppb	97

Data File : M:\YODA\DATA\Y190722\0722Y006.D
 Acq On : 22 Jul 19 15:25
 Sample : 20ug/ml 8270 07/12/19
 Misc :

Vial: 6
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:24 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:35:45 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	279488	21.88345	ppb	96
39) 2-Methylnaphthalene	7.31	142	656540	21.86293	ppb	100
40) 1-Methylnaphthalene	7.42	142	680952	21.73171	ppb	99
42) Hexachlorocyclopentadiene	7.47	237	20014	9.00713	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	312157	22.46685	ppb	99
44) 2,4,6-Trichlorophenol	7.65	196	196020	21.92008	ppb	98
45) 2,4,5-Trichlorophenol	7.71	196	205225	22.58273	ppb #	92
47) 1,1'-Biphenyl	7.84	154	863483	23.56739	ppb	99
48) 2-Chloronaphthalene	7.87	162	664035	23.11887	ppb	98
49) 2-Nitroaniline	8.01	65	160806	22.35194	ppb	75
50) Dimethyl phthalate	8.22	163	771706	23.61613	ppb	99
51) 2,6-DNT	8.30	165	182224	24.56230	ppb	87
52) Acenaphthylene	8.35	152	1041135	23.27316	ppb	99
53) 3-Nitroaniline	8.50	138	191925	23.76800	ppb #	94
54) Acenaphthene	8.55	154	661848	23.47669	ppb	99
55) 2,4-Dinitrophenol	8.69	184	58621	21.10917	ppb	99
56) 4-Nitrophenol	8.76	65	81765	20.33701	ppb	99
57) Dibenzofuran	8.76	168	961022	23.51400	ppb	99
58) 2,4-DNT	8.78	165	246842	24.44539	ppb	92
59) 2,3,4,6-Tetrachlorophenol	8.92	232	156036	22.21520	ppb	95
60) Diethyl phthalate	9.04	149	729998	22.89770	ppb	96
61) 4-Chlorophenyl phenyl ethe	9.16	204	397101	23.57686	ppb	95
62) Fluorene	9.16	166	767871	22.56788	ppb	100
63) 4-Nitroaniline	9.23	138	182373	24.15923	ppb	99
66) 4,6-Dinitro-2-methylphenol	9.26	198	135701	23.14173	ppb	90
67) Diphenyl amine	9.31	169	1193523	40.56691	ppb	99
68) n-Nitrosodiphenylamine	9.31	169	1193523	40.56691	ppb	99
69) 1,2-Diphenylhydrazine	9.35	77	614556	16.94529	ppb	92
70) 4-Bromophenyl phenyl ether	9.73	248	229332	20.31854	ppb #	89
71) Hexachlorobenzene	9.80	284	235010	19.93434	ppb	91
72) Atrazine	9.94	200	104560	10.59176	ppb	97
73) Pentachlorophenol	10.06	266	67449	17.12180	ppb	98
74) Phenanthrene	10.30	178	1120875	20.83761	ppb	99
75) Anthracene	10.35	178	1152872	20.67272	ppb	99
76) Carbazol	10.56	167	1082419	21.30729	ppb	99
77) Di-n-butylphthalate	10.95	149	1242593	21.19757	ppb	98
78) Fluoranthene	11.70	202	1248728	21.67249	ppb	99
80) Benzidine	11.87	184	285936	25.35762	ppb	100
81) Pyrene	11.96	202	1278897	24.47063	ppb	100
83) Butyl benzylphthalate	12.71	149	529453	23.46862	ppb	90
84) 3,3'-Dichlorobenzidine	13.34	252	373113	24.07165	ppb	98
85) Benz (a) anthracene	13.37	228	1187579	20.96079	ppb	99
86) Bis (2-ethylhexyl) phthala	13.37	149	687482	21.37139	ppb #	94
87) Chrysene	13.41	228	1177980	23.31570	ppb	99
88) Di-n-octylphthalate	14.10	149	1213653	23.45593	ppb	96
90) Benzo (b) fluoranthene	14.62	252	1179913	21.23023	ppb	99
91) Benzo (k) fluoranthene	14.66	252	1187138	21.74414	ppb	99
92) Benzo (a) pyrene	15.06	252	1103210	21.65022	ppb	100
93) Indeno (1,2,3-cd) pyrene	16.88	276	1249836	21.42418	ppb	99
94) Dibenz (a,h) anthracene	16.90	278	1096810	21.83247	ppb	99
95) Benzo (g,h,i) perylene	17.41	276	976213	21.72473	ppb	97

Quantitation Report

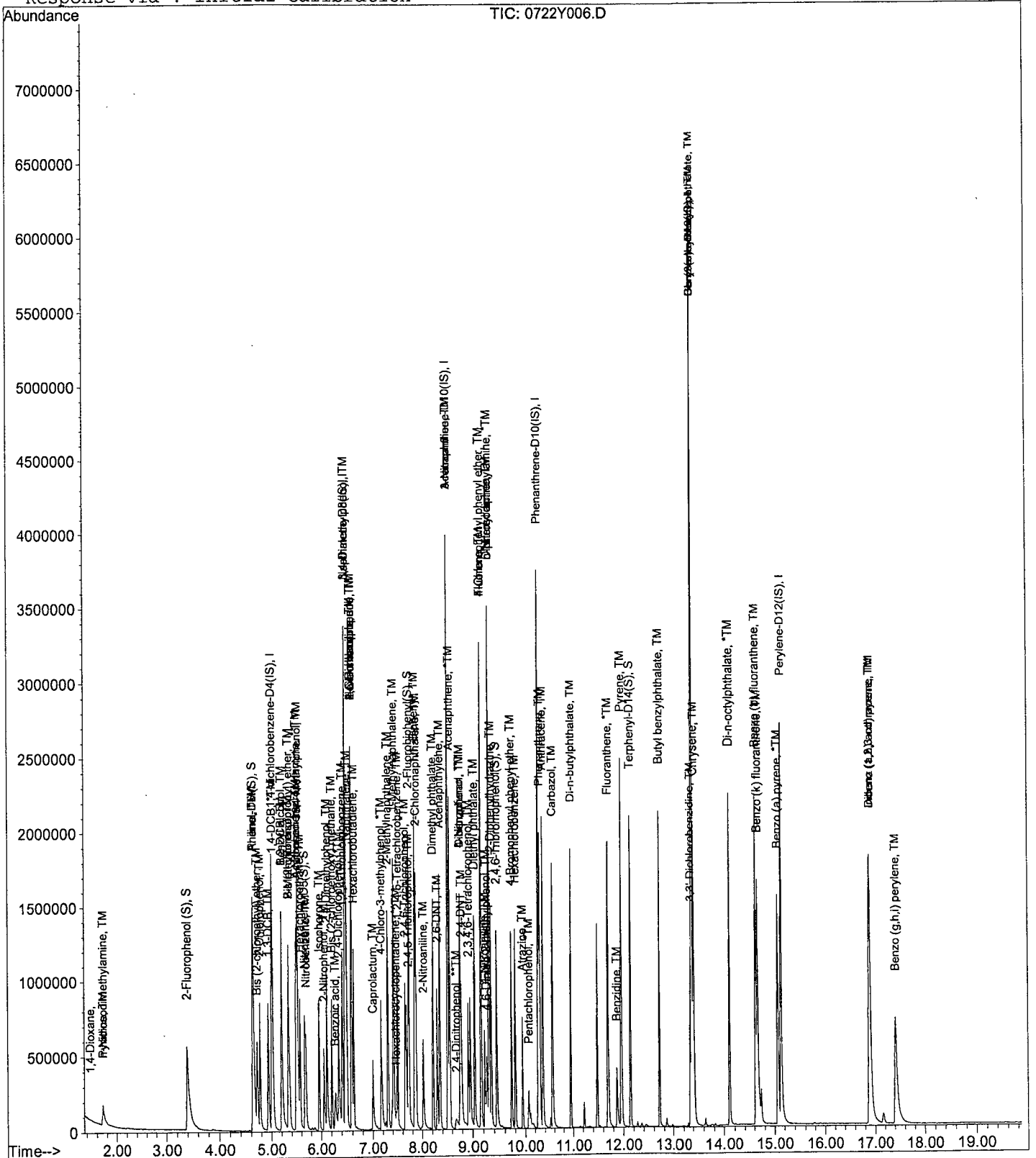
Data File : M:\YODA\DATA\Y190722\0722Y006.D
Acq On : 22 Jul 19 15:25
Sample : 20ug/ml 8270 07/12/19
Misc :

Vial: 6
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 23 8:24 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y007.D
 Acq On : 22 Jul 19 15:53
 Sample : 40ug/ml 8270 07/12/19
 Misc :

Vial: 7
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:35:45 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.01	152	434901	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.48	136	1695022	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	914739	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.26	188	1808689	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.38	240	1597421	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.13	264	1728792	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.39	112	1119111	78.94276	ppb	0.00
Spiked Amount	200.000			Recovery =	39.472%	
6) Phenol-D6 (S)	4.63	99	1197551	67.78173	ppb	0.00
Spiked Amount	200.000			Recovery =	33.891%	
22) Nitrobenzene-D5 (S)	5.67	82	502567	33.53182	ppb	0.00
Spiked Amount	100.000			Recovery =	33.532%	
46) 2-Fluorobiphenyl (S)	7.73	172	1272238	39.28534	ppb	0.00
Spiked Amount	100.000			Recovery =	39.285%	
64) 2,4,6-Tribromophenol (S)	9.46	330	377413	80.07245	ppb	0.00
Spiked Amount	200.000			Recovery =	40.036%	
82) Terphenyl-D14 (S)	12.14	244	1527109	41.09307	ppb	0.00
Spiked Amount	100.000			Recovery =	41.093%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.47	58	4540	2.51660		65
3) n-Nitrosodimethylamine	1.70	42	76662	27.63731	ppb	97
4) Pyridine	1.71	79	196073	28.38897	ppb	100
7) Phenol	4.64	94	783151	37.42097	ppb	96
8) Aniline	4.64	93	768066	37.67536	ppb	97
9) Bis (2-chloroethyl) ether	4.71	63	328033	37.01978	ppb	100
10) 2-Chlorophenol	4.77	128	618839	40.62866	ppb	98
11) 1,3-DCB	4.94	146	700322	40.24107	ppb	99
12) 1,4-DCB	5.03	146	697138	39.03931	ppb	99
13) Benzyl alcohol	5.20	108	346844	39.13009	ppb	98
14) 1,2-DCB	5.20	146	649790	38.98221	ppb	99
15) 2-Methylphenol	5.34	107	485009	38.03163	ppb	99
16) Bis (2-chloroisopropyl) et	5.34	45	507545	38.81235	ppb	# 76
17) Acetophenone	5.49	105	710778	36.06555	ppb	99
18) 3&4-Methylphenol	5.52	107	1163600	73.87452	ppb	100
19) n-Nitrosodi-n-propylamine	5.49	70	350166	32.49785	ppb	99
20) Hexachloroethane	5.58	117	233873	36.89968	ppb	98
23) Nitrobenzene	5.69	77	536348	36.28789	ppb	100
24) Isophorone	5.96	82	936672	36.92336	ppb	100
25) 2-Nitrophenol	6.05	139	361620	44.44882	ppb	98
26) 2,4-Dimethylphenol	6.12	122	529260	40.74423	ppb	99
27) Benzoic acid	6.30	105	376966	44.68576	ppb	99
28) Bis (2-chloroethoxy) metha	6.21	93	610238	37.67266	ppb	99
29) 2,4-Dichlorophenol	6.34	162	505958	40.80606	ppb	99
30) 1,2,4-Trichlorobenzene	6.41	180	555093	40.48897	ppb	100
31) 3,4-Dimethylphenol	6.46	107	672769	37.78339	ppb	99
32) Napthalene	6.51	128	1716939	39.99363	ppb	99
33) 4-Chloroaniline	6.59	127	657855	39.78899	ppb	95
34) 2,6-Dichlorophenol	6.59	162	478938	37.57433	ppb	99
35) Hexachloropropene	6.59	213	326106	37.68980	ppb	98
36) Hexachlorobutadiene	6.63	225	306496	38.51538	ppb	99
37) Caprolactum	7.02	55	200683	40.91992	ppb	99

(#) = qualifier out of range (m) = manual integration
 0722Y007.D Y0722NC.M Tue Jul 23 Page 227 of 579

Data File : M:\YODA\DATA\Y190722\0722Y007.D
 Acq On : 22 Jul 19 15:53
 Sample : 40ug/ml 8270 07/12/19
 Misc :

Vial: 7
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:35:45 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	495664	41.28153	ppb	87
39) 2-Methylnaphthalene	7.30	142	1152682	40.82936	ppb	99
40) 1-Methylnaphthalene	7.41	142	1165727	39.57220	ppb	99
42) Hexachlorocyclopentadiene	7.47	237	76358	36.22632	ppb	97
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	549442	41.68773	ppb	99
44) 2,4,6-Trichlorophenol	7.66	196	345048	40.67603	ppb	99
45) 2,4,5-Trichlorophenol	7.71	196	358588	41.59672	ppb	99
47) 1,1'-Biphenyl	7.85	154	1489253	42.84926	ppb	100
48) 2-Chloronaphthalene	7.87	162	1154950	42.38927	ppb	99
49) 2-Nitroaniline	8.02	65	282501	41.39521	ppb	95
50) Dimethyl phthalate	8.22	163	1334879	43.06415	ppb	100
51) 2,6-DNT	8.31	165	326631	46.41282	ppb	99
52) Acenaphthylene	8.35	152	1793911	42.27332	ppb	100
53) 3-Nitroaniline	8.51	138	344090	44.92110	ppb	# 86
54) Acenaphthene	8.56	154	1117569	41.78979	ppb	99
55) 2,4-Dinitrophenol	8.66	184	141841	53.84396	ppb	91
56) 4-Nitrophenol	8.76	65	145397	38.12346	ppb	98
57) Dibenzofuran	8.76	168	1645161	42.43447	ppb	97
58) 2,4-DNT	8.79	165	437148	45.63768	ppb	84
59) 2,3,4,6-Tetrachlorophenol	8.92	232	287070	43.08542	ppb	96
60) Diethyl phthalate	9.04	149	1250583	41.35233	ppb	100
61) 4-Chlorophenyl phenyl ethe	9.16	204	663552	41.53145	ppb	97
62) Fluorene	9.16	166	1287866	39.90160	ppb	99
63) 4-Nitroaniline	9.23	138	321115	44.84359	ppb	97
66) 4,6-Dinitro-2-methylphenol	9.27	198	264226	41.45764	ppb	96
67) Diphenyl amine	9.32	169	2026579	72.26269	ppb	99
68) n-Nitrosodiphenylamine	9.32	169	2026579	72.26269	ppb	99
69) 1,2-Diphenylhydrazine	9.36	77	1066020	30.83630	ppb	# 86
70) 4-Bromophenyl phenyl ether	9.74	248	399585	37.14038	ppb	96
71) Hexachlorobenzene	9.81	284	418506	37.24146	ppb	# 85
72) Atrazine	9.95	200	188506	20.03259	ppb	99
73) Pentachlorophenol	10.06	266	133571	35.57096	ppb	98
74) Phenanthrene	10.29	178	1932971	37.69861	ppb	100
75) Anthracene	10.36	178	2024333	38.08097	ppb	100
76) Carbazol	10.56	167	1847970	38.16254	ppb	99
77) Di-n-butylphthalate	10.95	149	2149590	38.47001	ppb	100
78) Fluoranthene	11.69	202	2142695	39.01313	ppb	98
80) Benzidine	11.87	184	539867	52.38342	ppb	99
81) Pyrene	11.96	202	2224463	46.56956	ppb	100
83) Butyl benzylphthalate	12.72	149	961739	46.64281	ppb	97
84) 3,3'-Dichlorobenzidine	13.34	252	657231	46.39284	ppb	99
85) Benz (a) anthracene	13.37	228	2025192	39.10918	ppb	100
86) Bis (2-ethylhexyl) phthala	13.37	149	1187159	40.37828	ppb	98
87) Chrysene	13.41	228	2010912	43.54828	ppb	100
88) Di-n-octylphthalate	14.11	149	2246023	47.49410	ppb	99
90) Benzo (b) fluoranthene	14.62	252	1994855	38.65759	ppb	99
91) Benzo (k) fluoranthene	14.66	252	2164247	42.69398	ppb	100
92) Benzo (a) pyrene	15.06	252	1968144	41.59870	ppb	99
93) Indeno (1,2,3-cd) pyrene	16.88	276	2256782	41.66386	ppb	99
94) Dibenz (a,h) anthracene	16.89	278	1972383	42.28453	ppb	98
95) Benzo (g,h,i) perylene	17.40	276	1774127	42.52196	ppb	99

Quantitation Report

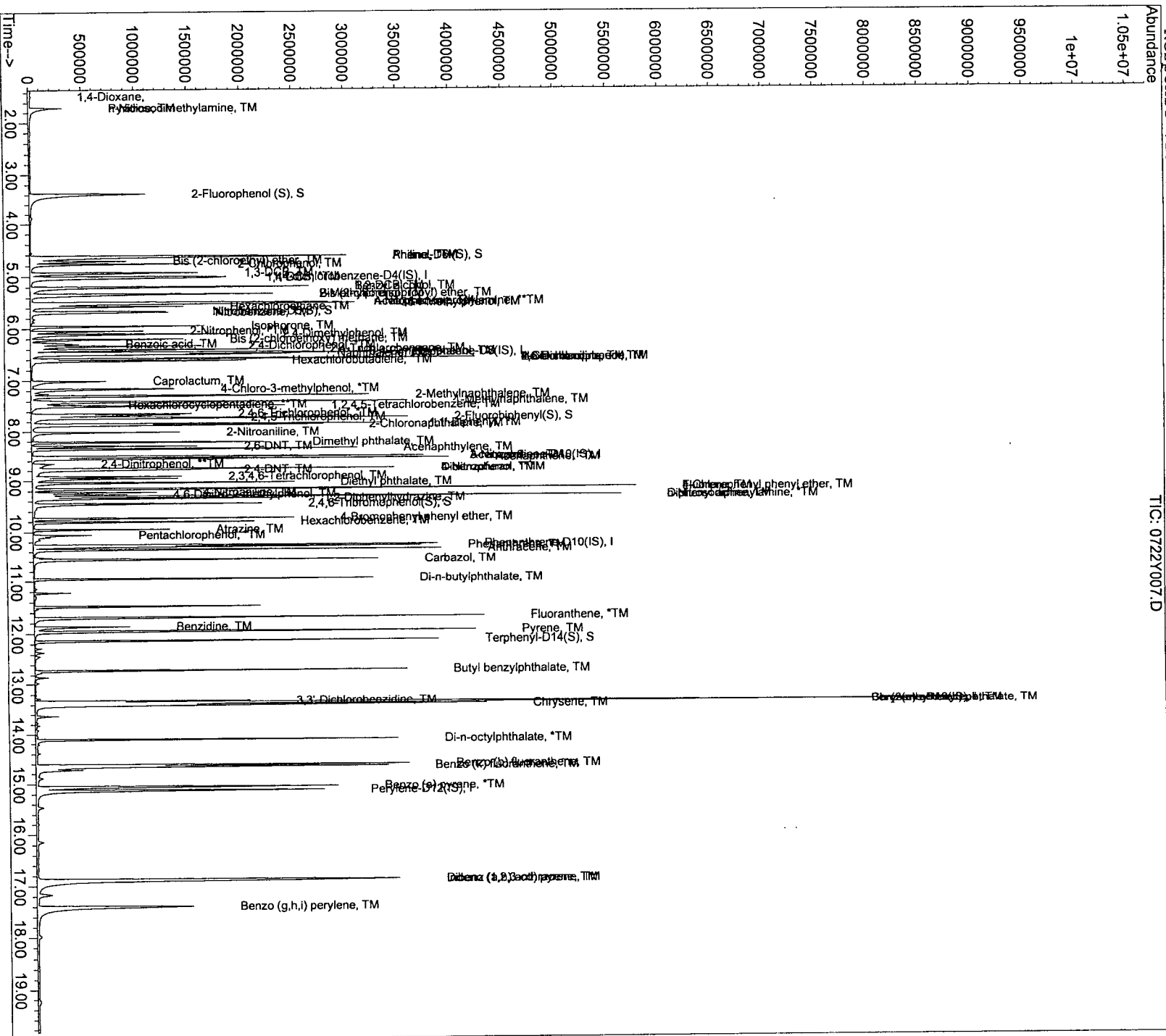
Data File : M:\YODA\DATA\Y190722\0722Y007.D
Acq On : 22 Jul 19 15:53
Sample : 40ug/ml 8270 07/12/19
Misc :

Vial: 7
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



TIC: 0722Y007.D

Data File : M:\YODA\DATA\Y190722\0722Y008.D
 Acq On : 22 Jul 19 16:21
 Sample : 50ug/ml 8270 07/12/19
 Misc :

Vial: 8
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:35:45 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.01	152	416163	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.48	136	1667918	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	906758	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1797614	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.38	240	1541141	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.13	264	1693655	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.39	112	1336934	98.55440	ppb	0.00
Spiked Amount 200.000			Recovery =	49.277%		
6) Phenol-D6 (S)	4.63	99	1429162	84.53315	ppb	0.00
Spiked Amount 200.000			Recovery =	42.267%		
22) Nitrobenzene-D5 (S)	5.67	82	605450	41.05274	ppb	0.00
Spiked Amount 100.000			Recovery =	41.053%		
46) 2-Fluorobiphenyl (S)	7.73	172	1551277	48.32338	ppb	0.00
Spiked Amount 100.000			Recovery =	48.323%		
64) 2,4,6-Tribromophenol (S)	9.46	330	472040	101.03012	ppb	0.00
Spiked Amount 200.000			Recovery =	50.515%		
82) Terphenyl-D14 (S)	12.14	244	1857213	51.80090	ppb	0.00
Spiked Amount 100.000			Recovery =	51.801%		

Target Compounds

					Qvalue
2) 1,4-Dioxane	1.47	58	5936	3.43857	100
3) n-Nitrosodimethylamine	1.70	42	87948	33.13359	ppb 100
4) Pyridine	1.71	79	232128	35.12257	ppb 100
7) Phenol	4.64	94	967072	48.28978	ppb 100
8) Aniline	4.64	93	932390	47.79511	ppb 100
9) Bis (2-chloroethyl) ether	4.71	63	404530	47.70830	ppb 100
10) 2-Chlorophenol	4.77	128	770270	52.84754	ppb 100
11) 1,3-DCB	4.94	146	853552	51.25410	ppb 100
12) 1,4-DCB	5.03	146	862586	50.47923	ppb 100
13) Benzyl alcohol	5.20	108	433088	51.05988	ppb 100
14) 1,2-DCB	5.20	146	793816	49.76685	ppb 100
15) 2-Methylphenol	5.34	107	603605	49.46237	ppb 100
16) Bis (2-chloroisopropyl) et	5.33	45	620953	49.62277	ppb 100
17) Acetophenone	5.49	105	891156	47.25407	ppb 100
18) 3&4-Methylphenol	5.52	107	1430006	94.87586	ppb 100
19) n-Nitrosodi-n-propylamine	5.49	70	437552	42.43627	ppb 100
20) Hexachloroethane	5.58	117	286440	47.22839	ppb 100
23) Nitrobenzene	5.69	77	668853	45.98820	ppb 100
24) Isophorone	5.96	82	1184028	47.43253	ppb 100
25) 2-Nitrophenol	6.05	139	448046	55.96687	ppb 100
26) 2,4-Dimethylphenol	6.12	122	667102	52.19031	ppb 100
27) Benzoic acid	6.31	105	483571	58.25429	ppb 100
28) Bis (2-chloroethoxy) metha	6.21	93	769152	48.25472	ppb 100
29) 2,4-Dichlorophenol	6.34	162	642141	52.63096	ppb 100
30) 1,2,4-Trichlorobenzene	6.41	180	693411	51.39991	ppb 100
31) 3,4-Dimethylphenol	6.46	107	843939	48.16667	ppb 100
32) Napthalene	6.50	128	2079691	49.23063	ppb 100
33) 4-Chloroaniline	6.58	127	797949	49.04655	ppb 100
34) 2,6-Dichlorophenol	6.59	162	587514	46.84150	ppb 100
35) Hexachloropropene	6.59	213	401911	47.20583	ppb 100
36) Hexachlorobutadiene	6.63	225	382861	48.89350	ppb 100
37) Caprolactum	7.03	55	247891	51.36717	ppb 100

(#) = qualifier out of range (m) = manual integration
 0722Y008.D Y0722NC.M Tue Jul 23 09:12:41 2019

Data File : M:\YODA\DATA\Y190722\0722Y008.D
 Acq On : 22 Jul 19 16:21
 Sample : 50ug/ml 8270 07/12/19
 Misc :

Vial: 8
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:35:45 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.16	107	619188	52.40727	ppb	100
39) 2-Methylnaphthalene	7.30	142	1424143	51.26456	ppb	100
40) 1-Methylnaphthalene	7.42	142	1459621	50.35401	ppb	100
42) Hexachlorocyclopentadiene	7.47	237	119645	57.26246	ppb	100
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	683965	52.35113	ppb	100
44) 2,4,6-Trichlorophenol	7.65	196	433619	51.56715	ppb	100
45) 2,4,5-Trichlorophenol	7.71	196	461388	53.99275	ppb	100
47) 1,1'-Biphenyl	7.85	154	1856166	53.87627	ppb	100
48) 2-Chloronaphthalene	7.87	162	1418291	52.51265	ppb	100
49) 2-Nitroaniline	8.02	65	349763	51.70229	ppb	100
50) Dimethyl phthalate	8.22	163	1666226	54.22677	ppb	100
51) 2,6-DNT	8.31	165	410703	58.87274	ppb	100
52) Acenaphthylene	8.35	152	2235476	53.14241	ppb	100
53) 3-Nitroaniline	8.50	138	434614	57.23845	ppb	100
54) Acenaphthene	8.56	154	1390142	52.43978	ppb	100
55) 2,4-Dinitrophenol	8.66	184	198431	75.98897	ppb	100
56) 4-Nitrophenol	8.75	65	185306	49.01536	ppb	100
57) Dibenzofuran	8.76	168	2046345	53.24699	ppb	100
58) 2,4-DNT	8.78	165	554698	58.41945	ppb	100
59) 2,3,4,6-Tetrachlorophenol	8.92	232	366798	55.53609	ppb	100
60) Diethyl phthalate	9.04	149	1579664	52.69361	ppb	100
61) 4-Chlorophenyl phenyl ethe	9.16	204	815907	51.51677	ppb	100
62) Fluorene	9.16	166	1578062	49.32301	ppb	100
63) 4-Nitroaniline	9.24	138	403717	56.87516	ppb	100
66) 4,6-Dinitro-2-methylphenol	9.27	198	342958	52.43640	ppb	100
67) Diphenyl amine	9.32	169	2480968	89.01008	ppb	100
68) n-Nitrosodiphenylamine	9.32	169	2480968	89.01008	ppb	100
69) 1,2-Diphenylhydrazine	9.35	77	1530807	44.55380	ppb	100
70) 4-Bromophenyl phenyl ether	9.74	248	510638	47.75488	ppb	100
71) Hexachlorobenzene	9.80	284	528160	47.28876	ppb	100
72) Atrazine	9.95	200	239643	25.62383	ppb	100
73) Pentachlorophenol	10.06	266	177793	47.63931	ppb	100
74) Phenanthrene	10.29	178	2415787	47.40522	ppb	100
75) Anthracene	10.36	178	2512868	47.56233	ppb	100
76) Carbazol	10.56	167	2335501	48.52771	ppb	100
77) Di-n-butylphthalate	10.95	149	2629794	47.35391	ppb	100
78) Fluoranthene	11.70	202	2668320	48.88277	ppb	100
80) Benzidine	11.87	184	700290	70.43070	ppb	100
81) Pyrene	11.96	202	2748798	59.64812	ppb	100
83) Butyl benzylphthalate	12.72	149	1204617	60.55548	ppb	100
84) 3,3'-Dichlorobenzidine	13.34	252	814912	59.62393	ppb	100
85) Benz (a) anthracene	13.37	228	2482336	49.68783	ppb	100
86) Bis (2-ethylhexyl) phthala	13.38	149	1456149	51.33597	ppb	100
87) Chrysene	13.41	228	2483977	55.75741	ppb	100
88) Di-n-octylphthalate	14.11	149	2780018	60.93265	ppb	100
90) Benzo (b) fluoranthene	14.62	252	2538404	50.21136	ppb	100
91) Benzo (k) fluoranthene	14.66	252	2627814	52.91419	ppb	100
92) Benzo (a) pyrene	15.06	252	2445138	52.75262	ppb	100
93) Indeno (1,2,3-cd) pyrene	16.88	276	2828859	53.30882	ppb	100
94) Dibenz (a,h) anthracene	16.89	278	2475329	54.16778	ppb	100
95) Benzo (g,h,i) perylene	17.40	276	2242403	54.86054	ppb	100

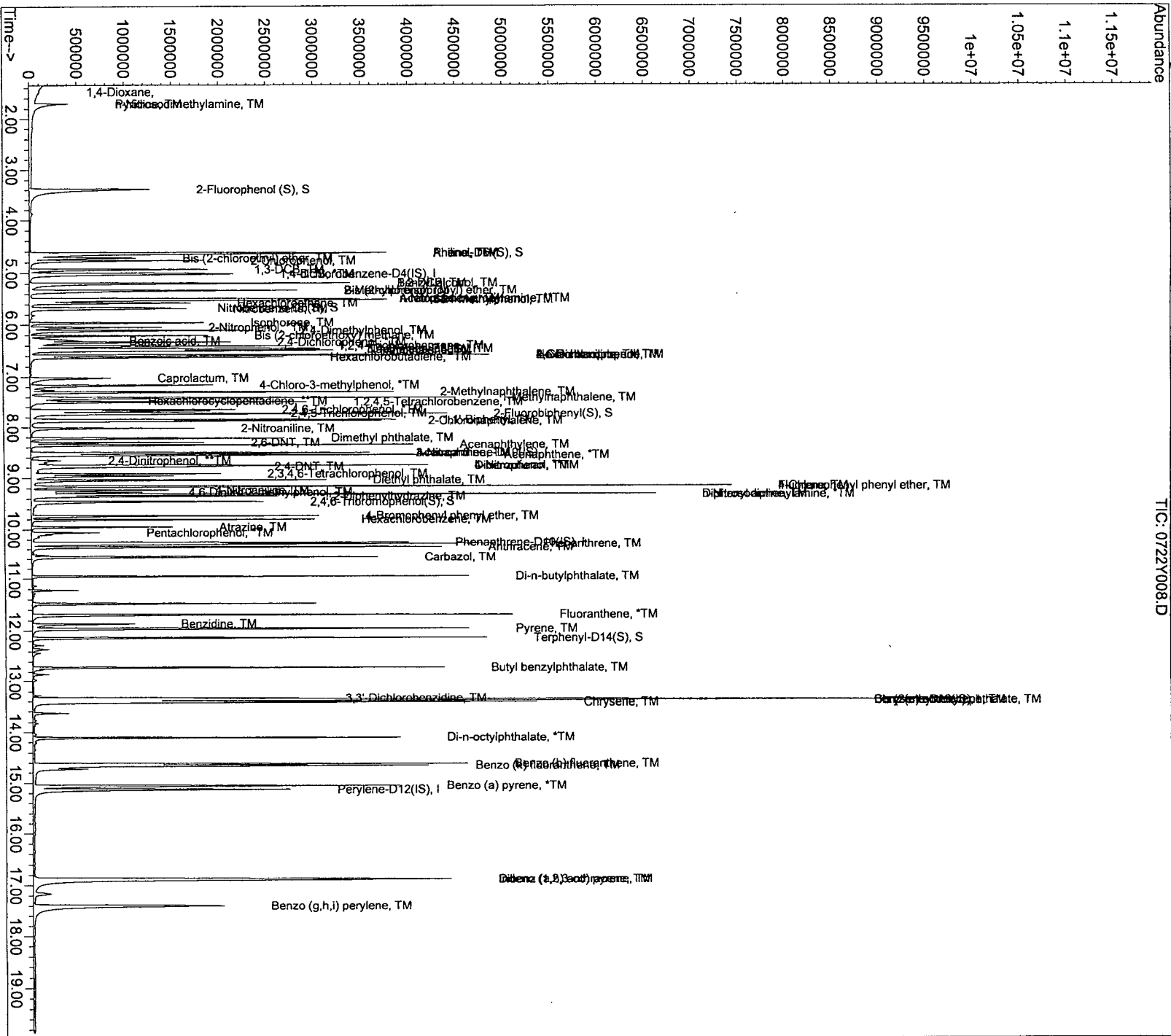
Data File : M:\YODA\DATA\Y190722\0722Y008.D
Acq On : 22 Jul 19 16:21
Sample : 50ug/ml 8270 07/12/19
Misc :

Vial: 8
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 22 16:36 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response Via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y009.D
 Acq On : 22 Jul 19 16:49
 Sample : 60ug/ml 8270 07/12/19
 Misc :

Vial: 9
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:45 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:38:07 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.00	152	437675	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.48	136	1720406	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.51	164	937619	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1842343	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.39	240	1607541	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.13	264	1780829	40.00000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol (S)	3.38	112	1612028	107.20956	ppb	0.00
Spiked Amount				200.000		
Recovery					= 53.605%	
6) Phenol-D6 (S)	4.62	99	1692233	95.57774	ppb	0.00
Spiked Amount				200.000		
Recovery					= 47.789%	
22) Nitrobenzene-D5 (S)	5.66	82	718067	49.13574	ppb	0.00
Spiked Amount				100.000		
Recovery					= 49.136%	
46) 2-Fluorobiphenyl (S)	7.73	172	1802151	49.66287	ppb	0.00
Spiked Amount				100.000		
Recovery					= 49.663%	
64) 2,4,6-Tribromophenol (S)	9.46	330	562766	109.26102	ppb	0.00
Spiked Amount				200.000		
Recovery					= 54.630%	
82) Terphenyl-D14 (S)	12.14	244	2192539	53.48439	ppb	0.00
Spiked Amount				100.000		
Recovery					= 53.484%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.48	58	6942m	4.52687		45
3) n-Nitrosodimethylamine	1.70	42	121038	54.00330	ppb	97
4) Pyridine	1.71	79	284393	52.07852	ppb	100
7) Phenol	4.64	94	1145828	54.28248	ppb	94
8) Aniline	4.63	93	1121005	54.05728	ppb	# 85
9) Bis (2-chloroethyl) ether	4.72	63	491483	55.21180	ppb	97
10) 2-Chlorophenol	4.77	128	920952	57.12711	ppb	99
11) 1,3-DCB	4.93	146	1031789	56.69173	ppb	98
12) 1,4-DCB	5.02	146	1043327	56.83571	ppb	98
13) Benzyl alcohol	5.20	108	522063	56.90191	ppb	100
14) 1,2-DCB	5.20	146	953510	55.39926	ppb	99
15) 2-Methylphenol	5.34	107	729397	55.43086	ppb	99
16) Bis (2-chloroisopropyl) et	5.33	45	735058	52.52482	ppb	# 87
17) Acetophenone	5.49	105	1066834	53.66137	ppb	99
18) 3&4-Methylphenol	5.52	107	1706286	105.76202	ppb	100
19) n-Nitrosodi-n-propylamine	5.49	70	518839	50.77146	ppb	99
20) Hexachloroethane	5.57	117	344927	54.23276	ppb	84
23) Nitrobenzene	5.69	77	803975	55.25210	ppb	98
24) Isophorone	5.97	82	1420690	56.16339	ppb	92
25) 2-Nitrophenol	6.05	139	547766	63.45967	ppb	96
26) 2,4-Dimethylphenol	6.12	122	794617	57.53359	ppb	98
27) Benzoic acid	6.32	105	499109	58.23316	ppb	100
28) Bis (2-chloroethoxy) metha	6.21	93	917851	55.36882	ppb	99
29) 2,4-Dichlorophenol	6.34	162	766243	58.46976	ppb	99
30) 1,2,4-Trichlorobenzene	6.41	180	833371	57.56733	ppb	99
31) 3,4-Dimethylphenol	6.46	107	1015102	55.90949	ppb	99
32) Napthalene	6.50	128	2507244	55.67213	ppb	100
33) 4-Chloroaniline	6.58	127	935945	53.74350	ppb	99
34) 2,6-Dichlorophenol	6.58	162	692417	52.76459	ppb	97
35) Hexachloropropene	6.59	213	482994	55.43696	ppb	98
36) Hexachlorobutadiene	6.63	225	461712	56.99151	ppb	99
37) Caprolactum	7.04	55	300817	58.55575	ppb	99

Data File : M:\YODA\DATA\Y190722\0722Y009.D
 Acq On : 22 Jul 19 16:49
 Sample : 60ug/ml 8270 07/12/19
 Misc :

Vial: 9
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:45 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 16:38:07 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	742100	58.38930	ppb	99
39) 2-Methylnaphthalene	7.31	142	1707887	56.78975	ppb	99
40) 1-Methylnaphthalene	7.42	142	1730112	55.23433	ppb	99
42) Hexachlorocyclopentadiene	7.47	237	173882	95.99836	ppb	98
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	819581	57.17759	ppb	99
44) 2,4,6-Trichlorophenol	7.65	196	526860	58.86615	ppb	99
45) 2,4,5-Trichlorophenol	7.70	196	558447	59.42769	ppb	# 93
47) 1,1'-Biphenyl	7.84	154	2186516	55.88384	ppb	# 98
48) 2-Chloronaphthalene	7.87	162	1682772	55.78230	ppb	100
49) 2-Nitroaniline	8.02	65	422122	57.57672	ppb	98
50) Dimethyl phthalate	8.22	163	1988353	57.42611	ppb	98
51) 2,6-DNT	8.31	165	501942	62.17338	ppb	99
52) Acenaphthylene	8.35	152	2688545	57.25804	ppb	100
53) 3-Nitroaniline	8.50	138	510176	59.56709	ppb	100
54) Acenaphthene	8.56	154	1645420	54.98872	ppb	99
55) 2,4-Dinitrophenol	8.65	184	243776m	92.48619	ppb	91
56) 4-Nitrophenol	8.75	65	222218	57.12374	ppb	96
57) Dibenzofuran	8.76	168	2446444	56.48580	ppb	100
58) 2,4-DNT	8.78	165	662711	60.96695	ppb	98
59) 2,3,4,6-Tetrachlorophenol	8.92	232	446533	62.13068	ppb	98
60) Diethyl phthalate	9.04	149	1864739	56.43276	ppb	100
61) 4-Chlorophenyl phenyl ethe	9.16	204	959331	53.53220	ppb	97
62) Fluorene	9.16	166	1836197	52.14519	ppb	99
63) 4-Nitroaniline	9.24	138	491416	60.93816	ppb	99
66) 4,6-Dinitro-2-methylphenol	9.27	198	414952	59.90914	ppb	98
67) Diphenyl amine	9.32	169	2928675	102.65355	ppb	100
68) n-Nitrosodiphenylamine	9.32	169	2928675	102.65355	ppb	100
69) 1,2-Diphenylhydrazine	9.35	77	1842256	55.72450	ppb	98
70) 4-Bromophenyl phenyl ether	9.74	248	619861	56.96373	ppb	96
71) Hexachlorobenzene	9.80	284	632881	56.24004	ppb	96
72) Atrazine	9.95	200	289997	29.32240	ppb	100
73) Pentachlorophenol	10.06	266	217511	61.88485	ppb	99
74) Phenanthrene	10.29	178	2816064	53.11010	ppb	100
75) Anthracene	10.36	178	2937033	53.72686	ppb	100
76) Carbazol	10.56	167	2745559	54.36181	ppb	100
77) Di-n-butylphthalate	10.95	149	3160640	55.24913	ppb	100
78) Fluoranthene	11.70	202	3182581	55.18420	ppb	99
80) Benzidine	11.86	184	887325	75.68119	ppb	98
81) Pyrene	11.97	202	3263914	60.00730	ppb	100
83) Butyl benzylphthalate	12.72	149	1427380	62.33458	ppb	99
84) 3,3'-Dichlorobenzidine	13.34	252	978772	63.06674	ppb	99
85) Benz (a) anthracene	13.37	228	2974744	55.31685	ppb	100
86) Bis (2-ethylhexyl) phthala	13.38	149	1696787	55.39657	ppb	99
87) Chrysene	13.41	228	2893904	57.15954	ppb	99
88) Di-n-octylphthalate	14.10	149	3364339	64.39260	ppb	# 94
90) Benzo (b) fluoranthene	14.62	252	3070425	56.24455	ppb	99
91) Benzo (k) fluoranthene	14.66	252	3073129	56.50474	ppb	100
92) Benzo (a) pyrene	15.06	252	2939565	57.96905	ppb	99
93) Indeno (1,2,3-cd) pyrene	16.89	276	3399948	58.81639	ppb	100
94) Dibenz (a,h) anthracene	16.90	278	2976911	59.57297	ppb	99
95) Benzo (g,h,i) perylene	17.41	276	2685608	59.89385	ppb	99

Quantitation Report

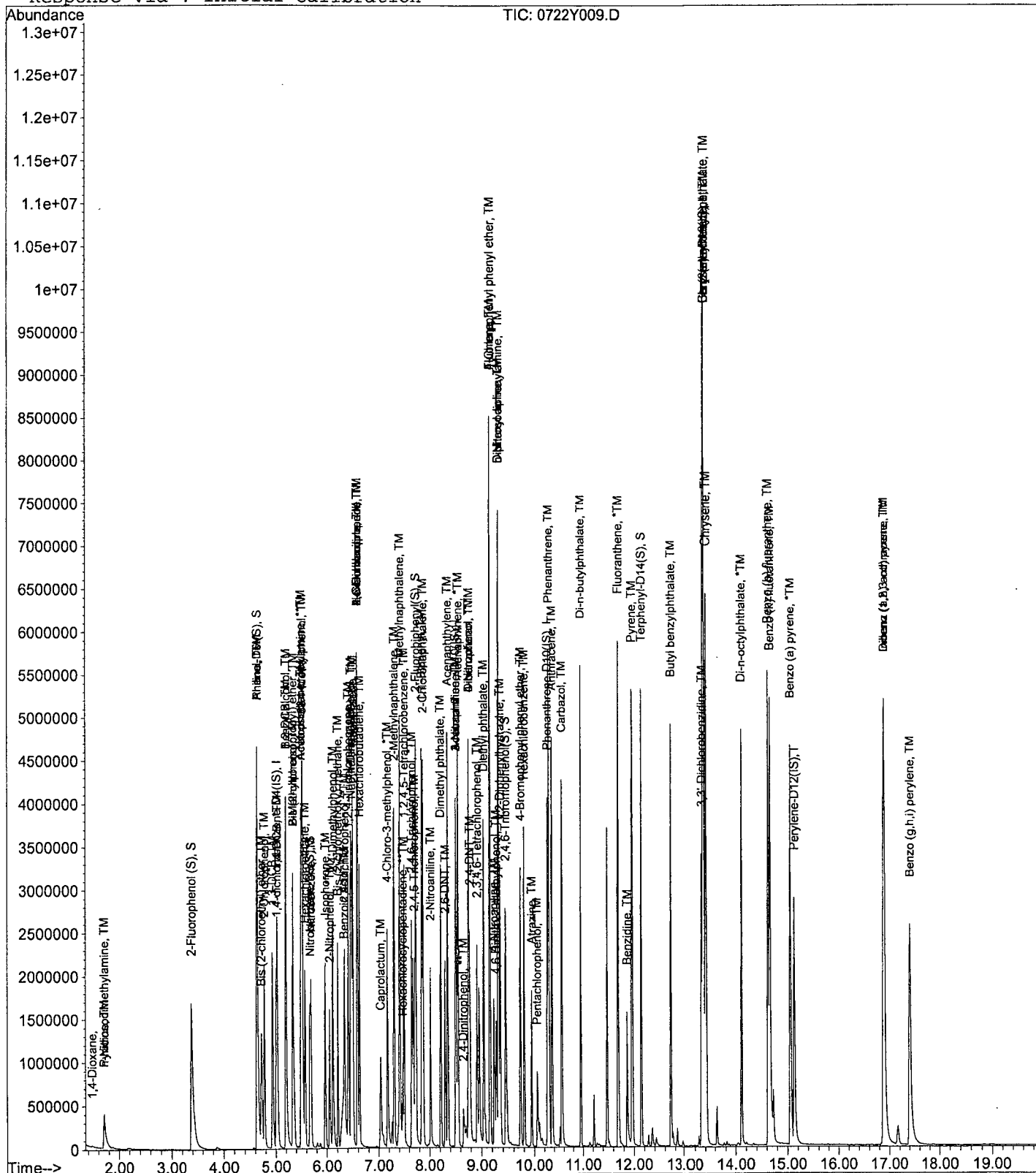
Data File : M:\YODA\DATA\Y190722\0722Y009.D
Acq On : 22 Jul 19 16:49
Sample : 60ug/ml 8270 07/12/19
Misc :

Vial: 9
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 23 8:45 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y010.D Vial: 10
 Acq On : 22 Jul 19 17:17 Operator: MA,SS
 Sample : 80ug/ml 8270 07/12/19 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Jul 23 8:46 2019 Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 17:50:09 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.01	152	422671	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.48	136	1669353	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	905246	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	1837346	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.39	240	1538156	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.14	264	1745092	40.00000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol (S)	3.38	112	2066331	146.98991	ppb	0.00
Spiked Amount 200.000			Recovery =	73.495%		
6) Phenol-D6 (S)	4.63	99	2120145	136.12499	ppb	0.00
Spiked Amount 200.000			Recovery =	68.063%		
22) Nitrobenzene-D5 (S)	5.67	82	923542	70.77873	ppb	0.00
Spiked Amount 100.000			Recovery =	70.779%		
46) 2-Fluorobiphenyl (S)	7.73	172	2251275	70.51067	ppb	0.00
Spiked Amount 100.000			Recovery =	70.511%		
64) 2,4,6-Tribromophenol (S)	9.46	330	730628	152.07906	ppb	0.00
Spiked Amount 200.000			Recovery =	76.040%		
82) Terphenyl-D14 (S)	12.14	244	2799653	72.89144	ppb	0.00
Spiked Amount 100.000			Recovery =	72.891%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.47	58	8554	6.67820		91
3) n-Nitrosodimethylamine	1.69	42	162191	82.53792	ppb	87
4) Pyridine	1.70	79	403533	84.37735	ppb	96
7) Phenol	4.65	94	1387486	69.85551	ppb	84
8) Aniline	4.64	93	1426432	73.85061	ppb	# 96
9) Bis (2-chloroethyl) ether	4.72	63	629192	74.33303	ppb	93
10) 2-Chlorophenol	4.77	128	1182620	75.48069	ppb	99
11) 1,3-DCB	4.94	146	1330066	75.32748	ppb	100
12) 1,4-DCB	5.03	146	1333436	75.22611	ppb	100
13) Benzyl alcohol	5.21	108	672312	76.93627	ppb	95
14) 1,2-DCB	5.20	146	1216306	74.02032	ppb	99
15) 2-Methylphenol	5.34	107	943686	75.20546	ppb	99
16) Bis (2-chloroisopropyl) et	5.33	45	928661	69.09613	ppb	96
17) Acetophenone	5.50	105	1375888	73.75039	ppb	97
18) 3&4-Methylphenol	5.52	107	2151118	143.51527	ppb	96
19) n-Nitrosodi-n-propylamine	5.50	70	667264	72.34755	ppb	99
20) Hexachloroethane	5.58	117	446102	74.39339	ppb	100
23) Nitrobenzene	5.69	77	1033417	75.27100	ppb	97
24) Isophorone	5.97	82	1864699	77.32981	ppb	99
25) 2-Nitrophenol	6.05	139	711440	82.41463	ppb	98
26) 2,4-Dimethylphenol	6.12	122	1036273	76.90910	ppb	98
27) Benzoic acid	6.34	105	663728	80.71664	ppb	98
28) Bis (2-chloroethoxy) metha	6.22	93	1187960	74.87666	ppb	97
29) 2,4-Dichlorophenol	6.34	162	989795	77.42557	ppb	99
30) 1,2,4-Trichlorobenzene	6.41	180	1081322	76.44216	ppb	99
31) 3,4-Dimethylphenol	6.46	107	1306929	75.13868	ppb	98
32) Naphthalene	6.51	128	3204627	73.84697	ppb	99
33) 4-Chloroaniline	6.59	127	1124848	68.68776	ppb	96
34) 2,6-Dichlorophenol	6.59	162	873852	71.34942	ppb	98
35) Hexachloropropene	6.59	213	622217	77.34861	ppb	99
36) Hexachlorobutadiene	6.63	225	598302	77.18330	ppb	99
37) Caprolactum	7.05	55	400377	79.22139	ppb	99

Data File : M:\YODA\DATA\Y190722\0722Y010.D
 Acq On : 22 Jul 19 17:17
 Sample : 80ug/ml 8270 07/12/19
 Misc :

Vial: 10
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:46 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 17:50:09 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	980242	78.62503	ppb	92
39) 2-Methylnaphthalene	7.30	142	2160923	74.31757	ppb	99
40) 1-Methylnaphthalene	7.42	142	2210853	73.48526	ppb	99
42) Hexachlorocyclopentadiene	7.47	237	279754	82.81229	ppb	100
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	1065201	76.30187	ppb	99
44) 2,4,6-Trichlorophenol	7.66	196	696744	80.10084	ppb	99
45) 2,4,5-Trichlorophenol	7.71	196	731505	79.10127	ppb	99
47) 1,1'-Biphenyl	7.85	154	2771620	72.56990	ppb	98
48) 2-Chloronaphthalene	7.88	162	2170777	74.02629	ppb	97
49) 2-Nitroaniline	8.02	65	550085	77.24621	ppb	91
50) Dimethyl phthalate	8.22	163	2601608	76.30355	ppb	99
51) 2,6-DNT	8.31	165	651434	80.34710	ppb	87
52) Acenaphthylene	8.35	152	3415852	74.51654	ppb	100
53) 3-Nitroaniline	8.51	138	657807	77.55445	ppb	93
54) Acenaphthene	8.56	154	2112619	72.61464	ppb	100
55) 2,4-Dinitrophenol	8.66	184	358399m	105.36927	ppb	97
56) 4-Nitrophenol	8.75	65	290526	78.78486	ppb	94
57) Dibenzofuran	8.76	168	3130346	74.00607	ppb	95
58) 2,4-DNT	8.79	165	868084	80.28114	ppb	89
59) 2,3,4,6-Tetrachlorophenol	8.92	232	596505	84.18512	ppb	98
60) Diethyl phthalate	9.05	149	2398508	74.55840	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.16	204	1212449	70.99473	ppb	96
62) Fluorene	9.17	166	2322746	70.29886	ppb	98
63) 4-Nitroaniline	9.25	138	642323	79.55641	ppb	100
66) 4,6-Dinitro-2-methylphenol	9.28	198	573201	88.99629	ppb	98
67) Diphenyl amine	9.32	169	3722897	138.64184	ppb	100
68) n-Nitrosodiphenylamine	9.32	169	3722897	138.64184	ppb	100
69) 1,2-Diphenylhydrazine	9.36	77	2320560	74.95643	ppb	# 89
70) 4-Bromophenyl phenyl ether	9.74	248	804711	76.13385	ppb	95
71) Hexachlorobenzene	9.81	284	847147	77.57710	ppb	# 86
72) Atrazine	9.95	200	386725	39.34956	ppb	96
73) Pentachlorophenol	10.06	266	307047	91.51224	ppb	97
74) Phenanthrene	10.29	178	3658631	71.50259	ppb	100
75) Anthracene	10.36	178	3780700	71.82454	ppb	99
76) Carbazol	10.56	167	3553229	72.57597	ppb	98
77) Di-n-butylphthalate	10.95	149	4087803	74.14917	ppb	99
78) Fluoranthene	11.70	202	4058534	72.53278	ppb	98
80) Benzidine	11.87	184	1144628	90.77728	ppb	100
81) Pyrene	11.97	202	4171708	76.89439	ppb	99
83) Butyl benzylphthalate	12.72	149	1831013	80.18500	ppb	93
84) 3,3'-Dichlorobenzidine	13.35	252	1258051	80.93991	ppb	# 98
85) Benz (a) anthracene	13.38	228	3740129	74.00832	ppb	100
86) Bis (2-ethylhexyl) phthala	13.38	149	2063704	71.62398	ppb	99
87) Chrysene	13.41	228	3770245	76.35309	ppb	99
88) Di-n-octylphthalate	14.11	149	4235223	80.94007	ppb	98
90) Benzo (b) fluoranthene	14.63	252	4354959	81.71693	ppb	98
91) Benzo (k) fluoranthene	14.67	252	3680501	70.55089	ppb	98
92) Benzo (a) pyrene	15.07	252	3864242	78.12166	ppb	98
93) Indeno (1,2,3-cd) pyrene	16.89	276	4483596	79.28853	ppb	99
94) Dibenz (a,h) anthracene	16.91	278	3879445	79.55640	ppb	98
95) Benzo (g,h,i) perylene	17.41	276	3578990	80.76459	ppb	99

Quantitation Report

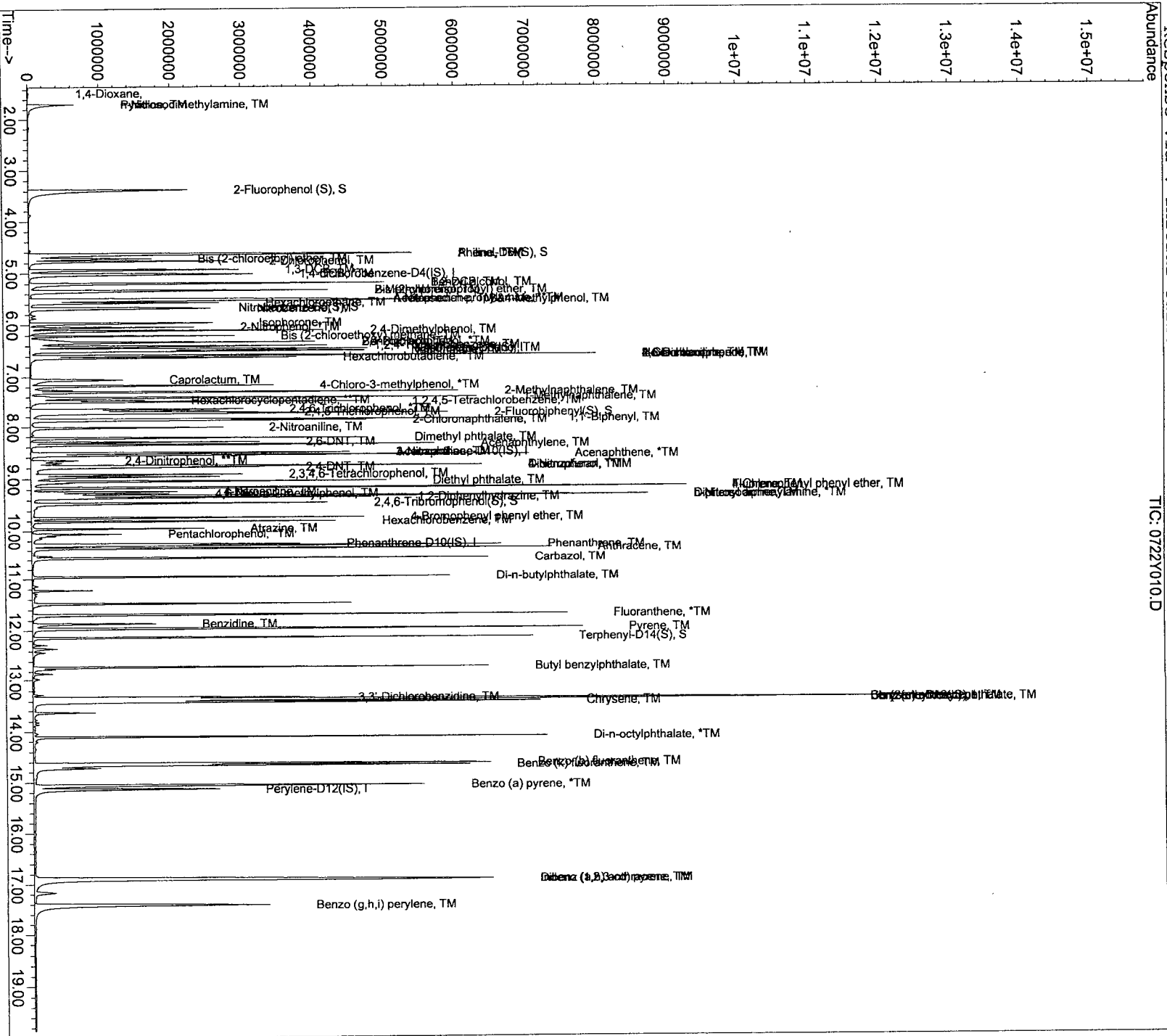
Data File : M:\YODA\DATA\Y190722\0722Y010.D
Acq On : 22 Jul 19 17:17
Sample : 80ug/ml 8270 07/12/19
Misc :

Vial: 10
Operator: MA,SS
Inst: Yoda
Multiplier: 1.00

Quant time: Jul 23 8:46 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
File : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y011.D
 Acq On : 22 Jul 19 17:45
 Sample : 100ug/ml 8270 07/12/19
 Misc :

Vial: 11
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:47 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 17:50:09 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.01	152	462838	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.48	136	1798921	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	994363	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.27	188	2065221	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.39	240	1675670	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.15	264	1951293	40.00000	ppb	0.02
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.39	112	2801865	182.01547	ppb	0.00
Spiked Amount	200.000		Recovery	=	91.007%	
6) Phenol-D6 (S)	4.64	99	2757691	161.69305	ppb	0.00
Spiked Amount	200.000		Recovery	=	80.847%	
22) Nitrobenzene-D5 (S)	5.68	82	1250807	88.95543	ppb	0.00
Spiked Amount	100.000		Recovery	=	88.955%	
46) 2-Fluorobiphenyl (S)	7.74	172	2941483	83.87147	ppb	0.00
Spiked Amount	100.000		Recovery	=	83.871%	
64) 2,4,6-Tribromophenol (S)	9.47	330	1021627	193.59187	ppb	0.00
Spiked Amount	200.000		Recovery	=	96.796%	
82) Terphenyl-D14 (S)	12.15	244	3714695	88.77841	ppb	0.00
Spiked Amount	100.000		Recovery	=	88.778%	
Target Compounds						
2) 1,4-Dioxane	1.47	58	12433	8.86420		Qvalue 75
3) n-Nitrosodimethylamine	1.70	42	217647	101.14698	ppb	100
4) Pyridine	1.71	79	540705	103.24777	ppb	98
7) Phenol	4.66	94	1836616	84.44304	ppb	80
8) Aniline	4.64	93	1870543	88.43907	ppb #	79
9) Bis (2-chloroethyl) ether	4.73	63	841111	90.74557	ppb	92
10) 2-Chlorophenol	4.78	128	1615119	94.13878	ppb	98
11) 1,3-DCB	4.94	146	1768812	91.48194	ppb	98
12) 1,4-DCB	5.03	146	1768858	91.13031	ppb	99
13) Benzyl alcohol	5.21	108	913145	95.42748	ppb	99
14) 1,2-DCB	5.20	146	1617682	89.90311	ppb	98
15) 2-Methylphenol	5.34	107	1263329	91.94154	ppb	98
16) Bis (2-chloroisopropyl) et	5.34	45	1229980	83.57339	ppb #	82
17) Acetophenone	5.50	105	1858400	90.96910	ppb	99
18) 3&4-Methylphenol	5.53	107	2817041	171.63288	ppb	97
19) n-Nitrosodi-n-propylamine	5.51	70	728509	72.13308	ppb	99
20) Hexachloroethane	5.58	117	589503	89.77587	ppb	92
23) Nitrobenzene	5.70	77	1400860	94.68538	ppb	100
24) Isophorone	5.99	82	2561188	98.56342	ppb	94
25) 2-Nitrophenol	6.06	139	974060	104.70992	ppb	95
26) 2,4-Dimethylphenol	6.12	122	1392839	95.92694	ppb	99
27) Benzoic acid	6.36	105	976965	110.25239	ppb	97
28) Bis (2-chloroethoxy) metha	6.22	93	1593579	93.20825	ppb	99
29) 2,4-Dichlorophenol	6.35	162	1337451	97.08522	ppb	98
30) 1,2,4-Trichlorobenzene	6.42	180	1430027	93.81196	ppb	99
31) 3,4-Dimethylphenol	6.47	107	1720490	91.79094	ppb	100
32) Napthalene	6.51	128	4201904	89.85400	ppb	100
33) 4-Chloroaniline	6.60	127	1358084	76.95702	ppb	94
34) 2,6-Dichlorophenol	6.59	162	1137395	86.17871	ppb	97
35) Hexachloropropene	6.59	213	822198	94.84691	ppb	97
36) Hexachlorobutadiene	6.64	225	799165	95.66992	ppb	99
37) Caprolactum	7.08	55	546327	100.31412	ppb	95

(#) = qualifier out of range (m) = manual integration
 0722Y011.D Y0722NC.M Tue Jul 23 09:13:01 2019

Data File : M:\YODA\DATA\Y190722\0722Y011.D
 Acq On : 22 Jul 19 17:45
 Sample : 100ug/ml 8270 07/12/19
 Misc :

Vial: 11
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:47 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Jul 22 17:50:09 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.18	107	1332114	99.15280	ppb	93
39) 2-Methylnaphthalene	7.30	142	2876492	91.80186	ppb	99
40) 1-Methylnaphthalene	7.42	142	2929016	90.34376	ppb	100
42) Hexachlorocyclopentadiene	7.48	237	463958	107.91561	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.51	216	1439079	93.84473	ppb	99
44) 2,4,6-Trichlorophenol	7.66	196	951976	99.63490	ppb	100
45) 2,4,5-Trichlorophenol	7.72	196	999274	98.37221	ppb	99
47) 1,1'-Biphenyl	7.86	154	3638478	86.72899	ppb	99
48) 2-Chloronaphthalene	7.88	162	2892828	89.80801	ppb	99
49) 2-Nitroaniline	8.03	65	744695	95.20230	ppb	95
50) Dimethyl phthalate	8.23	163	3509158	93.69739	ppb	99
51) 2,6-DNT	8.32	165	892658	100.23204	ppb	91
52) Acenaphthylene	8.36	152	4516447	89.69583	ppb	99
53) 3-Nitroaniline	8.52	138	881092	94.56951	ppb	90
54) Acenaphthene	8.57	154	2789731	87.29452	ppb	100
55) 2,4-Dinitrophenol	8.66	184	543188m	145.38480	ppb	94
56) 4-Nitrophenol	8.76	65	413874	102.17568	ppb	92
57) Dibenzofuran	8.77	168	4115204	88.57028	ppb	96
58) 2,4-DNT	8.80	165	1202620	101.25159	ppb	84
59) 2,3,4,6-Tetrachlorophenol	8.93	232	830315	106.68068	ppb	98
60) Diethyl phthalate	9.06	149	3282647	92.89690	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.17	204	1595502	85.05144	ppb	100
62) Fluorene	9.17	166	3026835	83.39826	ppb	99
63) 4-Nitroaniline	9.26	138	887397	100.06019	ppb	99
66) 4,6-Dinitro-2-methylphenol	9.29	198	801387	110.69594	ppb	96
67) Diphenyl amine	9.34	169	4916676	162.89558	ppb	98
68) n-Nitrosodiphenylamine	9.34	169	4916676	162.89558	ppb	98
69) 1,2-Diphenylhydrazine	9.36	77	3086544	88.69783	ppb	# 83
70) 4-Bromophenyl phenyl ether	9.75	248	1123231	94.54343	ppb	99
71) Hexachlorobenzene	9.82	284	1164684	94.88712	ppb	# 84
72) Atrazine	9.96	200	533051	48.25372	ppb	96
73) Pentachlorophenol	10.07	266	464788	123.24056	ppb	100
74) Phenanthrene	10.30	178	4904500	85.27511	ppb	100
75) Anthracene	10.37	178	5026536	84.95596	ppb	99
76) Carbazol	10.57	167	4745182	86.22773	ppb	98
77) Di-n-butylphthalate	10.96	149	5359696	86.49299	ppb	99
78) Fluoranthene	11.70	202	5373587	85.43854	ppb	98
80) Benzidine	11.87	184	1601348	116.57634	ppb	# 97
81) Pyrene	11.97	202	5475195	92.63866	ppb	99
83) Butyl benzylphthalate	12.73	149	2454618	98.67281	ppb	98
84) 3,3'-Dichlorobenzidine	13.36	252	1698474	100.30793	ppb	# 97
85) Benz (a) anthracene	13.37	228	4885979	88.74776	ppb	99
86) Bis (2-ethylhexyl) phthala	13.38	149	2612510	83.23020	ppb	98
87) Chrysene	13.43	228	5036880	93.63334	ppb	99
88) Di-n-octylphthalate	14.12	149	5643837	99.00877	ppb	98
90) Benzo (b) fluoranthene	14.64	252	5944100	99.74931	ppb	99
91) Benzo (k) fluoranthene	14.67	252	4860324	83.32141	ppb	98
92) Benzo (a) pyrene	15.07	252	5246564	94.85887	ppb	98
93) Indeno (1,2,3-cd) pyrene	16.91	276	6095397	96.40104	ppb	99
94) Dibenz (a,h) anthracene	16.93	278	5279293	96.82269	ppb	98
95) Benzo (g,h,i) perylene	17.43	276	4963616	100.17389	ppb	99

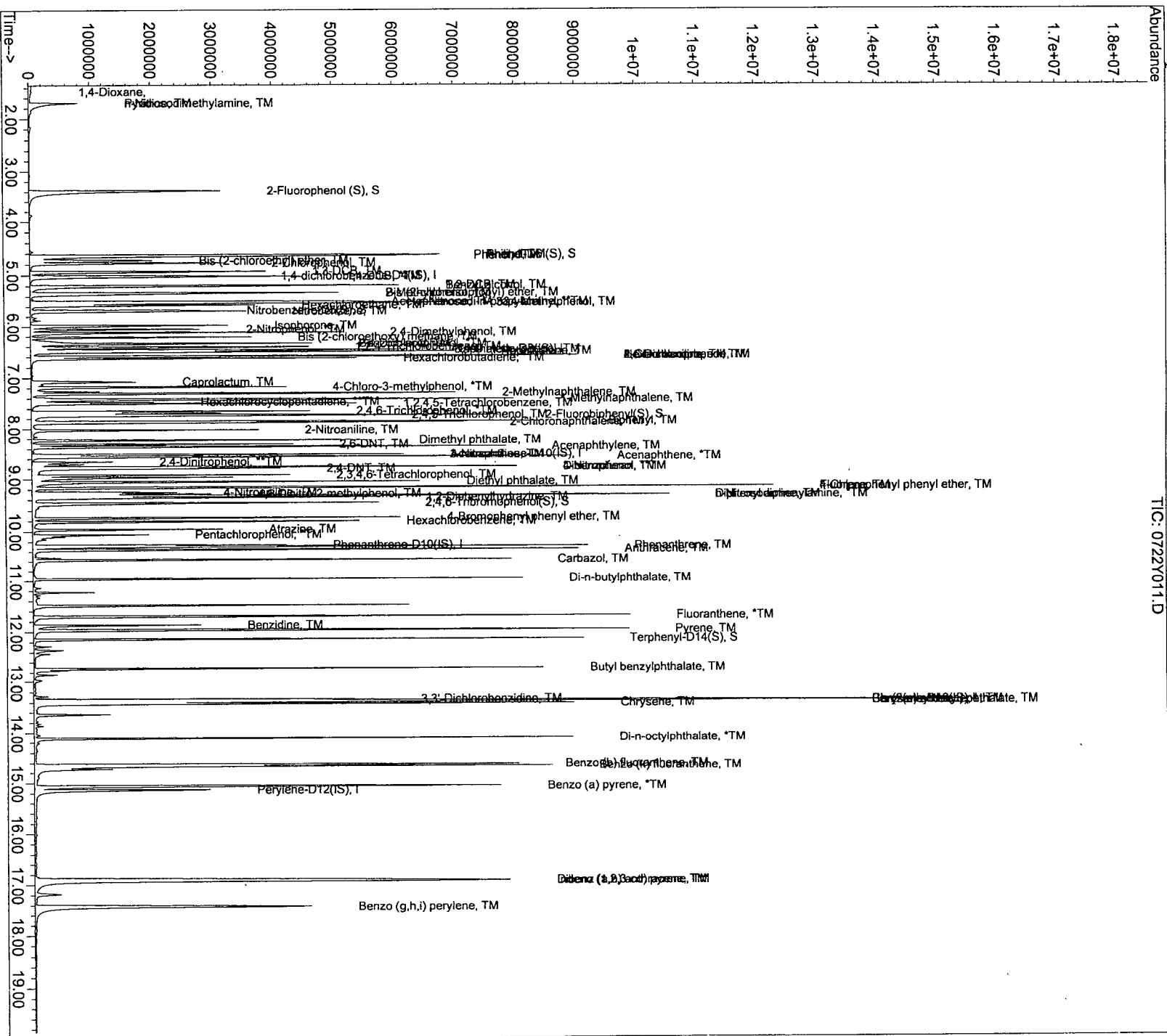
Data File : M:\YODA\DATA\Y190722\0722Y011.D
Acq On : 22 Jul 19 17:45
Sample : 100ug/ml 8270 07/12/19
Misc :

Vial: 11
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Jul 23 8:47 2019

Quant Results File: Y07222NC.RES

Method : M:\YODA\DATA\Y190722\Y07222NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/22/19
Instrument: Yoda
Initial Cal. Date: 07/22/19
Data File: 0722Y012.D

		Compound	MEAN	CCRF	%D	%Drift
1		1,4-Dioxane	0.1026	0.1187	16	
2	TM	n-Nitrosodimethylamine	0.1822	0.1783	2.1	TM
3	TM	Pyridine	0.4491	0.4549	1.3	TM
4	*TM	Phenol	1.834	1.787	2.6	*TM
5	TM	Aniline	1.792	1.766	1.5	TM
6	TM	Bis (2-chloroethyl) ether	0.7838	0.7329	6.5	TM
7	TM	2-Chlorophenol	1.476	1.411	4.4	TM
8	TM	1,3-DCB	1.664	1.602	3.7	TM
9	*TM	1,4-DCB	1.669	1.609	3.6	*TM
10	TM	Benzyl alcohol	0.8153	0.7742	5.0	TM
11	TM	1,2-DCB	1.541	1.489	3.4	TM
12	TM	2-Methylphenol	1.170	1.104	5.7	TM
13	TM	Bis (2-chloroisopropyl) ether	1.229	1.132	7.9	TM
14	TM	Acetophenone	1.734	1.642	5.3	TM
15	TM	3&4-Methylphenol	1.388	1.338	3.6	TM
16	**TM	n-Nitrosodi-n-propylamine	0.8309	0.8000	3.7	**TM
17	TM	Hexachloroethane	0.5589	0.5299	5.2	TM
18	TM	Nitrobenzene	0.3264	0.3093	5.2	TM
19	TM	Isophorone	0.5763	0.5510	4.4	TM
20	*TM	2-Nitrophenol	0.2084	0.2022	3.0	*TM
21	TM	2,4-Dimethylphenol	0.3230	0.3049	5.6	TM
22	TM	Benzoic acid	0.2059	0.2204	7.0	TM
23	TM	Bis (2-chloroethoxy) methane	0.3785	0.3473	8.2	TM
24	*TM	2,4-Dichlorophenol	0.3080	0.2921	5.2	*TM
25	TM	1,2,4-Trichlorobenzene	0.3410	0.3179	6.8	TM
26	TM	3,4-Dimethylphenol	0.4139	0.3814	7.9	TM
27	TM	Naphthalene	1.039	0.9689	6.7	TM
28	TM	4-Chloroaniline	0.3876	0.3645	6.0	TM
29	TM	2,6-Dichlorophenol	0.2912	0.2685	7.8	TM
30	TM	Hexachloropropene	0.1918	0.1871	2.5	TM
31	*TM	Hexachlorobutadiene	0.1873	0.1766	5.7	*TM
32	TM	Caprolactum	0.1198	0.1123	6.3	TM
33	*TM	4-Chloro-3-methylphenol	0.2988	0.2816	5.8	*TM
34	TM	2-Methylnaphthalene	0.6972	0.6480	7.0	TM
35	TM	1-Methylnaphthalene	0.7198	0.6567	8.8	TM
36	**TMQ	Hexachlorocyclopentadiene	0.1159	0.1025	12	**TMQ 1.2
37	TM	1,2,4,5-Tetrachlorobenzene	0.6219	0.5683	8.6	TM
38	*TM	2,4,6-Trichlorophenol	0.3871	0.3643	5.9	*TM
39	TM	2,4,5-Trichlorophenol	0.4107	0.3840	6.5	TM
40	TM	1,1'-Biphenyl	1.681	1.532	8.9	TM
Average					5.8	

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 07/22/19
Instrument: Yoda
Cal. Date: 07/22/19
Data File: 0722Y012.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	2-Chloronaphthalene	1.294	1.222	5.6	TM
42	TM	2-Nitroaniline	0.3096	0.2944	4.9	TM
43	TM	Dimethyl phthalate	1.508	1.381	8.4	TM
44	TM	2,6-DNT	0.3603	0.3483	3.3	TM
45	TM	Acenaphthylene	2.021	1.901	6.0	TM
46	TM	3-Nitroaniline	0.3743	0.3600	3.8	TM
47	*TM	Acenaphthene	1.280	1.177	8.0	*TM
48	**TML	2,4-Dinitrophenol	0.1738	0.1616	7.0	**TML 6.8
49	**TM	4-Nitrophenol	0.1595	0.1551	2.8	**TM
50	TM	Dibenzofuran	1.865	1.708	8.4	TM
51	TM	2,4-DNT	0.4806	0.4686	2.5	TM
52	TM	2,3,4,6-Tetrachlorophenol	0.3190	0.3176	0.44	TM
53	TM	Diethyl phthalate	1.419	1.301	8.4	TM
54	TM	4-Chlorophenyl phenyl ether	0.7497	0.6828	8.9	TM
55	TM	Fluorene	1.447	1.338	7.6	TM
56	TM	4-Nitroaniline	0.3596	0.3331	7.3	TM
57	TM	4,6-Dinitro-2-methylphenol	0.1469	0.1431	2.6	TM
58	TM	Diphenyl amine	0.5749	0.5329	7.3	TM
59	*TM	n-Nitrosodiphenylamine	0.5749	0.5329	7.3	*TM
60	TM	1,2-Diphenylhydrazine	0.6498	0.6635	2.1	TM
61	TM	4-Bromophenyl phenyl ether	0.2297	0.2121	7.7	TM
62	TM	Hexachlorobenzene	0.2387	0.2309	3.3	TM
63	TM	Atrazine	0.2137	0.2028	5.1	TM
64	*TM	Pentachlorophenol	0.0772	0.0724	6.3	*TM
65	TM	Phenanthrene	1.102	1.044	5.3	TM
66	TM	Anthracene	1.132	1.049	7.4	TM
67	TM	Carbazol	1.052	0.9902	5.9	TM
68	TM	Di-n-butylphthalate	1.181	1.128	4.4	TM
69	*TM	Fluoranthene	1.207	1.152	4.6	*TM
70	TM	Benzidine	0.3585	0.4215	18	TM
71	TM	Pyrene	1.414	1.323	6.4	TM
72	TM	Butyl benzylphthalate	0.5899	0.5689	3.6	TM
73	TM	3,3'-Dichlorobenzidine	0.4083	0.4447	8.9	TM
74	TM	Benz (a) anthracene	1.302	1.197	8.1	TM
75	TM	Bis (2-ethylhexyl) phthalate	0.7295	0.6984	4.3	TM
76	TM	Chrysene	1.285	1.225	4.7	TM
77	*TM	Di-n-octylphthalate	1.345	1.322	1.8	*TM
78	TM	Benzo (b) fluoranthene	1.211	1.168	3.6	TM
79	TM	Benzo (k) fluoranthene	1.200	1.158	3.5	TM
80	*TM	Benzo (a) pyrene	1.135	1.093	3.7	*TM

Average

5.7

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 07/22/19

Matrix: 0

Instrument: Yoda

Cal. Date: 07/22/19

Data File: 0722Y012.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Indeno (1,2,3-cd) pyrene	1.300	1.261	3.0	TM
82	TM	Dibenz (a,h) anthracene	1.119	1.096	2.1	TM
83	TM	Benzo (g,h,i) perylene	1.026	0.9709	5.4	TM
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119						
120						

Average

3.5

Data File : M:\YODA\DATA\Y190722\0722Y012.D
 Acq On : 22 Jul 19 18:13
 Sample : SS 8270 07/12/19
 Misc :

Vial: 12
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:51 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.01	152	400759	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.48	136	1606893	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.52	164	873084	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.26	188	1720103	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.38	240	1524774	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.14	264	1641605	40.00000	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	0.00	112	0	0.00000	ppb	
Spiked Amount	200.000		Recovery	=	0.000%	
6) Phenol-D6 (S)	0.00	99	0	0.00000	ppb	
Spiked Amount	200.000		Recovery	=	0.000%	
22) Nitrobenzene-D5 (S)	5.58	82	51484	4.12079	ppb	-0.09
Spiked Amount	100.000		Recovery	=	4.121%	
46) 2-Fluorobiphenyl (S)	7.73	172	1647	0.05373	ppb	0.00
Spiked Amount	100.000		Recovery	=	0.054%	
64) 2,4,6-Tribromophenol (S)	9.47	330	581	0.12348	ppb	0.02
Spiked Amount	200.000		Recovery	=	0.062%	
82) Terphenyl-D14 (S)	12.15	244	3446	0.09011	ppb	0.00
Spiked Amount	100.000		Recovery	=	0.090%	
Target Compounds						
2) 1,4-Dioxane	1.48	58	5945	5.78574		Qvalue 66
3) n-Nitrosodimethylamine	1.70	42	89331	48.93887	ppb	98
4) Pyridine	1.70	79	227893	50.64892	ppb	99
7) Phenol	4.65	94	895203	48.70855	ppb	86
8) Aniline	4.64	93	884610	49.27417	ppb #	87
9) Bis (2-chloroethyl) ether	4.71	63	367166	46.75600	ppb	97
10) 2-Chlorophenol	4.78	128	707024	47.81847	ppb	98
11) 1,3-DCB	4.94	146	802470	48.13171	ppb	99
12) 1,4-DCB	5.03	146	805820	48.19554	ppb	100
13) Benzyl alcohol	5.20	108	387858	47.48240	ppb	96
14) 1,2-DCB	5.20	146	745839	48.30130	ppb	99
15) 2-Methylphenol	5.33	107	552983	47.16001	ppb	98
16) Bis (2-chloroisopropyl) et	5.33	45	567166	46.06069	ppb #	73
17) Acetophenone	5.49	105	822363	47.32797	ppb	99
18) 3&4-Methylphenol	5.52	107	1340449	96.39021	ppb	99
19) n-Nitrosodi-n-propylamine	5.49	70	400775	48.14100	ppb	99
20) Hexachloroethane	5.58	117	265451	47.40694	ppb	97
23) Nitrobenzene	5.69	77	621234	47.38159	ppb	97
24) Isophorone	5.97	82	1106827	47.81098	ppb	93
25) 2-Nitrophenol	6.05	139	406118	48.50955	ppb	94
26) 2,4-Dimethylphenol	6.11	122	612378	47.20043	ppb	100
27) Benzoic acid	6.31	105	442622	53.50978	ppb	97
28) Bis (2-chloroethoxy) metha	6.22	93	697630	45.87849	ppb	98
29) 2,4-Dichlorophenol	6.34	162	586634	47.41683	ppb	98
30) 1,2,4-Trichlorobenzene	6.41	180	638582	46.61372	ppb	98
31) 3,4-Dimethylphenol	6.46	107	766042	46.07320	ppb	98
32) Napthalene	6.50	128	1946116	46.64261	ppb	99
33) 4-Chloroaniline	6.59	127	732101	47.01205	ppb	95
34) 2,6-Dichlorophenol	6.59	162	539232	46.09079	ppb	98
35) Hexachloropropene	6.59	213	375869	48.77062	ppb	98
36) Hexachlorobutadiene	6.62	225	354790	47.16110	ppb	100
37) Caprolactum	7.02	55	225543	46.84997	ppb	99

Data File : M:\YODA\DATA\Y190722\0722Y012.D
 Acq On : 22 Jul 19 18:13
 Sample : SS 8270 07/12/19
 Misc :

Vial: 12
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:51 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	565579	47.11704	ppb	89
39) 2-Methylnaphthalene	7.30	142	1301674	46.47777	ppb	99
40) 1-Methylnaphthalene	7.41	142	1319004	45.61343	ppb	99
42) Hexachlorocyclopentadiene	7.47	237	111916	49.38448	ppb	100
43) 1,2,4,5-Tetrachlorobenzene	7.50	216	620199	45.68722	ppb	98
44) 2,4,6-Trichlorophenol	7.66	196	397569	47.05919	ppb	98
45) 2,4,5-Trichlorophenol	7.71	196	419125	46.74915	ppb	99
47) 1,1'-Biphenyl	7.85	154	1671676	45.57011	ppb	99
48) 2-Chloronaphthalene	7.88	162	1333244	47.18645	ppb	97
49) 2-Nitroaniline	8.02	65	321291	47.53884	ppb	88
50) Dimethyl phthalate	8.22	163	1507514	45.80835	ppb	99
51) 2,6-DNT	8.31	165	380110	48.33379	ppb	88
52) Acenaphthylene	8.35	152	2074200	47.01785	ppb	100
53) 3-Nitroaniline	8.51	138	392837	48.07868	ppb	90
54) Acenaphthene	8.56	154	1284740	45.99698	ppb	99
55) 2,4-Dinitrophenol	8.66	184	176322m	46.61220	ppb	91
56) 4-Nitrophenol	8.76	65	169223	48.59429	ppb	97
57) Dibenzofuran	8.76	168	1864363	45.80467	ppb	96
58) 2,4-DNT	8.79	165	511462	48.75236	ppb	87
59) 2,3,4,6-Tetrachlorophenol	8.93	232	346621	49.77939	ppb	96
60) Diethyl phthalate	9.05	149	1419515	45.82227	ppb	96
61) 4-Chlorophenyl phenyl ethe	9.16	204	745214	45.54304	ppb	94
62) Fluorene	9.17	166	1459708	46.20465	ppb	98
63) 4-Nitroaniline	9.23	138	363577	46.32704	ppb	96
66) 4,6-Dinitro-2-methylphenol	9.27	198	307695	48.70687	ppb	93
67) Diphenyl amine	9.32	169	2291433	92.68835	ppb	99
68) n-Nitrosodiphenylamine	9.32	169	2291433	92.68835	ppb	99
69) 1,2-Diphenylhydrazine	9.35	77	1426711	51.05555	ppb	91
70) 4-Bromophenyl phenyl ether	9.73	248	456026	46.16052	ppb	93
71) Hexachlorobenzene	9.81	284	496373	48.35974	ppb	# 87
72) Atrazine	9.95	200	218048	23.72858	ppb	98
73) Pentachlorophenol	10.06	266	155617	46.85052	ppb	98
74) Phenanthrene	10.29	178	2244381	47.34255	ppb	100
75) Anthracene	10.36	178	2255263	46.31009	ppb	100
76) Carbazol	10.56	167	2129002	47.04663	ppb	98
77) Di-n-butylphthalate	10.96	149	2425520	47.77655	ppb	99
78) Fluoranthene	11.69	202	2477572	47.72253	ppb	97
80) Benzidine	11.87	184	803378	58.78756	ppb	99
81) Pyrene	11.96	202	2521631	46.79629	ppb	100
83) Butyl benzylphthalate	12.71	149	1084346	48.22370	ppb	90
84) 3,3'-Dichlorobenzidine	13.35	252	847524	54.45254	ppb	99
85) Benz (a) anthracene	13.37	228	2281534	45.95399	ppb	99
86) Bis (2-ethylhexyl) phthala	13.37	149	1331051	47.86706	ppb	# 95
87) Chrysene	13.42	228	2334506	47.65919	ppb	100
88) Di-n-octylphthalate	14.11	149	2519215	49.12065	ppb	# 95
90) Benzo (b) fluoranthene	14.63	252	2396061	48.19985	ppb	99
91) Benzo (k) fluoranthene	14.66	252	2375891	48.23090	ppb	99
92) Benzo (a) pyrene	15.06	252	2241812	48.13736	ppb	100
93) Indeno (1,2,3-cd) pyrene	16.89	276	2587882	48.48869	ppb	100
94) Dibenz (a,h) anthracene	16.90	278	2248596	48.96689	ppb	99
95) Benzo (g,h,i) perylene	17.41	276	1992268	47.30672	ppb	98

Quantitation Report

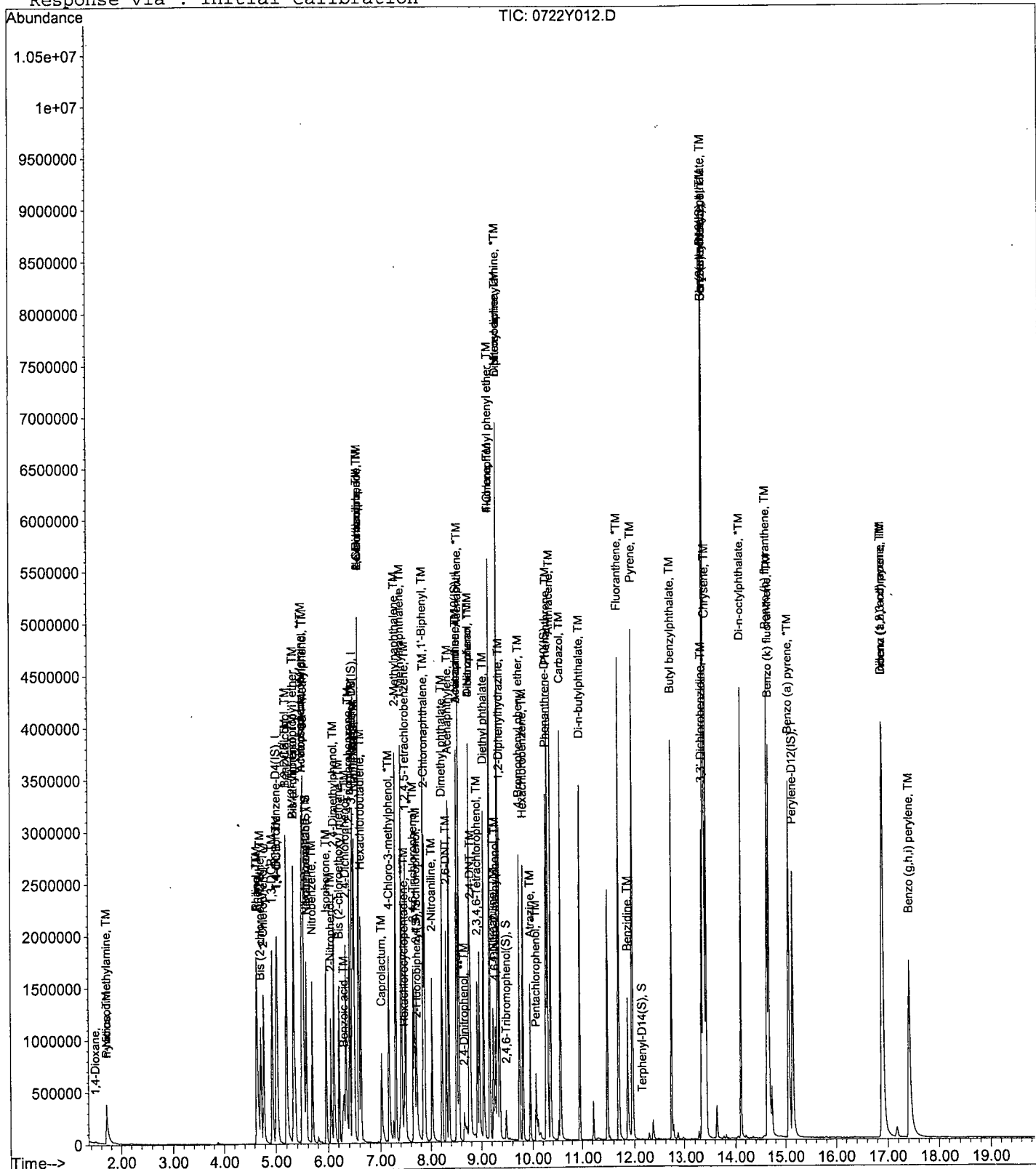
Data File : M:\YODA\DATA\Y190722\0722Y012.D
 Acq On : 22 Jul 19 18:13
 Sample : SS 8270 07/12/19
 Misc :

Vial: 12
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Jul 23 8:51 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration



Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 1 Aug 19 10:00
Instrument: Yoda
Initial Cal. Date: 07/22/19
Data File: 0722Y155.D

	Compound	MEAN	CCRF	%D	%Drift
1 I	1,4-dichlorobenzene-D4(IS)	ISTD			I
2	1,4-Dioxane	0.1026	0.2006	96	
3 TM	n-Nitrosodimethylamine	0.1822	0.2204	21	TM
4 TM	Pyridine	0.4491	0.6328	41	TM
5 S	2-Fluorophenol (S)	1.326	1.261	4.9	S
6 S	Phenol-D6 (S)	1.394	1.328	4.7	S
7 *TM	Phenol	1.834	1.739	5.2	*TM
8 TM	Aniline	1.792	1.637	8.7	TM
9 TM	Bis (2-chloroethyl) ether	0.7838	0.6761	14	TM
10 TM	2-Chlorophenol	1.476	1.449	1.8	TM
11 TM	1,3-DCB	1.664	1.622	2.5	TM
12 *TM	1,4-DCB	1.669	1.624	2.7	*TM
13 TM	Benzyl alcohol	0.8153	0.8144	0.11	TM
14 TM	1,2-DCB	1.541	1.512	1.9	TM
15 TM	2-Methylphenol	1.170	1.138	2.8	TM
16 TM	Bis (2-chloroisopropyl) ether	1.229	0.9831	20	TM
17 TM	Acetophenone	1.734	1.695	2.3	TM
18 TM	3&4-Methylphenol	1.388	1.365	1.7	TM
19 **TM	n-Nitrosodi-n-propylamine	0.8309	0.7874	5.2	**TM
20 TM	Hexachloroethane	0.5589	0.5307	5.0	TM
21 I	Napthalene-D8(IS)	ISTD			I
22 S	Nitrobenzene-D5(S)	0.3110	0.2813	9.5	S
23 TM	Nitrobenzene	0.3264	0.2997	8.2	TM
24 TM	Isophorone	0.5763	0.5491	4.7	TM
25 *TM	2-Nitrophenol	0.2084	0.2220	6.5	*TM
26 TM	2,4-Dimethylphenol	0.3230	0.3245	0.47	TM
27 TM	Benzoic acid	0.2059	0.2050	0.43	TM
28 TM	Bis (2-chloroethoxy) methane	0.3785	0.3607	4.7	TM
29 *TM	2,4-Dichlorophenol	0.3080	0.3155	2.5	*TM
30 TM	1,2,4-Trichlorobenzene	0.3410	0.3463	1.6	TM
31 TM	3,4-Dimethylphenol	0.4139	0.4200	1.5	TM
32 TM	Naphthalene	1.039	1.032	0.68	TM
33 TM	4-Chloroaniline	0.3876	0.3853	0.62	TM
34 TM	2,6-Dichlorophenol	0.2912	0.2954	1.4	TM
35 TM	Hexachloropropene	0.1918	0.2059	7.3	TM
36 *TM	Hexachlorobutadiene	0.1873	0.1978	5.6	*TM
37 TM	Caprolactum	0.1198	0.1078	10	TM
38 *TM	4-Chloro-3-methylphenol	0.2988	0.3078	3.0	*TM
39 TM	2-Methylnapthalene	0.6972	0.7020	0.69	TM
40 TM	1-Methylnapthalene	0.7198	0.7212	0.19	TM
Average					8.2

*NT
*NT
*NT
*NT
*NT

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 1 Aug 19 10:00
Instrument: Yoda
Cal. Date: 07/22/19
Data File: 0722Y155.D

		Compound	MEAN	CCRF	%D	%Drift
41	I	Acenaphthene-D10(IS)	ISTD			I
42	**TMQ	Hexachlorocyclopentadiene	0.1159	0.1101	5.0	**TMQ 2.7
43	TM	1,2,4,5-Tetrachlorobenzene	0.6219	0.6295	1.2	TM
44	*TM	2,4,6-Trichlorophenol	0.3871	0.4056	4.8	*TM
45	TM	2,4,5-Trichlorophenol	0.4107	0.4184	1.9	TM
46	S	2-Fluorobiphenyl(S)	1.404	1.367	2.7	S
47	TM	1,1'-Biphenyl	1.681	1.612	4.1	TM
48	TM	2-Chloronaphthalene	1.294	1.277	1.4	TM
49	TM	2-Nitroaniline	0.3096	0.2871	7.3	TM
50	TM	Dimethyl phthalate	1.508	1.508	0.00	TM
51	TM	2,6-DNT	0.3603	0.3744	3.9	TM
52	TM	Acenaphthylene	2.021	2.002	0.93	TM
53	TM	3-Nitroaniline	0.3743	0.3665	2.1	TM
54	*TM	Acenaphthene	1.280	1.247	2.6	*TM
55	**TML	2,4-Dinitrophenol	0.1738	0.1899	9.3	**TML 4.9
56	**TM	4-Nitrophenol	0.1595	0.1483	7.1	**TM
57	TM	Dibenzofuran	1.865	1.827	2.0	TM
58	TM	2,4-DNT	0.4806	0.5098	6.1	TM
59	TM	2,3,4,6-Tetrachlorophenol	0.3190	0.3493	9.5	TM
60	TM	Diethyl phthalate	1.419	1.417	0.17	TM
61	TM	4-Chlorophenyl phenyl ether	0.7497	0.7574	1.0	TM
62	TM	Fluorene	1.447	1.431	1.2	TM
63	TM	4-Nitroaniline	0.3596	0.3681	2.4	TM
64	S	2,4,6-Tribromophenol(S)	0.2156	0.2543	18	S
65	I	Phenanthrene-D10(IS)	ISTD			I
66	TM	4,6-Dinitro-2-methylphenol	0.1469	0.1601	9.0	TM
67	TM	Diphenyl amine	0.5749	0.5588	2.8	TM
68	*TM	n-Nitrosodiphenylamine	0.5749	0.5588	2.8	*TM
69	TM	1,2-Diphenylhydrazine	0.6498	0.6092	6.2	TM
70	TM	4-Bromophenyl phenyl ether	0.2297	0.2426	5.6	TM
71	TM	Hexachlorobenzene	0.2387	0.2651	11	TM
72	TM	Atrazine	0.2137	0.2035	4.8	TM
73	*TM	Pentachlorophenol	0.0772	0.0947	23	*TM
74	TM	Phenanthrene	1.102	1.063	3.6	TM
75	TM	Anthracene	1.132	1.125	0.70	TM
76	TM	Carbazol	1.052	1.046	0.58	TM
77	TM	Di-n-butylphthalate	1.181	1.182	0.08	TM
78	*TM	Fluoranthene	1.207	1.222	1.2	*TM
79	I	Chrysene-D12(IS)	ISTD			I
80	TM	Benzidine	0.3585	0.2322	35	TM
Average					5.4	

*NT
5/2/19

*NT

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 1 Aug 19 10:00
Instrument: Yoda
Cal. Date: 07/22/19
Data File: 0722Y155.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Pyrene	1.414	1.365	3.4	TM
82	S	Terphenyl-D14(S)	1.003	0.9746	2.9	S
83	TM	Butyl benzylphthalate	0.5899	0.5898	0.01	TM
84	TM	3,3'-Dichlorobenzidine	0.4083	0.4637	14	TM
85	TM	Benz (a) anthracene	1.302	1.271	2.4	TM
86	TM	Bis (2-ethylhexyl) phthalate	0.7295	0.7301	0.09	TM
87	TM	Chrysene	1.285	1.284	0.08	TM
88	*TM	Di-n-octylphthalate	1.345	1.418	5.4	*TM
89	I	Perylene-D12(IS)	ISTD			I
90	TM	Benzo (b) fluoranthene	1.211	1.239	2.3	TM
91	TM	Benzo (k) fluoranthene	1.200	1.095	8.8	TM
92	*TM	Benzo (a) pyrene	1.135	1.121	1.2	*TM
93	TM	Indeno (1,2,3-cd) pyrene	1.300	1.335	2.7	TM
94	TM	Dibenz (a,h) anthracene	1.119	1.168	4.4	TM
95	TM	Benzo (g,h,i) perylene	1.026	1.096	6.8	TM
96						
97						
98						
99						
100						
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107						
108						
109						
110						
111						
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114						
115						
116						
117						
118						
119						
120						
Average					3.9	

Data File : M:\YODA\DATA\Y190722\0722Y155.D Vial: 55
 Acq On : 1 Aug 19 10:00 Operator: MA,SS
 Sample : 50ug/ml 8270 07/12/19 (6) Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Aug 1 10:15 2019 Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.98	152	306943	40.00000	ppb	-0.04
21) Napthalene-D8 (IS)	6.44	136	1210023	40.00000	ppb	-0.04
41) Acenaphthene-D10 (IS)	8.47	164	678921	40.00000	ppb	-0.05
65) Phenanthrene-D10 (IS)	10.21	188	1382136	40.00000	ppb	-0.05
79) Chrysene-D12 (IS)	13.32	240	1270723	40.00000	ppb	-0.06
89) Perylene-D12 (IS)	15.05	264	1509282	40.00000	ppb	-0.08

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol (S)	3.35	112	967740	95.11211	ppb	-0.04
Spiked Amount	200.000					
Recovery				47.556%		
6) Phenol-D6 (S)	4.59	99	1019166	95.30717	ppb	-0.04
Spiked Amount	200.000					
Recovery				47.654%		
22) Nitrobenzene-D5 (S)	5.63	82	425481	45.22537	ppb	-0.04
Spiked Amount	100.000					
Recovery				45.225%		
46) 2-Fluorobiphenyl (S)	7.69	172	1160032	48.66247	ppb	-0.04
Spiked Amount	100.000					
Recovery				48.662%		
64) 2,4,6-Tribromophenol (S)	9.40	330	431693m	117.98271	ppb	-0.05
Spiked Amount	200.000					
Recovery				58.991%		
82) Terphenyl-D14 (S)	12.08	244	1548011	48.57029	ppb	-0.06
Spiked Amount	100.000					
Recovery				48.570%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.46	58	7697	9.78034		# 10
3) n-Nitrosodimethylamine	1.68	42	84577m	60.49641	ppb	90
4) Pyridine	1.69	79	242800	70.45526	ppb	95
7) Phenol	4.61	94	667397	47.41257	ppb	91
8) Aniline	4.60	93	628017	45.67351	ppb	# 84
9) Bis (2-chloroethyl) ether	4.69	63	259417	43.13193	ppb	87
10) 2-Chlorophenol	4.74	128	555906	49.08948	ppb	95
11) 1,3-DCB	4.90	146	622474	48.74715	ppb	98
12) 1,4-DCB	4.99	146	623190	48.66478	ppb	99
13) Benzyl alcohol	5.17	108	312460	49.94360	ppb	96
14) 1,2-DCB	5.16	146	580185	49.05754	ppb	99
15) 2-Methylphenol	5.31	107	436621	48.61746	ppb	97
16) Bis (2-chloroisopropyl) et	5.30	45	377195	39.99555	ppb	# 69
17) Acetophenone	5.46	105	650216	48.85821	ppb	99
18) 3&4-Methylphenol	5.49	107	1047367	98.33476	ppb	96
19) n-Nitrosodi-n-propylamine	5.47	70	302107	47.38063	ppb	93
20) Hexachloroethane	5.53	117	203633	47.48224	ppb	82
23) Nitrobenzene	5.65	77	453319	45.91469	ppb	99
24) Isophorone	5.93	82	830530	47.64272	ppb	91
25) 2-Nitrophenol	6.02	139	335825	53.26984	ppb	97
26) 2,4-Dimethylphenol	6.08	122	490760	50.23297	ppb	98
27) Benzoic acid	6.28	105	310096	49.78399	ppb	98
28) Bis (2-chloroethoxy) metha	6.17	93	545529	47.64257	ppb	99
29) 2,4-Dichlorophenol	6.30	162	477235	51.22606	ppb	100
30) 1,2,4-Trichlorobenzene	6.38	180	523814	50.77705	ppb	100
31) 3,4-Dimethylphenol	6.42	107	635337	50.74500	ppb	98
32) Napthalene	6.46	128	1560220	49.65847	ppb	100
33) 4-Chloroaniline	6.54	127	582718	49.69240	ppb	98
34) 2,6-Dichlorophenol	6.54	162	446789	50.71475	ppb	95
35) Hexachloropropene	6.55	213	311449	53.66635	ppb	99
36) Hexachlorobutadiene	6.59	225	299189	52.81430	ppb	99
37) Caprolactum	6.99	55	163046	44.97627	ppb	92

(#) = qualifier out of range (m) = manual integration
 0722Y155.D Y0722NC.M Thu Aug 01 10:17:20 2019

Data File : M:\YODA\DATA\Y190722\0722Y155.D
 Acq On : 1 Aug 19 10:00
 Sample : 50ug/ml 8270 07/12/19 (6)
 Misc :

Vial: 55
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 1 10:15 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)

Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.13	107	465500	51.49887	ppb	99
39) 2-Methylnaphthalene	7.26	142	1061759	50.34570	ppb	98
40) 1-Methylnaphthalene	7.37	142	1090862	50.09677	ppb	99
42) Hexachlorocyclopentadiene	7.43	237	93447	51.32956	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.45	216	534216	50.60778	ppb	99
44) 2,4,6-Trichlorophenol	7.61	196	344220	52.39680	ppb	99
45) 2,4,5-Trichlorophenol	7.67	196	355035	50.92583	ppb	99
47) 1,1'-Biphenyl	7.81	154	1367954	47.95525	ppb	99
48) 2-Chloronaphthalene	7.83	162	1083576	49.31782	ppb	99
49) 2-Nitroaniline	7.97	65	243656	46.36219	ppb	99
50) Dimethyl phthalate	8.18	163	1279482	49.99818	ppb	100
51) 2,6-DNT	8.26	165	317743	51.95823	ppb	98
52) Acenaphthylene	8.31	152	1699352	49.53729	ppb	100
53) 3-Nitroaniline	8.46	138	311049	48.95598	ppb	99
54) Acenaphthene	8.51	154	1058198	48.72118	ppb	99
55) 2,4-Dinitrophenol	8.61	184	161185	52.45916	ppb	97
56) 4-Nitrophenol	8.71	65	125825	46.46539	ppb	93
57) Dibenzofuran	8.72	168	1550553	48.98946	ppb	99
58) 2,4-DNT	8.74	165	432644	53.03344	ppb	93
59) 2,3,4,6-Tetrachlorophenol	8.87	232	296429	54.74597	ppb	97
60) Diethyl phthalate	9.00	149	1202432	49.91533	ppb	98
61) 4-Chlorophenyl phenyl ethe	9.12	204	642773	50.51676	ppb	95
62) Fluorene	9.12	166	1214077	49.42000	ppb	98
63) 4-Nitroaniline	9.19	138	312424	51.19403	ppb	93
66) 4,6-Dinitro-2-methylphenol	9.23	198	276581	54.48736	ppb	95
67) Diphenyl amine	9.26	169	1930856	97.20118	ppb	99
68) n-Nitrosodiphenylamine	9.26	169	1930856	97.20118	ppb	99
69) 1,2-Diphenylhydrazine	9.30	77	1052577	46.87750	ppb	# 86
70) 4-Bromophenyl phenyl ether	9.68	248	419185	52.80688	ppb	95
71) Hexachlorobenzene	9.76	284	457920	55.52251	ppb	# 85
72) Atrazine	9.90	200	175756	23.80310	ppb	99
73) Pentachlorophenol	10.01	266	163623m	61.30634	ppb	99
74) Phenanthrene	10.24	178	1836795	48.21914	ppb	100
75) Anthracene	10.30	178	1942885	49.65114	ppb	100
76) Carbazol	10.51	167	1807589	49.71138	ppb	99
77) Di-n-butylphthalate	10.90	149	2041235	50.03876	ppb	100
78) Fluoranthene	11.64	202	2111506	50.61662	ppb	97
80) Benzidine	11.81	184	368759	32.37895	ppb	98
81) Pyrene	11.90	202	2168139	48.28048	ppb	99
83) Butyl benzylphthalate	12.65	149	936916	49.99745	ppb	99
84) 3,3'-Dichlorobenzidine	13.28	252	736469	56.77736	ppb	# 97
85) Benz (a) anthracene	13.30	228	2018903	48.79399	ppb	99
86) Bis (2-ethylhexyl) phthala	13.31	149	1159739	50.04457	ppb	99
87) Chrysene	13.35	228	2039370	49.95768	ppb	99
88) Di-n-octylphthalate	14.04	149	2251661	52.68130	ppb	100
90) Benzo (b) fluoranthene	14.55	252	2336677	51.12635	ppb	97
91) Benzo (k) fluoranthene	14.58	252	2065315	45.60195	ppb	97
92) Benzo (a) pyrene	14.97	252	2114222	49.37782	ppb	97
93) Indeno (1,2,3-cd) pyrene	16.76	276	2519271	51.34157	ppb	95
94) Dibenz (a,h) anthracene	16.77	278	2203095	52.18222	ppb	96
95) Benzo (g,h,i) perylene	17.26	276	2067085	53.38653	ppb	98

(#) = qualifier out of range (m) = manual integration

0722Y155.D Y0722NC.M

Thu Aug 01 10:17:21 2019

Page 2

Quantitation Report

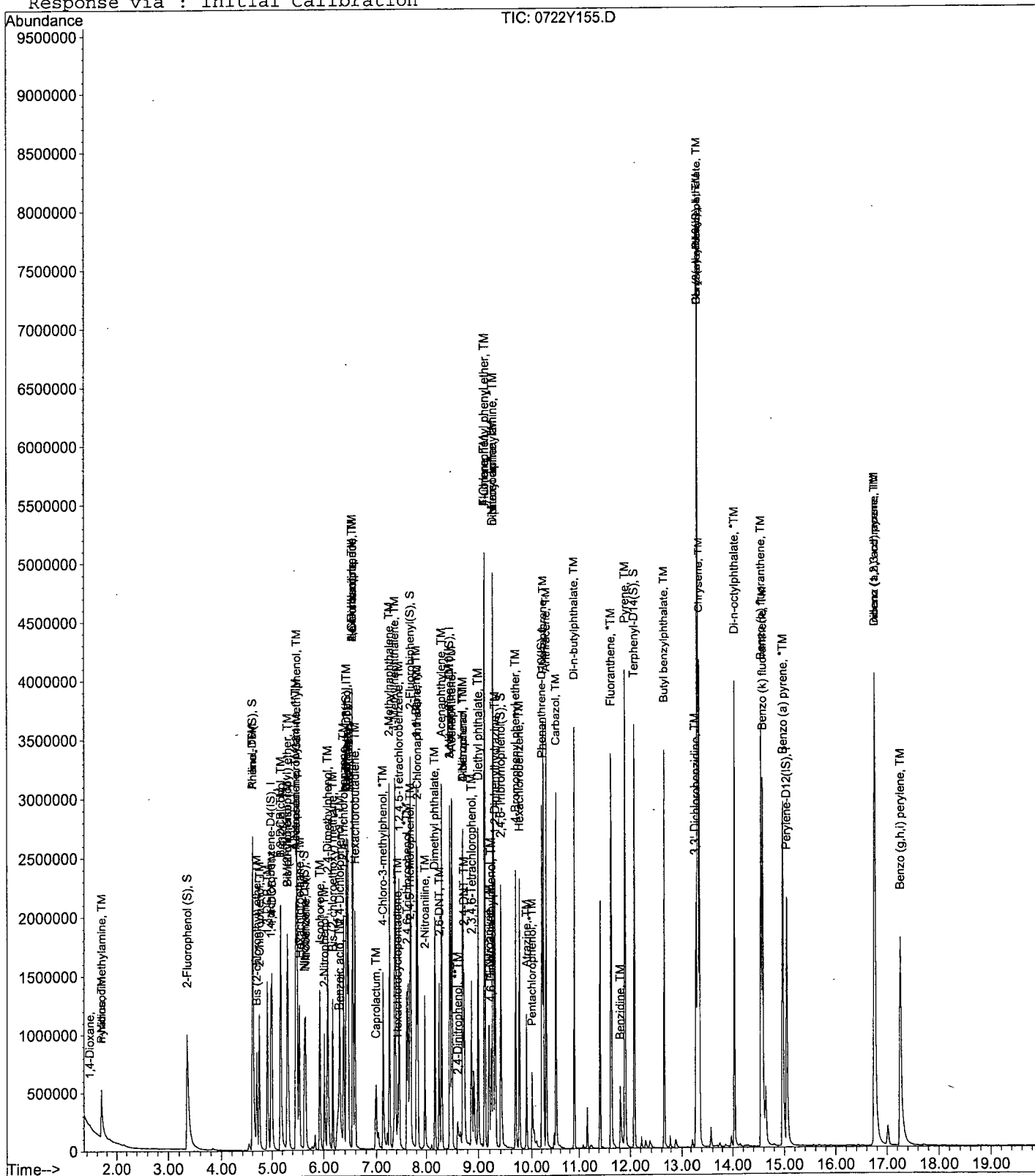
Data File : M:\YODA\DATA\Y190722\0722Y155.D
 Acq On : 1 Aug 19 10:00
 Sample : 50ug/ml 8270 07/12/19 (6)
 Misc :

Vial: 55
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 1 10:15 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration

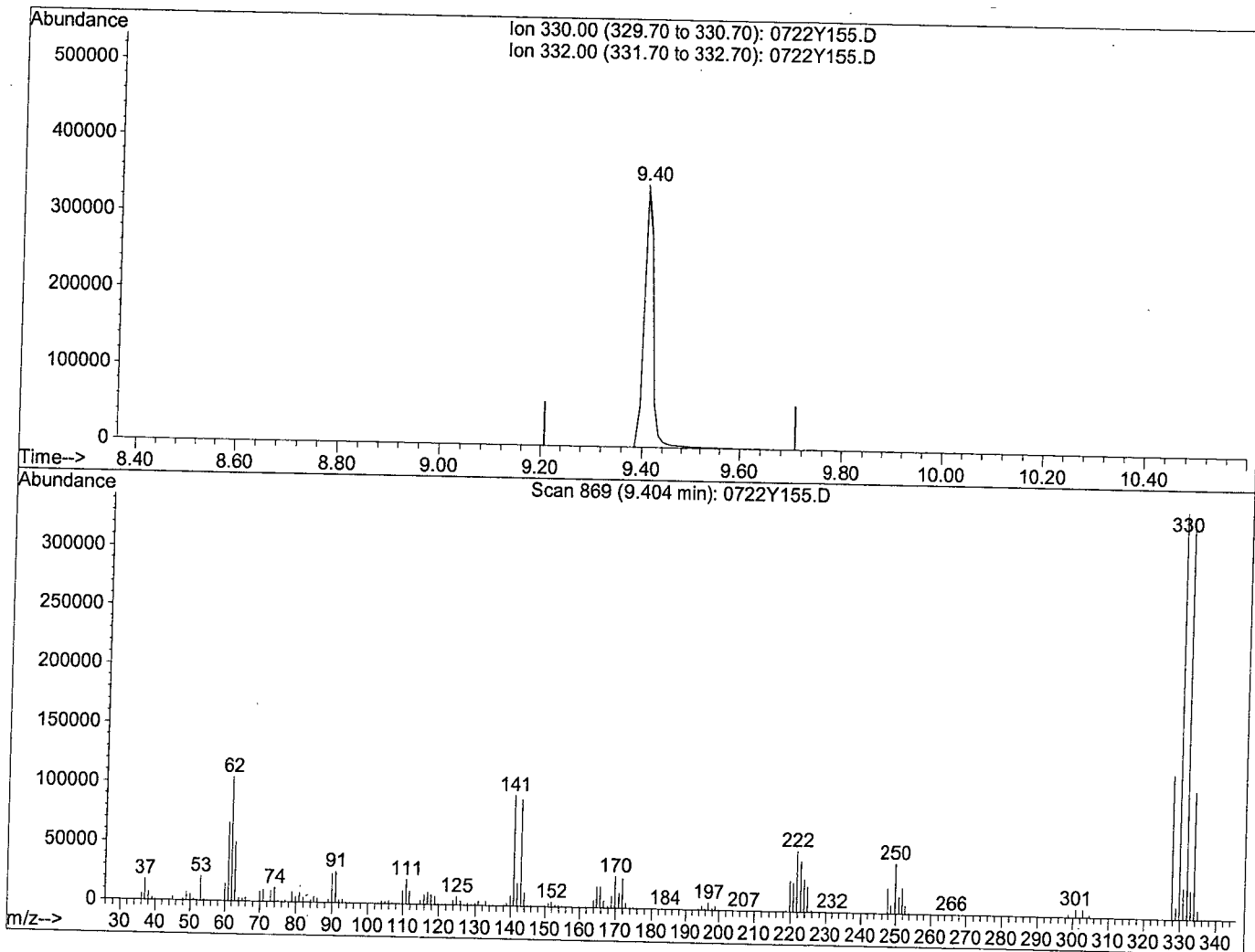


Quantitation Report

Data File : M:\YODA\DATA\Y190722\0722Y155.D
 Acq On : 1 Aug 19 10:00
 Sample : 50ug/ml 8270 07/12/19 (6)
 Misc :
 Quant Time: Aug 1 10:06 2019

Vial: 55
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Multiple Level Calibration



TIC: 0722Y155.D

(64) 2,4,6-Tribromophenol(S) (S)

9.40min 120.6764ppb

response 441549

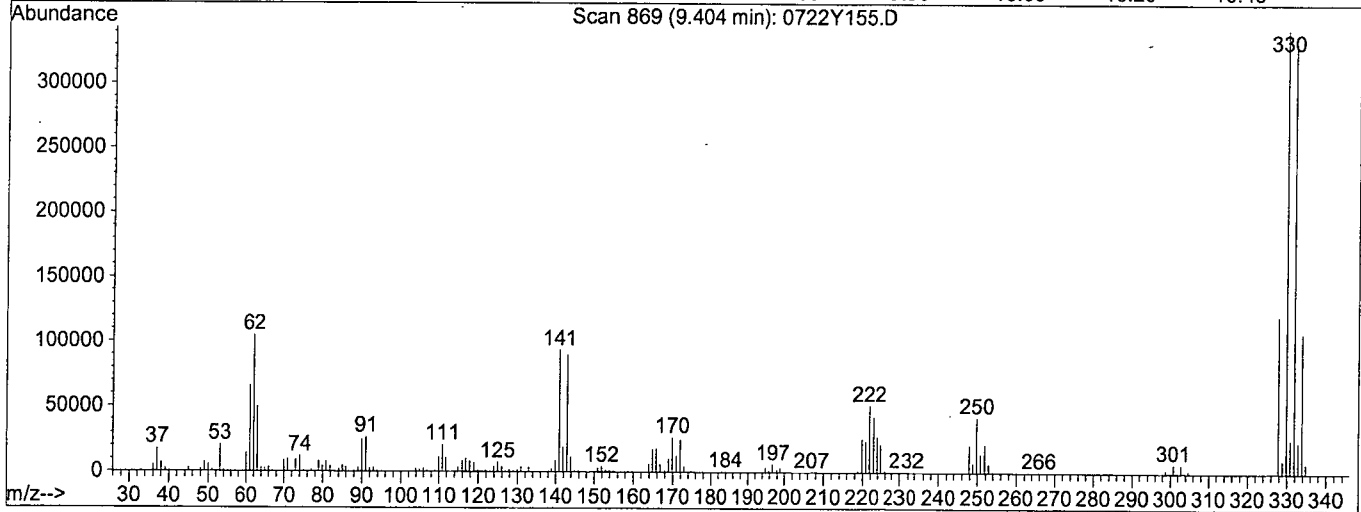
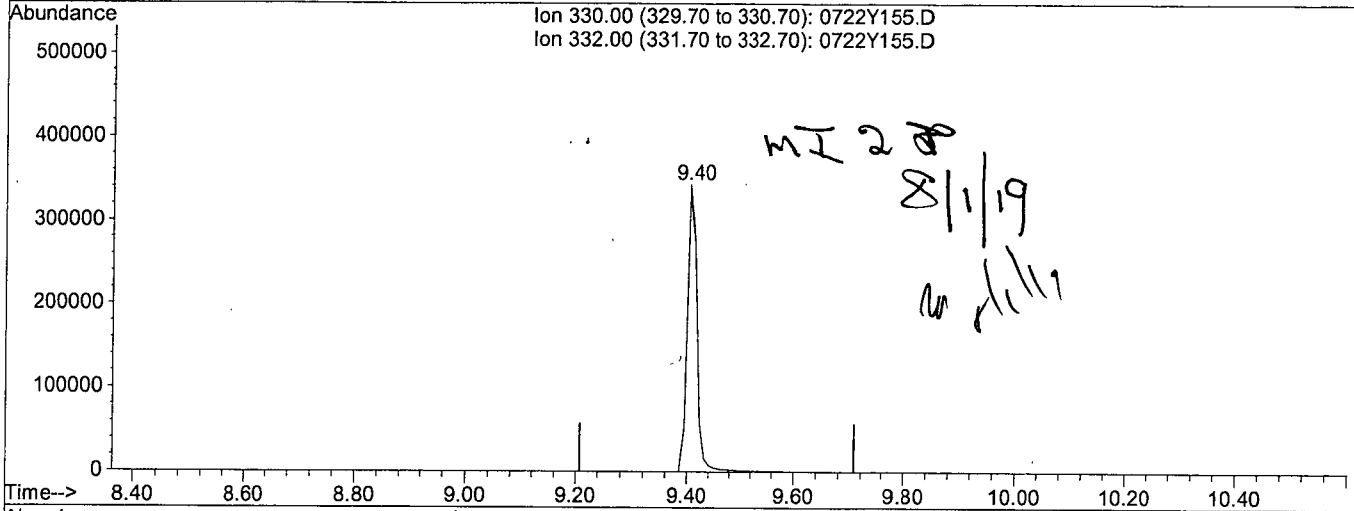
Ion	Exp%	Act%
330.00	100	100
332.00	96.40	96.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190722\0722Y155.D
 Acq On : 1 Aug 19 10:00
 Sample : 50ug/ml 8270 07/12/19 (6)
 Misc :
 Quant Time: Aug 1 10:14 2019

Vial: 55
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Multiple Level Calibration



TIC: 0722Y155.D

(64) 2,4,6-Tribromophenol(S) (S)

9.40min 117.9827ppb m

response 431693

Ion	Exp%	Act%
330.00	100	100
332.00	96.40	96.49
0.00	0.00	0.00
0.00	0.00	0.00

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 1 Aug 19 15:50
Instrument: Yoda
Initial Cal. Date: 07/22/19
Data File: 0722Y167.D

	Compound	MEAN	CCRF	%D	%Drift
1	I 1,4-dichlorobenzene-D4(IS)	ISTD			I
2	1,4-Dioxane	0.1026	0.2107	105	
3	TM n-Nitrosodimethylamine	0.1822	0.2678	47	TM *NT
4	TM Pyridine	0.4491	0.7342	63	TM *NT
5	S 2-Fluorophenol (S)	1.326	1.290	2.7	S
6	S Phenol-D6 (S)	1.394	1.346	3.4	S
7	*TM Phenol	1.834	1.764	3.9	*TM
8	TM Aniline	1.792	1.611	10	TM
9	TM Bis (2-chloroethyl) ether	0.7838	0.6779	14	TM
10	TM 2-Chlorophenol	1.476	1.487	0.79	TM
11	TM 1,3-DCB	1.664	1.624	2.4	TM
12	*TM 1,4-DCB	1.669	1.625	2.6	*TM
13	TM Benzyl alcohol	0.8153	0.8270	1.4	TM
14	TM 1,2-DCB	1.541	1.510	2.0	TM
15	TM 2-Methylphenol	1.170	1.162	0.70	TM
16	TM Bis (2-chloroisopropyl) ether	1.229	0.9900	19	TM
17	TM Acetophenone	1.734	1.708	1.5	TM
18	TM 3&4-Methylphenol	1.388	1.370	1.3	TM
19	**TM n-Nitrosodi-n-propylamine	0.8309	0.7987	3.9	**TM
20	TM Hexachloroethane	0.5589	0.5242	6.2	TM
21	I Napthalene-D8(IS)	ISTD			I
22	S Nitrobenzene-D5(S)	0.3110	0.2835	8.8	S
23	TM Nitrobenzene	0.3264	0.3062	6.2	TM
24	TM Isophorone	0.5763	0.5660	1.8	TM
25	*TM 2-Nitrophenol	0.2084	0.2283	9.6	*TM
26	TM 2,4-Dimethylphenol	0.3230	0.3380	4.7	TM
27	TM Benzoic acid	0.2059	0.2273	10	TM
28	TM Bis (2-chloroethoxy) methane	0.3785	0.3658	3.4	TM
29	*TM 2,4-Dichlorophenol	0.3080	0.3322	7.9	*TM
30	TM 1,2,4-Trichlorobenzene	0.3410	0.3483	2.1	TM
31	TM 3,4-Dimethylphenol	0.4139	0.4279	3.4	TM
32	TM Napthalene	1.039	1.054	1.4	TM
33	TM 4-Chloroaniline	0.3876	0.3797	2.1	TM
34	TM 2,6-Dichlorophenol	0.2912	0.2949	1.3	TM
35	TM Hexachloropropene	0.1918	0.2097	9.3	TM
36	*TM Hexachlorobutadiene	0.1873	0.2021	7.9	*TM
37	TM Caprolactam	0.1198	0.1119	6.6	TM
38	*TM 4-Chloro-3-methylphenol	0.2988	0.3225	7.9	*TM
39	TM 2-Methylnapthalene	0.6972	0.7207	3.4	TM
40	TM 1-Methylnapthalene	0.7198	0.7357	2.2	TM
Average				10.3	

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.

SDG No:

Case No:

Date Analyzed: 1 Aug 19 15:50

Matrix: 0

Instrument: Yoda

Cal. Date: 07/22/19

Data File: 0722Y167.D

	Compound	MEAN	CCRF	%D	%Drift
41	I Acenaphthene-D10(IS)	ISTD			I
42	**TMQ Hexachlorocyclopentadiene	0.1159	0.1346	16	**TMQ 15
43	TM 1,2,4,5-Tetrachlorobenzene	0.6219	0.6411	3.1	TM
44	*TM 2,4,6-Trichlorophenol	0.3871	0.4118	6.4	*TM
45	TM 2,4,5-Trichlorophenol	0.4107	0.4320	5.2	TM
46	S 2-Fluorobiphenyl(S)	1.404	1.371	2.4	S
47	TM 1,1'-Biphenyl	1.681	1.632	2.9	TM
48	TM 2-Chloronaphthalene	1.294	1.276	1.4	TM
49	TM 2-Nitroaniline	0.3096	0.2876	7.1	TM
50	TM Dimethyl phthalate	1.508	1.535	1.8	TM
51	TM 2,6-DNT	0.3603	0.3808	5.7	TM
52	TM Acenaphthylene	2.021	2.027	0.30	TM
53	TM 3-Nitroaniline	0.3743	0.3747	0.10	TM
54	*TM Acenaphthene	1.280	1.255	1.9	*TM
55	**TML 2,4-Dinitrophenol	0.1738	0.1714	1.4	**TML 2.7
56	**TM 4-Nitrophenol	0.1595	0.1543	3.3	**TM
57	TM Dibenzofuran	1.865	1.850	0.77	TM
58	TM 2,4-DNT	0.4806	0.5135	6.8	TM
59	TM 2,3,4,6-Tetrachlorophenol	0.3190	0.3719	17	TM
60	TM Diethyl phthalate	1.419	1.434	1.1	TM
61	TM 4-Chlorophenyl phenyl ether	0.7497	0.7503	0.08	TM
62	TM Fluorene	1.447	1.401	3.2	TM
63	TM 4-Nitroaniline	0.3596	0.3853	7.2	TM
64	S 2,4,6-Tribromophenol(S)	0.2156	0.2679	24	S
65	I Phenanthrene-D10(IS)	ISTD			I
66	TM 4,6-Dinitro-2-methylphenol	0.1469	0.1683	15	TM
67	TM Diphenyl amine	0.5749	0.5594	2.7	TM
68	*TM n-Nitrosodiphenylamine	0.5749	0.5594	2.7	*TM
69	TM 1,2-Diphenylhydrazine	0.6498	0.6083	6.4	TM
70	TM 4-Bromophenyl phenyl ether	0.2297	0.2474	7.7	TM
71	TM Hexachlorobenzene	0.2387	0.2717	14	TM
72	TM Atrazine	0.2137	0.1897	11	TM
73	*TM Pentachlorophenol	0.0772	0.1015	31	*TM
74	TM Phenanthrene	1.102	1.064	3.5	TM
75	TM Anthracene	1.132	1.113	1.7	TM
76	TM Carbazol	1.052	1.043	0.85	TM
77	TM Di-n-butylphthalate	1.181	1.186	0.47	TM
78	*TM Fluoranthene	1.207	1.217	0.81	*TM
79	I Chrysene-D12(IS)	ISTD			I
80	TM Benzidine	0.3585	0.2183	39	TM
Average				6.9	

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 1 Aug 19 15:50
Instrument: Yoda
Cal. Date: 07/22/19
Data File: 0722Y167.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Pyrene	1.414	1.361	3.7	TM
82	S	Terphenyl-D14(S)	1.003	0.9622	4.1	S
83	TM	Butyl benzylphthalate	0.5899	0.5838	1.0	TM
84	TM	3,3'-Dichlorobenzidine	0.4083	0.4786	17	TM
85	TM	Benz (a) anthracene	1.302	1.255	3.7	TM
86	TM	Bis (2-ethylhexyl) phthalate	0.7295	0.7128	2.3	TM
87	TM	Chrysene	1.285	1.263	1.7	TM
88	*TM	Di-n-octylphthalate	1.345	1.408	4.6	*TM
89	I	Perylene-D12(IS)	ISTD			I
90	TM	Benzo (b) fluoranthene	1.211	1.129	6.8	TM
91	TM	Benzo (k) fluoranthene	1.200	1.188	1.1	TM
92	*TM	Benzo (a) pyrene	1.135	1.132	0.28	*TM
93	TM	Indeno (1,2,3-cd) pyrene	1.300	1.332	2.4	TM
94	TM	Dibenz (a,h) anthracene	1.119	1.162	3.9	TM
95	TM	Benzo (g,h,i) perylene	1.026	1.096	6.8	TM
96						
97						
98						
99						
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119						
120						

Average

4.2

Data File : M:\YODA\DATA\Y190722\0722Y167.D
 Acq On : 1 Aug 19 15:50
 Sample : 50ug/ml 8270 07/12/19 (3)
 Misc :

Vial: 67
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 1 15:55 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.97	152	362954	40.00000 ppb	-0.05
21) Napthalene-D8 (IS)	6.43	136	1425263	40.00000 ppb	-0.05
41) Acenaphthene-D10 (IS)	8.47	164	817480	40.00000 ppb	-0.05
65) Phenanthrene-D10 (IS)	10.21	188	1670400	40.00000 ppb	-0.05
79) Chrysene-D12 (IS)	13.32	240	1556999	40.00000 ppb	-0.06
89) Perylene-D12 (IS)	15.04	264	1850218	40.00000 ppb	-0.09

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.34	112	1170536	97.28996 ppb	-0.05
Spiked Amount 200.000			Recovery = 48.645%		
6) Phenol-D6 (S)	4.59	99	1220937	96.55617 ppb	-0.04
Spiked Amount 200.000			Recovery = 48.278%		
22) Nitrobenzene-D5 (S)	5.63	82	505093	45.57974 ppb	-0.04
Spiked Amount 100.000			Recovery = 45.580%		
46) 2-Fluorobiphenyl (S)	7.69	172	1401201	48.81651 ppb	-0.05
Spiked Amount 100.000			Recovery = 48.817%		
64) 2,4,6-Tribromophenol (S)	9.40	330	547513	124.27389 ppb	-0.05
Spiked Amount 200.000			Recovery = 62.137%		
82) Terphenyl-D14 (S)	12.08	244	1872657	47.95318 ppb	-0.06
Spiked Amount 100.000			Recovery = 47.953%		

Target Compounds

	R.T.	QIon	Response	Conc Units	Qvalue
2) 1,4-Dioxane	1.46	58	9559	10.27190	80
3) n-Nitrosodimethylamine	1.67	42	121520	73.50743 ppb	88
4) Pyridine	1.68	79	333121	81.74720 ppb	98
7) Phenol	4.61	94	800087	48.06762 ppb	83
8) Aniline	4.60	93	730963	44.95671 ppb	# 93
9) Bis (2-chloroethyl) ether	4.69	63	307540	43.24224 ppb	82
10) 2-Chlorophenol	4.73	128	674812	50.39368 ppb	97
11) 1,3-DCB	4.90	146	736761	48.79337 ppb	99
12) 1,4-DCB	4.99	146	737344	48.69346 ppb	99
13) Benzyl alcohol	5.17	108	375199	50.71697 ppb	96
14) 1,2-DCB	5.16	146	685284	49.00225 ppb	99
15) 2-Methylphenol	5.30	107	527270	49.65087 ppb	99
16) Bis (2-chloroisopropyl) et	5.30	45	449171	40.27760 ppb	# 56
17) Acetophenone	5.46	105	774726	49.23049 ppb	99
18) 3&4-Methylphenol	5.49	107	1243088	98.69978 ppb	97
19) n-Nitrosodi-n-propylamine	5.47	70	362362	48.06056 ppb	94
20) Hexachloroethane	5.53	117	237813	46.89481 ppb	94
23) Nitrobenzene	5.65	77	545512	46.90840 ppb	97
24) Isophorone	5.93	82	1008408	49.11070 ppb	92
25) 2-Nitrophenol	6.01	139	406813	54.78501 ppb	94
26) 2,4-Dimethylphenol	6.08	122	602185	52.32970 ppb	100
27) Benzoic acid	6.29	105	404896	55.18685 ppb	99
28) Bis (2-chloroethoxy) metha	6.17	93	651722	48.32127 ppb	99
29) 2,4-Dichlorophenol	6.30	162	591923	53.94143 ppb	98
30) 1,2,4-Trichlorobenzene	6.38	180	620526	51.06802 ppb	99
31) 3,4-Dimethylphenol	6.42	107	762348	51.69410 ppb	100
32) Naphthalene	6.46	128	1877055	50.72045 ppb	100
33) 4-Chloroaniline	6.54	127	676388	48.96954 ppb	98
34) 2,6-Dichlorophenol	6.54	162	525345	50.62616 ppb	96
35) Hexachloropropene	6.54	213	373648	54.66085 ppb	99
36) Hexachlorobutadiene	6.59	225	360063	53.96138 ppb	99
37) Caprolactum	7.01	55	199448	46.70911 ppb	# 86

(#) = qualifier out of range (m) = manual integration

Data File : M:\YODA\DATA\Y190722\0722Y167.D
 Acq On : 1 Aug 19 15:50
 Sample : 50ug/ml 8270 07/12/19 (3)
 Misc :

Vial: 67
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 1 15:55 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.13	107	574507	53.96000	ppb	99
39) 2-Methylnaphthalene	7.26	142	1283998	51.68915	ppb	100
40) 1-Methylnaphthalene	7.37	142	1310712	51.10293	ppb	99
42) Hexachlorocyclopentadiene	7.43	237	137526	57.26202	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.45	216	655111	51.54154	ppb	100
44) 2,4,6-Trichlorophenol	7.60	196	420787	53.19528	ppb	98
45) 2,4,5-Trichlorophenol	7.67	196	441400	52.58252	ppb	99
47) 1,1'-Biphenyl	7.81	154	1667789	48.55656	ppb	98
48) 2-Chloronaphthalene	7.82	162	1303899	49.28679	ppb	99
49) 2-Nitroaniline	7.97	65	293881	46.44088	ppb	94
50) Dimethyl phthalate	8.18	163	1568294	50.89670	ppb	100
51) 2,6-DNT	8.26	165	389156	52.84990	ppb	98
52) Acenaphthylene	8.31	152	2071501	50.15061	ppb	100
53) 3-Nitroaniline	8.46	138	382890	50.04873	ppb	98
54) Acenaphthene	8.50	154	1282771	49.05035	ppb	98
55) 2,4-Dinitrophenol	8.60	184	175097	48.63010	ppb	93
56) 4-Nitrophenol	8.71	65	157702	48.36620	ppb	86
57) Dibenzofuran	8.71	168	1890791	49.61371	ppb	91
58) 2,4-DNT	8.73	165	524727	53.41886	ppb	91
59) 2,3,4,6-Tetrachlorophenol	8.87	232	380036	58.29058	ppb	92
60) Diethyl phthalate	8.99	149	1465765	50.53356	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.11	204	766650	50.03997	ppb	93
62) Fluorene	9.12	166	1431142	48.38172	ppb	98
63) 4-Nitroaniline	9.19	138	393739	53.58281	ppb	95
66) 4,6-Dinitro-2-methylphenol	9.23	198	351325	57.26810	ppb	98
67) Diphenyl amine	9.26	169	2335948	97.30051	ppb	100
68) n-Nitrosodiphenylamine	9.26	169	2335948	97.30051	ppb	100
69) 1,2-Diphenylhydrazine	9.30	77	1270156	46.80561	ppb	# 85
70) 4-Bromophenyl phenyl ether	9.68	248	516512	53.83881	ppb	98
71) Hexachlorobenzene	9.76	284	567244	56.90884	ppb	# 82
72) Atrazine	9.90	200	198003	22.18837	ppb	98
73) Pentachlorophenol	10.01	266	212035	65.73534	ppb	99
74) Phenanthrene	10.24	178	2220727	48.23743	ppb	99
75) Anthracene	10.30	178	2324992	49.16249	ppb	100
76) Carbazol	10.51	167	2178617	49.57552	ppb	100
77) Di-n-butylphthalate	10.90	149	2476568	50.23358	ppb	99
78) Fluoranthene	11.63	202	2541135	50.40328	ppb	98
80) Benzidine	11.81	184	424944	30.45190	ppb	100
81) Pyrene	11.90	202	2649164	48.14552	ppb	99
83) Butyl benzylphthalate	12.65	149	1136149	49.48175	ppb	96
84) 3,3'-Dichlorobenzidine	13.27	252	931483	58.60817	ppb	98
85) Benz (a) anthracene	13.30	228	2442109	48.17020	ppb	100
86) Bis (2-ethylhexyl) phthala	13.31	149	1387273	48.85637	ppb	# 95
87) Chrysene	13.35	228	2457576	49.13328	ppb	100
88) Di-n-octylphthalate	14.04	149	2740013	52.32011	ppb	99
90) Benzo (b) fluoranthene	14.55	252	2611971	46.61889	ppb	# 96
91) Benzo (k) fluoranthene	14.57	252	2746484	49.46770	ppb	99
92) Benzo (a) pyrene	14.96	252	2617140	49.86040	ppb	99
93) Indeno (1,2,3-cd) pyrene	16.76	276	3079806	51.19943	ppb	97
94) Dibenz (a,h) anthracene	16.76	278	2688202	51.93961	ppb	95
95) Benzo (g,h,i) perylene	17.26	276	2533889	53.38367	ppb	96

(#) = qualifier out of range (m) = manual integration
 0722Y167.D Y0722NC.M Thu Aug 01 15:56:32 2019

Quantitation Report

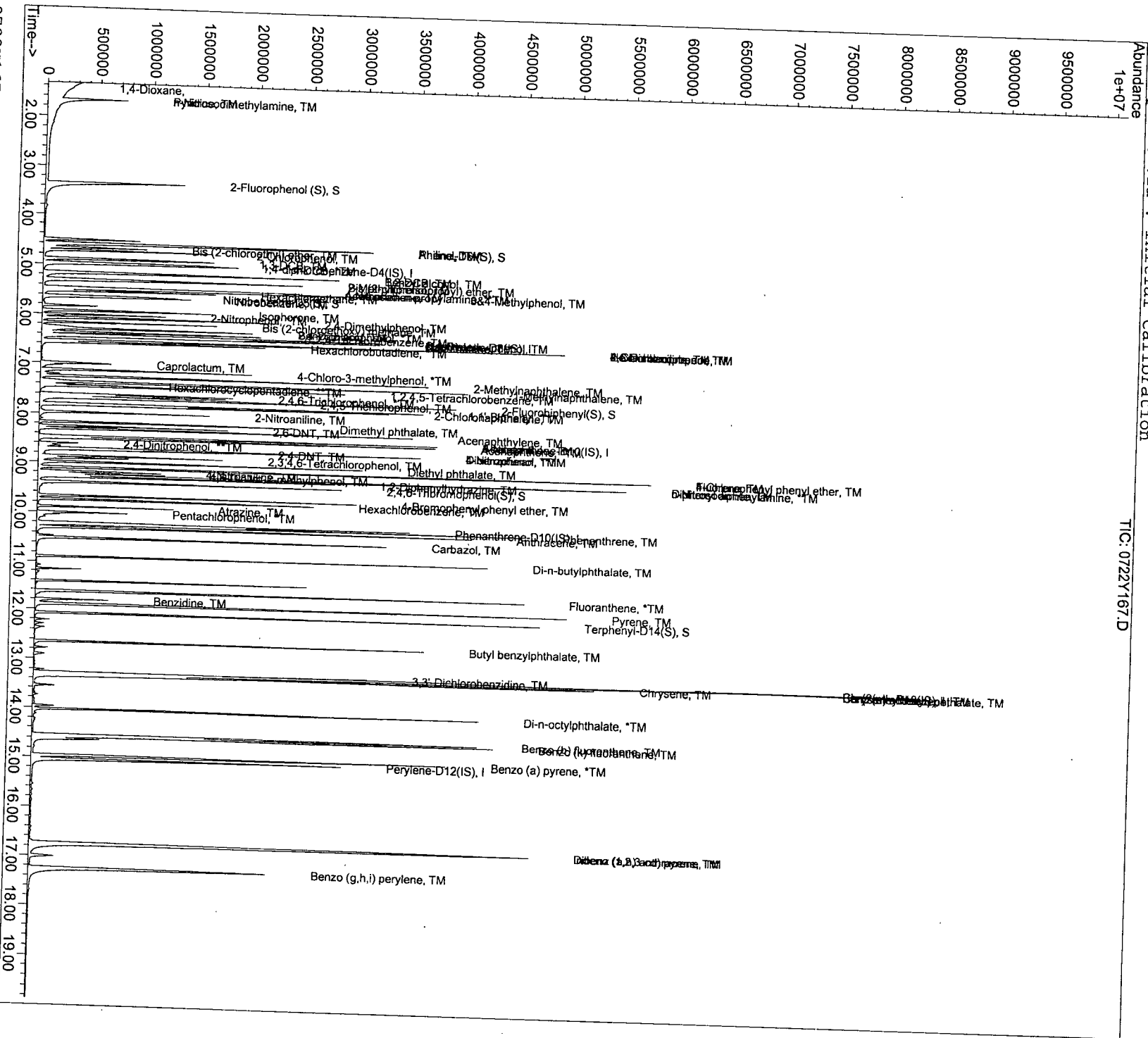
Data File : M:\YODA\DATA\Y190722\0722Y167.D
Acq On : 1 Aug 19 15:50
Sample : 50ug/ml 8270 07/12/19 (3)
Misc :

Vial: 67
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Aug 1 15:55 2019

Quant Results File: Y0722NC.RE5

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



ORGANICS
Raw Data

Data File : M:\YODA\DATA\Y190722\0722Y165.D
 Acq On : 1 Aug 19 14:54
 Sample : AZ95511W15 1/800
 Misc :

Vial: 65
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Aug 8 8:45 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.97	152	271218	40.00000	ppb	-0.04
21) Napthalene-D8 (IS)	6.43	136	1205930	40.00000	ppb	-0.04
41) Acenaphthene-D10 (IS)	8.47	164	696483	40.00000	ppb	-0.05
65) Phenanthrene-D10 (IS)	10.20	188	1398649	40.00000	ppb	-0.06
79) Chrysene-D12 (IS)	13.31	240	1391126	40.00000	ppb	-0.07
89) Perylene-D12 (IS)	15.03	264	1538383	40.00000	ppb	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.35	112	1385340	192.61173	ppb	-0.03
Spiked Amount 250.000			Recovery =	77.045%		
6) Phenol-D6 (S)	4.60	99	1495448	197.83411	ppb	-0.03
Spiked Amount 250.000			Recovery =	79.134%		
22) Nitrobenzene-D5 (S)	5.63	82	734546	97.92700	ppb	-0.04
Spiked Amount 125.000			Recovery =	78.342%		
46) 2-Fluorobiphenyl (S)	7.69	172	1888718	96.54061	ppb	-0.04
Spiked Amount 125.000			Recovery =	77.233%		
64) 2,4,6-Tribromophenol (S)	9.40	330	663118	220.82738	ppb	-0.06
Spiked Amount 250.000			Recovery =	88.331%		
82) Terphenyl-D14 (S)	12.08	244	2365453	84.74331	ppb	-0.06
Spiked Amount 125.000			Recovery =	67.794%		
Target Compounds						
50) Dimethyl phthalate	8.17	163	150053	7.14469	ppb	99
86) Bis (2-ethylhexyl) phthala	13.30	149	18797	0.92615	ppb	96

Quantitation Report

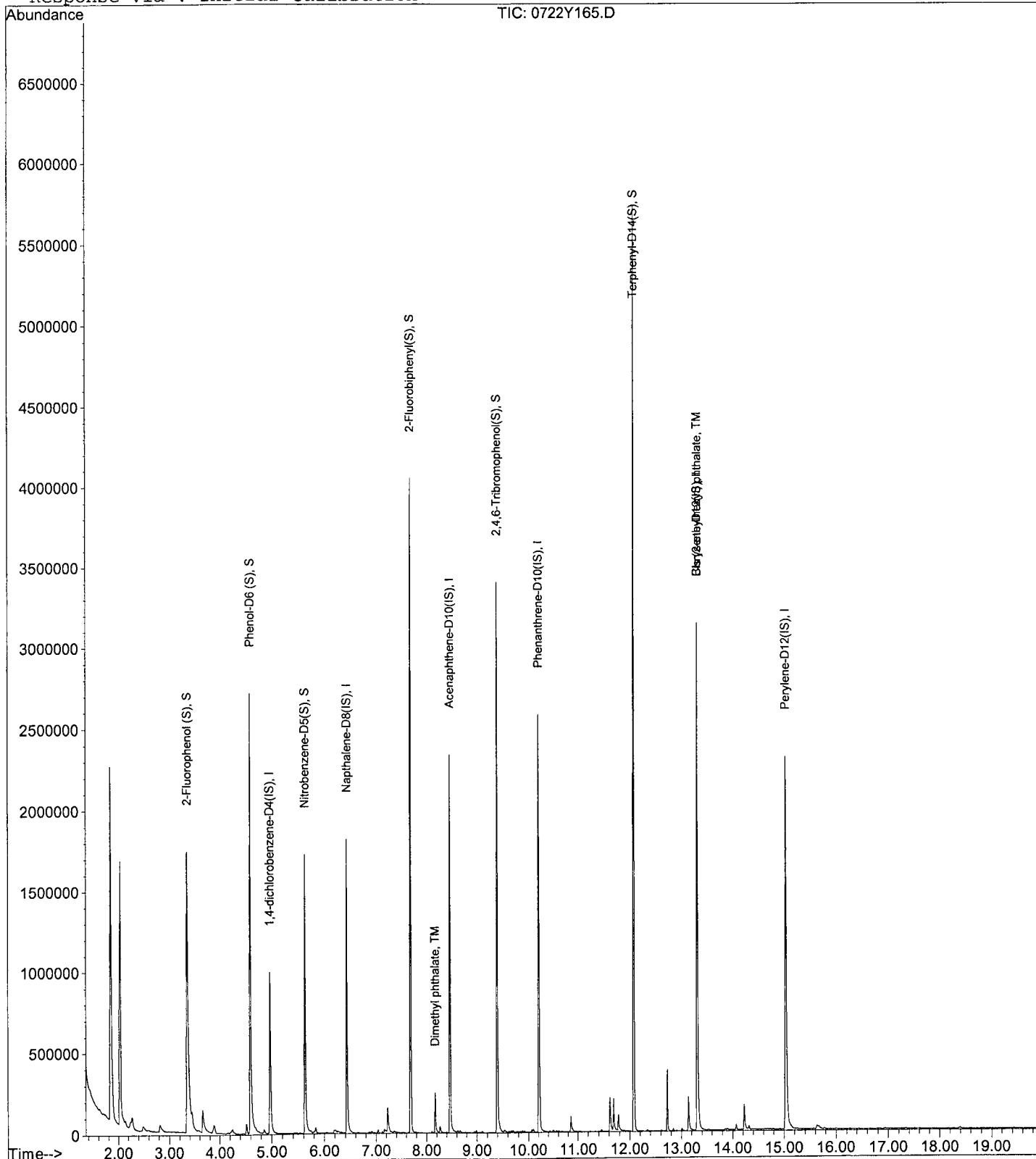
Data File : M:\YODA\DATA\Y190722\0722Y165.D
Acq On : 1 Aug 19 14:54
Sample : AZ95511W15 1/800
Misc :

Vial: 65
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Aug 8 8:45 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y166.D Vial: 66
 Acq On : 1 Aug 19 15:22 Operator: MA,SS
 Sample : AZ95513W13 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Aug 8 8:46 2019 Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.97	152	268960	40.00000	ppb	-0.04
21) Napthalene-D8 (IS)	6.43	136	1212223	40.00000	ppb	-0.04
41) Acenaphthene-D10 (IS)	8.47	164	681747	40.00000	ppb	-0.05
65) Phenanthrene-D10 (IS)	10.20	188	1368437	40.00000	ppb	-0.06
79) Chrysene-D12 (IS)	13.31	240	1371409	40.00000	ppb	-0.07
89) Perylene-D12 (IS)	15.03	264	1525650	40.00000	ppb	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.35	112	1233522	172.94343	ppb	-0.03
Spiked Amount 250.000			Recovery =	69.177%		
6) Phenol-D6 (S)	4.60	99	1367598	182.43961	ppb	-0.03
Spiked Amount 250.000			Recovery =	72.976%		
22) Nitrobenzene-D5 (S)	5.63	82	703904	93.35476	ppb	-0.04
Spiked Amount 125.000			Recovery =	74.684%		
46) 2-Fluorobiphenyl (S)	7.69	172	1827398	95.42526	ppb	-0.04
Spiked Amount 125.000			Recovery =	76.340%		
64) 2,4,6-Tribromophenol (S)	9.40	330	636727	216.62205	ppb	-0.06
Spiked Amount 250.000			Recovery =	86.649%		
82) Terphenyl-D14 (S)	12.08	244	2326752	84.55527	ppb	-0.06
Spiked Amount 125.000			Recovery =	67.644%		
Target Compounds						
50) Dimethyl phthalate	8.17	163	146785	7.14016	ppb	99

Quantitation Report

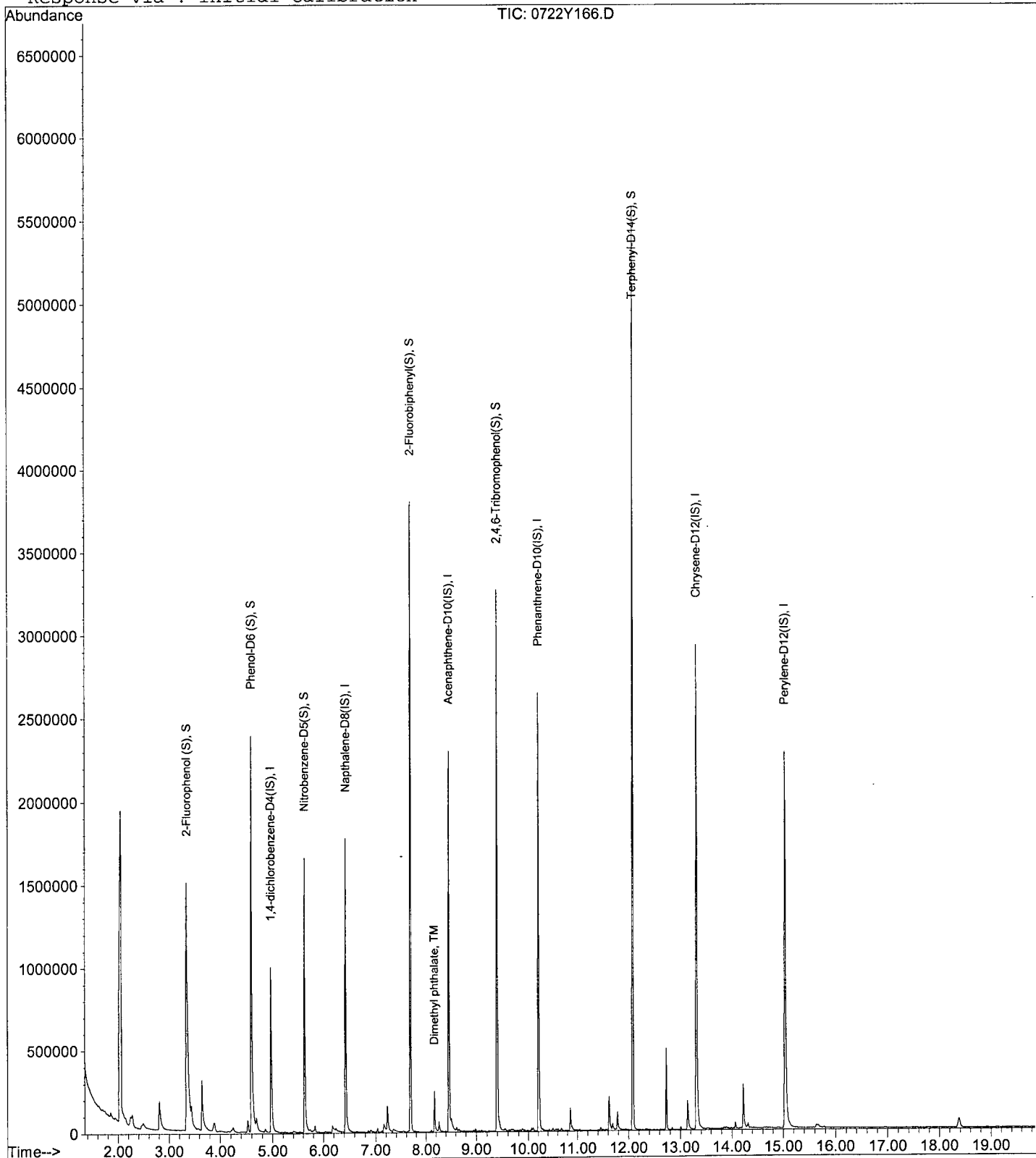
Data File : M:\YODA\DATA\Y190722\0722Y166.D
Acq On : 1 Aug 19 15:22
Sample : AZ95513W13 1/800
Misc :

Vial: 66
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Aug 8 8:46 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y156.D Vial: 56
 Acq On : 1 Aug 19 10:42 Operator: MA,SS
 Sample : 190729A BLK 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Aug 1 15:51 2019 Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.97	152	259957	40.00000	ppb	-0.04
21) Napthalene-D8 (IS)	6.44	136	1121559	40.00000	ppb	-0.04
41) Acenaphthene-D10 (IS)	8.47	164	690767	40.00000	ppb	-0.05
65) Phenanthrene-D10 (IS)	10.21	188	1442370	40.00000	ppb	-0.06
79) Chrysene-D12 (IS)	13.32	240	1456586	40.00000	ppb	-0.07
89) Perylene-D12 (IS)	15.04	264	1567058	40.00000	ppb	-0.09
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.35	112	1429854	207.41256	ppb	-0.04
Spiked Amount 250.000			Recovery =	82.965%		
6) Phenol-D6 (S)	4.60	99	1514396	209.01926	ppb	-0.03
Spiked Amount 250.000			Recovery =	83.608%		
22) Nitrobenzene-D5 (S)	5.63	82	768494	110.16000	ppb	-0.04
Spiked Amount 125.000			Recovery =	88.128%		
46) 2-Fluorobiphenyl (S)	7.68	172	1965681	101.30594	ppb	-0.05
Spiked Amount 125.000			Recovery =	81.045%		
64) 2,4,6-Tribromophenol (S)	9.40	330	689719	231.58650	ppb	-0.06
Spiked Amount 250.000			Recovery =	92.634%		
82) Terphenyl-D14 (S)	12.08	244	2535186	86.74236	ppb	-0.06
Spiked Amount 125.000			Recovery =	69.394%		
Target Compounds						
50) Dimethyl phthalate	8.18	163	151055	7.25192	ppb	99

Quantitation Report

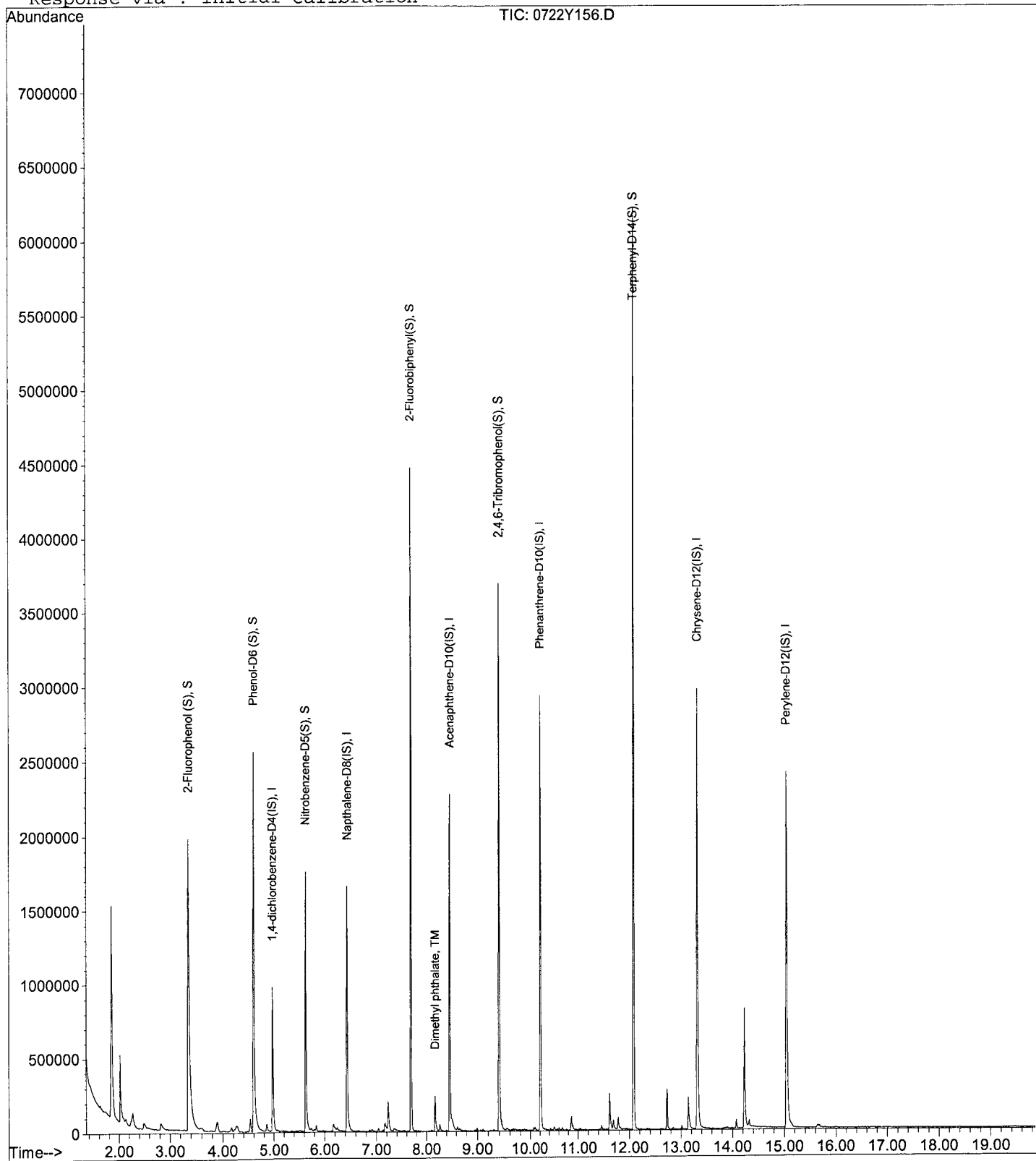
Data File : M:\YODA\DATA\Y190722\0722Y156.D
Acq On : 1 Aug 19 10:42
Sample : 190729A BLK 1/800
Misc :

Vial: 56
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Aug 1 15:51 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y157.D
 Acq On : 1 Aug 19 11:10
 Sample : 190729A LCS-1 1/800
 Misc :

Vial: 57
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Aug 1 15:02 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.97	152	245598	40.00000	ppb	-0.04
21) Napthalene-D8 (IS)	6.43	136	1065589	40.00000	ppb	-0.05
41) Acenaphthene-D10 (IS)	8.46	164	686301	40.00000	ppb	-0.06
65) Phenanthrene-D10 (IS)	10.21	188	1437798	40.00000	ppb	-0.06
79) Chrysene-D12 (IS)	13.32	240	1343242	40.00000	ppb	-0.07
89) Perylene-D12 (IS)	15.04	264	1608089	40.00000	ppb	-0.09

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.35	112	1492410	229.14384	ppb	-0.04
Spiked Amount 250.000			Recovery =	91.658%		
6) Phenol-D6 (S)	4.60	99	1567390	228.98162	ppb	-0.03
Spiked Amount 250.000			Recovery =	91.593%		
22) Nitrobenzene-D5 (S)	5.63	82	755221	113.94359	ppb	-0.04
Spiked Amount 125.000			Recovery =	91.155%		
46) 2-Fluorobiphenyl (S)	7.68	172	1962435	101.79680	ppb	-0.05
Spiked Amount 125.000			Recovery =	81.438%		
64) 2,4,6-Tribromophenol (S)	9.40	330	729052	246.38627	ppb	-0.06
Spiked Amount 250.000			Recovery =	98.554%		
82) Terphenyl-D14 (S)	12.08	244	2627327	97.48043	ppb	-0.06
Spiked Amount 125.000			Recovery =	77.984%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.45	58	15236	30.24449		# 21
3) n-Nitrosodimethylamine	1.68	42	80597	90.06149	ppb	89
4) Pyridine	1.69	79	163304	74.02945	ppb	94
7) Phenol	4.61	94	557646	61.88861	ppb	90
8) Aniline	4.60	93	394140	44.78024	ppb	# 80
9) Bis (2-chloroethyl) ether	4.69	63	213214	55.38078	ppb	85
10) 2-Chlorophenol	4.74	128	462626	63.82048	ppb	94
11) 1,3-DCB	4.90	146	473682	57.95059	ppb	100
12) 1,4-DCB	4.99	146	480215	58.58318	ppb	100
13) Benzyl alcohol	5.17	108	262185	65.46908	ppb	97
14) 1,2-DCB	5.16	146	454928	60.09313	ppb	99
15) 2-Methylphenol	5.31	107	356952	62.09268	ppb	96
16) Bis (2-chloroisopropyl) et	5.30	45	308961	51.17906	ppb	# 65
17) Acetophenone	5.46	105	545548	64.04066	ppb	98
18) 3&4-Methylphenol	5.48	107	859846	126.11646	ppb	96
19) n-Nitrosodi-n-propylamine	5.46	70	249088	61.02893	ppb	92
20) Hexachloroethane	5.53	117	141335	51.48441	ppb	86
23) Nitrobenzene	5.65	77	383238	55.09729	ppb	98
24) Isophorone	5.92	82	706643	57.53806	ppb	95
25) 2-Nitrophenol	6.01	139	278238	62.64677	ppb	95
26) 2,4-Dimethylphenol	6.08	122	372262	54.08568	ppb	100
27) Benzoic acid	6.27	105	270750	61.69868	ppb	98
28) Bis (2-chloroethoxy) metha	6.17	93	451891	56.01766	ppb	98
29) 2,4-Dichlorophenol	6.30	162	407244	62.04792	ppb	100
30) 1,2,4-Trichlorobenzene	6.37	180	406321	55.90795	ppb	99
31) 3,4-Dimethylphenol	6.42	107	504927	57.24421	ppb	98
32) Napthalene	6.46	128	1275107	57.60604	ppb	99
33) 4-Chloroaniline	6.54	127	282298	34.17065	ppb	98
34) 2,6-Dichlorophenol	6.54	162	373261	60.13930	ppb	96
35) Hexachloropropene	6.54	213	201149	49.19794	ppb	98
36) Hexachlorobutadiene	6.59	225	209477	52.48753	ppb	98
37) Caprolactum	6.98	55	126388	49.48722	ppb	89

(#) = qualifier out of range (m) = manual integration
 0722Y157.D Y0722NC.M Sat Aug 24 12:02:37 2019

Data File : M:\YODA\DATA\Y190722\0722Y157.D
 Acq On : 1 Aug 19 11:10
 Sample : 190729A LCS-1 1/800
 Misc :

Vial: 57
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Aug 1 15:02 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.13	107	392857	61.69165	ppb	98
39) 2-Methylnaphthalene	7.26	142	873683	58.80364	ppb	99
40) 1-Methylnaphthalene	7.37	142	867730	56.56379	ppb	98
42) Hexachlorocyclopentadiene	7.42	237	4449	17.97196	ppb	96
43) 1,2,4,5-Tetrachlorobenzene	7.45	216	420428	49.25005	ppb	99
44) 2,4,6-Trichlorophenol	7.61	196	304690	57.35107	ppb	99
45) 2,4,5-Trichlorophenol	7.67	196	301951	53.55722	ppb	98
47) 1,1'-Biphenyl	7.80	154	1089902	47.24619	ppb	98
48) 2-Chloronaphthalene	7.82	162	901608	50.74309	ppb	99
49) 2-Nitroaniline	7.97	65	197671	46.50979	ppb	93
50) Dimethyl phthalate	8.17	163	1196602	57.82084	ppb	98
51) 2,6-DNT	8.26	165	266929	53.97451	ppb	92
52) Acenaphthylene	8.31	152	1392573	50.19743	ppb	99
53) 3-Nitroaniline	8.45	138	224153	43.62507	ppb	94
54) Acenaphthene	8.50	154	871399	49.61152	ppb	99
55) 2,4-Dinitrophenol	8.61	184	143145	59.63002	ppb	93
56) 4-Nitrophenol	8.70	65	118797	54.24788	ppb	90
57) Dibenzofuran	8.70	168	1301177	50.83549	ppb	91
58) 2,4-DNT	8.73	165	360118	54.58566	ppb	87
59) 2,3,4,6-Tetrachlorophenol	8.87	232	257057	58.70506	ppb	93
60) Diethyl phthalate	8.99	149	1017401	52.22521	ppb	98
61) 4-Chlorophenyl phenyl ethe	9.10	204	537605	52.24632	ppb	94
62) Fluorene	9.11	166	1011502	50.91407	ppb	97
63) 4-Nitroaniline	9.19	138	241906	49.01581	ppb	92
66) 4,6-Dinitro-2-methylphenol	9.22	198	235169	55.66939	ppb	89
67) Diphenyl amine	9.26	169	1525308	92.26609	ppb	100
68) n-Nitrosodiphenylamine	9.26	169	1525308	92.26609	ppb	100
69) 1,2-Diphenylhydrazine	9.30	77	873100	46.72373	ppb	# 80
70) 4-Bromophenyl phenyl ether	9.68	248	351180	53.15908	ppb	98
71) Hexachlorobenzene	9.75	284	377585	55.01196	ppb	# 81
72) Atrazine	9.89	200	157157	25.57525	ppb	100
73) Pentachlorophenol	10.00	266	166560	74.98850	ppb	100
74) Phenanthrene	10.24	178	1542553	48.65884	ppb	99
75) Anthracene	10.30	178	1580769	48.54153	ppb	100
76) Carbazol	10.51	167	1489937	49.23647	ppb	99
77) Di-n-butylphthalate	10.90	149	1778307	52.38214	ppb	99
78) Fluoranthene	11.63	202	1761182	50.73036	ppb	99
80) Benzidine	11.82	184	38981	4.04743	ppb	# 91
81) Pyrene	11.90	202	1828370	48.14545	ppb	100
83) Butyl benzylphthalate	12.65	149	784235	49.48802	ppb	95
84) 3,3'-Dichlorobenzidine	13.27	252	363228	33.11362	ppb	99
85) Benz (a) anthracene	13.30	228	1675776	47.89316	ppb	100
86) Bis (2-ethylhexyl) phthala	13.31	149	1006952	51.38213	ppb	97
87) Chrysene	13.35	228	1718794	49.78938	ppb	99
88) Di-n-octylphthalate	14.03	149	1895768	52.44998	ppb	99
90) Benzo (b) fluoranthene	14.54	252	1763961	45.27990	ppb	97
91) Benzo (k) fluoranthene	14.57	252	1896260	49.12079	ppb	99
92) Benzo (a) pyrene	14.96	252	1724417	47.24914	ppb	99
93) Indeno (1,2,3-cd) pyrene	16.74	276	1982034	47.38880	ppb	95
94) Dibenz (a,h) anthracene	16.75	278	1831337	50.88947	ppb	97
95) Benzo (g,h,i) perylene	17.25	276	1804403	54.67355	ppb	97

(#) = qualifier out of range (m) = manual integration
 0722Y157.D Y0722NC.M Sat Aug 24 12:02:38 2019

Quantitation Report

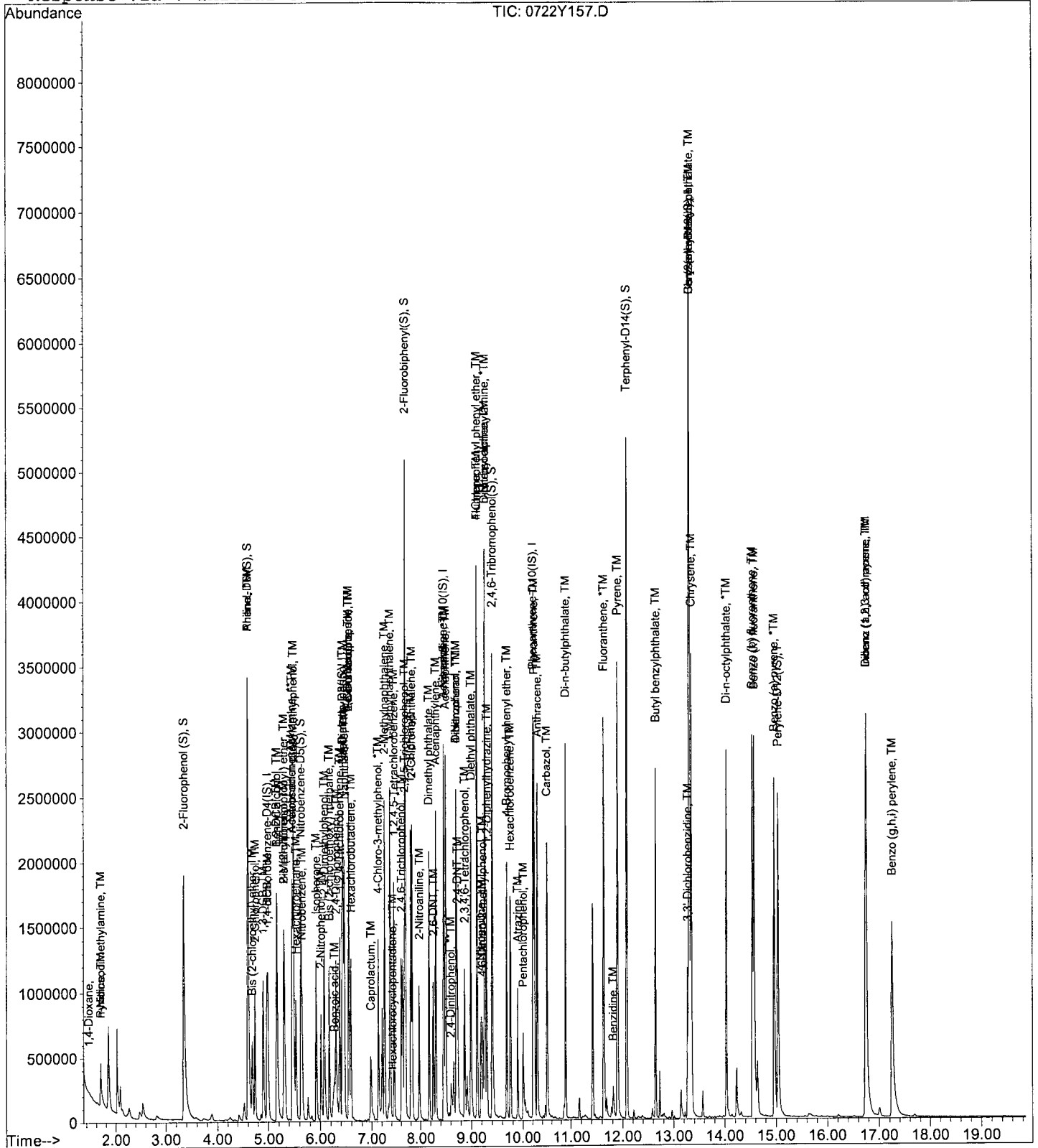
Data File : M:\YODA\DATA\Y190722\0722Y157.D
Acq On : 1 Aug 19 11:10
Sample : 190729A LCS-1 1/800
Misc :

Vial: 57
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Aug 1 15:02 2019

Quant Results File: Y0722NC.RES

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y158.D
 Acq On : 1 Aug 19 11:38
 Sample : 190729A LCSD-1 1/800
 Misc :

Vial: 58
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Aug 1 15:02 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.96	152	265350	40.00000	ppb	-0.05
21) Napthalene-D8 (IS)	6.43	136	1142006	40.00000	ppb	-0.05
41) Acenaphthene-D10 (IS)	8.46	164	692648	40.00000	ppb	-0.06
65) Phenanthrene-D10 (IS)	10.21	188	1440632	40.00000	ppb	-0.06
79) Chrysene-D12 (IS)	13.32	240	1350111	40.00000	ppb	-0.07
89) Perylene-D12 (IS)	15.04	264	1593481	40.00000	ppb	-0.09

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.35	112	1460140	207.50104	ppb	-0.04
Spiked Amount 250.000			Recovery =	83.000%		
6) Phenol-D6 (S)	4.60	99	1540313	208.27554	ppb	-0.03
Spiked Amount 250.000			Recovery =	83.310%		
22) Nitrobenzene-D5 (S)	5.63	82	734798	103.44396	ppb	-0.04
Spiked Amount 125.000			Recovery =	82.755%		
46) 2-Fluorobiphenyl (S)	7.68	172	1917096	98.53369	ppb	-0.05
Spiked Amount 125.000			Recovery =	78.827%		
64) 2,4,6-Tribromophenol (S)	9.40	330	701952	235.05390	ppb	-0.06
Spiked Amount 250.000			Recovery =	94.022%		
82) Terphenyl-D14 (S)	12.08	244	2537743	93.67759	ppb	-0.07
Spiked Amount 125.000			Recovery =	74.942%		

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.46	58	7874	14.46693		78
3) n-Nitrosodimethylamine	1.68	42	73535	76.05365	ppb	89
4) Pyridine	1.69	79	156822	65.79917	ppb	94
7) Phenol	4.61	94	542949	55.77209	ppb	86
8) Aniline	4.60	93	434523	45.69350	ppb	# 85
9) Bis (2-chloroethyl) ether	4.69	63	205906	49.50147	ppb	84
10) 2-Chlorophenol	4.74	128	444130	56.70820	ppb	94
11) 1,3-DCB	4.90	146	453844	51.39055	ppb	100
12) 1,4-DCB	4.99	146	459926	51.93151	ppb	99
13) Benzyl alcohol	5.17	108	254576	58.83714	ppb	95
14) 1,2-DCB	5.16	146	431700	52.78007	ppb	99
15) 2-Methylphenol	5.30	107	345429	55.61541	ppb	98
16) Bis (2-chloroisopropyl) et	5.30	45	299844	45.97162	ppb	# 60
17) Acetophenone	5.46	105	524613	56.99905	ppb	98
18) 3&4-Methylphenol	5.48	107	833144	113.10372	ppb	97
19) n-Nitrosodi-n-propylamine	5.46	70	240945	54.63948	ppb	98
20) Hexachloroethane	5.53	117	135667	45.74103	ppb	90
23) Nitrobenzene	5.65	77	372652	49.99038	ppb	96
24) Isophorone	5.92	82	678930	51.58240	ppb	94
25) 2-Nitrophenol	6.01	139	271539	57.04739	ppb	95
26) 2,4-Dimethylphenol	6.08	122	383188	51.94776	ppb	99
27) Benzoic acid	6.27	105	289654	61.58973	ppb	98
28) Bis (2-chloroethoxy) metha	6.17	93	442538	51.18741	ppb	99
29) 2,4-Dichlorophenol	6.30	162	395904	56.28385	ppb	99
30) 1,2,4-Trichlorobenzene	6.38	180	389580	50.01754	ppb	99
31) 3,4-Dimethylphenol	6.42	107	500973	52.99546	ppb	98
32) Napthalene	6.46	128	1232181	51.94183	ppb	99
33) 4-Chloroaniline	6.54	127	301488	34.05154	ppb	97
34) 2,6-Dichlorophenol	6.54	162	361059	54.28067	ppb	96
35) Hexachloropropene	6.54	213	191031	43.59676	ppb	98
36) Hexachlorobutadiene	6.59	225	197615	46.20203	ppb	98
37) Caprolactum	6.98	55	127023	46.40780	ppb	90

(#) = qualifier out of range (m) = manual integration
 0722Y158.D Y0722NC.M Sat Aug 24 12:02:42 2019

Data File : M:\YODA\DATA\Y190722\0722Y158.D
 Acq On : 1 Aug 19 11:38
 Sample : 190729A LCSD-1 1/800
 Misc :

Vial: 58
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Aug 1 15:02 2019

Quant Results File: Y0722NC.RES

Quant Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.13	107	382236	56.00733	ppb	95
39) 2-Methylnaphthalene	7.26	142	835592	52.47663	ppb	99
40) 1-Methylnaphthalene	7.37	142	825104	50.18615	ppb	98
42) Hexachlorocyclopentadiene	7.42	237	3626	17.24415	ppb	93
43) 1,2,4,5-Tetrachlorobenzene	7.45	216	406760	47.21232	ppb	98
44) 2,4,6-Trichlorophenol	7.60	196	294010	54.83369	ppb	100
45) 2,4,5-Trichlorophenol	7.67	196	300805	52.86505	ppb	99
47) 1,1'-Biphenyl	7.80	154	1068371	45.88846	ppb	98
48) 2-Chloronaphthalene	7.82	162	851104	47.46176	ppb	99
49) 2-Nitroaniline	7.97	65	199111	46.41932	ppb	92
50) Dimethyl phthalate	8.17	163	1150116	55.06534	ppb	98
51) 2,6-DNT	8.26	165	256496	51.38964	ppb	91
52) Acenaphthylene	8.31	152	1341684	47.91989	ppb	100
53) 3-Nitroaniline	8.46	138	221411	42.69655	ppb	# 93
54) Acenaphthene	8.50	154	833667	47.02839	ppb	99
55) 2,4-Dinitrophenol	8.60	184	139610	58.18419	ppb	97
56) 4-Nitrophenol	8.71	65	116422	52.67619	ppb	87
57) Dibenzofuran	8.71	168	1255539	48.60298	ppb	92
58) 2,4-DNT	8.73	165	357296	53.66164	ppb	83
59) 2,3,4,6-Tetrachlorophenol	8.87	232	249402	56.43495	ppb	93
60) Diethyl phthalate	8.99	149	994620	50.58798	ppb	97
61) 4-Chlorophenyl phenyl ethe	9.10	204	516222	49.70854	ppb	95
62) Fluorene	9.10	166	972669	48.51078	ppb	99
63) 4-Nitroaniline	9.19	138	237241	47.63008	ppb	# 87
66) 4,6-Dinitro-2-methylphenol	9.22	198	228613	54.01099	ppb	93
67) Diphenyl amine	9.26	169	1359301	82.06256	ppb	99
68) n-Nitrosodiphenylamine	9.26	169	1359301	82.06256	ppb	99
69) 1,2-Diphenylhydrazine	9.30	77	846799	45.22709	ppb	# 80
70) 4-Bromophenyl phenyl ether	9.68	248	340919	51.50432	ppb	98
71) Hexachlorobenzene	9.75	284	361431	52.55483	ppb	97
72) Atrazine	9.89	200	148892	24.18257	ppb	99
73) Pentachlorophenol	10.01	266	164055	73.71540	ppb	99
74) Phenanthrene	10.24	178	1505404	47.39358	ppb	99
75) Anthracene	10.30	178	1553863	47.62145	ppb	99
76) Carbazol	10.50	167	1432411	47.24235	ppb	96
77) Di-n-butylphthalate	10.90	149	1698332	49.92797	ppb	99
78) Fluoranthene	11.63	202	1697387	48.79658	ppb	99
80) Benzidine	11.83	184	24584	2.53959	ppb	91
81) Pyrene	11.90	202	1768086	46.32115	ppb	99
83) Butyl benzylphthalate	12.65	149	757583	47.56296	ppb	93
84) 3,3'-Dichlorobenzidine	13.27	252	382612	34.70329	ppb	98
85) Benz (a) anthracene	13.30	228	1637795	46.56953	ppb	99
86) Bis (2-ethylhexyl) phthala	13.31	149	948562	48.15638	ppb	# 95
87) Chrysene	13.35	228	1656229	47.73292	ppb	99
88) Di-n-octylphthalate	14.03	149	1819443	50.08220	ppb	98
90) Benzo (b) fluoranthene	14.54	252	1742456	45.13791	ppb	99
91) Benzo (k) fluoranthene	14.57	252	1836778	48.01615	ppb	99
92) Benzo (a) pyrene	14.96	252	1669944	46.17605	ppb	99
93) Indeno (1,2,3-cd) pyrene	16.75	276	1933177	46.64439	ppb	96
94) Dibenz (a,h) anthracene	16.75	278	1786595	50.10130	ppb	96
95) Benzo (g,h,i) perylene	17.25	276	1739847	53.20078	ppb	98

(#) = qualifier out of range (m) = manual integration
 0722Y158.D Y0722NC.M Sat Aug 24 12:02:42 2019

Quantitation Report

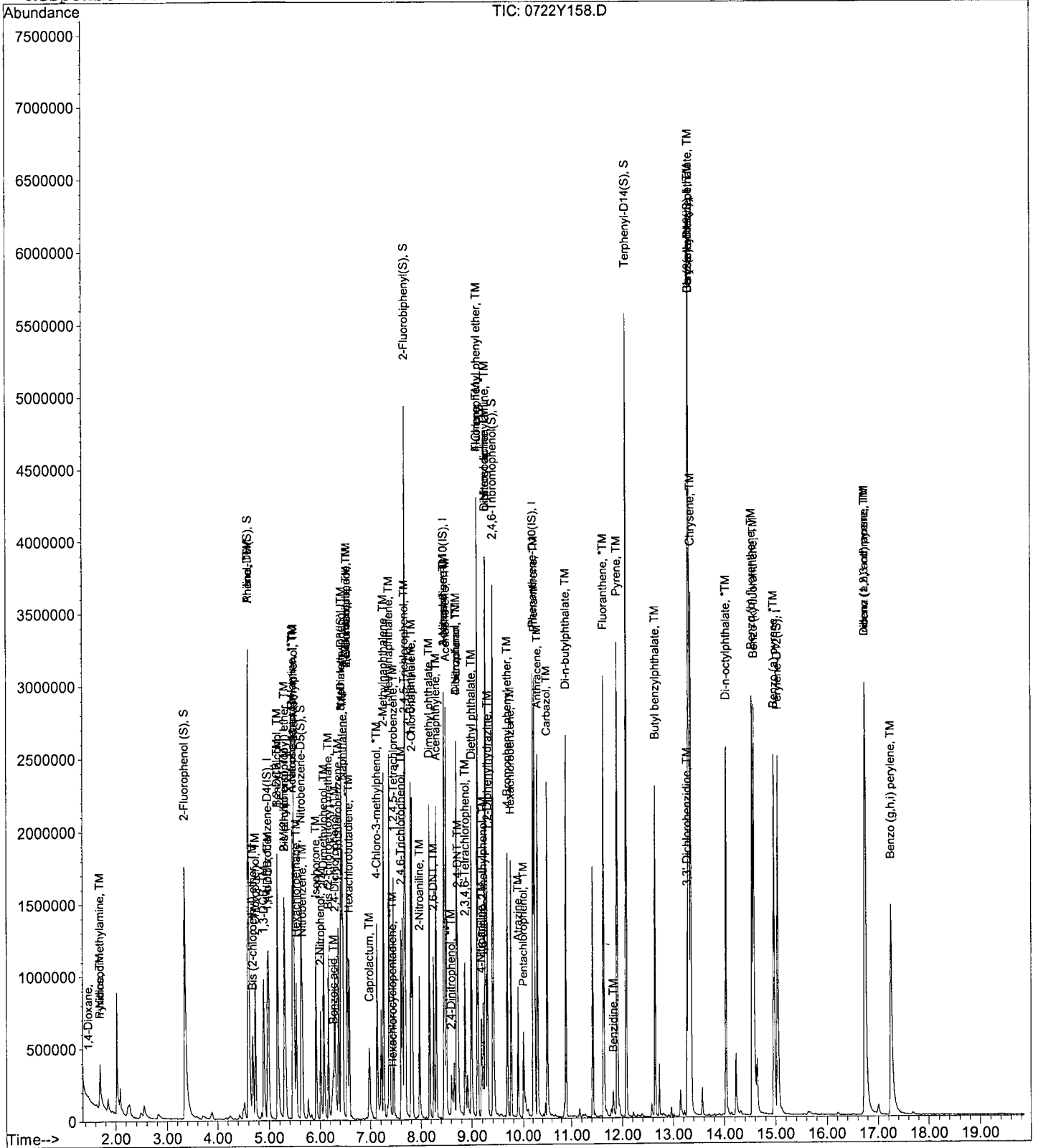
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Acq On : 1 Aug 19 11:38
Sample : 190729A LCSD-1 1/800
Misc :

Vial: 58
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Aug 1 15:02 2019

Quant Results File: Y0722NC.RES

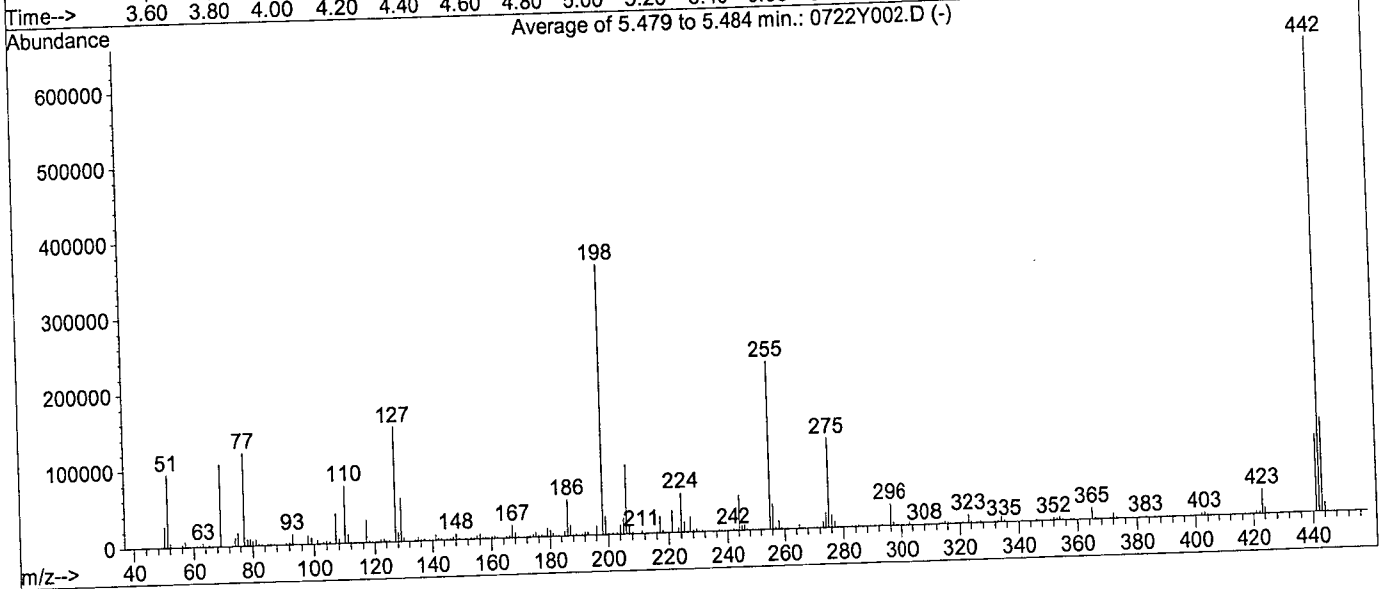
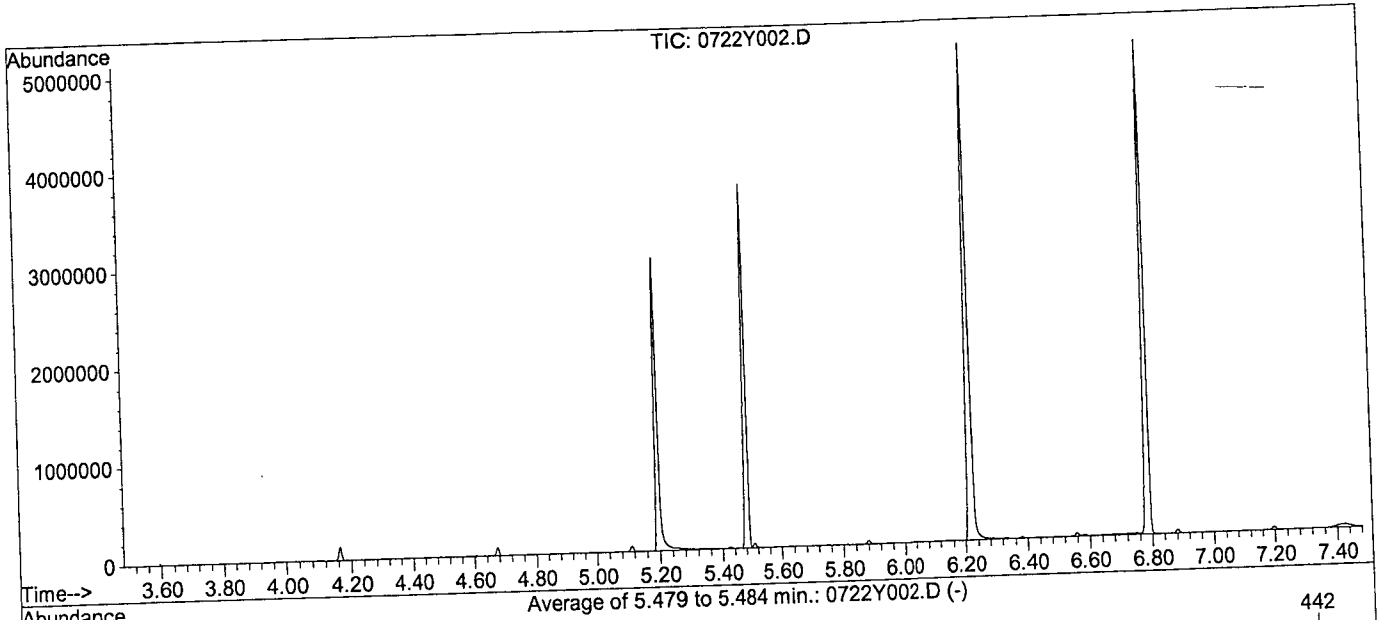
Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190722\0722Y002.D
 Acq On : 22 Jul 19 13:46
 Sample : SV TUNE 07/11/19
 Misc :

Vial: 2
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C



Spectrum Information: Average of 5.479 to 5.484 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	26.6	94405	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.5	531	PASS
127	198	10	80	42.2	149845	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	355456	PASS
199	198	5	9	6.7	23792	PASS
275	198	10	60	32.8	116749	PASS
365	198	1	100	4.2	14956	PASS
441	442	0.01	24	16.1	100755	PASS
442	198	50	500	176.3	626581	PASS
443	442	15	24	19.5	122216	PASS

Data File Name: 0722Y002.D
Data File Path: M:\YODA\DATA\Y190722\
Operator: MA,SS
Date Acquired: 22 Jul 2019 13:46
Method File: DFTPP2.M
Sample Name: SV TUNE 07/11/19
Vial Number: 2
Instrument Name: Yoda

#	Name	Ret Time	Target Response
1)	DDT	6.87	36257100
2)	DDD	6.46	129952
3)	DDE	6.66	0

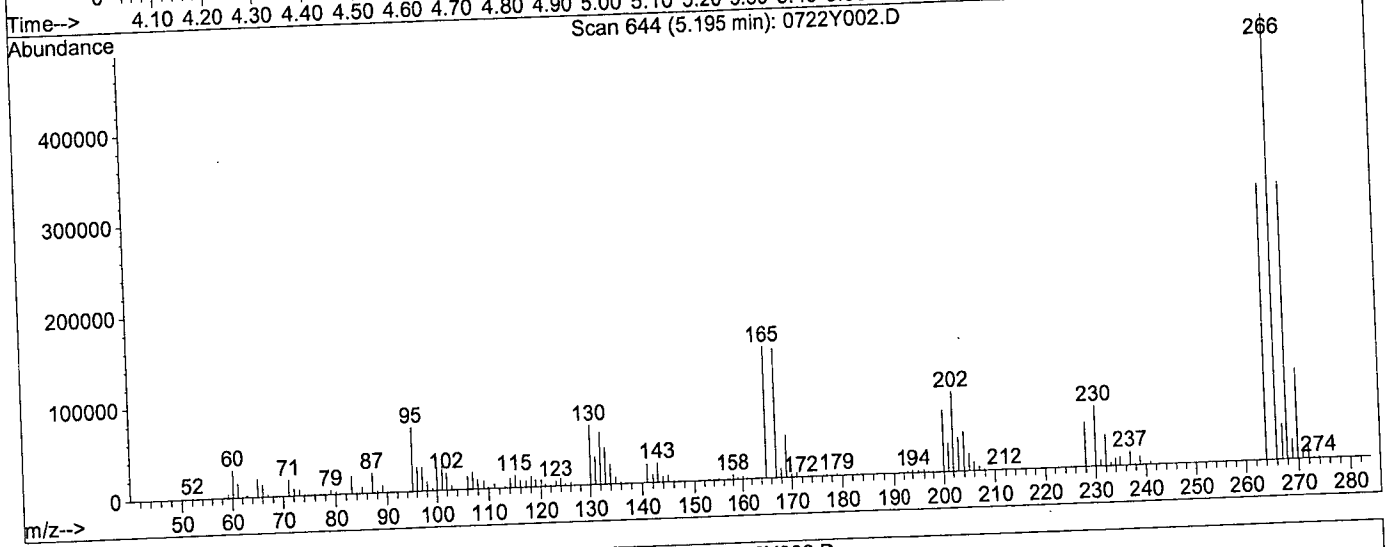
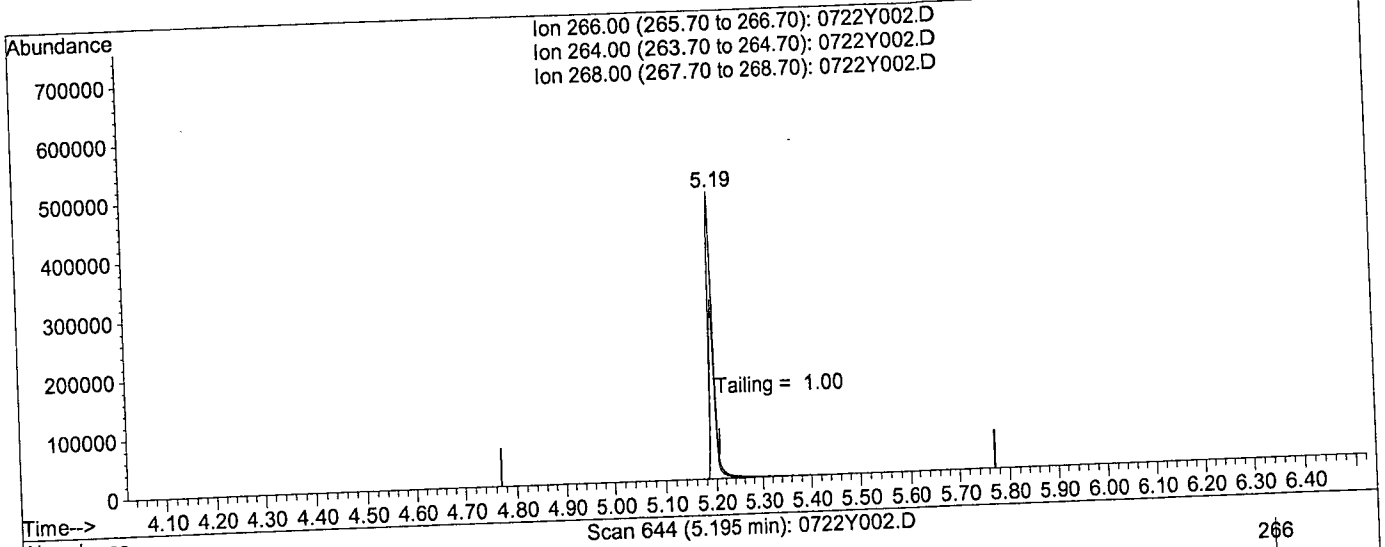
Breakdown 0.36

Quantitation Report

Data File : M:\YODA\DATA\Y190722\0722Y002.D
 Acq On : 22 Jul 19 13:46
 Sample : SV TUNE 07/11/19
 Misc :
 Quant Time: Jul 22 13:41 2019

Vial: 2
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190722\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Tue Jul 16 08:38:31 2019
 Response via : Single Level Calibration



TIC: 0722Y002.D

(5) Pentachlorophenol

5.20min 0.0000

response 3128882

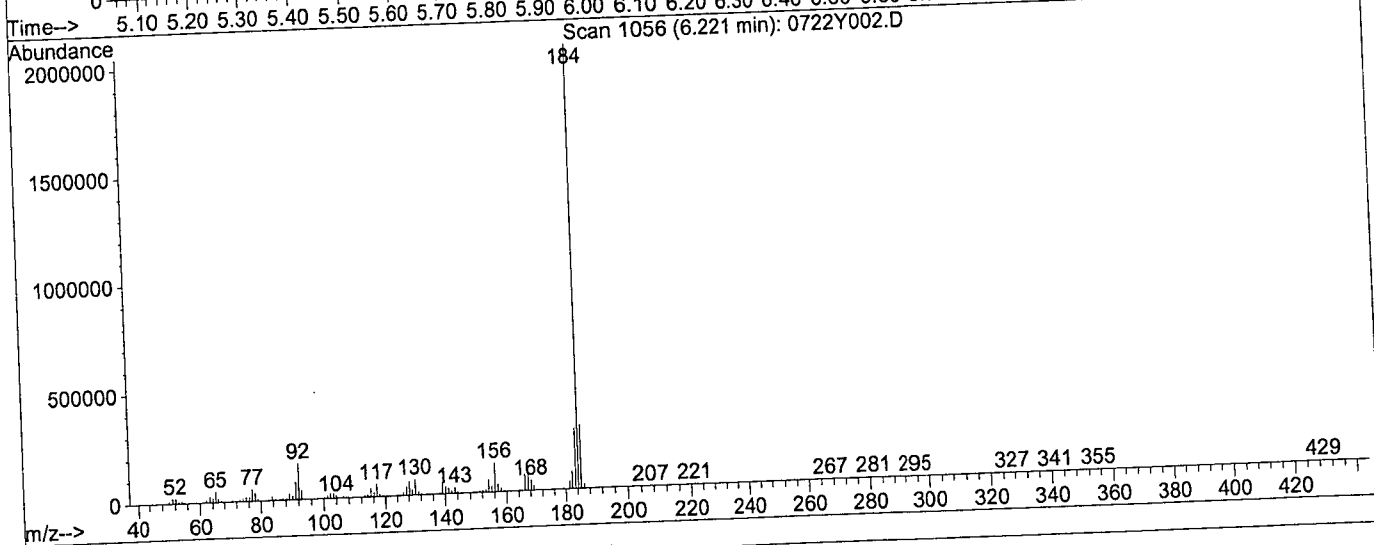
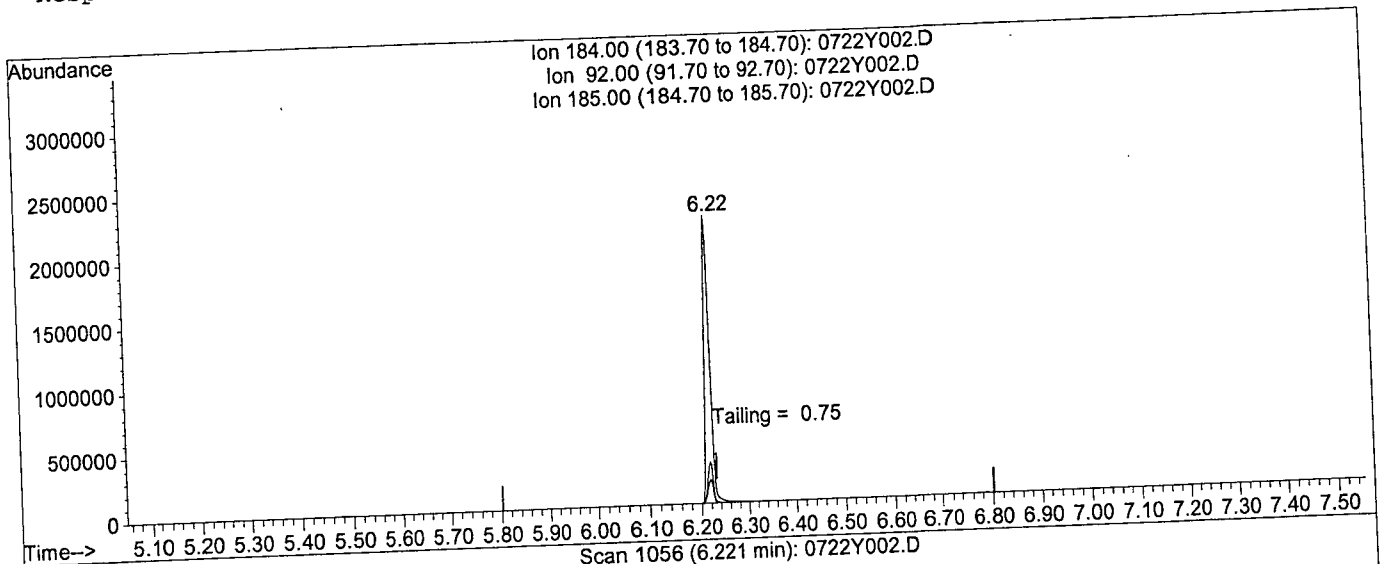
Ion	Exp%	Act%
266.00	100	100
264.00	63.30	61.86
268.00	65.70	62.20
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190722\0722Y002.D
 Acq On : 22 Jul 19 13:46
 Sample : SV TUNE 07/11/19
 Misc :
 Quant Time: Jul 22 13:41 2019

Vial: 2
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190722\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Tue Jul 16 08:38:31 2019
 Response via : Single Level Calibration



TIC: 0722Y002.D

(6) Benzidine

6.22min 0.0000

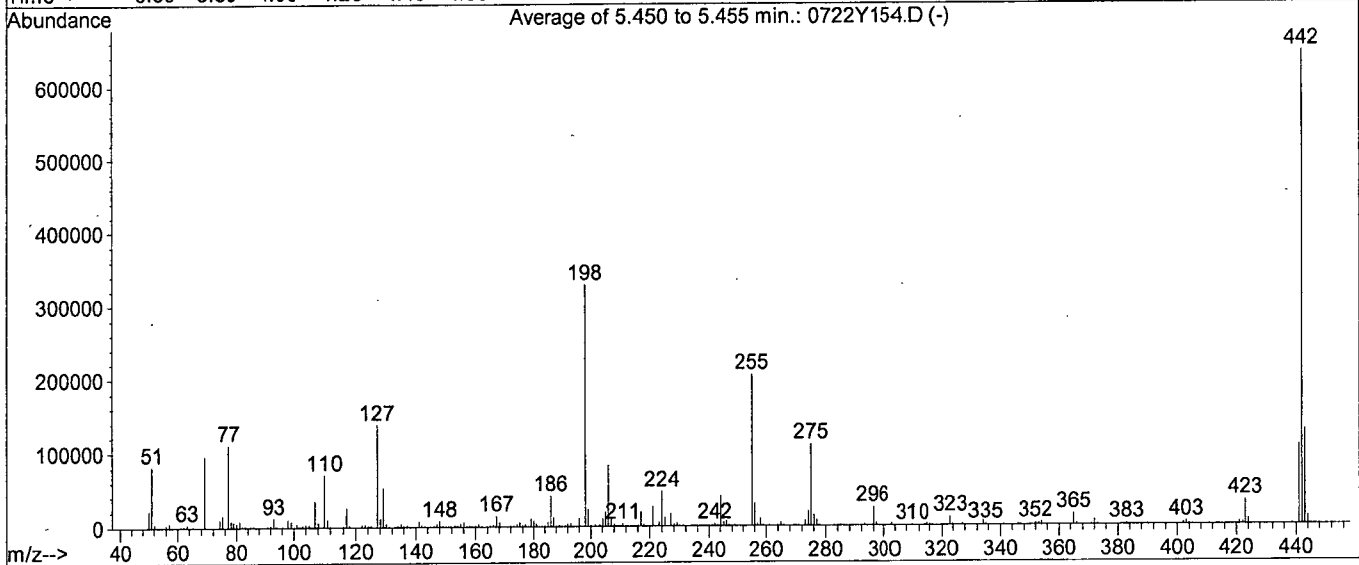
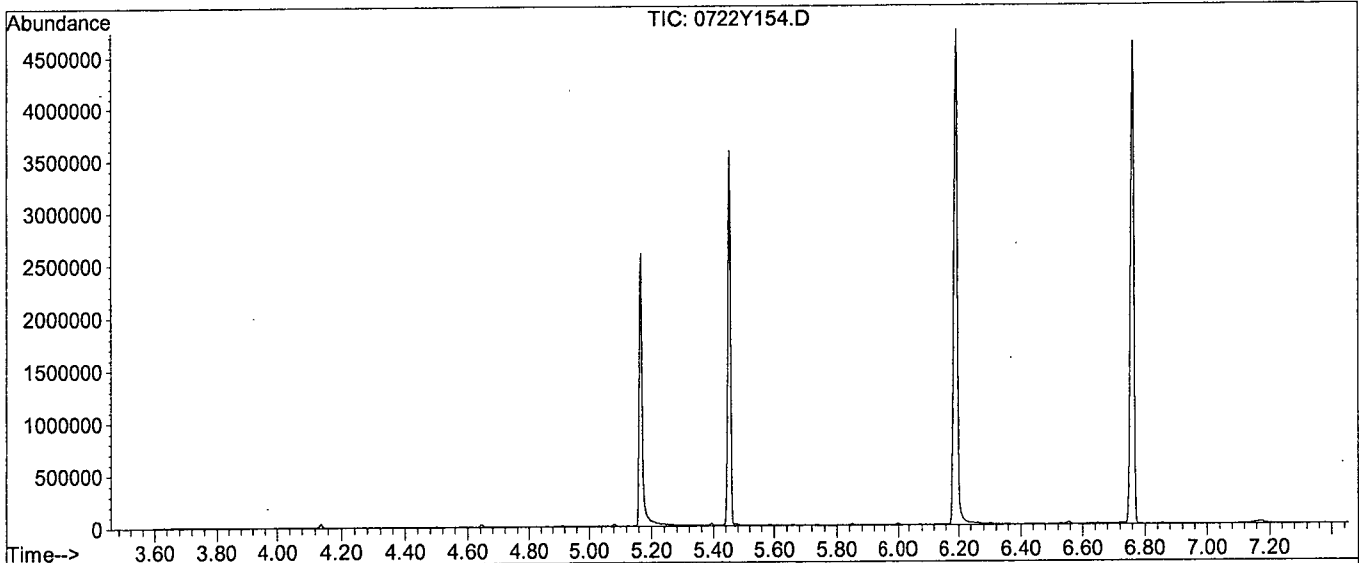
response 16652803

Ion	Exp%	Act%
184.00	100	100
92.00	7.90	8.30
185.00	14.30	14.23
0.00	0.00	0.00

Data File : M:\YODA\DATA\Y190722\0722Y154.D
 Acq On : 1 Aug 19 9:35
 Sample : SV TUNE 7/11/19
 Misc :

Vial: 54
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Method : M:\YODA\DATA\Y190722\Y0722NC.M (RTE Integrator)
 Title : EPA 8270C



Spectrum Information: Average of 5.450 to 5.455 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	24.9	81771	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.2	184	PASS
127	198	10	80	42.2	138488	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	328491	PASS
199	198	5	9	6.8	22280	PASS
275	198	10	60	33.6	110216	PASS
365	198	1	100	4.6	15157	PASS
441	442	0.01	24	16.5	106899	PASS
442	198	50	500	196.7	646165	PASS
443	442	15	24	19.8	128024	PASS

Data File Name: 0722Y154.D
Data File Path: M:\YODA\DATA\Y190722\
Operator: MA,SS
Date Acquired: 1 Aug 19 9:35
Method File: DFTPP2.M
Sample Name: SV TUNE 7/11/19
Vial Number: 54
Instrument Name: Yoda

#	Name	Ret Time	Target Response
1)	DDT	6.76	34066700
2)	DDD	6.35	0
3)	DDE	6.56	175754

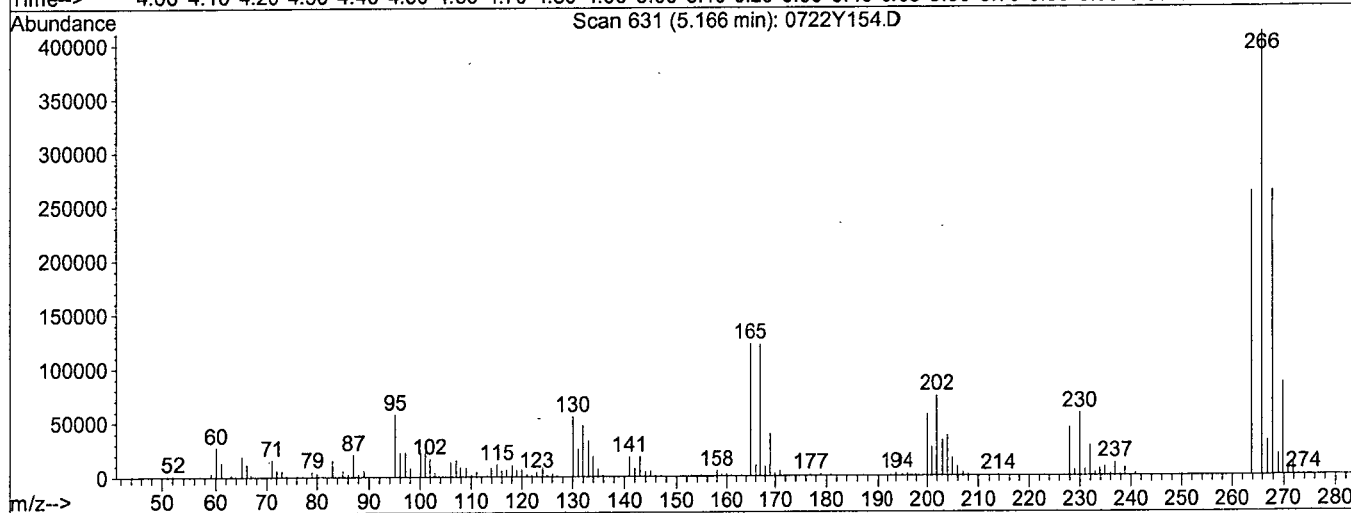
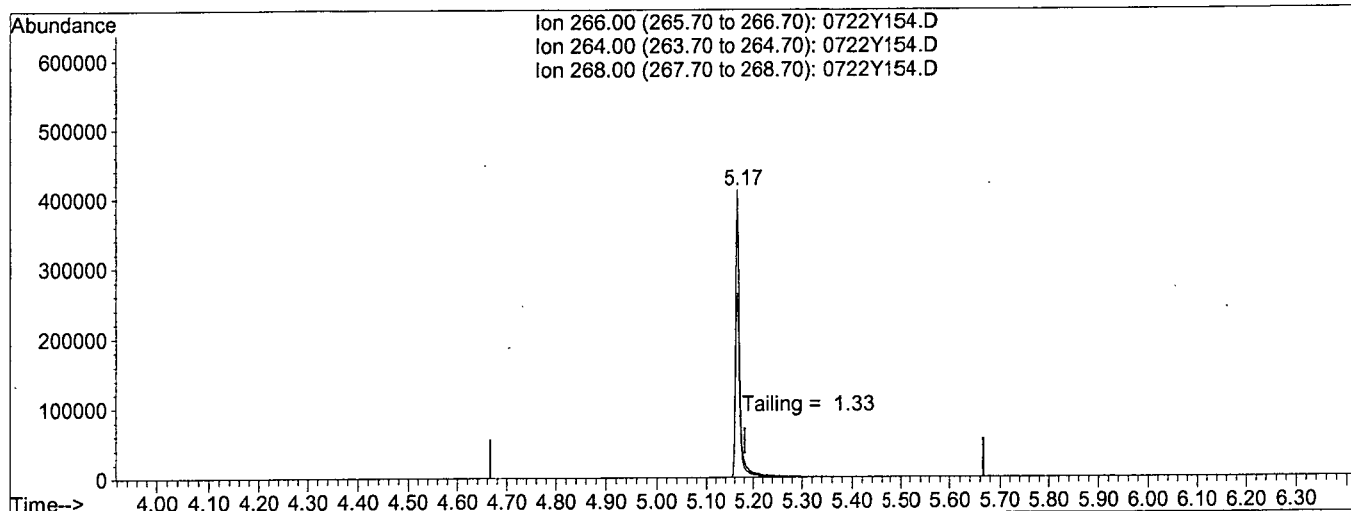
Breakdown 0.51

Quantitation Report

Data File : M:\YODA\DATA\Y190722\0722Y154.D
 Acq On : 1 Aug 19 9:35
 Sample : SV TUNE 7/11/19
 Misc :
 Quant Time: Aug 1 9:40 2019

Vial: 54
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190722\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Wed Jul 31 09:45:54 2019
 Response via : Single Level Calibration



TIC: 0722Y154.D

(5) Pentachlorophenol

5.17min 0.0000

response 2700189

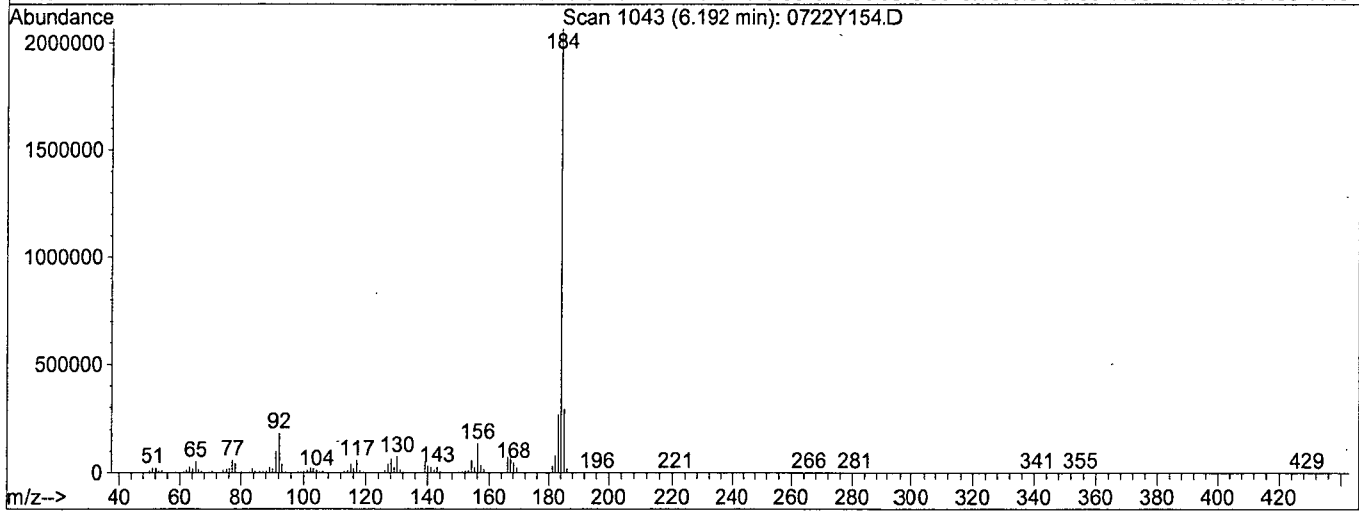
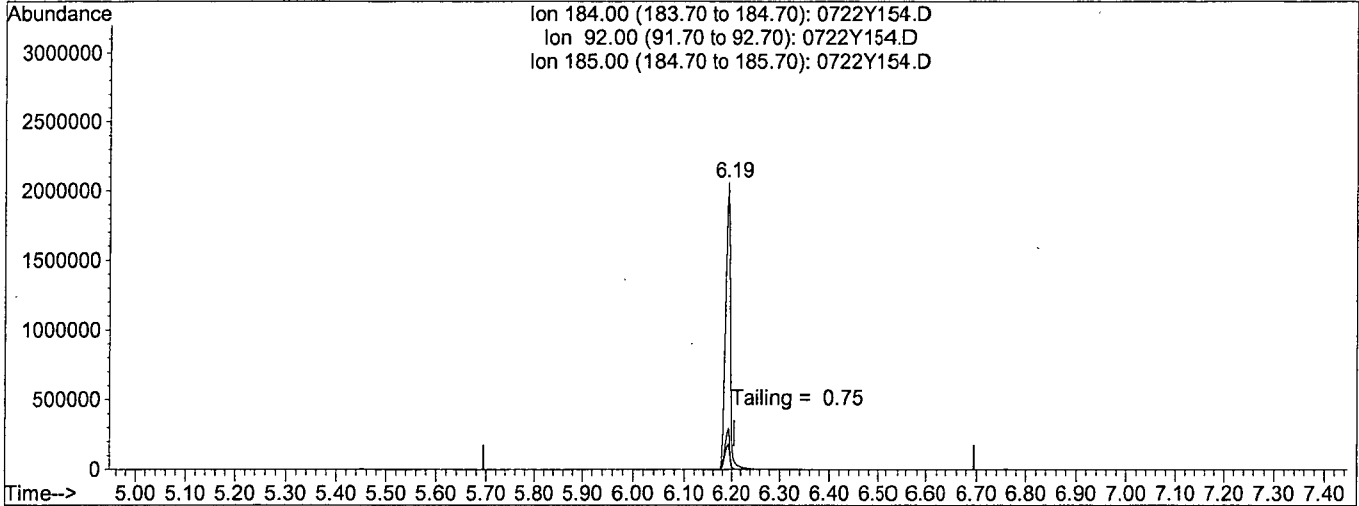
Ion	Exp%	Act%
266.00	100	100
264.00	62.00	61.04
268.00	64.10	63.76
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190722\0722Y154.D
 Acq On : 1 Aug 19 9:35
 Sample : SV TUNE 7/11/19
 Misc :
 Quant Time: Aug 1 9:40 2019

Vial: 54
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190722\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Wed Jul 31 09:45:54 2019
 Response via : Single Level Calibration



TIC: 0722Y154.D

(6) Benzidine

6.19min 0.0000

response 15633728

Ion	Exp%	Act%
184.00	100	100
92.00	9.00	8.66
185.00	14.40	14.04
0.00	0.00	0.00

Name of Final Standard

8270 Full Scan Standard Curve

Prep'd By
(Initials)

GA

Prep Date

07/12/19

Exp Date

10/20/19

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	4 uL	200uL	MC 56258 192uL	4 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	4 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	4 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	5 uL	200uL	MC 56258 190uL	5 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	5 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	4 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	5 uL	100uL	MC 56258 90uL	10 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	5 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	10 uL	100uL	MC 56258 80uL	20 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	10 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	20 uL	100uL	MC 56258 60uL	40 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	20 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	50 uL	200 uL	MC 56258 100uL	50 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	50 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	4 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	30 uL	100uL	MC 56258 40uL	60 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	30 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	40 uL	100uL	MC 56258 20uL	80 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	40 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	50 uL	100uL	na	100 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	50 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	2 uL	*	*	*

Name of Final Standard **8270 Full Scan Spike**
 Prep Date **03/05/19**
 Exp Date **10/20/19**

Prep'd By (Initials) **GA**

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
10001	Absolute	10001	2000	051018-39827	03/05/20	2.0 mL	20 mL	NA	200 ug/mL
10002	Absolute	10002	2000	051018-39832 051018-39833	03/05/20	2.0 mL	*	*	200 ug/mL
10004	Absolute	10004	2000	031618-39836 031618-39839	01/30/20	2.0 mL	*	*	200 ug/mL
10005	Absolute	10005	2000	032018-40011 032018-40012	01/30/20	2.0 mL	*	*	200 ug/mL
10006	Absolute	10006	2000	071318-39842 071318-39843	01/30/20	2.0 mL	*	*	200 ug/mL
10007	Absolute	10007	2000	080116-40016 080116-40017	01/30/20	2.0 mL	*	*	200 ug/mL
10018	Absolute	10018	2000	062718-39847 062718-39848	01/30/20	2.0 mL	*	*	200 ug/mL
70023	Absolute	70023	1000	091217-39852 091217-39853	01/30/20	2.0 mL	*	*	100 ug/mL
82705	Absolute	82705	2000	081418-40020 081418-40021	01/30/20	2.0 mL	*	*	200 ug/mL
94552	Absolute	94552	various	102017-40026 102017-40027	10/20/19	2.0 mL	*	*	various

Name of Final Standard **8270 SS STOCK**
 Prep Date **03/05/19**
 Exp Date **01/08/20**

Prep'd By (Initials) **GA**

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
10001	Absolute	10001	2000	031618-39202	03/05/20	1.0 mL	10 mL	NA	200 ug/mL
10002	Absolute	10002	2000	G34-020217-38182	02/02/20	1.0 mL	*	*	200 ug/mL
10004	Absolute	10004	2000	010815-38625	01/08/20	1.0 mL	*	*	200 ug/mL
10005	Absolute	10005	2000	041317-37804	03/05/20	1.0 mL	*	*	200 ug/mL
10006	Absolute	10006	2000	011718-38827	03/05/20	1.0 mL	*	*	200 ug/mL
10007	Absolute	10007	2000	020515-38627	02/05/20	1.0 mL	*	*	200 ug/mL
10018	Absolute	10018	2000	G34-030216-38195	03/05/20	1.0 mL	*	*	200 ug/mL
70023	Absolute	70023	1000	013118-38830	03/05/20	1.0 mL	*	*	100 ug/mL
82705	Absolute	82705	2000	090617-38832	03/05/20	1.0 mL	*	*	200 ug/mL
94552	Absolute	94552	various	013118-40453	01/31/20	1.0 mL	*	*	various

Final **8270 Surrogate 200/400 ppm**
 Prep Date 07/10/19
 Exp Date 06/24/20

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Initial Standard	Supplier	P/N# (or APPL Mix)	Conc.(range)	QA # (or reference)	Exp Date	Aliquot from Stock	Final Volume	Solvent + Lot# (or)	Standard Conc.
Surrogate	Restek	33029	ug/mL	39902	06/24/20	200 uL	5 mL	4,600 uL	400 ug/mL
Surrogate	Restek	31086	ug/mL	40114	06/24/20	200 uL	*	*	200 ug/mL

Final **8270 Internal Standard**
 Prep Date 05/17/19
 Exp Date 05/17/20

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Initial Standard	Supplier	P/N# (or APPL Mix)	Conc.(range)	QA # (or reference)	Exp Date	Aliquot from Stock	Final Volume	Solvent + Lot# (or)	Standard Conc.
e Internal	Restek	31206	2000ug/mL	39543	11/30/24	2 mL	2 mL	NA	2000ug/mL

Name of Final Standard **8270 Full Scan Second Source**
 Prep Date 07/12/19
 Exp Date 01/08/20

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
8270 SS Stock	o2si	8270 SS Stock	200 ug/mL	03/05/19	01/08/20	50 uL	200uL	MC 56258 150uL	50 ug/mL
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/17/19	07/10/20	4 uL	*	*	*

Name of Final Standard Semivolatile (SV) Tuning Solution
 Prep Date 07/11/19
 Exp Date 09/30/19

Prep'd By (Initials) JP

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Semivolatile GC/MS Tuning Standard	Ultra Scientific	GCM-150-1	1,000 ug/mL	CR3789-38879	09/30/19	1,250 uL	25 mL	MC #58240	50 ug/mL

Name of Final Standard 8270 Spike
 Prep Date 06/14/19
 Exp Date 06/14/20
 Methanol Lot# 208858

Prep'd By (Initials) JP

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent (or APPL Prep Date)	Final Standard Conc (range)
8270 Stock spike	APPL	8270 STD	200:100 ug/mL	06/14/19	06/14/20	6.25 mL	25 mL	Methanol 208858	50:25 ug/mL

Name of Final Standard 8270 Spike
 Prep Date 05/29/19
 Exp Date 05/16/20
 Methanol Lot# 208858

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent (or APPL Prep Date)	Final Standard Conc (range)
8270 Stock spike	APPL	8270 STD	200:100 ug/mL	05/16/19	5/16/20	12.5 mL	50 mL	Methanol 208858	50:25 ug/mL

Organic Extraction Worksheet

Method	Continuous Liquid/Liquid SVOC 3520C	Extraction Set	190729A	Extraction Method	LIQ003	Units	mL
Spiked ID 1	8270T Spike 6/19/19-12/19/19	Surrogate ID 1	8270 Surrogate 6/24/19-4/10/20				
Spiked ID 2	Sim Spike 7/24/19-7/9/20	Surrogate ID 2	SIM Surrogate 7/19/19-7/1/20				
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:	no				
Spiked ID 7		Ext. Start Time:	07/29/19 13:50				
Spiked ID 8		Ext. End Time:	07/31/19 12:05				
		GC Requires Extract By:	08/01/19 0:00				
		pH1	2	07/29/19 13:55	Water Bath Temp 1 °C	75/74.9	EWB6 °
		pH2	14	07/30/19 12:35	Water Bath Temp 2 °C		
		pH3			Water Bath Temp 3 °C		

Spiked By: DL

Date 07/29/19

Witnessed By: CFM

Date 07/29/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1 190729A BIK				1,0.050	1,2	800	1	2/1	07/29/19 13:50	
					equip	E-HP51 E-WB6				
2 190729A LCS-1		1	1	1	1	800	1	2/1	07/29/19 13:50	
					equip	E-HP50 E-WB6				
3 190729A LCS-2		0.125	2	0.050	2	800	1	2/1	07/29/19 13:50	
					equip	E-HP49 E-WB6				
4 190729A LCSD-1		1	1	1	1	800	1	2/1	07/29/19 13:50	
					equip	E-HP48 E-WB6				
5 190729A LCSD-2		0.125	2	0.050	2	800	1	2/1	07/29/19 13:50	
					equip	E-HP47 E-WB6				
6 AZ95419	AZ95419W08			1,0.050	1,2	800	1	2/1	07/29/19 13:50	89607
					equip	E-HP25 E-WB6				
7 AZ95421	AZ95421W08			1,0.050	1,2	800	1	2/1	07/29/19 13:50	89607
					equip	E-HP26 E-WB6				
8 AZ95423	AZ95423W10			1,0.050	1,2	800	1	2/1	07/29/19 13:50	89607
					equip	E-HP27 E-WB6				
9 AZ95511	AZ95511W15			1,0.050	1,2	800	1	2/1	07/29/19 13:50	89624
					equip	E-HP28 E-WB6				
10 AZ95513	AZ95513W13			1,0.050	1,2	800	1	2/1	07/29/19 13:50	89624
					equip	E-HP29 E-WB6				

SS 8/31/19

Solvent and Lot#	
PH Strips	HC863463
Dichloromethane (DCM)	58240
1+1 H2SO4	7/2/19
10N NaOH	7/16/19
Filter Paper	400163
Acidified Na2SO4	2/28/19
B. Na2SO4	2019010772

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	<i>[Signature]</i>
Date	7/31/19
Time	1500
Refrigerator	GC-C

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	08/04/19 9:45:38 AM

Reviewed By: *[Signature]* Page 287 of 579 Date 8/31/19

Injection Log

Directory: M:\YODA\DATA\Y190722\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	2	0722Y002.D	1	SV TUNE 07/11/19		22 Jul 19 13:46
2	3	0722Y003.D	1	4ug/ml 8270 07/12/19		22 Jul 19 14:01
3	4	0722Y004.D	1	5ug/ml 8270 07/12/19		22 Jul 19 14:29
4	5	0722Y005.D	1	10ug/ml 8270 07/12/19		22 Jul 19 14:57
5	6	0722Y006.D	1	20ug/ml 8270 07/12/19		22 Jul 19 15:25
6	7	0722Y007.D	1	40ug/ml 8270 07/12/19		22 Jul 19 15:53
7	8	0722Y008.D	1	50ug/ml 8270 07/12/19		22 Jul 19 16:21
8	9	0722Y009.D	1	60ug/ml 8270 07/12/19		22 Jul 19 16:49
9	10	0722Y010.D	1	80ug/ml 8270 07/12/19		22 Jul 19 17:17
10	11	0722Y011.D	1	100ug/ml 8270 07/12/19		22 Jul 19 17:45
11	12	0722Y012.D	1	SS 8270 07/12/19		22 Jul 19 18:13
12	54	0722Y154.D	1	SV TUNE 7/11/19		1 Aug 19 9:35
13	55	0722Y155.D	1	50ug/ml 8270 07/12/19 (6)		1 Aug 19 10:00
14	56	0722Y156.D	1.25	190729A BLK 1/800		1 Aug 19 10:42
15	57	0722Y157.D	1.25	190729A LCS-1 1/800		1 Aug 19 11:10
16	58	0722Y158.D	1.25	190729A LCSD-1 1/800		1 Aug 19 11:38
17	65	0722Y165.D	1.25	AZ95511W15 1/800		1 Aug 19 14:54
18	66	0722Y166.D	1.25	AZ95513W13 1/800		1 Aug 19 15:22
19	67	0722Y167.D	1	50ug/ml 8270 07/12/19 (3)		1 Aug 19 15:50

Injection Log

Directory: M:\YODA\DATA\Y190722\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	2	0722Y002.D	1	SV TUNE 07/11/19		22 Jul 19 13:46
2	3	0722Y003.D	1	4ug/ml 8270 07/12/19		22 Jul 19 14:01
3	4	0722Y004.D	1	5ug/ml 8270 07/12/19		22 Jul 19 14:29
4	5	0722Y005.D	1	10ug/ml 8270 07/12/19		22 Jul 19 14:57
5	6	0722Y006.D	1	20ug/ml 8270 07/12/19		22 Jul 19 15:25
6	7	0722Y007.D	1	40ug/ml 8270 07/12/19		22 Jul 19 15:53
7	8	0722Y008.D	1	50ug/ml 8270 07/12/19		22 Jul 19 16:21
8	9	0722Y009.D	1	60ug/ml 8270 07/12/19		22 Jul 19 16:49
9	10	0722Y010.D	1	80ug/ml 8270 07/12/19		22 Jul 19 17:17
10	11	0722Y011.D	1	100ug/ml 8270 07/12/19		22 Jul 19 17:45
11	12	0722Y012.D	1	SS 8270 07/12/19		22 Jul 19 18:13
12	54	0722Y154.D	1	SV TUNE 7/11/19		1 Aug 19 9:35
13	55	0722Y155.D	1	50ug/ml 8270 07/12/19 (6)		1 Aug 19 10:00
14	56	0722Y156.D	1.25	190729A BLK 1/800		1 Aug 19 10:42
15	57	0722Y157.D	1.25	190729A LCS-1 1/800		1 Aug 19 11:10
16	58	0722Y158.D	1.25	190729A LCSD-1 1/800		1 Aug 19 11:38
17	65	0722Y165.D	1.25	AZ95511W15 1/800		1 Aug 19 14:54
18	66	0722Y166.D	1.25	AZ95513W13 1/800		1 Aug 19 15:22
19	67	0722Y167.D	1	50ug/ml 8270 07/12/19 (3)		1 Aug 19 15:50

ORGANICS
Calibration Data

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/30/19
Instrument: Linus

Initials: _____

0730L004.D 0730L005.D 0730L006.D 0730L007.D 0730L008.D 0730L009.D 0730L010.D

	Compound	1	2	3	4	5	6	7	8			Avg	%RSD	Type	r ²	Q	MRF
1	I 1,4-dichlorobenzene-D4(IS)																
2	TM 2-(2-Methoxyethoxy)ethanol	0.0513	0.0486	0.0503	0.0603	0.0658	0.0514	0.0494	0.0498			0.05	12	TM			
3	I Napthalene-D8(IS)																
4	I Acenaphthene-D10(IS)																
5	I Phenanthrene-D10(IS)																
6	I Chrysene-D12(IS)																
7	I Perylene-D12(IS)																
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
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32																	
33																	
34																	
35																	

Data File : M:\LINUS\DATA\L190730M\0730L003.D Vial: 3
 Acq On : 30 Jul 19 11:54 Operator: MA
 Sample : 500ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 30 15:11 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.15	152	1252960m	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.06	136	4766611	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3290611	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	6280174	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	7882794	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	8242249	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.72	45	1031220	602.48523	ppb	100

Quantitation Report

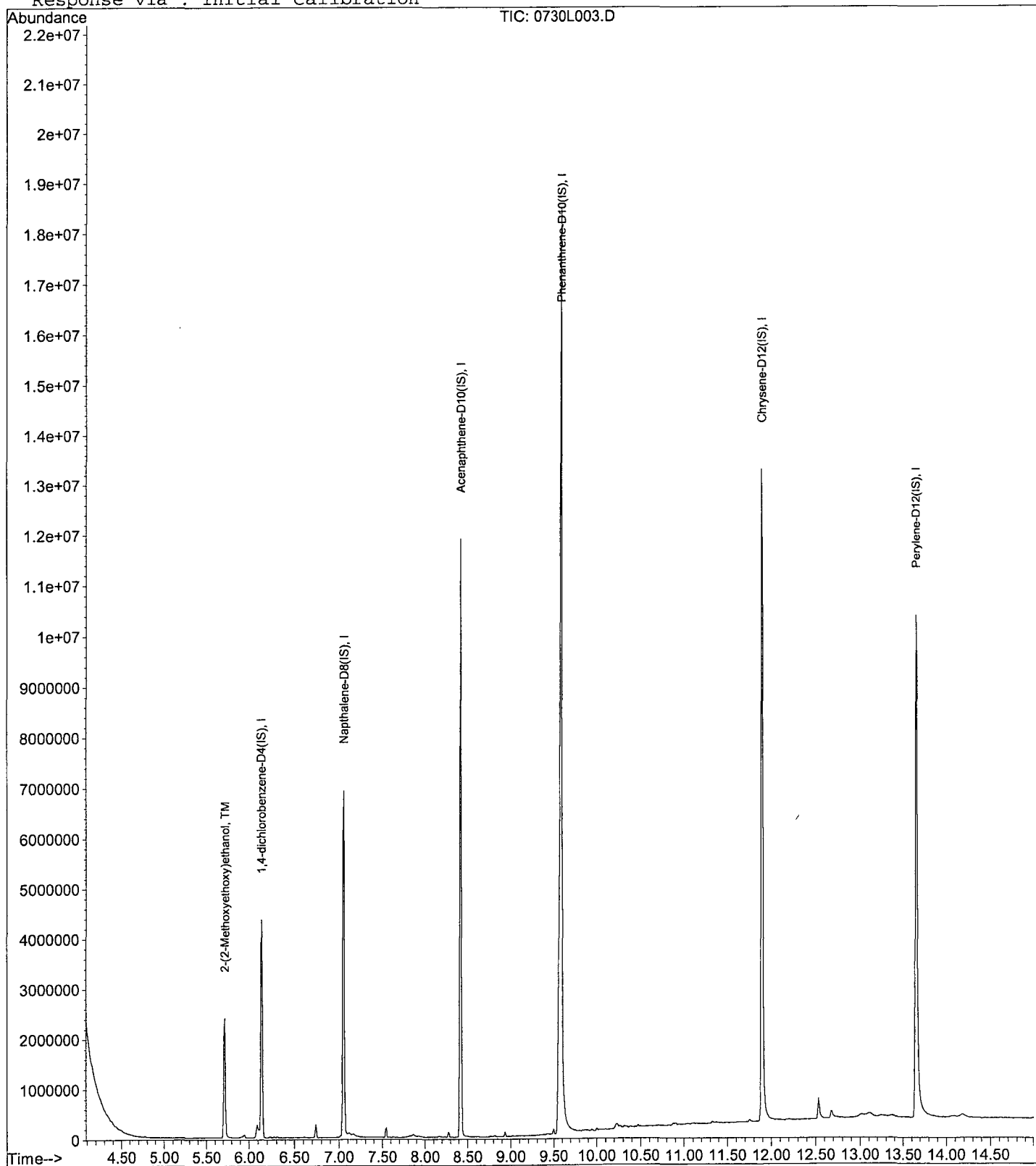
Data File : M:\LINUS\DATA\L190730M\0730L003.D
Acq On : 30 Jul 19 11:54
Sample : 500ug/ml MEE 04/30/19
Misc :

Vial: 3
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:11 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration

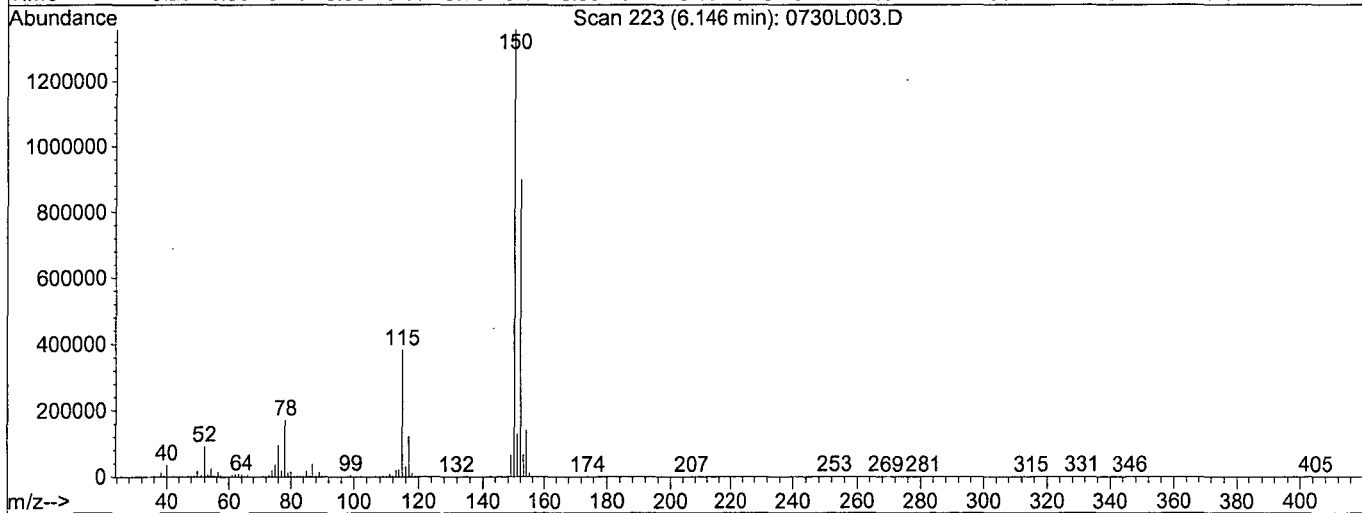
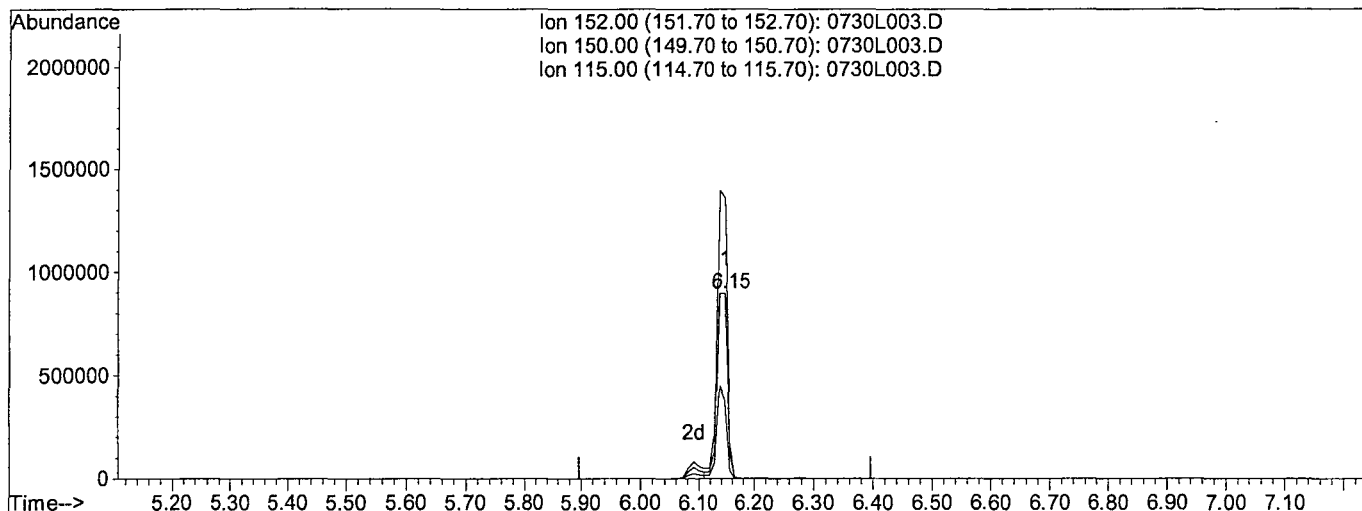


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L003.D
 Acq On : 30 Jul 19 11:54
 Sample : 500ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:11 2019

Vial: 3
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L003.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.15min 40.0000ppb

response 1162118

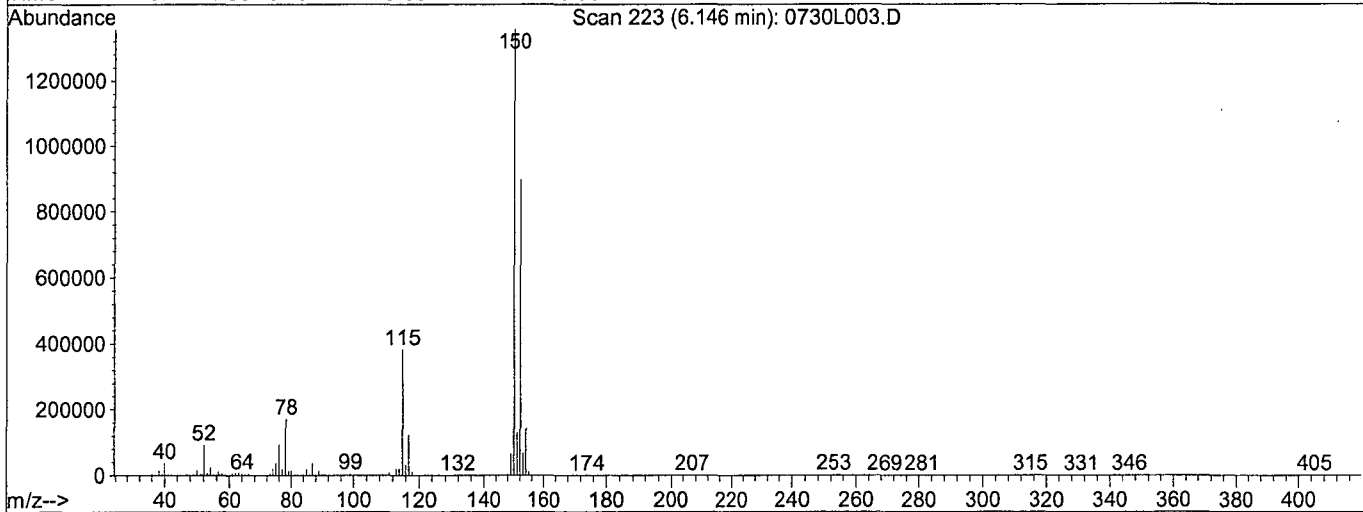
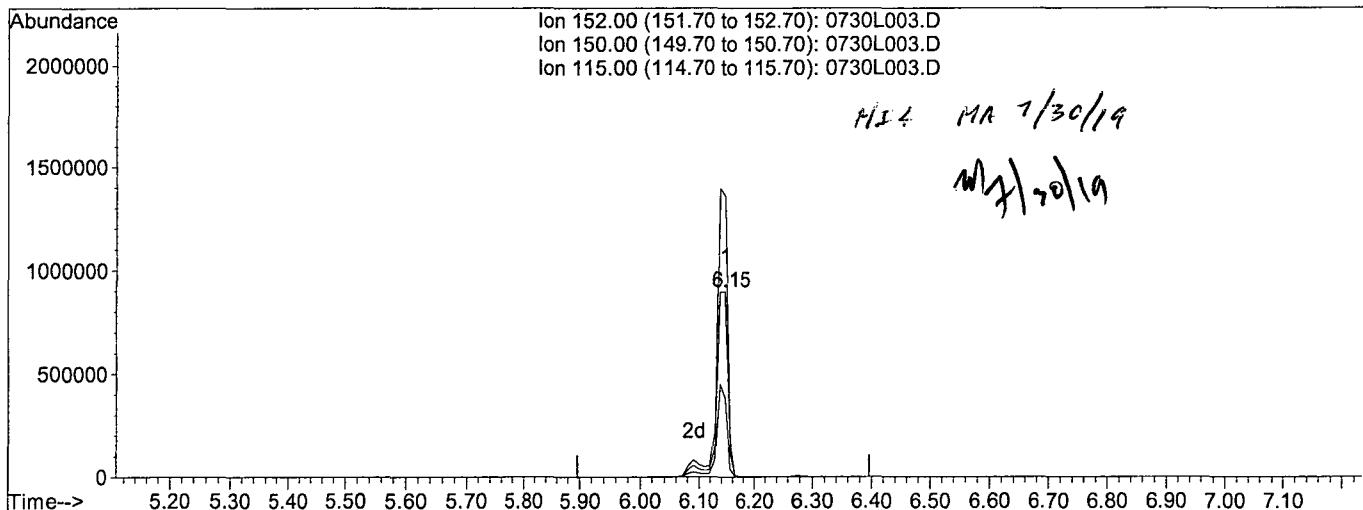
Ion	Exp%	Act%
152.00	100	100
150.00	151.30	151.29
115.00	42.60	42.59
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L003.D
Acq On : 30 Jul 19 11:54
Sample : 500ug/ml MEE 04/30/19
Misc :
Quant Time: Jul 30 15:11 2019

Vial: 3
Operator: MA
Inst : Linus
Multiplr: 1.00
Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:09:12 2019
Response via : Multiple Level Calibration



TIC: 0730L003.D

(1) 1,4-dichlorobenzene-D4(IS) (I)		
6.15min	40.0000ppb m	
response	1252960	
Ion	Exp%	Act%
152.00	100	100
150.00	151.30	151.32
115.00	42.60	42.57
0.00	0.00	0.00

Data File : M:\LINUS\DATA\L190730M\0730L004.D Vial: 4
 Acq On : 30 Jul 19 12:18 Operator: MA
 Sample : 50ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 30 15:11 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.10	152	1583836	40.00000	ppb	-0.05
3) Napthalene-D8 (IS)	7.05	136	4068946	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3257857	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7336759	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	7870725	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	9316764	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.67	45	101552	46.93648	ppb	98

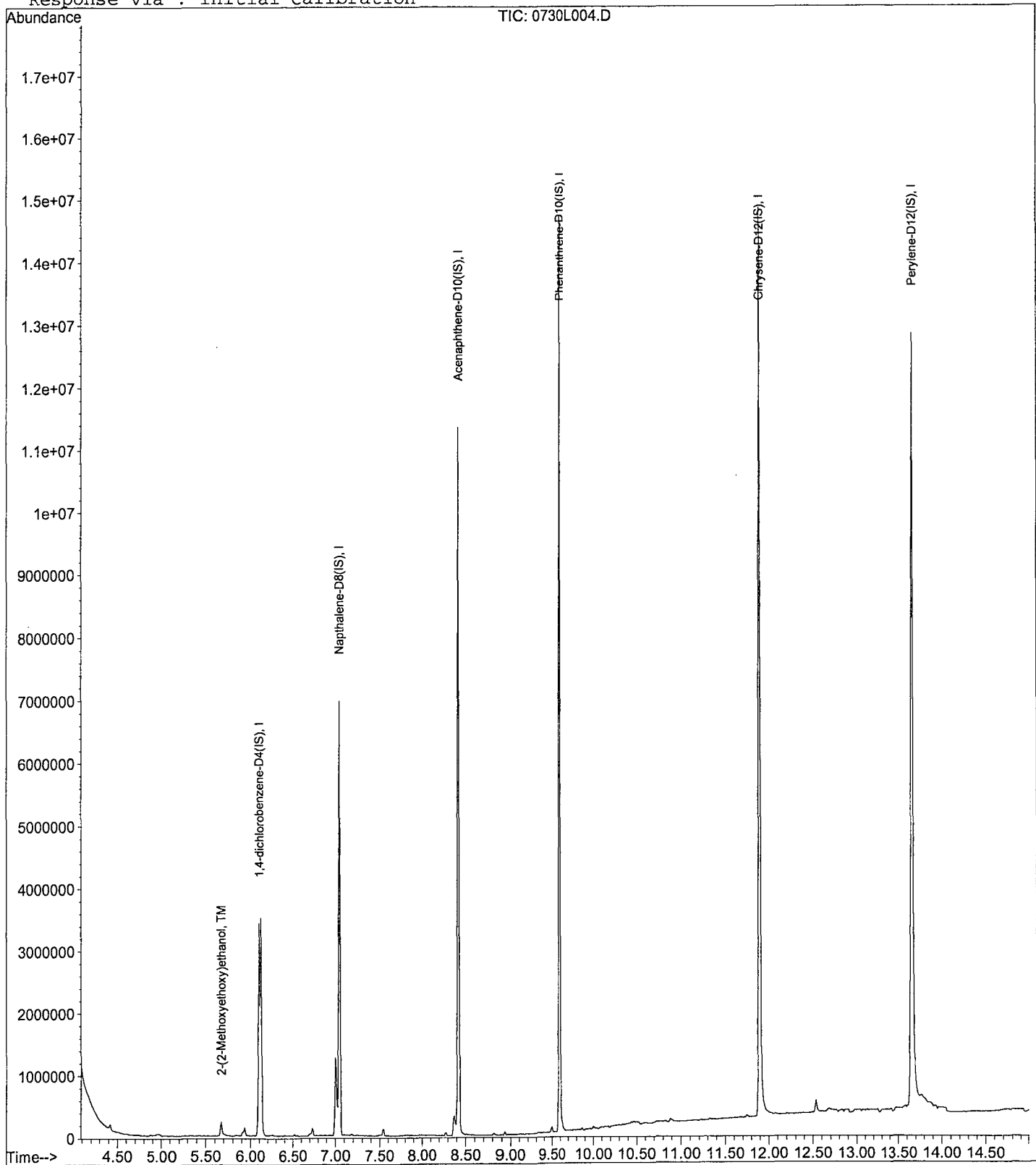
Data File : M:\LINUS\DATA\L190730M\0730L004.D
Acq On : 30 Jul 19 12:18
Sample : 50ug/ml MEE 04/30/19
Misc :

Vial: 4
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:11 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L005.D
 Acq On : 30 Jul 19 13:17
 Sample : 100ug/ml MEE 04/30/19
 Misc :

Vial: 5
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Jul 30 15:11 2019

Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.10	152	1470082	40.00000	ppb	-0.05
3) Napthalene-D8 (IS)	7.05	136	4360086	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3657157	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.60	188	7715173	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.93	240	7945115	40.00000	ppb	0.04
7) Perylene-D12 (IS)	13.71	264	7813985	40.00000	ppb	0.06

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.66	45	178738	89.00361	ppb	96

Quantitation Report

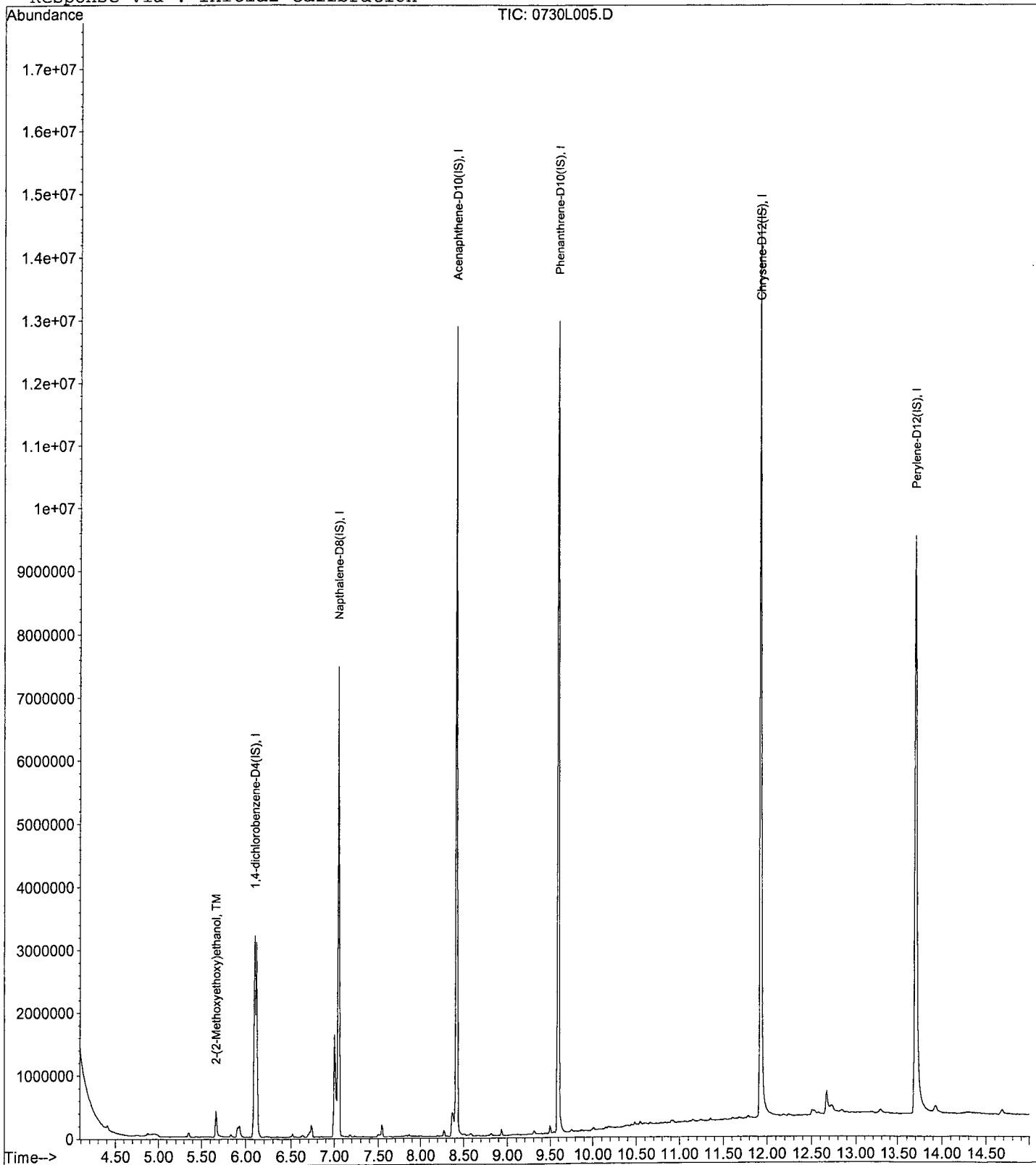
Data File : M:\LINUS\DATA\L190730M\0730L005.D
Acq On : 30 Jul 19 13:17
Sample : 100ug/ml MEE 04/30/19
Misc :

Vial: 5
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:11 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L006.D Vial: 6
 Acq On : 30 Jul 19 13:41 Operator: MA
 Sample : 200ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 30 15:12 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.13	152	1461825m	40.00000	ppb	-0.02
3) Napthalene-D8 (IS)	7.05	136	5084767	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3673311	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7619869	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	8245101	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	8432192	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.68	45	367317	183.94074	ppb	99

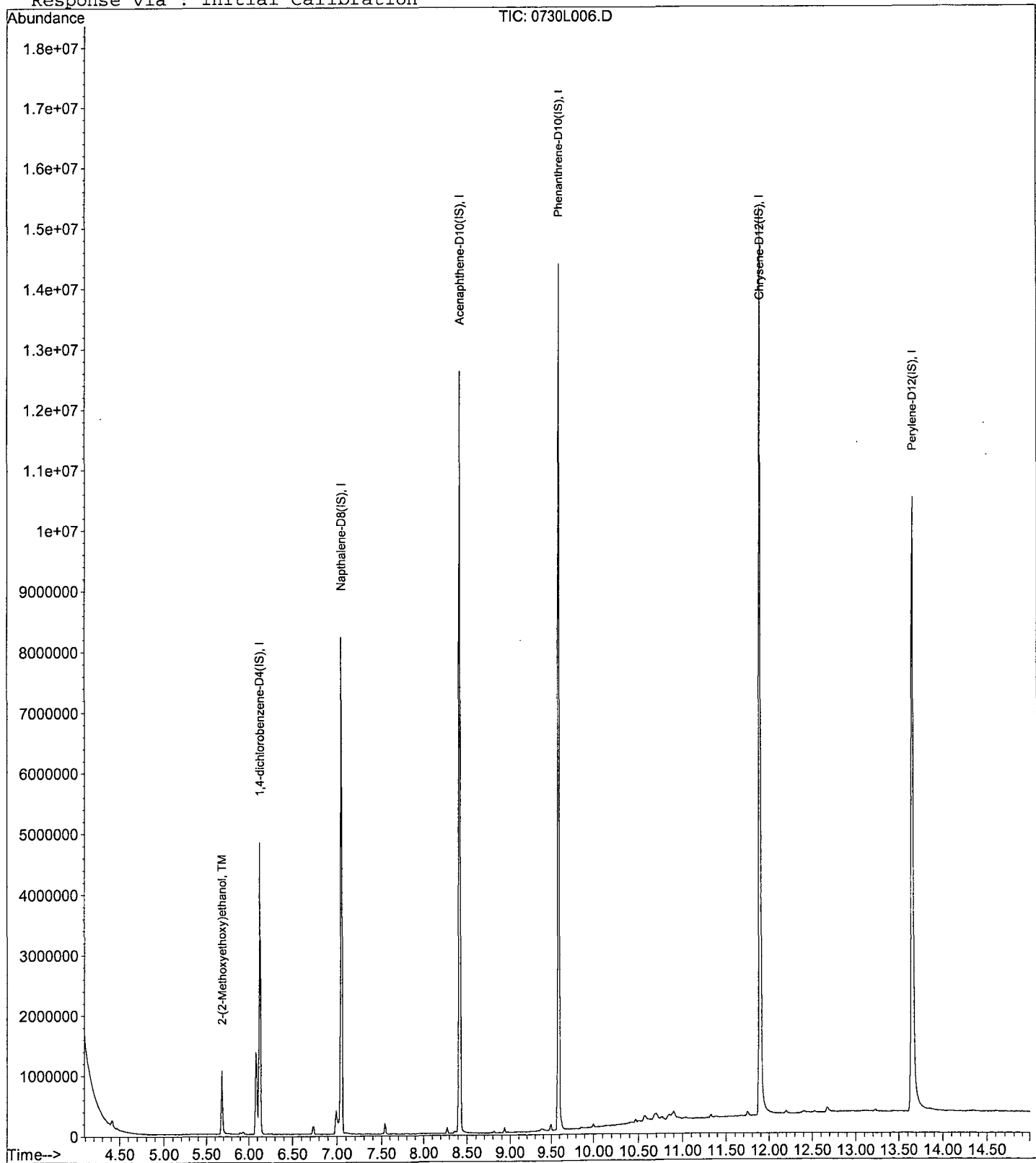
Data File : M:\LINUS\DATA\L190730M\0730L006.D
 Acq On : 30 Jul 19 13:41
 Sample : 200ug/ml MEE 04/30/19
 Misc :

Vial: 6
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Jul 30 15:12 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration

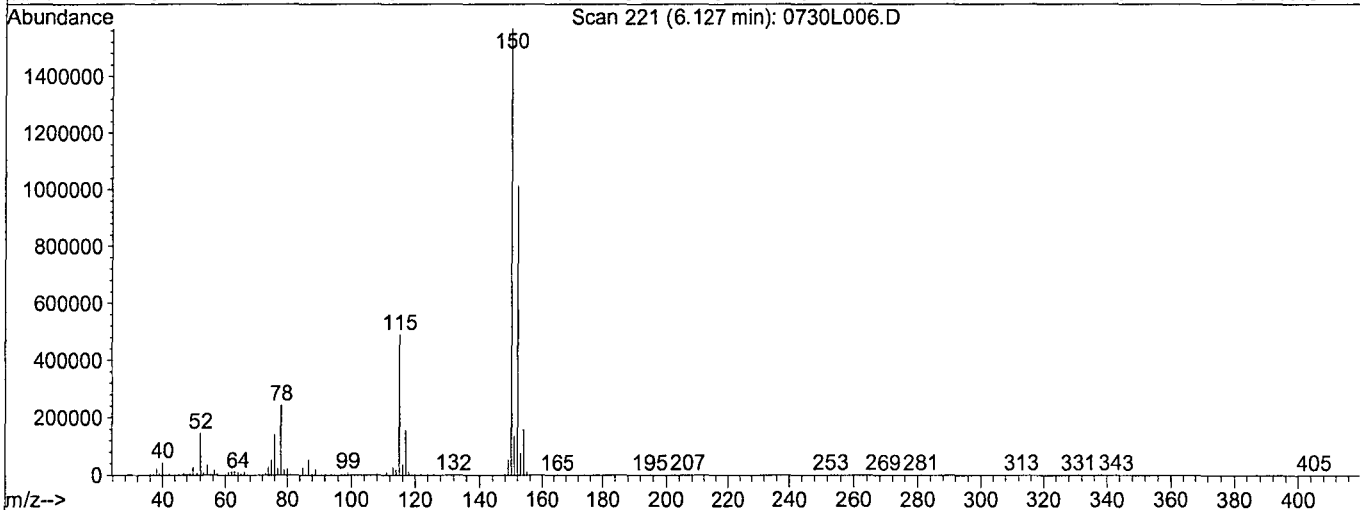
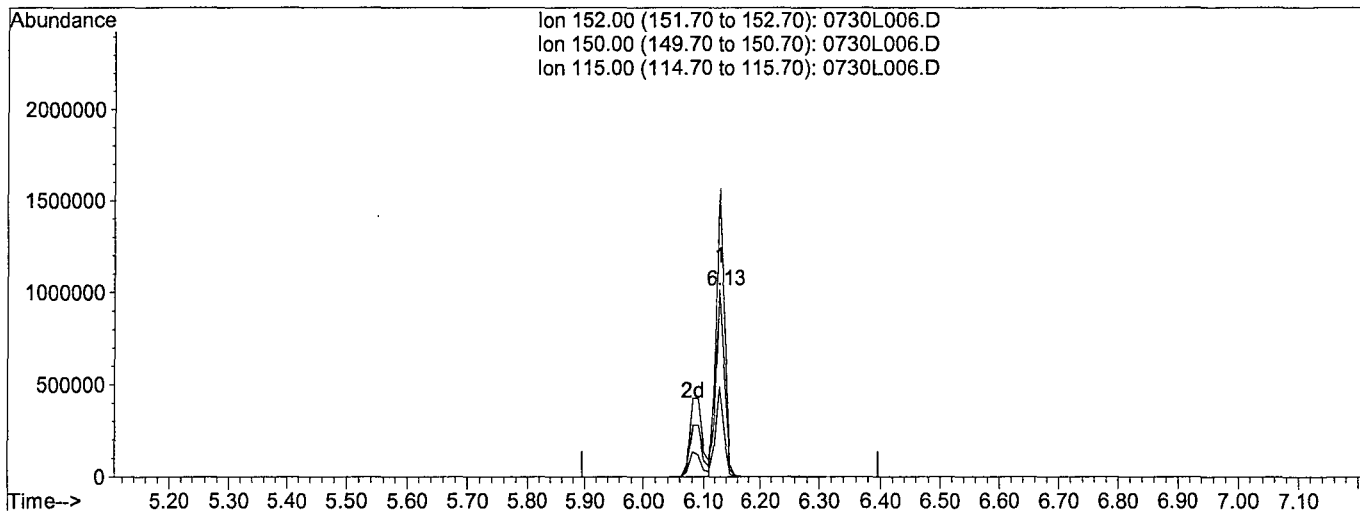


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L006.D
 Acq On : 30 Jul 19 13:41
 Sample : 200ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:11 2019

Vial: 6
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L006.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb

response 1047104

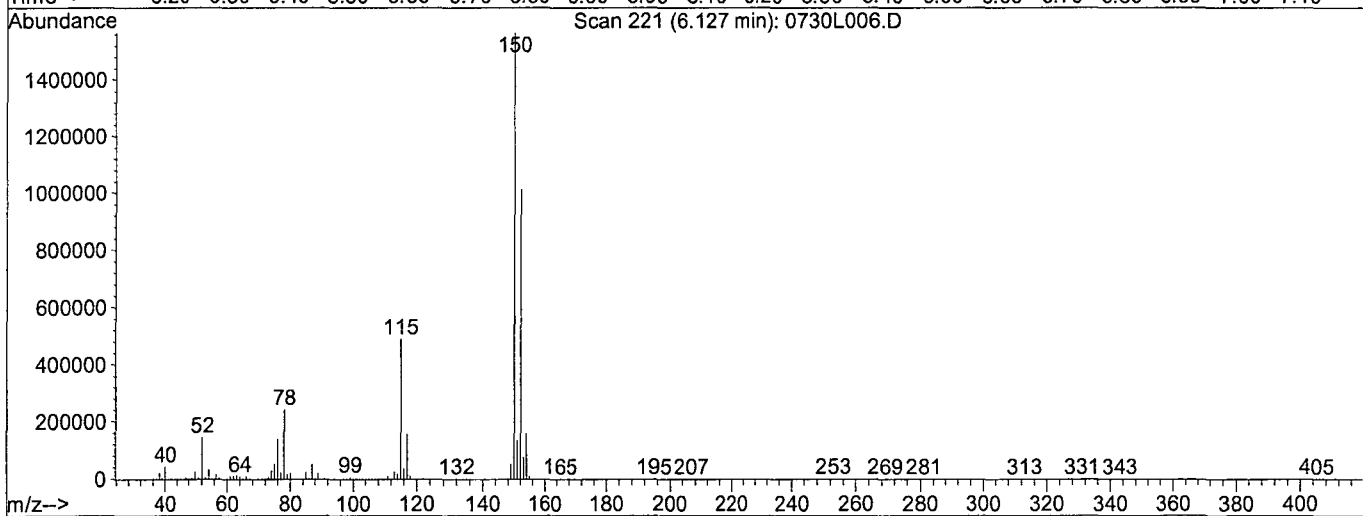
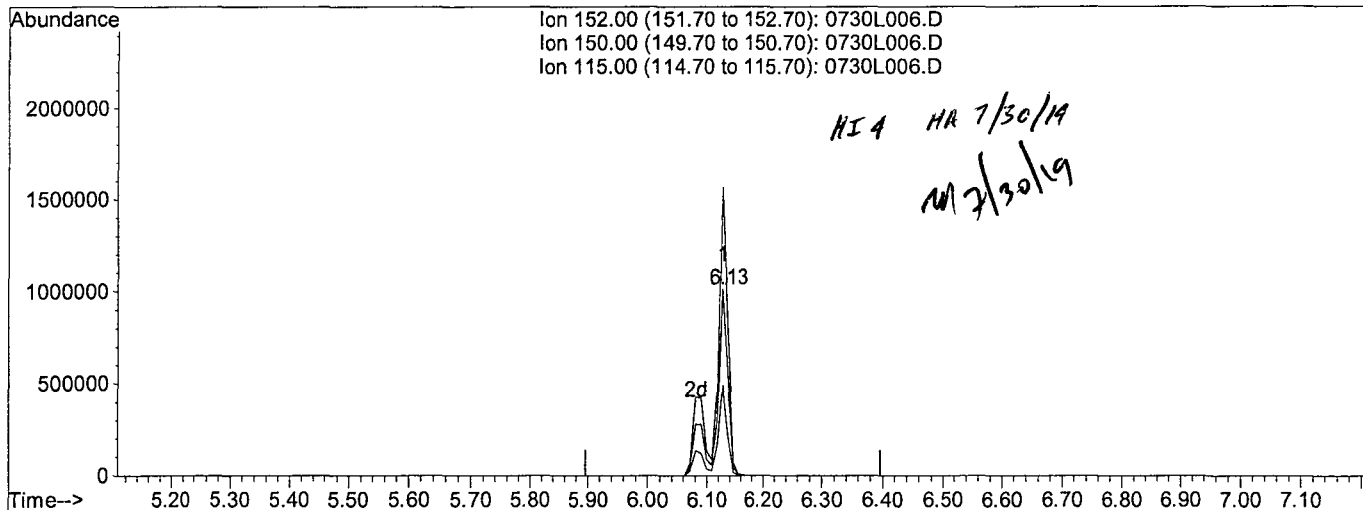
Ion	Exp%	Act%
152.00	100	100
150.00	151.30	154.77
115.00	42.60	48.39
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L006.D
 Acq On : 30 Jul 19 13:41
 Sample : 200ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:12 2019

Vial: 6
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L006.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb m

response 1461825

Ion	Exp%	Act%
152.00	100	100
150.00	151.30	154.73
115.00	42.60	48.40
0.00	0.00	0.00

Data File : M:\LINUS\DATA\L190730M\0730L007.D Vial: 7
 Acq On : 30 Jul 19 14:04 Operator: MA
 Sample : 400ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 30 15:13 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.13	152	1382825m	40.00000	ppb	-0.02
3) Napthalene-D8 (IS)	7.05	136	4970142	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3606286	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7424397	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.88	240	7867434	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.64	264	7875034	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.69	45	833210	441.08221	ppb	98

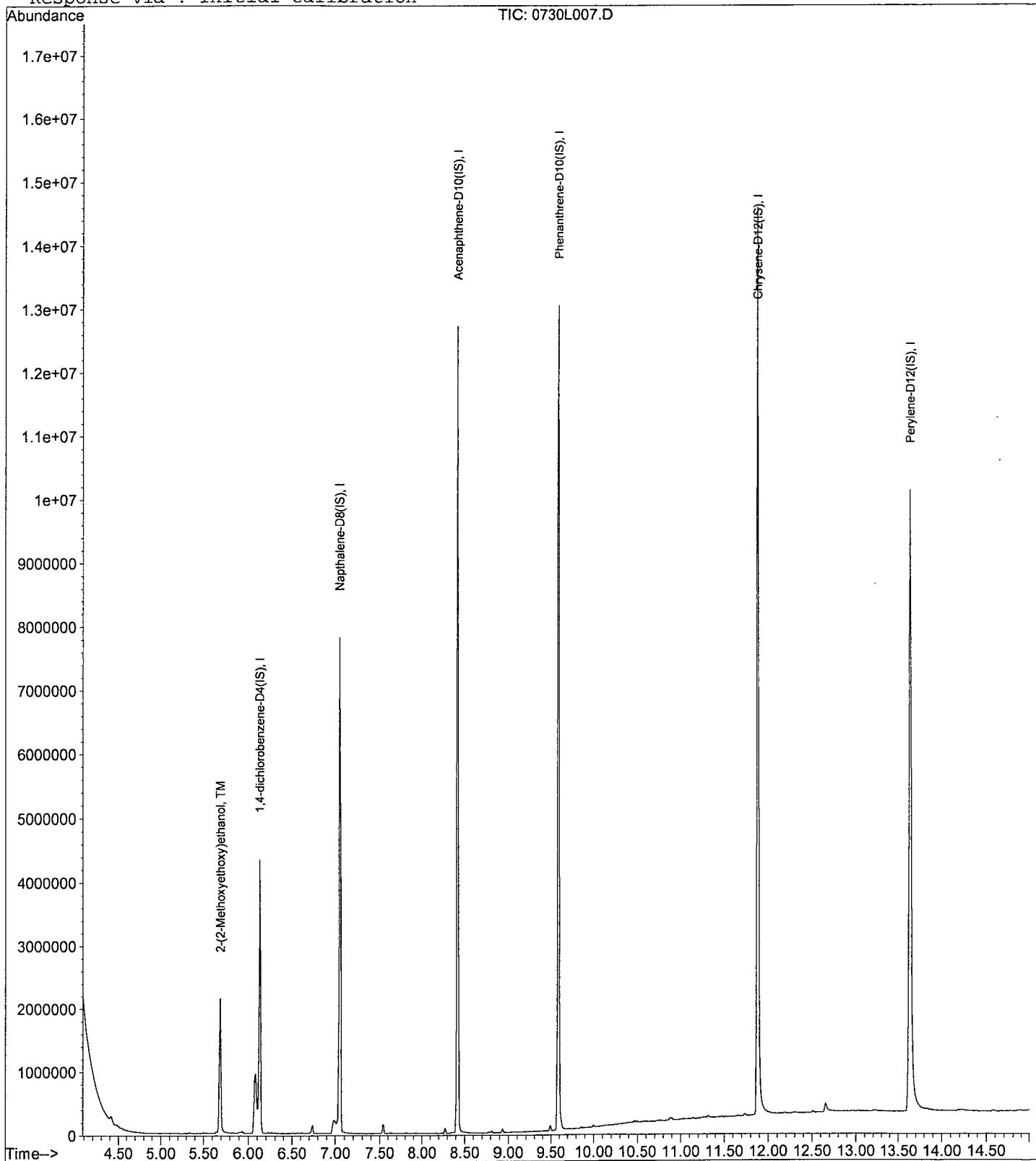
Data File : M:\LINUS\DATA\L190730M\0730L007.D
Acq On : 30 Jul 19 14:04
Sample : 400ug/ml MEE 04/30/19
Misc :

Vial: 7
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:13 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration

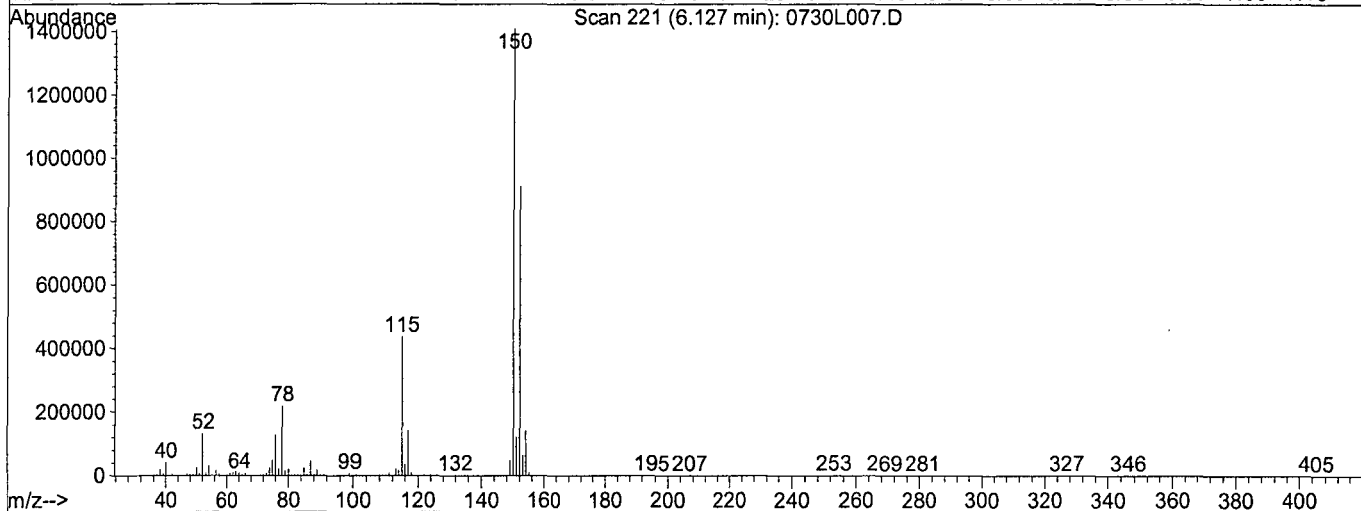
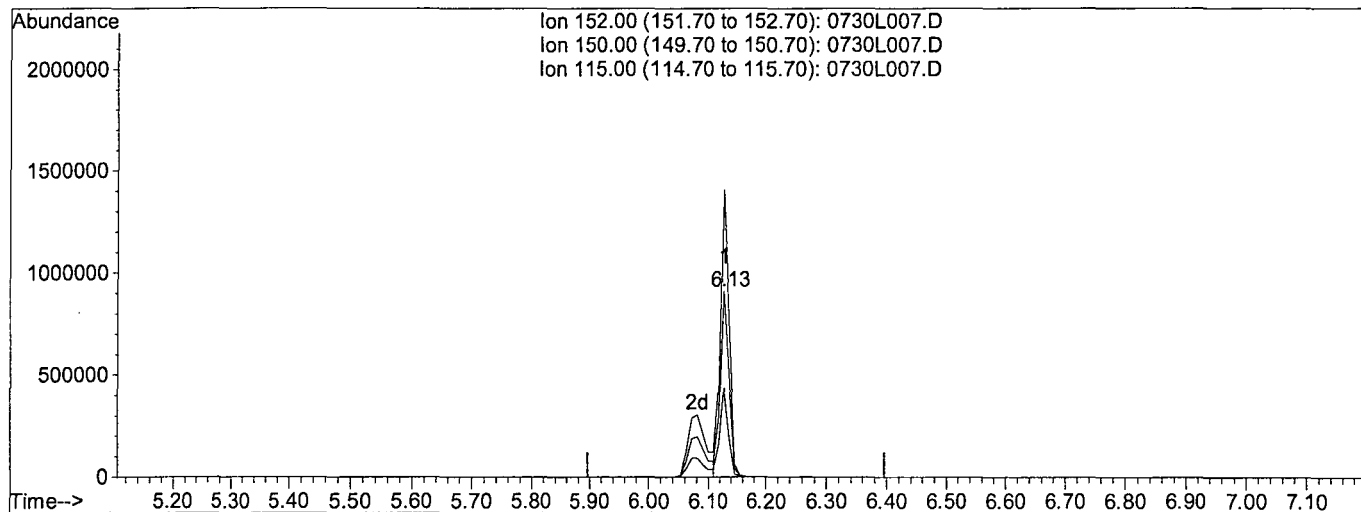


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L007.D
 Acq On : 30 Jul 19 14:04
 Sample : 400ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:11 2019

Vial: 7
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L007.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb

response 957510

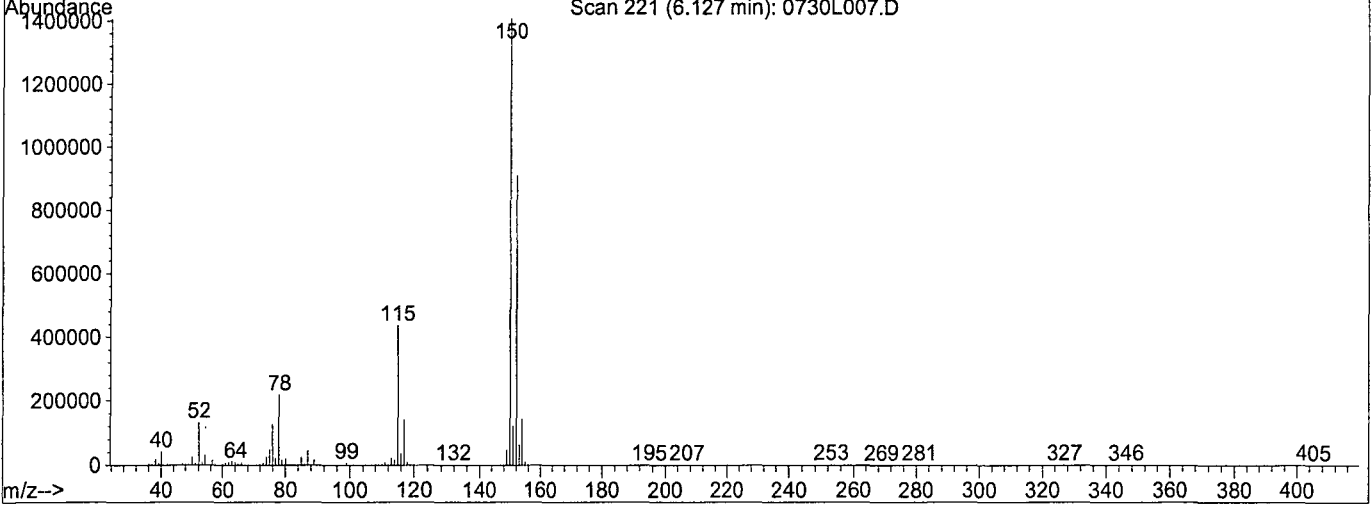
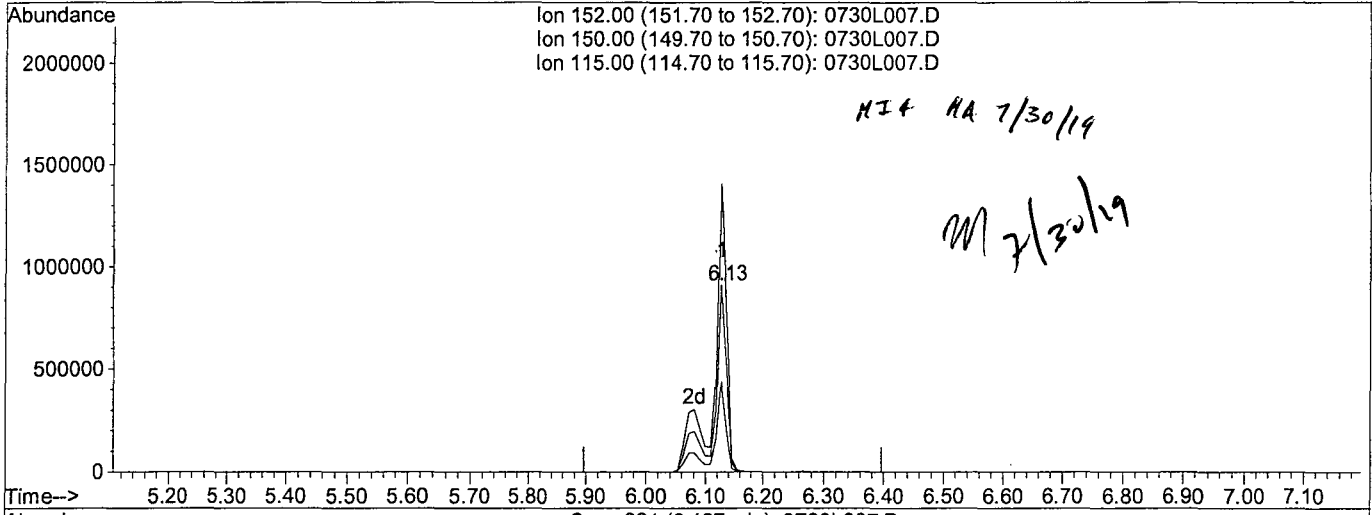
Ion	Exp%	Act%
152.00	100	100
150.00	151.30	154.57
115.00	42.60	47.94
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L007.D
 Acq On : 30 Jul 19 14:04
 Sample : 400ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:13 2019

Vial: 7
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L007.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb m

response 1382825

Ion	Exp%	Act%
152.00	100	100
150.00	151.30	154.56
115.00	42.60	47.96
0.00	0.00	0.00

Data File : M:\LINUS\DATA\L190730M\0730L008.D
 Acq On : 30 Jul 19 14:27
 Sample : 600ug/ml MEE 04/30/19
 Misc :

Vial: 8
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Jul 30 15:13 2019

Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.12	152	1716822m	40.00000	ppb	-0.03
3) Napthalene-D8 (IS)	7.05	136	6268016	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	4318908	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	9164097	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	9844624	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	9933894	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	5.69	45	1324145	564.60219	ppb	100

(#) = qualifier out of range (m) = manual integration

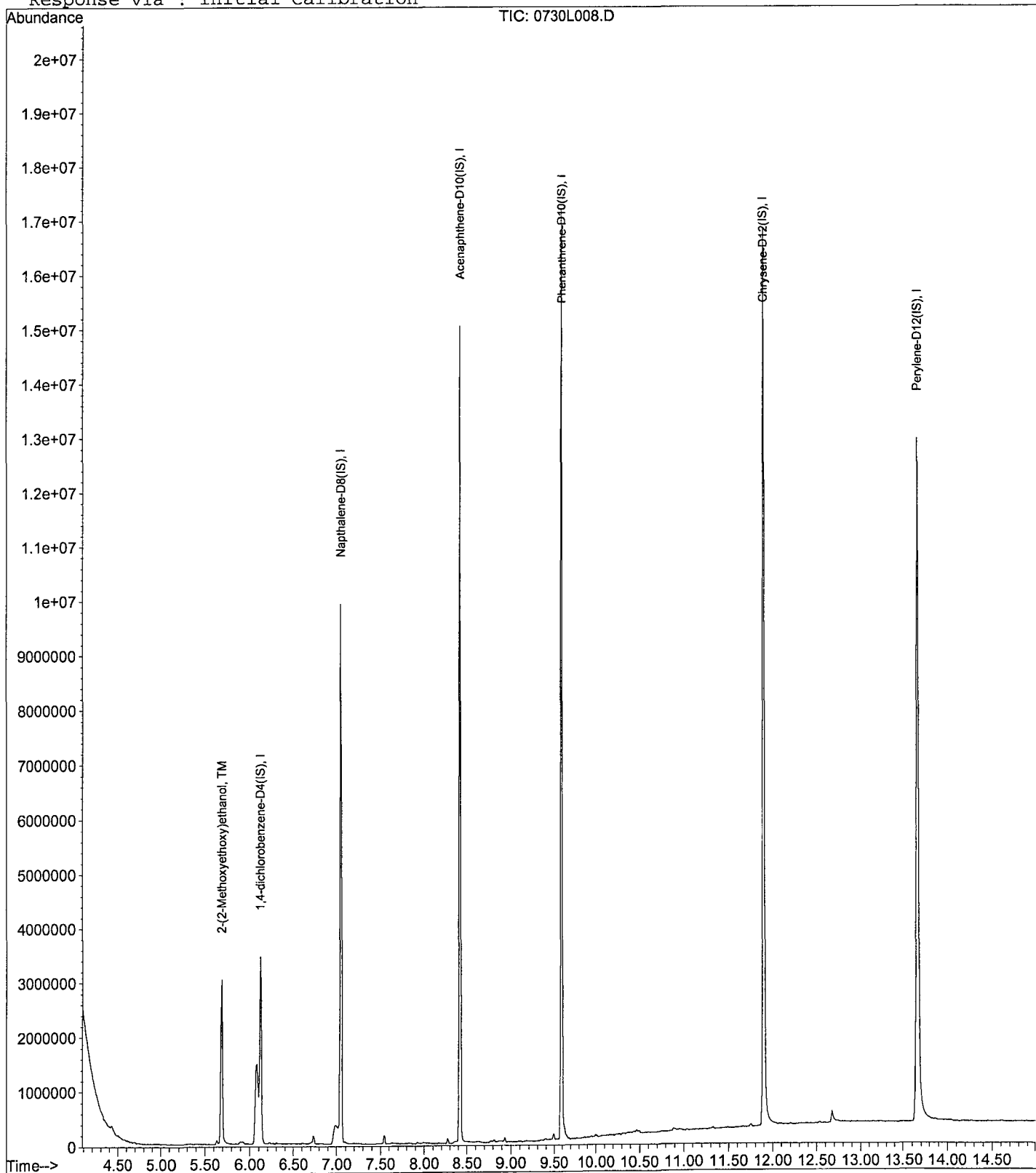
Data File : M:\LINUS\DATA\L190730M\0730L008.D
Acq On : 30 Jul 19 14:27
Sample : 600ug/ml MEE 04/30/19
Misc :

Vial: 8
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:13 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration

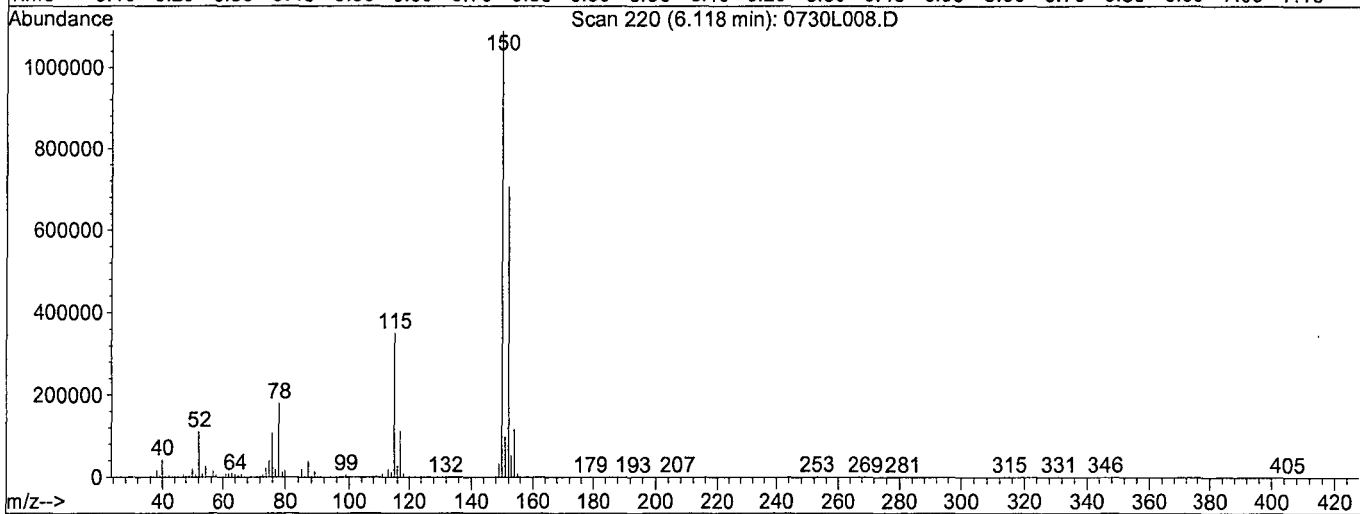
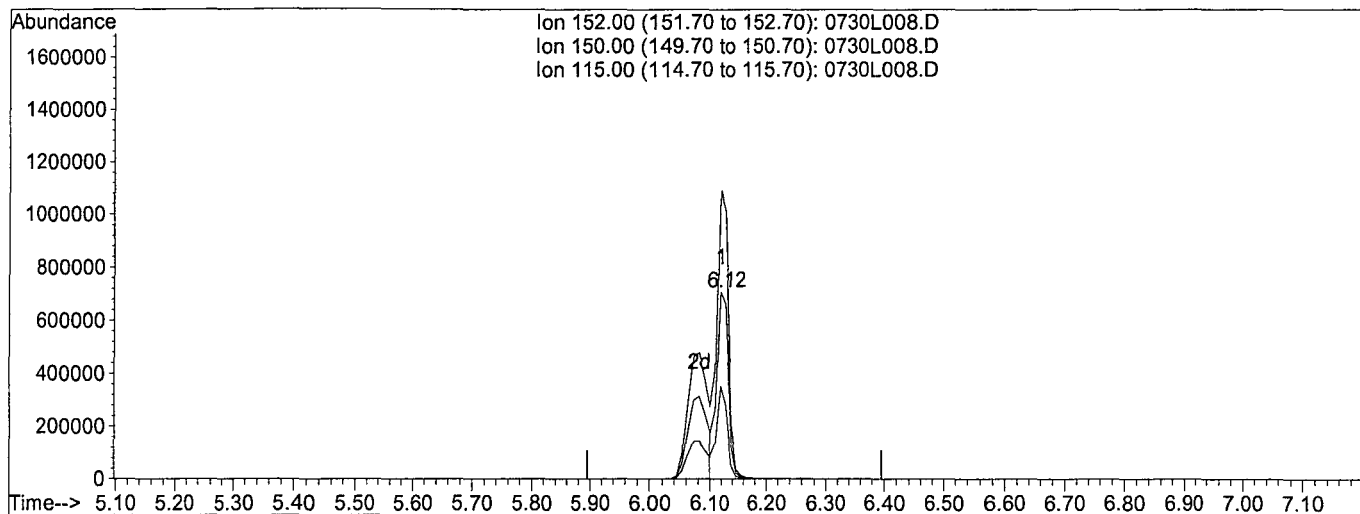


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L008.D
 Acq On : 30 Jul 19 14:27
 Sample : 600ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:11 2019

Vial: 8
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L008.D

(1) 1,4-dichlorobenzene-D4(I) (I)

6.12min 40.0000ppb

response 1002516

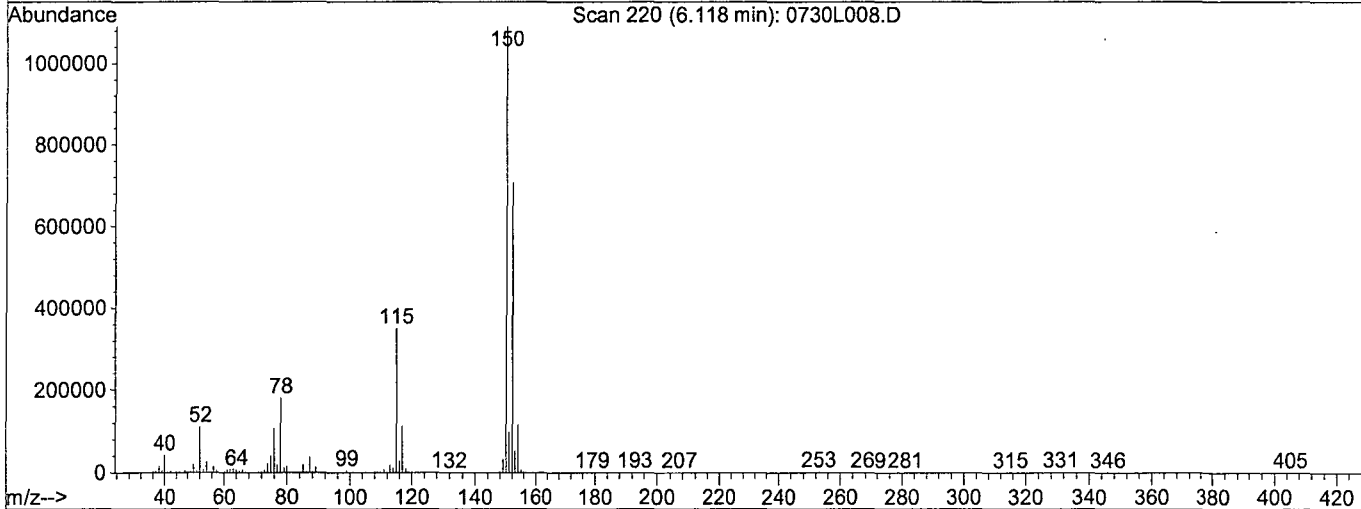
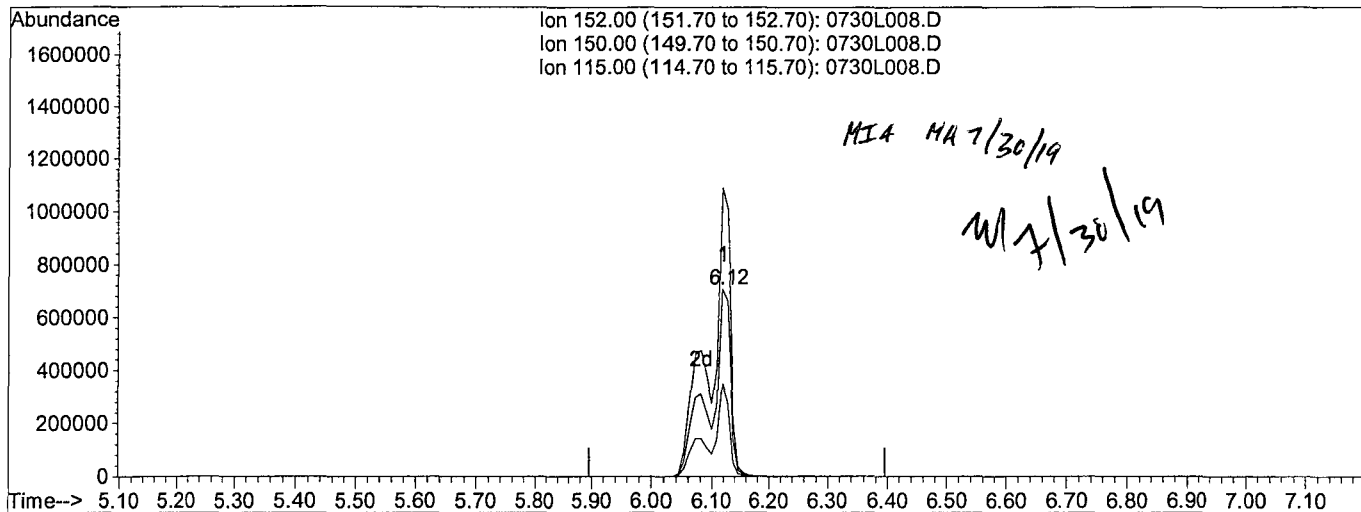
Ion	Exp%	Act%
152.00	100	100
150.00	151.30	154.35
115.00	42.60	49.55
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L008.D
 Acq On : 30 Jul 19 14:27
 Sample : 600ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:13 2019

Vial: 8
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L008.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.12min 40.0000ppb m

response 1716822

Ion	Exp%	Act%
152.00	100	100
150.00	151.30	154.38
115.00	42.60	49.62
0.00	0.00	0.00

Data File : M:\LINUS\DATA\L190730M\0730L009.D Vial: 9
 Acq On : 30 Jul 19 14:51 Operator: MA
 Sample : 800ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 30 15:10 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.12	152	1669070m	40.00000	ppb	-0.03
3) Napthalene-D8 (IS)	7.05	136	5374930	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	4141489	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	8405653	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	9474975	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	9450888	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.69	45	1649063	723.26089	ppb	99

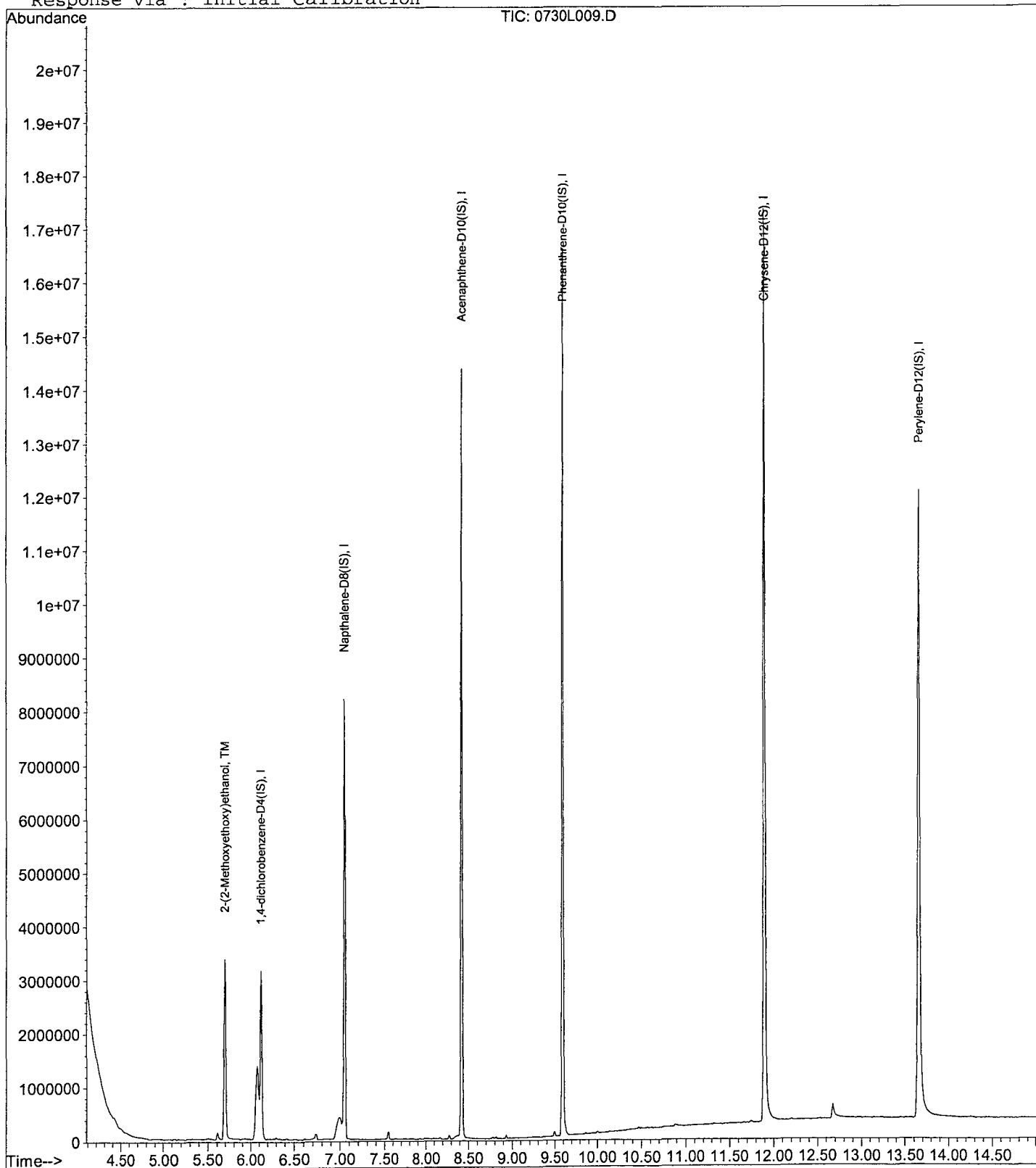
Data File : M:\LINUS\DATA\L190730M\0730L009.D
Acq On : 30 Jul 19 14:51
Sample : 800ug/ml MEE 04/30/19
Misc :

Vial: 9
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:10 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration

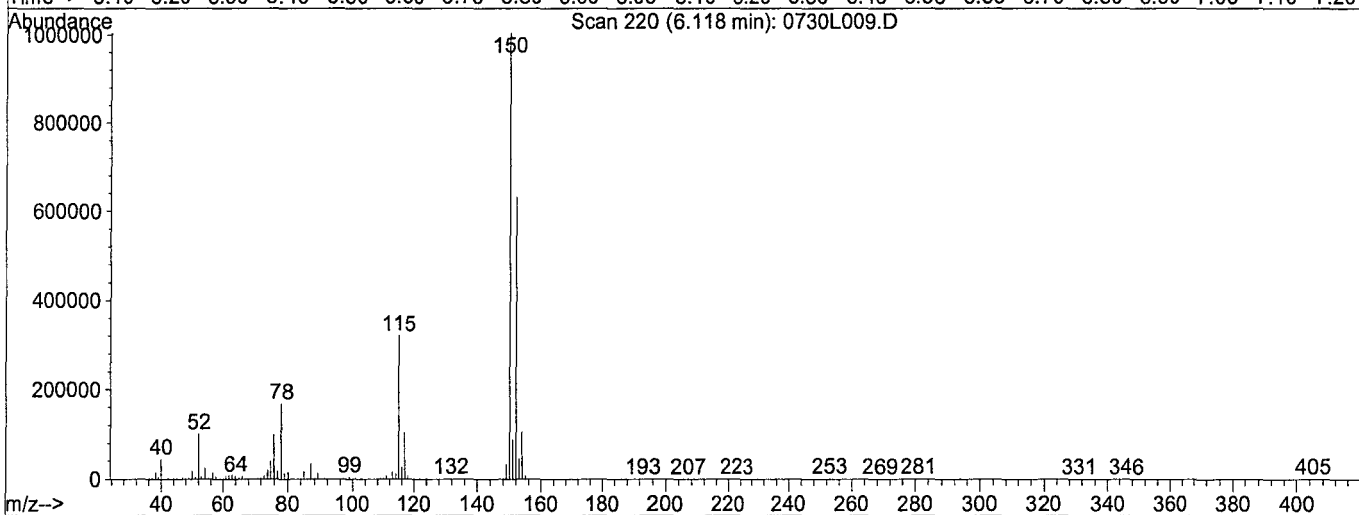
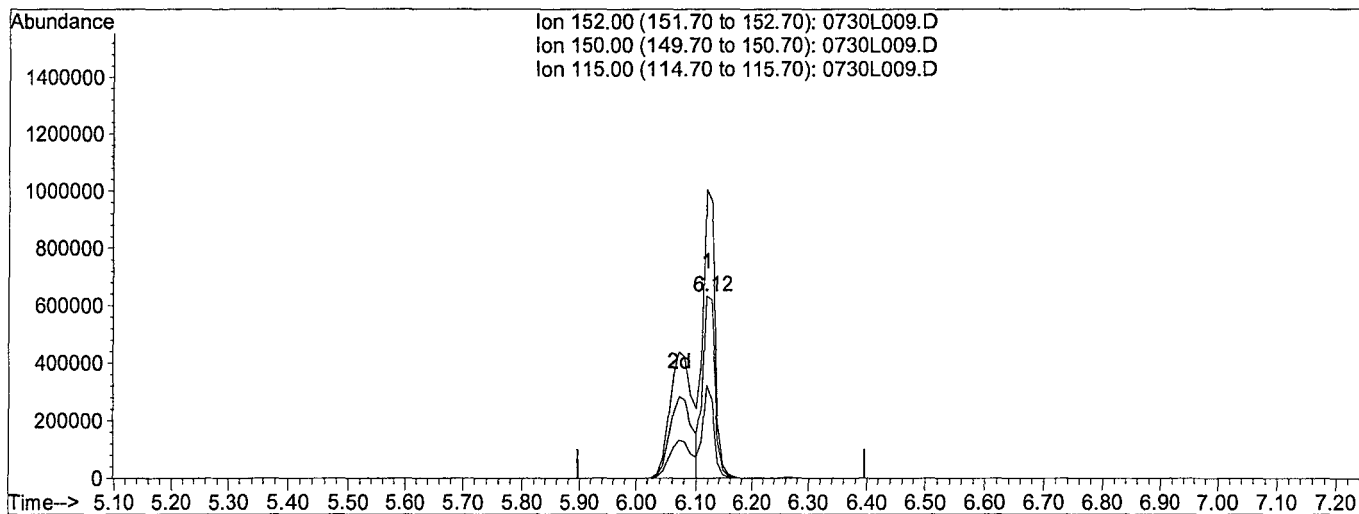


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L009.D
 Acq On : 30 Jul 19 14:51
 Sample : 800ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:10 2019

Vial: 9
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L009.D

(1) 1,4-dichlorobenzene-D4(1S) (I)

6.12min 40.0000ppb

response 933046

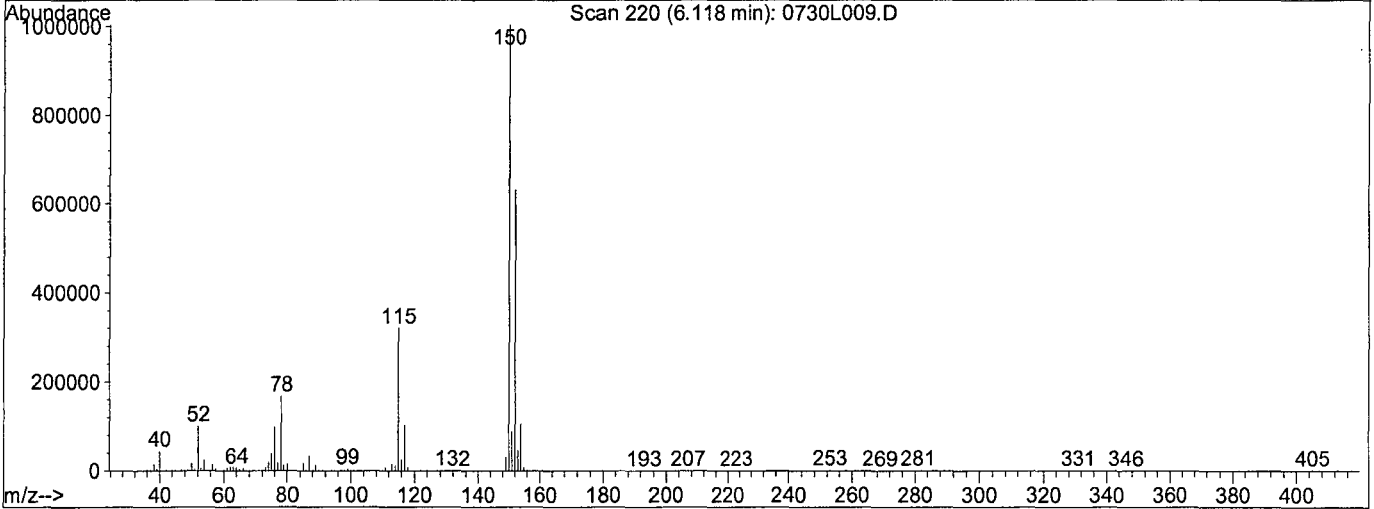
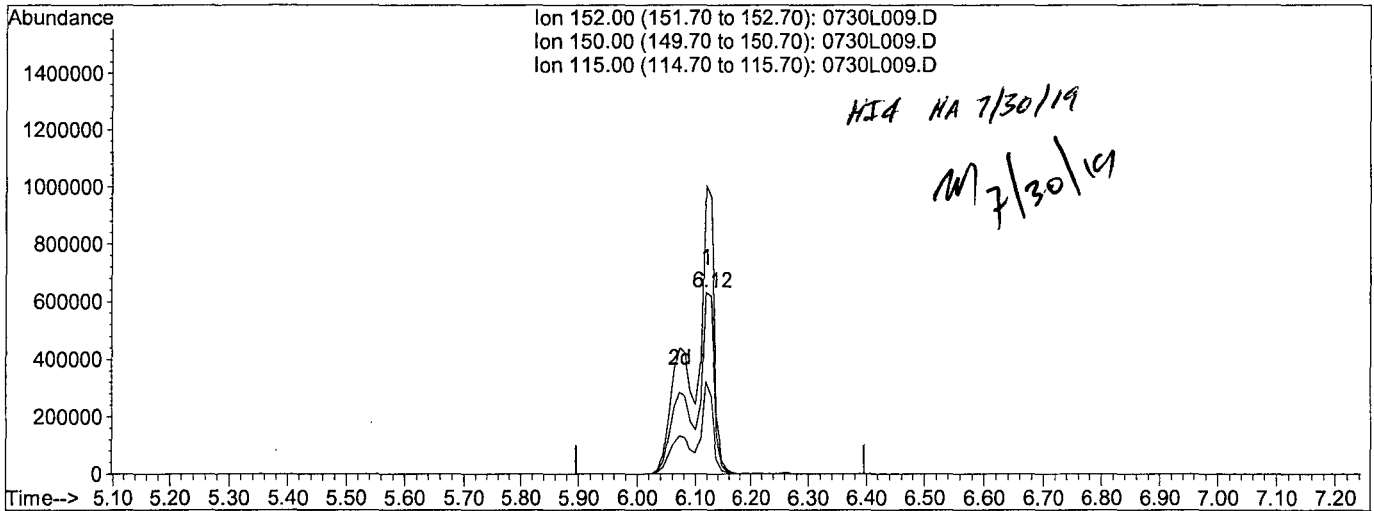
Ion	Exp%	Act%
152.00	100	100
150.00	151.30	158.87
115.00	42.60	50.79
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L009.D
 Acq On : 30 Jul 19 14:51
 Sample : 800ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:10 2019

Vial: 9
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L009.D

(1) 1,4-dichlorobenzene-D4(1S) (I)

6.12min 40.0000ppb m

response 1669070

Ion	Exp%	Act%
152.00	100	100
150.00	151.30	158.89
115.00	42.60	50.84
0.00	0.00	0.00

Data File : M:\LINUS\DATA\L190730M\0730L010.D Vial: 10
 Acq On : 30 Jul 19 15:13 Operator: MA
 Sample : 1000ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 30 15:42 2019

Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:12:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.13	152	1481485m	40.00000	ppb	-0.02
3) Napthalene-D8 (IS)	7.05	136	5786003	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	4262349	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	8581509	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	9894804	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	9883087	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.71	45	1845695	925.02058	ppb	99

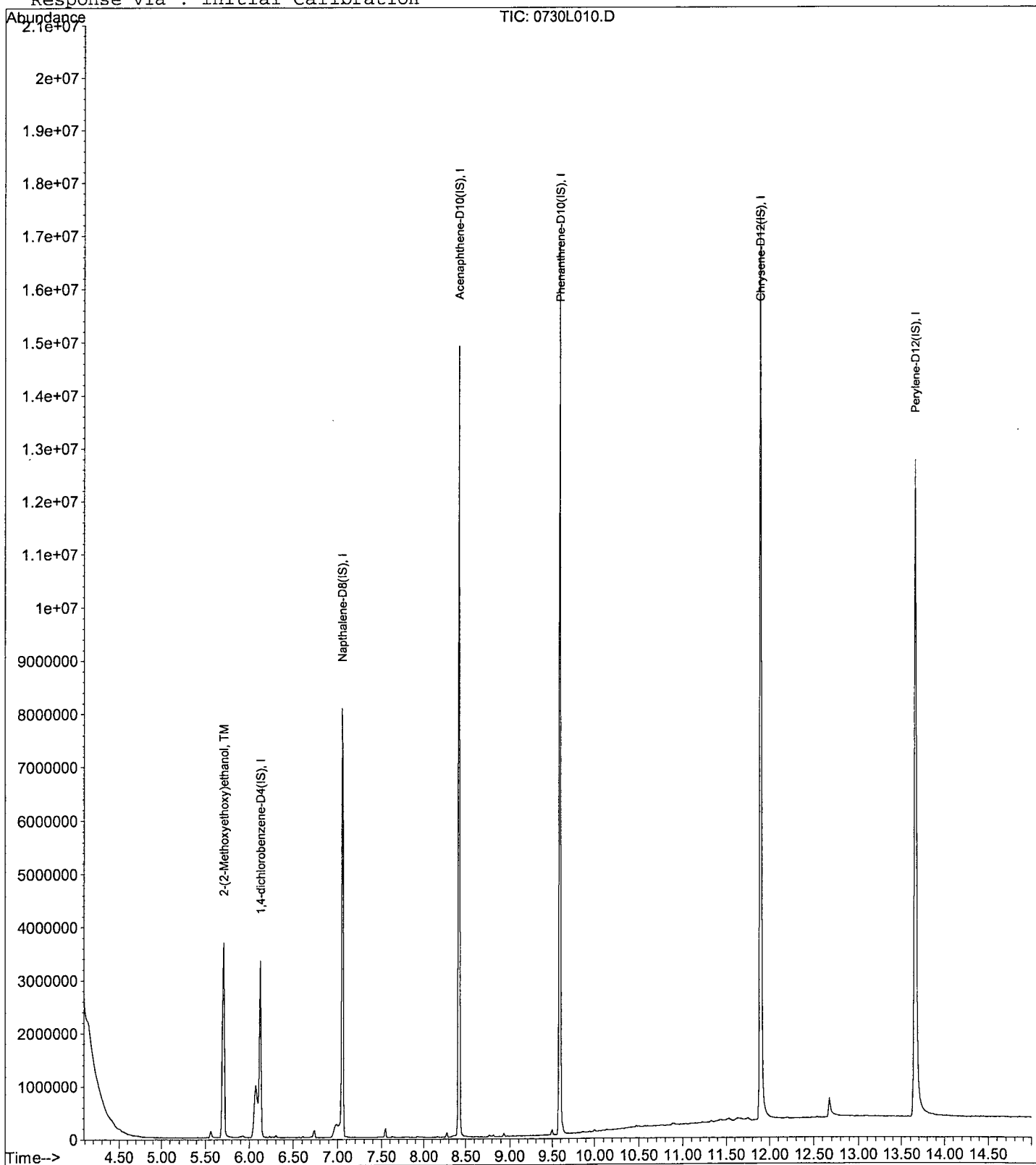
Data File : M:\LINUS\DATA\L190730M\0730L010.D
Acq On : 30 Jul 19 15:13
Sample : 1000ug/ml MEE 04/30/19
Misc :

Vial: 10
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:42 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration

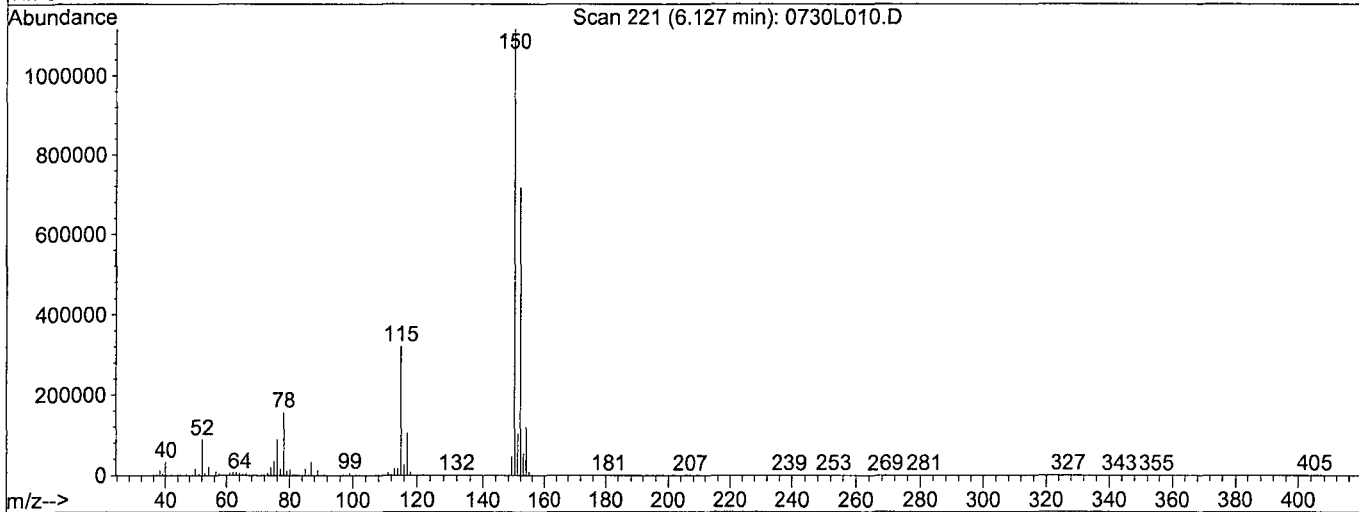
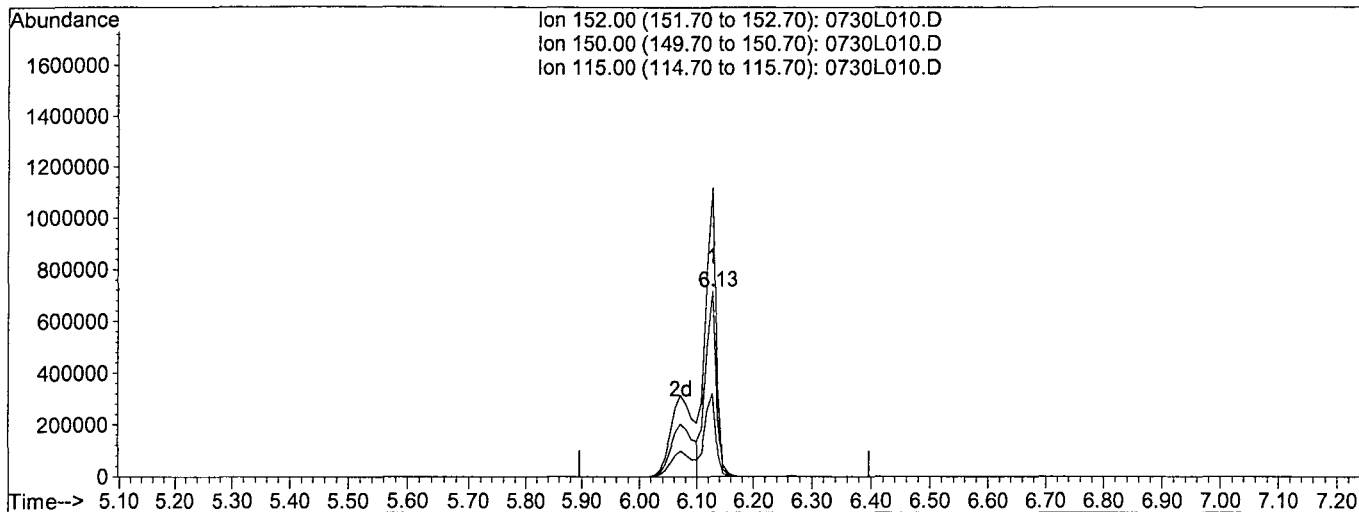


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L010.D
 Acq On : 30 Jul 19 15:13
 Sample : 1000ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:42 2019

Vial: 10
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:12:18 2019
 Response via : Multiple Level Calibration



TIC: 0730L010.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb

response 924804

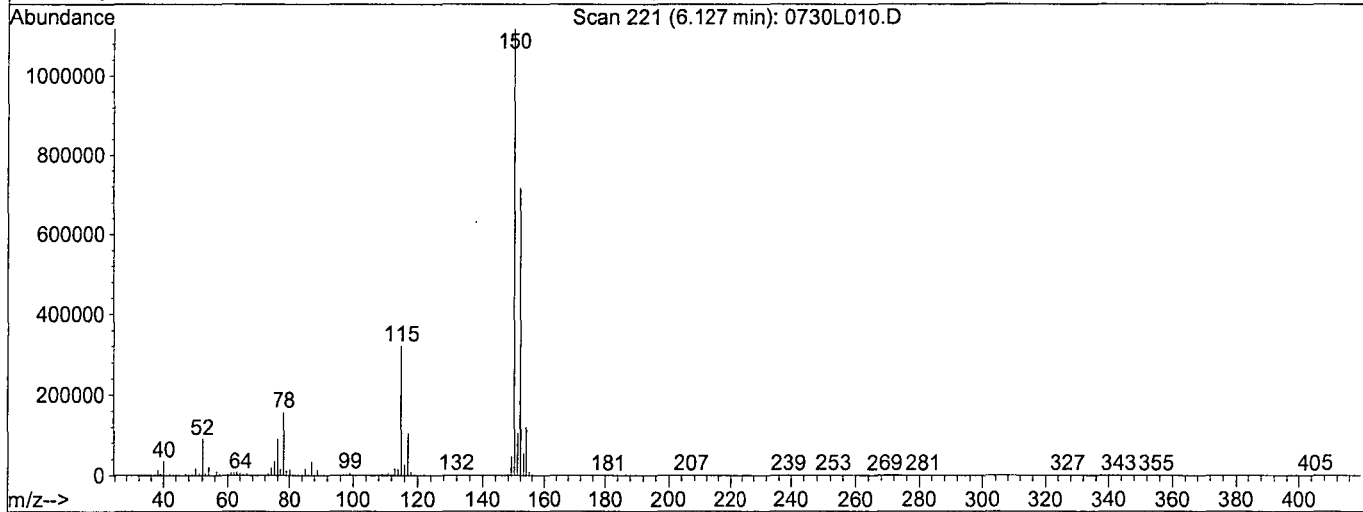
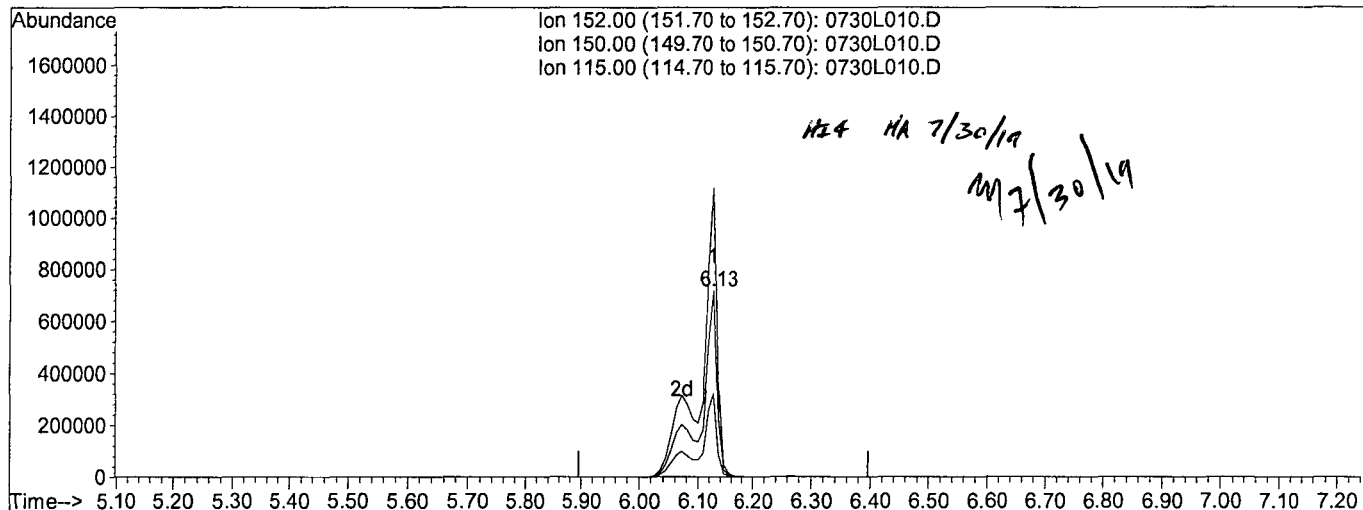
Ion	Exp%	Act%
152.00	100	100
150.00	151.30	156.03
115.00	42.60	44.84
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L010.D
 Acq On : 30 Jul 19 15:13
 Sample : 1000ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:42 2019

Vial: 10
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:12:18 2019
 Response via : Multiple Level Calibration



TIC: 0730L010.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb m

response 1481485

Ion	Exp%	Act%
152.00	100	100
150.00	151.30	156.01
115.00	42.60	44.87
0.00	0.00	0.00

2MEE
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/30/19
Instrument: Linus
Initial Cal. Date: 07/30/19
Data File: 0730L011.D

		Compound	MEAN	CCRF	%D	%Drift
1	TM	2-(2-Methoxyethoxy)ethanol	0.0534	0.0617	16	TM
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40		Average			16.0	

Data File : M:\LINUS\DATA\L190730M\0730L011.D Vial: 11
 Acq On : 30 Jul 19 15:37 Operator: MA
 Sample : SS MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 30 17:38 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.13	152	1382961m	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.05	136	4594613	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3598325	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7544561	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	8541977	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	9241872	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.68	45	1066714	578.11784	ppb	98

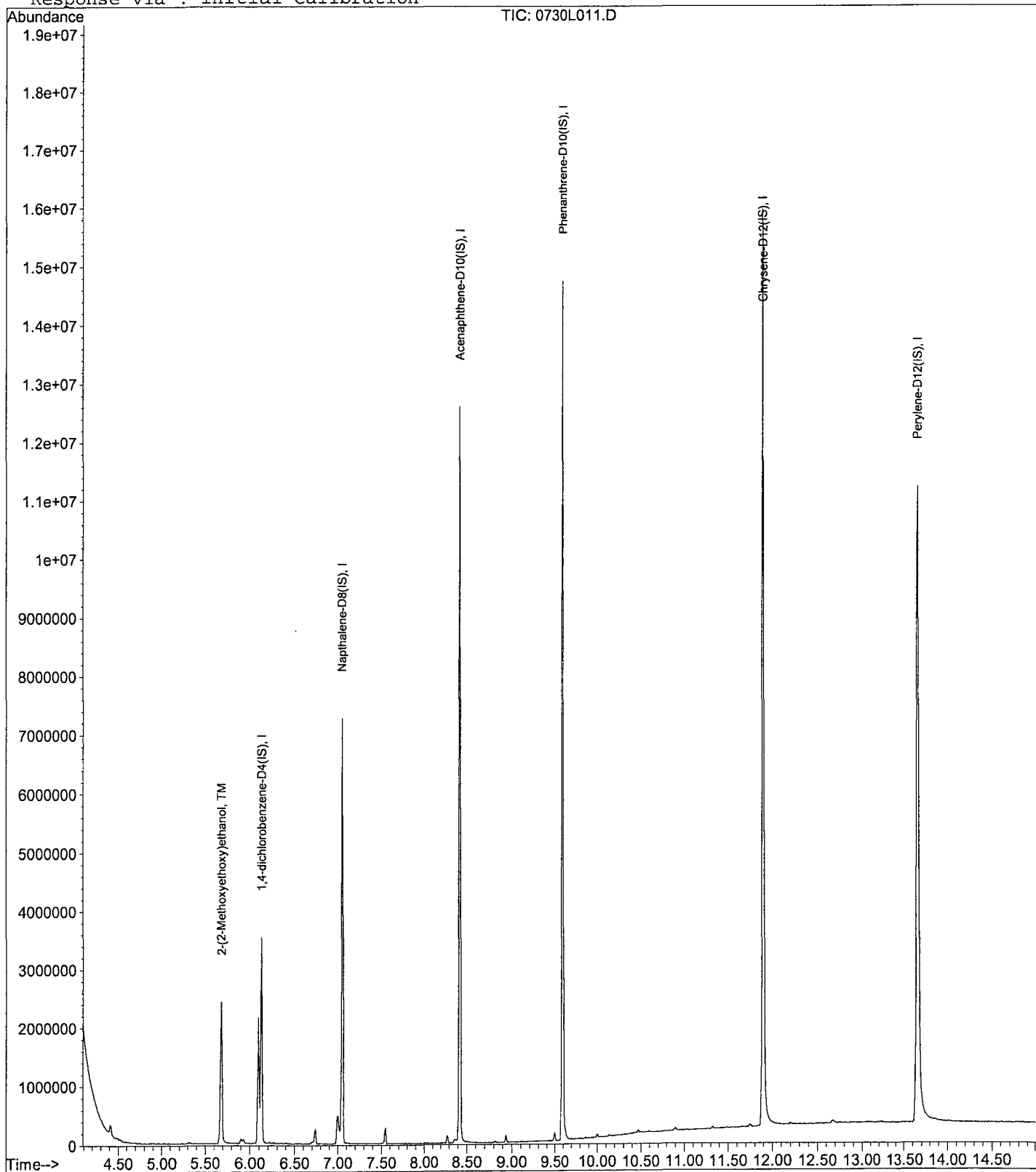
Data File : M:\LINUS\DATA\L190730M\0730L011.D
Acq On : 30 Jul 19 15:37
Sample : SS MEE 04/30/19
Misc :

Vial: 11
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 17:38 2019

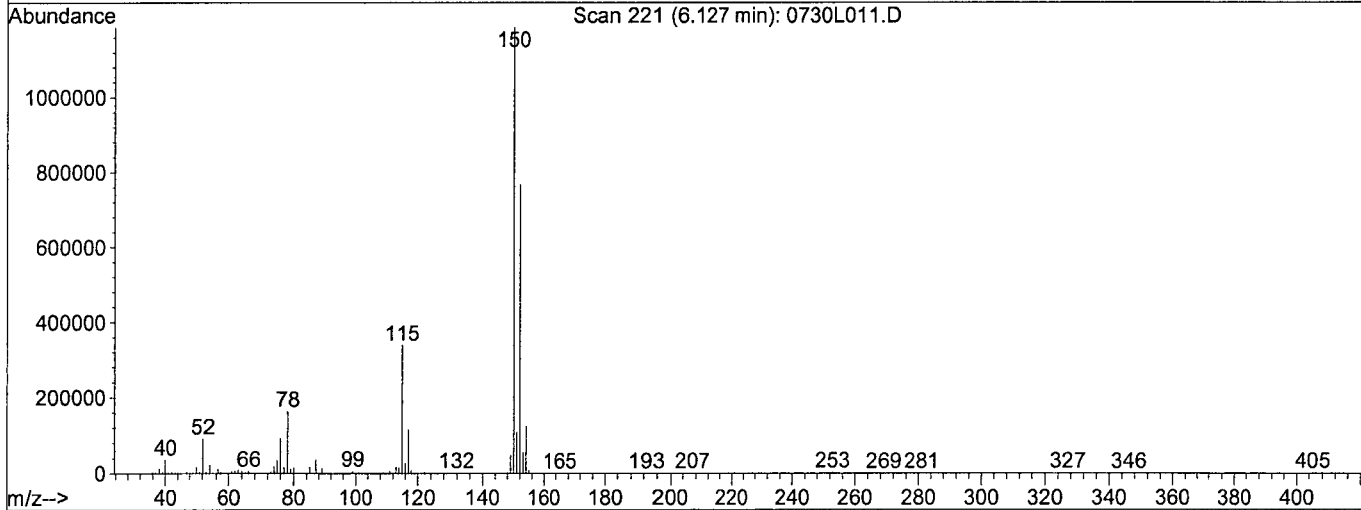
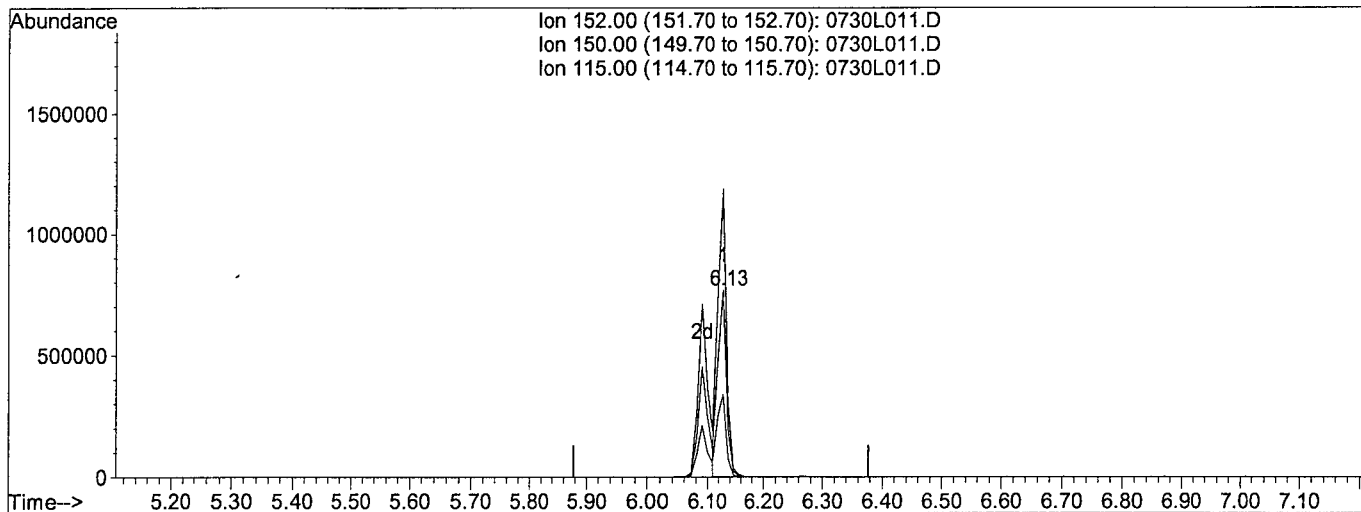
Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L011.D Vial: 11
 Acq On : 30 Jul 19 15:37 Operator: MA
 Sample : SS MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00
 Quant Time: Jul 30 17:38 2019 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Multiple Level Calibration



TIC: 0730L011.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb

response 826966

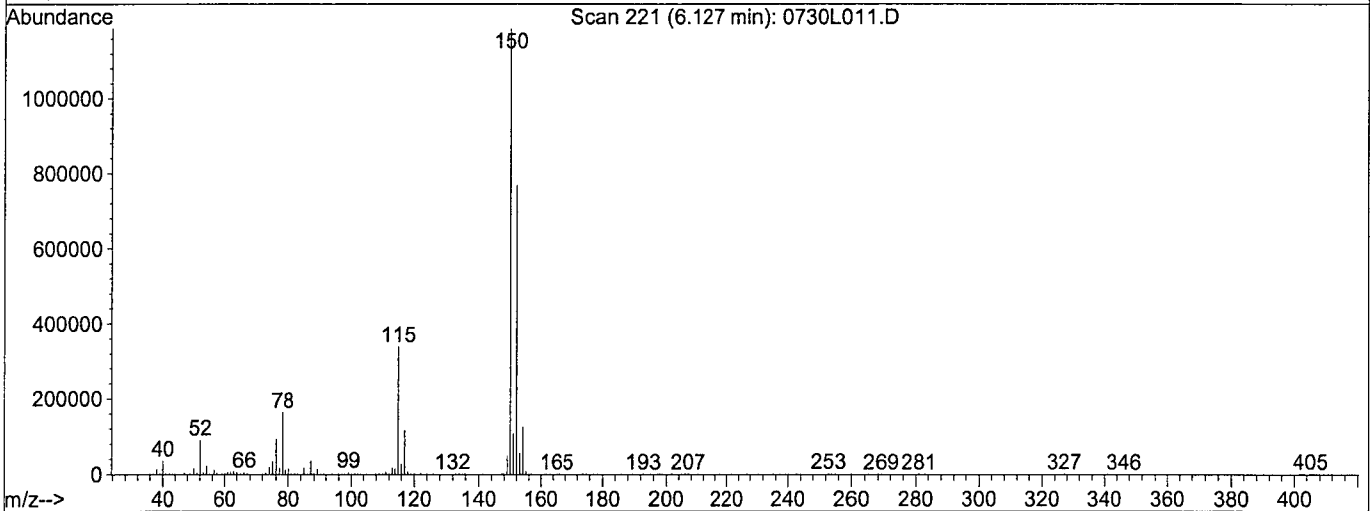
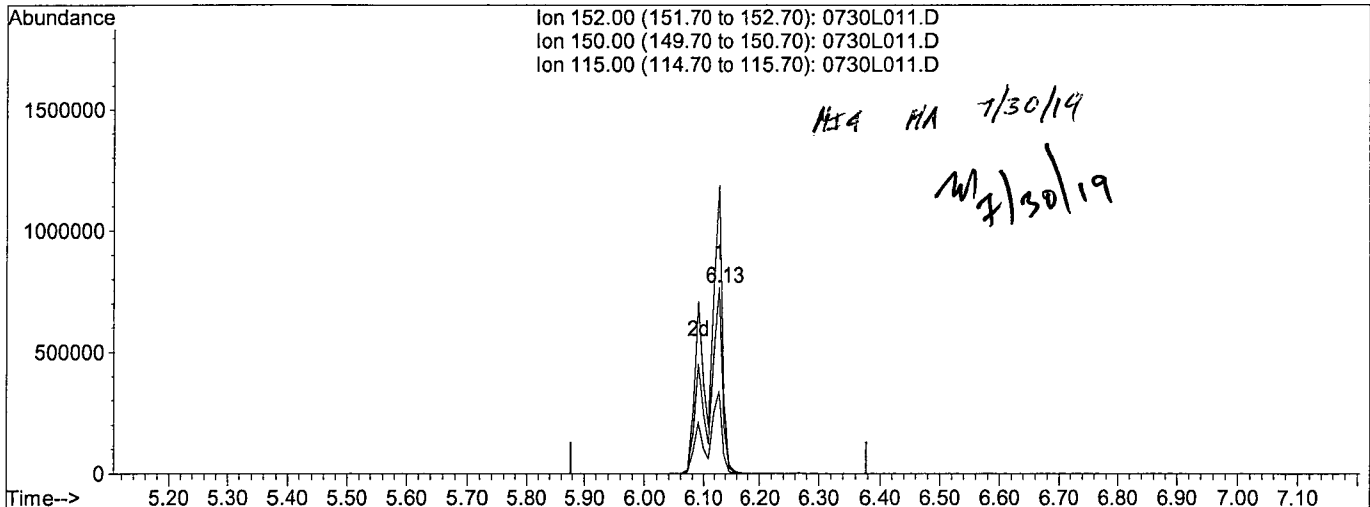
Ion	Exp%	Act%
152.00	100	100
150.00	154.60	154.55
115.00	44.10	44.04
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L011.D
 Acq On : 30 Jul 19 15:37
 Sample : SS MEE 04/30/19
 Misc :
 Quant Time: Jul 30 17:38 2019

Vial: 11
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Multiple Level Calibration



TIC: 0730L011.D

(1) 1,4-dichlorobenzene-D4(1S) (I)

6.13min 40.0000ppb m

response 1382961

Ion	Exp%	Act%
152.00	100	100
150.00	154.60	154.57
115.00	44.10	44.07
0.00	0.00	0.00

2MEE
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 1 Aug 19 9:51

Matrix: _____

Instrument: Linus

Initial Cal. Date: 7/30/2019

Data File: 0730L033.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I
2	TM	2-(2-Methoxyethoxy)ethanol	0.0534	0.0618	16	TM
3	I	Napthalene-D8(IS)	ISTD			I
4	I	Acenaphthene-D10(IS)	ISTD			I
5	I	Phenanthrene-D10(IS)	ISTD			I
6	I	Chrysene-D12(IS)	ISTD			I
7	I	Perylene-D12(IS)	ISTD			I
8						
9						
10						
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40						

Average

16.0

Data File : M:\LINUS\DATA\L190730M\0730L033.D Vial: 33
 Acq On : 1 Aug 19 9:51 Operator: MA
 Sample : 500ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Aug 1 10:21 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.14	152	1030915m	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.05	136	4306641	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3064380	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	6379694	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.93	240	7592715	40.00000	ppb	0.04
7) Perylene-D12 (IS)	13.72	264	8663284	40.00000	ppb	0.07

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.71	45	796924	579.39181	ppb	99

Quantitation Report

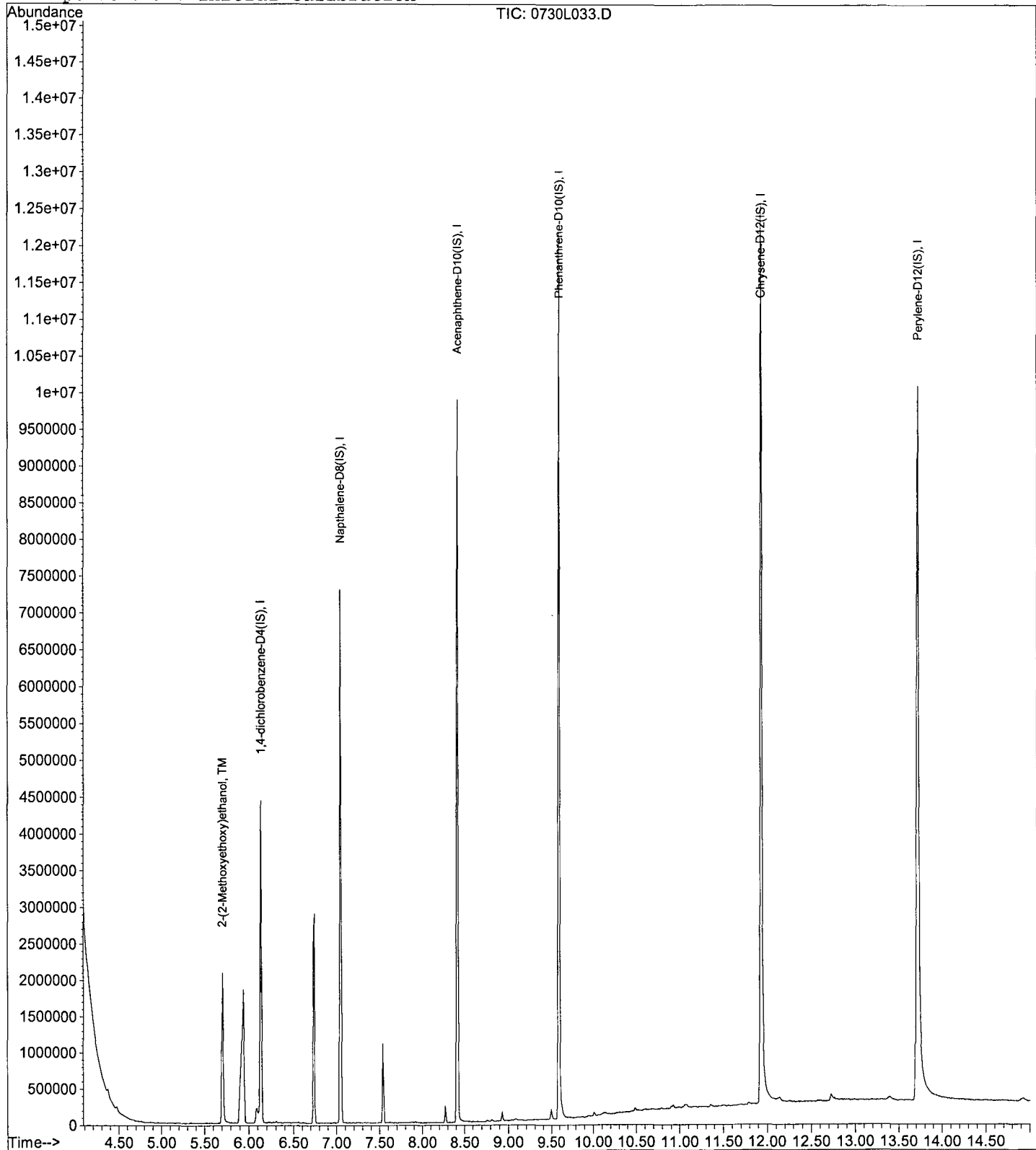
Data File : M:\LINUS\DATA\L190730M\0730L033.D
Acq On : 1 Aug 19 9:51
Sample : 500ug/ml MEE 04/30/19
Misc :

Vial: 33
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Aug 1 10:21 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



2MEE
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 1 Aug 19 12:50
Instrument: Linus
Initial Cal. Date: 7/30/2019
Data File: 0730L039.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I
2	TM	2-(2-Methoxyethoxy)ethanol	0.0534	0.0570	6.8	TM
3	I	Napthalene-D8(IS)	ISTD			I
4	I	Acenaphthene-D10(IS)	ISTD			I
5	I	Phenanthrene-D10(IS)	ISTD			I
6	I	Chrysene-D12(IS)	ISTD			I
7	I	Perylene-D12(IS)	ISTD			I
8						
9						
10						
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36						
37						
38						
39						
40		Average			6.8	

Data File : M:\LINUS\DATA\L190730M\0730L039.D Vial: 39
 Acq On : 1 Aug 19 12:50 Operator: MA
 Sample : 500ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Aug 1 13:30 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.12	152	1274561m	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.05	136	4232295	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3463010	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7097252	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.90	240	8410429	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.68	264	9316484	40.00000	ppb	0.02

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.68	45	908233	534.09063	ppb	100

Quantitation Report

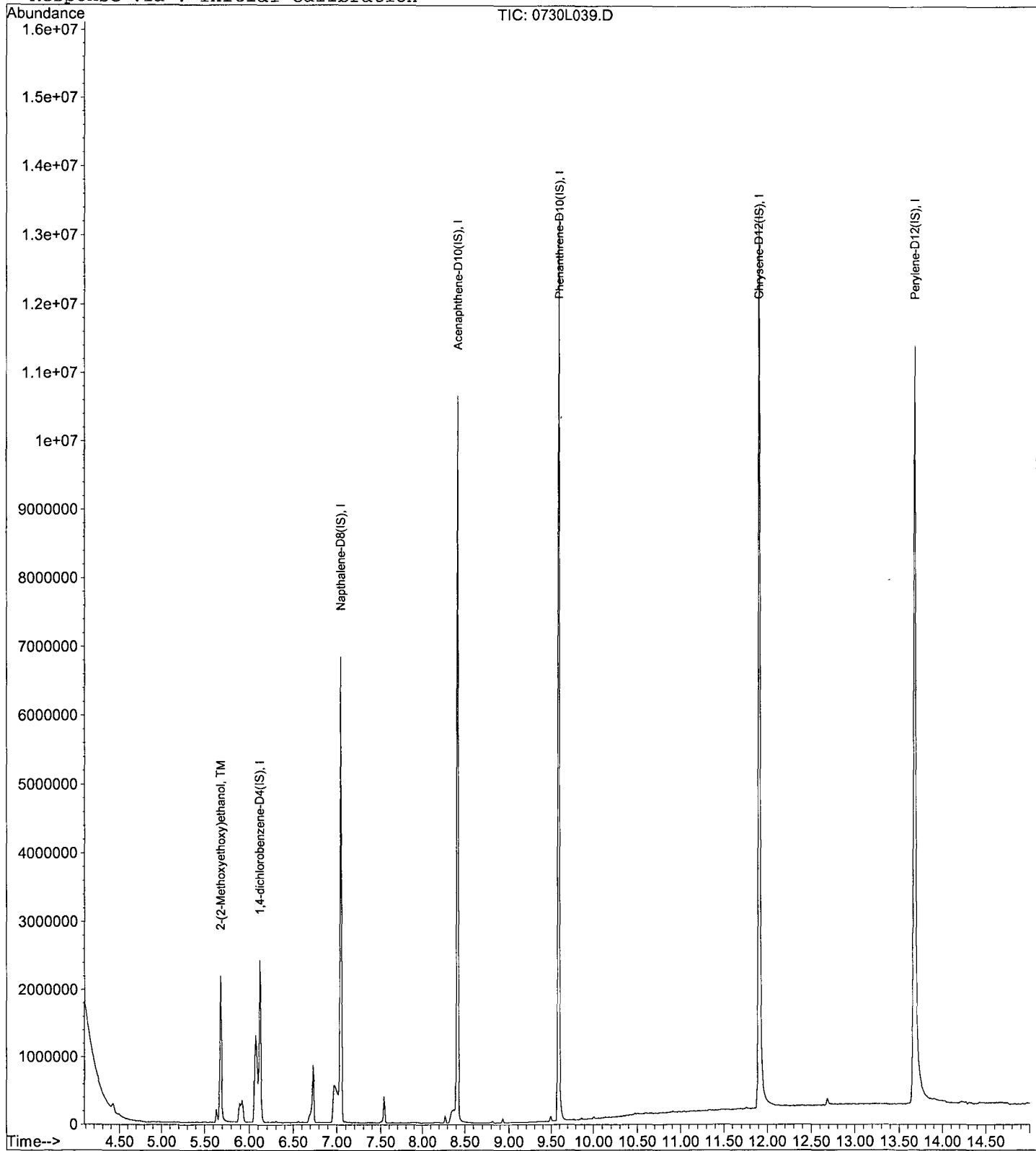
Data File : M:\LINUS\DATA\L190730M\0730L039.D
Acq On : 1 Aug 19 12:50
Sample : 500ug/ml MEE 04/30/19
Misc :

Vial: 39
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Aug 1 13:30 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 89624
Matrix: Water
ID: 0730L032.D

SDG No: 89624
Date Analyzed: 8/1/2019
Instrument: Linus
Time Analyzed: 9:09

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	500ug/ml MEE 04/30/1	0730L033.D	8/1/2019 9:51
2	Blank	190730A BLK 2/500	0730L034.D
3	Lab Control Spike	190730A LCS-1 2/500	0730L035.D
4	Lab Control SpikeD	190730A LCSD-1 2/500	0730L036.D
5	ERH863	AZ95511W01 2/500	0730L037.D
6	ERH867	AZ95513W01 2/500	0730L038.D
7	500ug/ml MEE 04/30/1	0730L039.D	8/1/2019 12:50
8			
9			
10			
11			
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19			
20			
21			
22			

m/e

51 10 - 80% of mass 198	11.5
68 0 - 2% of mass 69	0.0
69 100 - 100% of mass 69	100.0
70 0 - 2% of mass 69	0.0
127 10 - 80% of mass 198	33.3
197 0 - 2% of mass 198	0.0
198 100 - 100% of mass 198	100.0
199 5 - 9% of mass 198	6.5
275 10 - 60% of mass 198	32.6
365 1 - 100% of mass 198	4.7
441 0.01 - 24% of mass 442	16.6
442 50 - 500% of mass 198	217.4
443 15 - 24% of mass 442	20.8

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89624
 Lab File ID (Standard): 0730L007.D Date Analyzed: 07/30/19
 Instrument ID: Linus Time Analyzed: 14:04
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

		1,4-dichlorobenzene-D4(IS)		Napthalene-D8(IS)		Acenaphthene-D10(IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		1382830	6.13	4970140	7.05	3606290	8.42
UPPER LIMIT		2765660	6.30	9940280	7.22	7212580	8.59
LOWER LIMIT		691415	5.96	2485070	6.88	1803145	8.25
SAMPLE NO.							
01	500ug/ml MEE 04/30/19	1030920	6.14	4306640	7.05	3064380	8.42
02	190730A BLK 2/500	971499	6.14	3808740	7.05	2450470	8.42
03	190730A LCS-1 2/500	996719	6.14	3895680	7.05	2508310	8.41
04	190730A LCSD-1 2/500	1183510	6.14	4527470	7.06	2927410	8.42
05	AZ95511W01 2/500	1052900	6.14	4017320	7.06	2617690	8.42
06	AZ95513W01 2/500	956512	6.14	3434420	7.06	2133720	8.42
07	500ug/ml MEE 04/30/19	1274560	6.12	4232300	7.05	3463010	8.42
08							
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22							

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89624
 Lab File ID (Standard): 0730L007.D Date Analyzed: 07/30/19
 Instrument ID: Linus Time Analyzed: 14:04
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

	Phenanthrene-D10(IS)		Chrysene-D12(IS)		Perylene-D12(IS)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	7424400	9.59	7867430	11.88	7875030	13.64
UPPER LIMIT	14848800	9.76	15734860	12.05	15750060	13.81
LOWER LIMIT	3712200	9.42	3933715	11.71	3937515	13.47
SAMPLE NO.						
01 500ug/ml MEE 04/30/19	6379690	9.59	7592720	11.93	8663280	13.72
02 190730A BLK 2/500	5568300	9.59	5851590	11.95	6910420	13.73
03 190730A LCS-1 2/500	5716260	9.58	6007710	11.88	6939470	13.65
04 190730A LCSD-1 2/500	6598080	9.58	7104930	11.87	8589850	13.63
05 AZ95511W01 2/500	5846740	9.58	6267310	11.87	7164820	13.63
06 AZ95513W01 2/500	4861970	9.59	4996430	11.89	6129660	13.66
07 500ug/ml MEE 04/30/19	7097250	9.59	8410430	11.90	9316480	13.68
08						
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22						

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

ORGANICS
Raw Data

Data File : M:\LINUS\DATA\L190730M\0730L037.D Vial: 37
 Acq On : 1 Aug 19 12:02 Operator: MA
 Sample : AZ95511W01 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Aug 1 12:46 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.14	152	1052904	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.06	136	4017323	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	2617688	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.58	188	5846739	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.87	240	6267308	40.00000	ppb	-0.02
7) Perylene-D12 (IS)	13.63	264	7164824	40.00000	ppb	-0.03

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

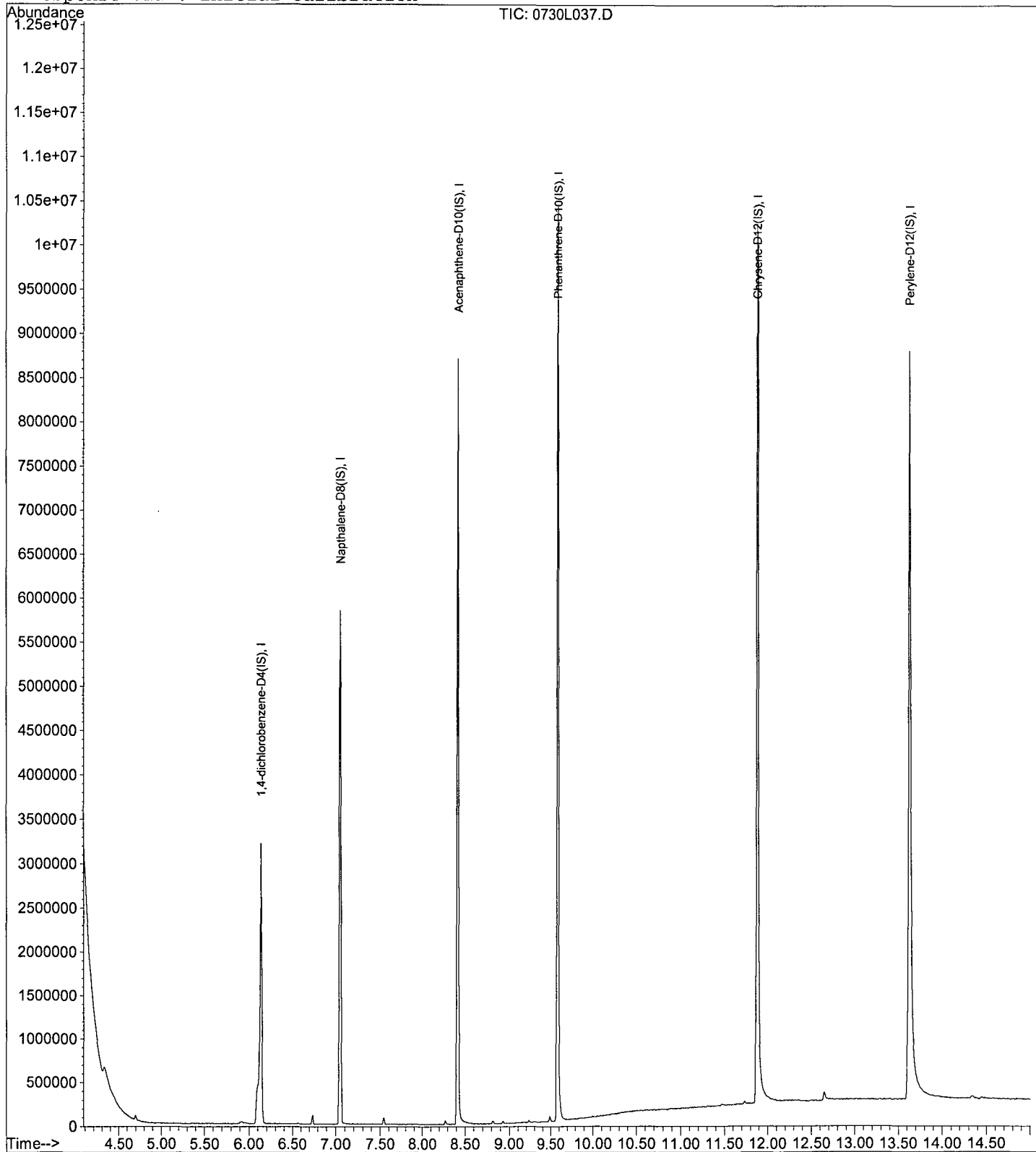
Data File : M:\LINUS\DATA\L190730M\0730L037.D
Acq On : 1 Aug 19 12:02
Sample : AZ95511W01 2/500
Misc :

Vial: 37
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Aug 1 12:46 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L038.D Vial: 38
 Acq On : 1 Aug 19 12:26 Operator: MA
 Sample : AZ95513W01 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Aug 1 12:46 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.14	152	956512	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.06	136	3434420	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	2133720	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	4861971	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	4996434	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	6129662	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

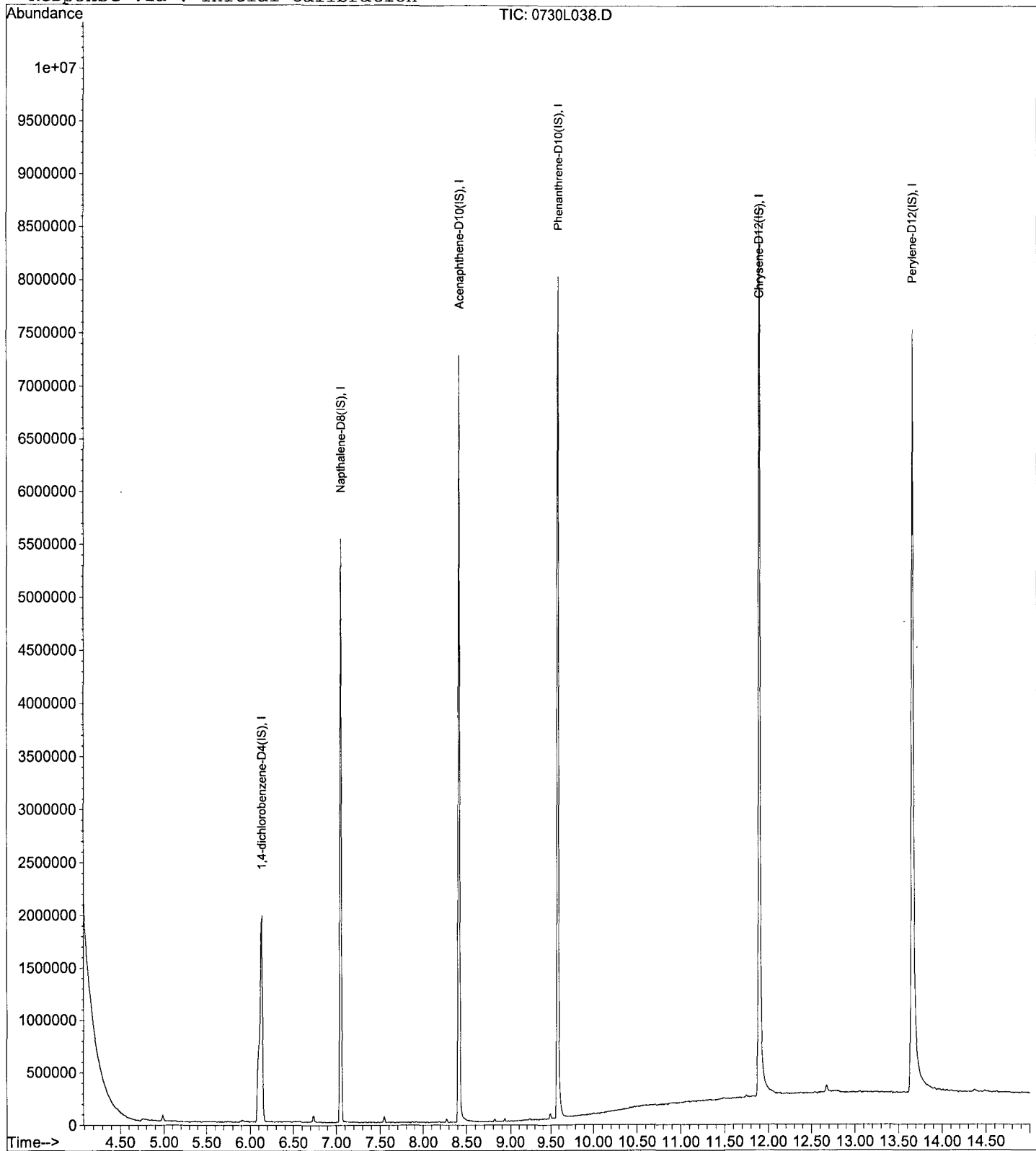
Data File : M:\LINUS\DATA\L190730M\0730L038.D
Acq On : 1 Aug 19 12:26
Sample : AZ95513W01 2/500
Misc :

Vial: 38
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Aug 1 12:46 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L034.D Vial: 34
 Acq On : 1 Aug 19 10:53 Operator: MA
 Sample : 190730A BLK 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Aug 1 11:39 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.14	152	971499	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.05	136	3808741	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	2450474	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	5568298	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.95	240	5851586	40.00000	ppb	0.06
7) Perylene-D12 (IS)	13.73	264	6910417	40.00000	ppb	0.07

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

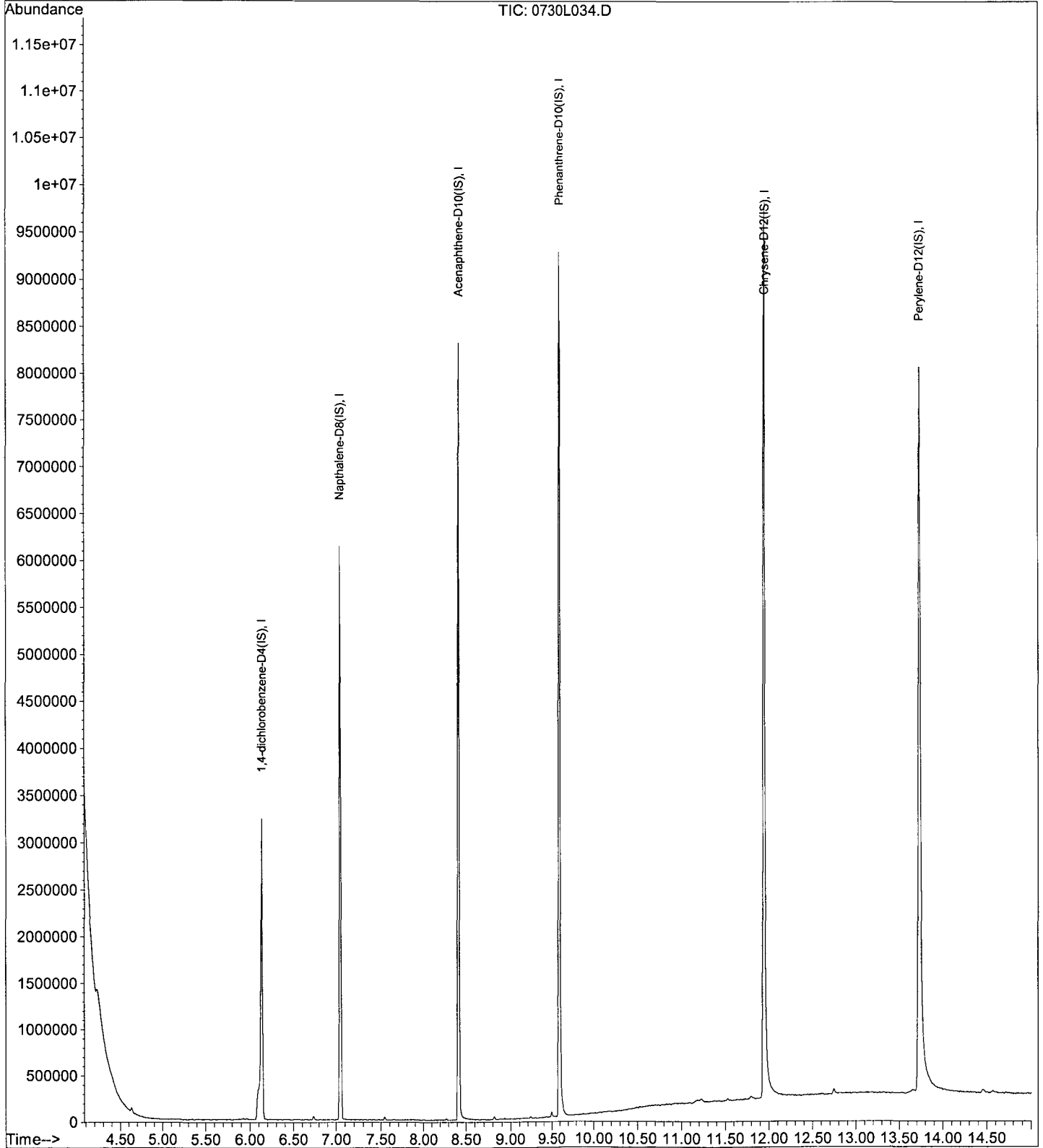
Data File : M:\LINUS\DATA\L190730M\0730L034.D
Acq On : 1 Aug 19 10:53
Sample : 190730A BLK 2/500
Misc :

Vial: 34
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Aug 1 11:39 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L035.D
 Acq On : 1 Aug 19 11:16
 Sample : 190730A LCS-1 2/500
 Misc :

Vial: 35
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Aug 1 11:39 2019

Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.14	152	996719	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.05	136	3895675	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.41	164	2508312	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.58	188	5716264	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.88	240	6007706	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.65	264	6939465	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	5.77	45	101346	76.21004	ppb	98

Quantitation Report

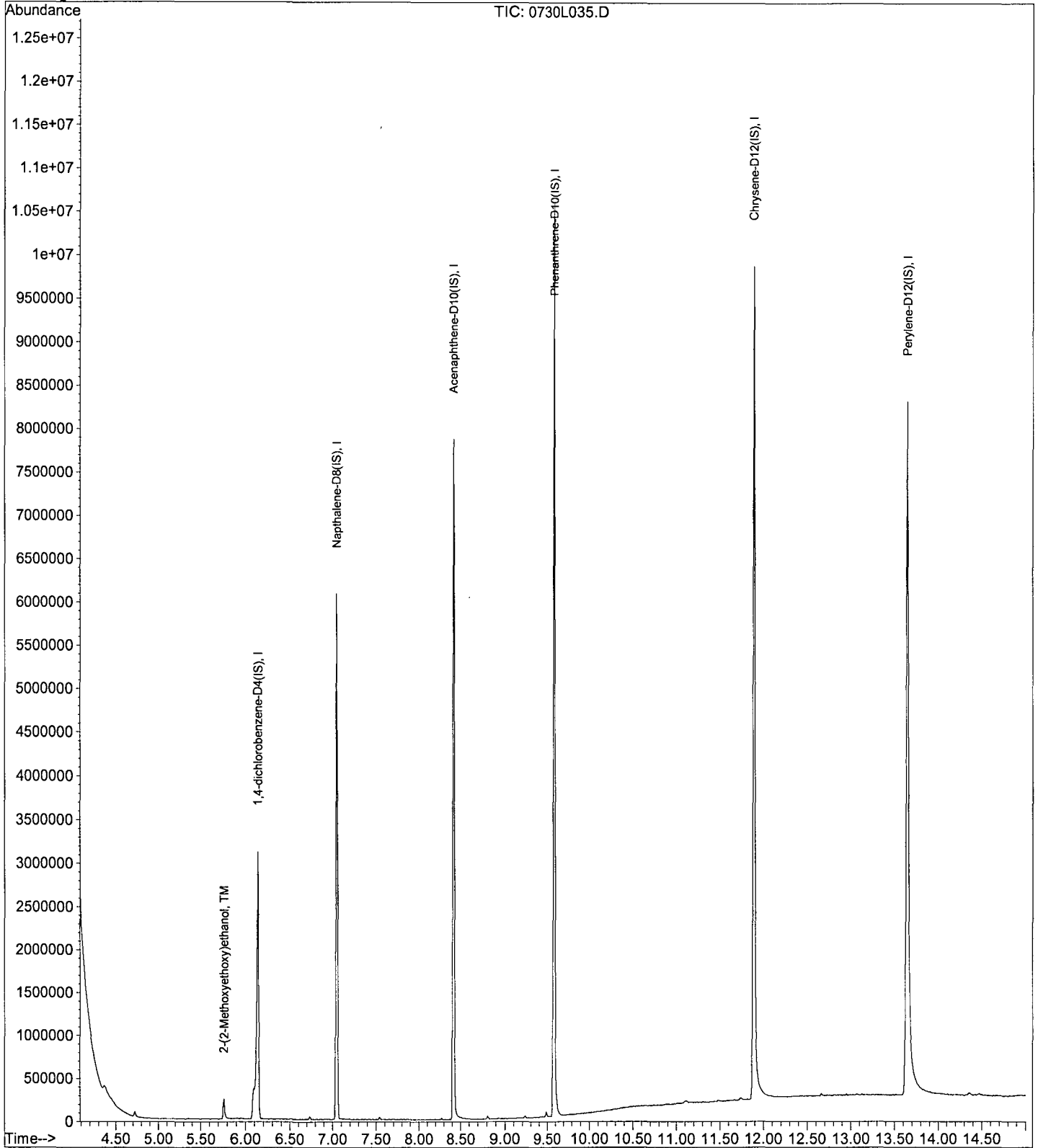
Data File : M:\LINUS\DATA\L190730M\0730L035.D
Acq On : 1 Aug 19 11:16
Sample : 190730A LCS-1 2/500
Misc :

Vial: 35
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Aug 1 11:39 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L036.D Vial: 36
 Acq On : 1 Aug 19 11:39 Operator: MA
 Sample : 190730A LCSD-1 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Aug 1 12:46 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.14	152	1183505	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.06	136	4527467	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	2927410	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.58	188	6598081	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.87	240	7104929	40.00000	ppb	-0.02
7) Perylene-D12 (IS)	13.63	264	8589854	40.00000	ppb	-0.03

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.78	45	116253	73.62281	ppb	99

Quantitation Report

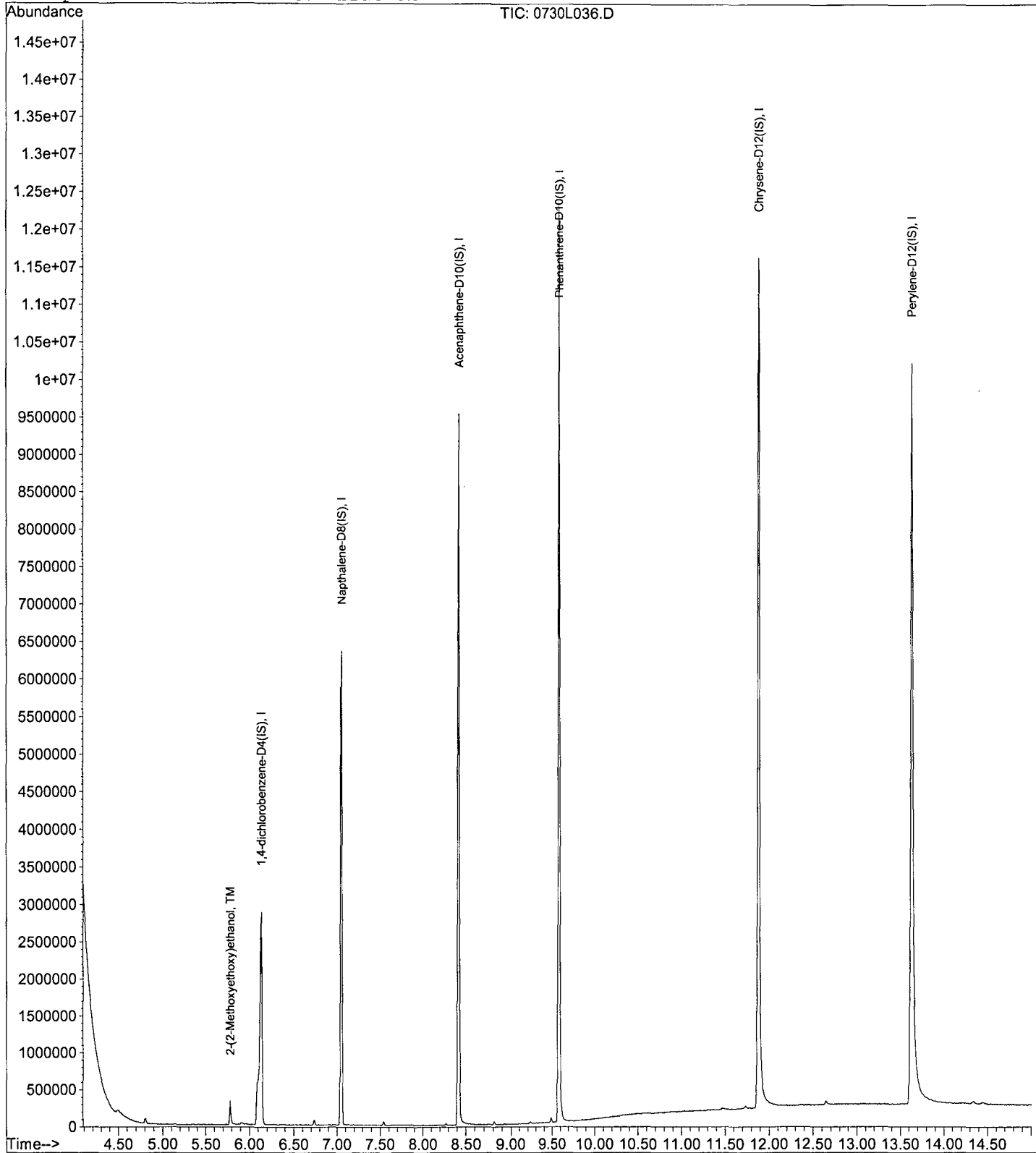
Data File : M:\LINUS\DATA\L190730M\0730L036.D
Acq On : 1 Aug 19 11:39
Sample : 190730A LCSD-1 2/500
Misc :

Vial: 36
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Aug 1 12:46 2019

Quant Results File: LMEE0430.RES

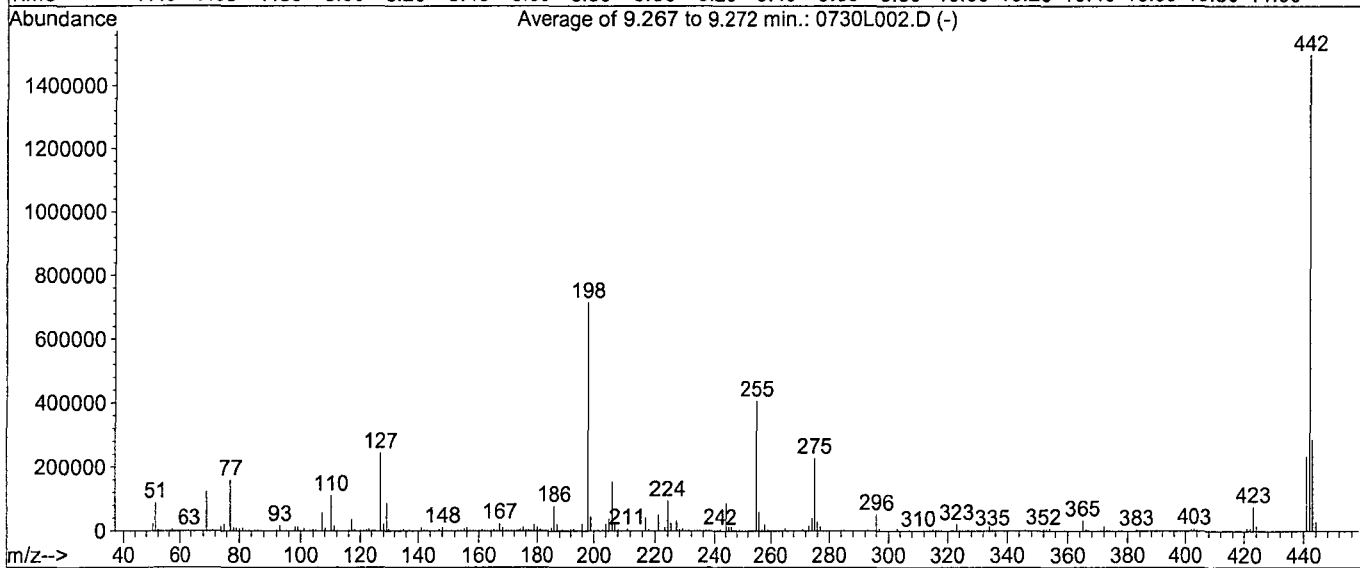
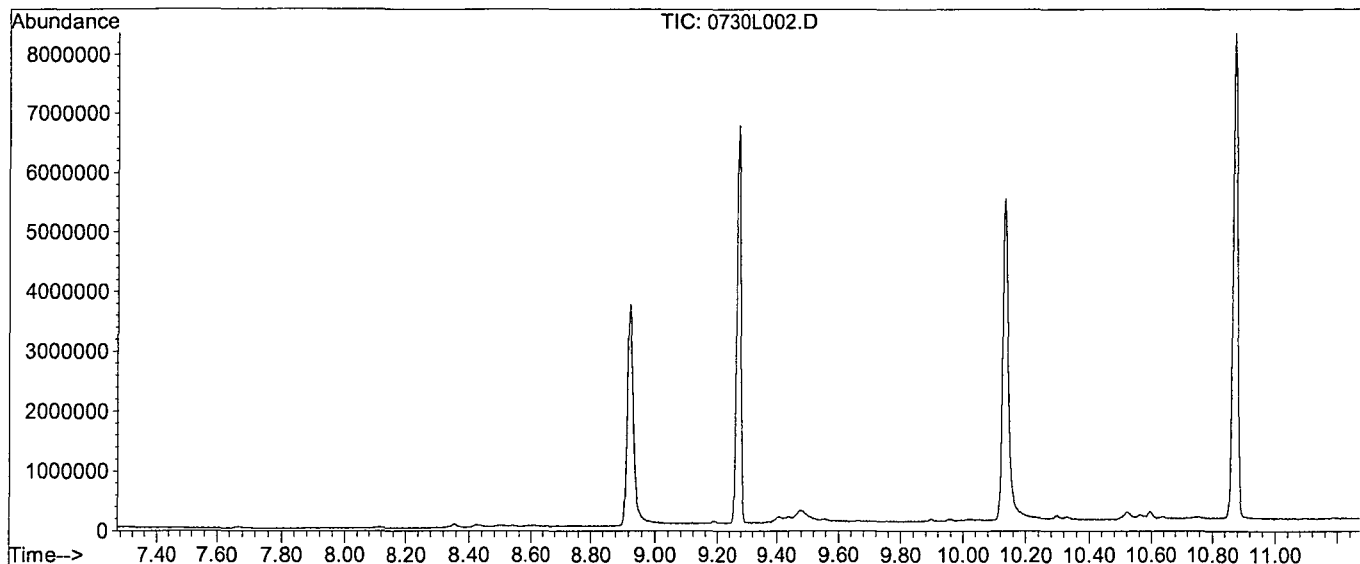
Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L002.D
 Acq On : 30 Jul 19 9:38
 Sample : SV TUNE 7/11/19
 Misc :

Vial: 13
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C



AutoFind: Scans 1278, 1279, 1280; Background Corrected with Scan 1264

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	12.4	88440	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.7	913	PASS
127	198	10	80	34.1	244050	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	715371	PASS
199	198	5	9	6.5	46251	PASS
275	198	10	60	31.8	227456	PASS
365	198	1	100	4.6	32808	PASS
441	442	0.01	24	15.6	234091	PASS
442	198	50	500	209.5	1498965	PASS
443	442	15	24	19.1	286635	PASS

Data File Name: 0730L002.D
Data File Path: M:\LINUS\DATA\190730M\
Operator: MA
Date Acquired: 30 Jul 2019 09:38
Method File: DFTPP2.M
Sample Name: SV TUNE 7/11/19
Vial Number: 13
Instrument Name: Linus

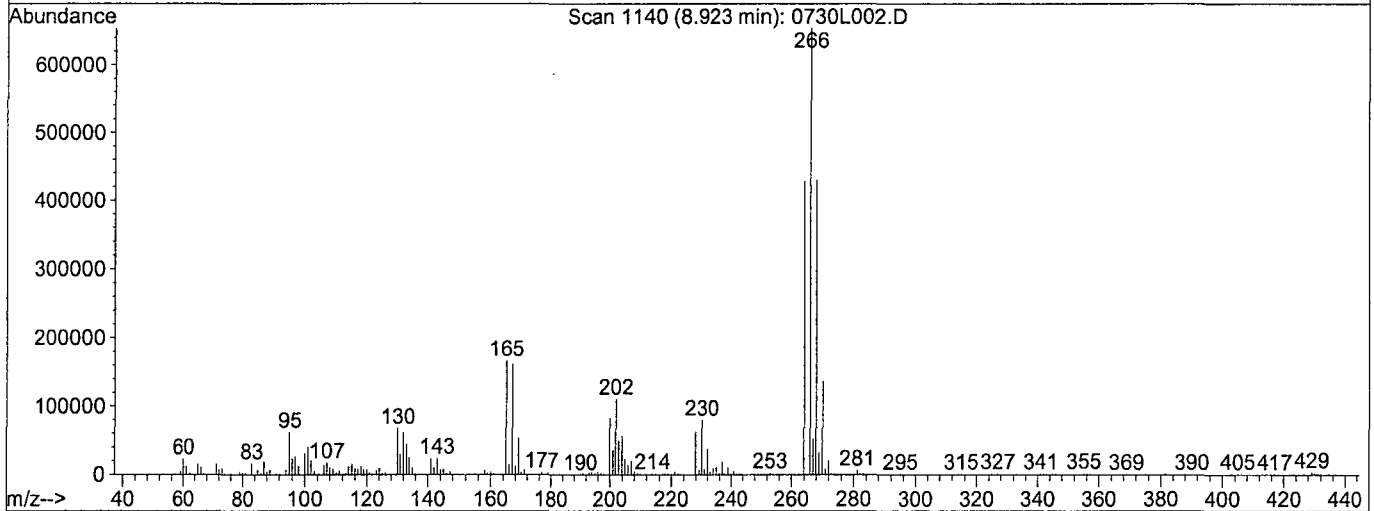
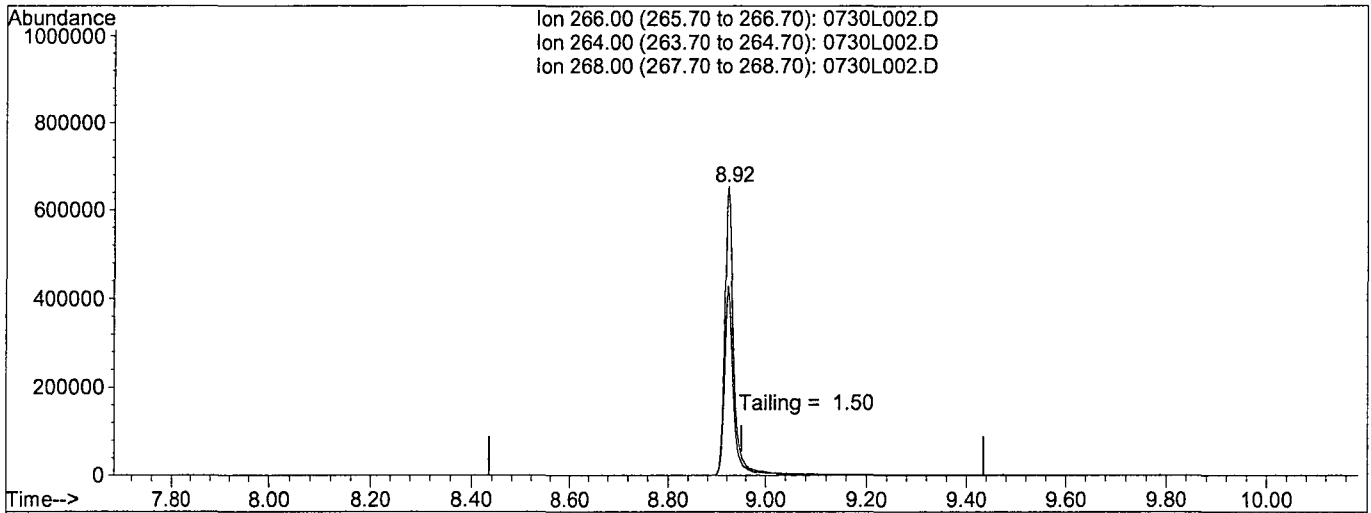
#	Name	Ret Time	Target Response
1)	DDT	10.91	89435000
2)	DDD	10.60	1591060
3)	DDE	10.64	0

Breakdown 1.75

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L002.D Vial: 13
 Acq On : 30 Jul 19 9:38 Operator: MA
 Sample : SV TUNE 7/11/19 Inst : Linus
 Misc : Multiplr: 1.00
 Quant Time: Jul 30 16:36 2019 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 26 10:43:15 2019
 Response via : Single Level Calibration



TIC: 0730L002.D

(5) Pentachlorophenol

8.92min 0.0000

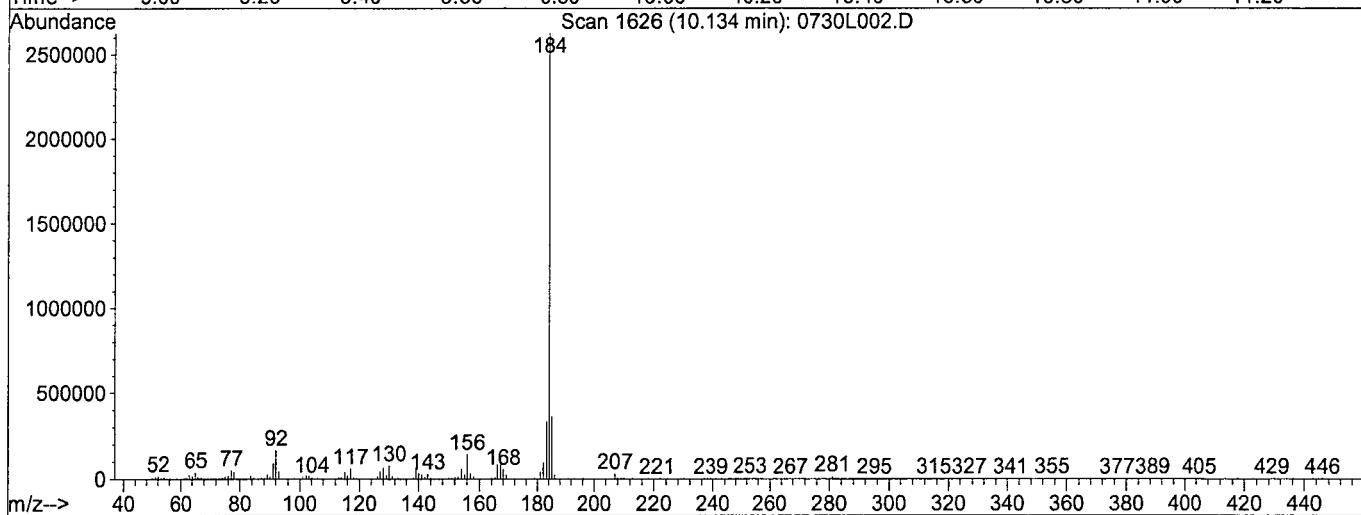
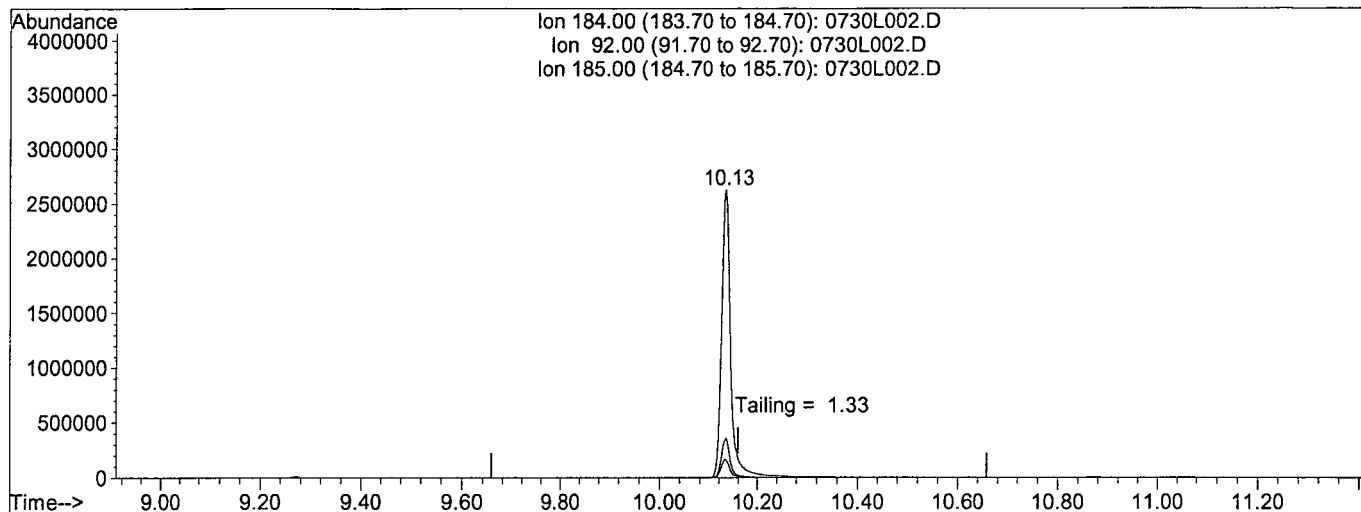
response 8415831

Ion	Exp%	Act%
266.00	100	100
264.00	68.30	65.66
268.00	65.70	64.15
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L002.D Vial: 13
 Acq On : 30 Jul 19 9:38 Operator: MA
 Sample : SV TUNE 7/11/19 Inst : Linus
 Misc : Multiplr: 1.00
 Quant Time: Jul 30 16:36 2019 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 26 10:43:15 2019
 Response via : Single Level Calibration



TIC: 0730L002.D

(6) Benzidine

10.13min 0.0000

response 33452488

Ion	Exp%	Act%
184.00	100	100
92.00	7.10	6.06
185.00	13.60	13.12
0.00	0.00	0.00

Organic Extraction Worksheet







Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	190730A	Extraction Method	MWE2MEE	Units	mL
Spiked ID 1	Diethylene Glycol 1-31-19 EXP 1-31-20		Surrogate ID 1				
Spiked ID 2	2MEE SS 10320ug/mL 8-3-18 exp 8-3-19		Surrogate ID 2				
Spiked ID 3			Surrogate ID 3				
Spiked ID 4			Surrogate ID 4				
Spiked ID 5			Surrogate ID 5				
Spiked ID 6			Sufficient Vol for Matrix QC:		no		
Spiked ID 7			Ext. Start Time:		07/30/19 8:50		
Spiked ID 8			Ext. End Time:		07/30/19 14:00		
				GC Requires Extract By:		08/02/19 0:00	
				pH1		Water Bath Temp 1 °C	
				pH2		Water Bath Temp 2 °C	
				pH3		Water Bath Temp 3 °C	

Spiked By: DL

Date 07/30/19

Witnessed By: CFM

Date 07/30/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1 190730A Blk				NA	NA	500	2	7	07/30/19 8:50	
					equip					
2 190730A LCS-1		0.040	1	NA	NA	500	2	7	07/30/19 8:50	
					equip					
3 190730A LCSD-1		0.040	1	NA	NA	500	2	7	07/30/19 8:50	
					equip					
4 AZ95511	AZ95511W10			NA	NA	500	2	7	07/30/19 8:50	89624
					equip					
5 AZ95513	AZ95513W11			NA	NA	500	2	7	07/30/19 8:50	89624
					equip					
6 SS		0.097	2	NA	NA	500	2	7	07/30/19 8:50	
					equip					

Solvent and Lot#	
ENVI-Carb Plus 400MG/1ML *	
Reverible Tube Lot:	11225702
PH Strip	HC863463
Di Water	7/30/19
Dichloromethane	58240
Methanol	59129

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	JP
Date	7/31/19
Time	1115
Refrigerator	Hobart

	Technician's Initials
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	07/30/19 8:39:38 AM

Reviewed By:

Date

Name of Final Standard Diethylene Glycol
 Prep Date 01/31/19
 Exp Date 01/31/20

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc.(range)
Diethylene glycol methyl ether	AccuStandard	S-72273	2000 ug/mL	218101558-39888 39889	01/31/20	2.0 mL	4 mL	Methanol #042317C	1000 ug/mL

Given to Extraction to do MEE M STD Stock (used for ICAL) Final concentration 2000ug/L

Name of Final
Standard 2MEE Second Source Stock
Prep Date 08/03/18
Exp Date 08/03/19

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Methoxyethanol-Neat	Chem Service	N-12404-1G	Neat 99.5%	7079100 - 39417	08/03/19	0.1035g	10 mL	MC #56258	10320 ug/mL

Given to Extraction to do MEE SS (used for ICAL SS)

0.097ml were spiked in 500ml of water and extracted on 04/29/19 . Final concentration is 2000ug/L

Organic Extraction Worksheet

Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	190429A	Extraction Method	MWE2MEE	Units	mL
Spiked ID 1	Diethylene Glycol 1-31-19 EXP 1-31-20	Surrogate ID 1					
Spiked ID 2	2MEE SS 10320ug/mL 8-3-18 exp 8-3-19	Surrogate ID 2					
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:		YES			
Spiked ID 7		Ext. Start Time:		04/29/19 10:50			
Spiked ID 8		Ext. End Time:		04/29/19 16:40			

M STD AND SS PREPARATION

HA 5/1/19

GC Requires Extract By:		04/30/19 0:00
pH1		Water Bath Temp Criteria
pH2		
pH3		

Spiked By: KY

Date 04/29/19

Witnessed By: DL

Date 04/29/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1 190429A Blk				NA	NA	500	2	7	04/29/19 10:50	
2 190429A LCS-1		0.040	1	NA	NA	500	2	7	04/29/19 10:50	
3 190429A LCSD-1		0.040	1	NA	NA	500	2	7	04/29/19 10:50	
4 AZ89958 MS-1	AZ89958W23	0.040	1	NA	NA	510	2	7	04/29/19 10:50	88687
5 AZ89958 MSD-1	AZ89958W22	0.040	1	NA	NA	510	2	7	04/29/19 10:50	88687
6 AZ89958	AZ89958W24			NA	NA	500	2	7	04/29/19 10:50	88687
7 AZ89959	AZ89959W06			NA	NA	480	2	7	04/29/19 10:50	88687
8 AZ89961	AZ89961W22			NA	NA	510	2	7	04/29/19 10:50	88687
9 AZ90051 MS-1	AZ90051W21	0.040	1	NA	NA	500	2	7	04/29/19 10:50	88701
10 AZ90051 MSD-1	AZ90051W25	0.040	1	NA	NA	500	2	7	04/29/19 10:50	88701
11 AZ90051	AZ90051W22			NA	NA	500	2	7	04/29/19 10:50	88701
12 AZ90052	AZ90052W05			NA	NA	505	2	7	04/29/19 10:50	88701
13 AZ90054	AZ90054W16			NA	NA	510	2	7	04/29/19 10:50	88701
14 AZ90056	AZ90056W16			NA	NA	510	2	7	04/29/19 10:50	88701
15 AZ90058	AZ90058W17			NA	NA	500	2	7	04/29/19 10:50	88701
16 AZ90060	AZ90060W17			NA	NA	505	2	7	04/29/19 10:50	88701

Solvent and Lot#	
ENVI-Carb Plus 400MG/1ML	
Reverible Tube Lot:	11225702
PH Strip	HC 863463
Di Water	4-29-19
Dichloromethane	58240
Methanol	58179

Extraction COC Transfer	
Extraction lab employee Initials	KY
GC analyst's initials	
Date	
Time	
Refrigerator	

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	04/29/19 2:46:49 PM

Reviewed By:

Date
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Ext_ID 62632

Organic Extraction Worksheet

Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	190429A	Extraction Method	MWE2MEE	Units	mL
Spiked ID 1	Diethylene Glycol 1-31-19 EXP 1-31-20		Surrogate ID 1				
Spiked ID 2	2MEE SS 10320ug/mL 8-3-18 exp 8-3-19		Surrogate ID 2				
Spiked ID 3			Surrogate ID 3				
Spiked ID 4			Surrogate ID 4				
Spiked ID 5			Surrogate ID 5				
Spiked ID 6			Sufficient Vol for Matrix QC:		YES		
Spiked ID 7			Ext. Start Time:	04/29/19 10:50			
Spiked ID 8			Ext. End Time:	04/29/19 16:40			
			GC Requires Extract By:	04/30/19 0:00			
			pH1			Water Bath Temp Criteria	
			pH2				
			pH3				

Spiked By: KY

Date 04/29/19

Witnessed By: DL

Date 04/29/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
17	AZ90100 AZ90100W17			NA	NA	510	2	7	04/29/19 10:50	88714
					equip					
18	AZ90102 AZ90102W16			NA	NA	395	2	7	04/29/19 10:50	88714
					equip					
19	AZ90103 AZ90103W04			NA	NA	250	2	7	04/29/19 10:50	88714
					equip					
20	AZ90105 AZ90105W16			NA	NA	500	2	7	04/29/19 10:50	88714
					equip					
21	AZ90107 AZ90107W16			NA	NA	510	2	7	04/29/19 10:50	88714
					equip					
22	AZ90109 AZ90109W17			NA	NA	505	2	7	04/29/19 10:50	88714
					equip					
23	AZ90213 AZ90213W15			NA	NA	505	2	7	04/29/19 10:50	88736
					equip					
24	AZ90215 AZ90215W16			NA	NA	500	2	7	04/29/19 10:50	88736
					equip					
25	M STD	1	1	NA	NA	500	2	7	04/29/19 10:50	
					equip					
26	SS	0.097	2	NA	NA	500	2	7	04/29/19 10:50	
					equip					

Solvent and Lot#	
ENVI-Carb Plus 400MG/1ML	
Reverible Tube Lot:	11225702
PH Strip	HC 863463
Di Water	4-29-19
Dichloromethane	58240
Methanol	58179

Extraction COC Transfer	
Extraction lab employee Initials	KY
GC analyst's initials	
Date	
Time	
Refrigerator	

	Technician's Initials
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	04/29/19 2:46:49 PM

Reviewed By:

Date
Page 353 of 579
Ext_ID 62632

Name of Final Standard MEE Curve
 Prep Date 04/30/19
 Exp Date 10/30/19

Prep'd By (Initials) SS

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	5 uL	200uL	Methanol 195uL Lot# 208858	50 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	4 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	5 uL	100uL	Methanol 95uL Lot# 208858	100 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	10 uL	100uL	Methanol 90uL Lot# 208858	200 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	20 uL	100uL	Methanol 80 uL Lot# 208858	400 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	50 uL	200uL	Methanol 150 uL	500 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	4 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	30 uL	100uL	Methanol 70 uL Lot# 208858	600 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	40 uL	100uL	Methanol 60 uL Lot# 208858	800 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	50 uL	100uL	Methanol 50uL Lot# 208858	1000 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			

Name of Final Standard MEE Second Source
 Prep Date 04/30/19
 Exp Date 08/03/19

Prep'd By (Initials) SS

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
MEE SS	APPL		2000 ug/mL	04/29/19	08/03/19	50 uL	200uL	Methanol 150uL Lot# 208858	500 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	4 uL			

Injection Log

Directory: M:\LINUS\DATA\190730M\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	13	0730L002.D	1	SV TUNE 7/11/19		30 Jul 19 9:38
2	3	0730L003.D	1	500ug/ml MEE 04/30/19		30 Jul 19 11:54
3	4	0730L004.D	1	50ug/ml MEE 04/30/19		30 Jul 19 12:18
4	5	0730L005.D	1	100ug/ml MEE 04/30/19		30 Jul 19 13:17
5	6	0730L006.D	1	200ug/ml MEE 04/30/19		30 Jul 19 13:41
6	7	0730L007.D	1	400ug/ml MEE 04/30/19		30 Jul 19 14:04
7	8	0730L008.D	1	600ug/ml MEE 04/30/19		30 Jul 19 14:27
8	9	0730L009.D	1	800ug/ml MEE 04/30/19		30 Jul 19 14:51
9	10	0730L010.D	1	1000ug/ml MEE 04/30/19		30 Jul 19 15:13
10	11	0730L011.D	1	SS MEE 04/30/19		30 Jul 19 15:37
11	32	0730L032.D	1	SV TUNE 07/11/19		1 Aug 19 9:09
12	33	0730L033.D	1	500ug/ml MEE 04/30/19		1 Aug 19 9:51
13	34	0730L034.D	1	190730A BLK 2/500		1 Aug 19 10:53
14	35	0730L035.D	1	190730A LCS-1 2/500		1 Aug 19 11:16
15	36	0730L036.D	1	190730A LCSD-1 2/500		1 Aug 19 11:39
16	37	0730L037.D	1	AZ95511W01 2/500		1 Aug 19 12:02
17	38	0730L038.D	1	AZ95513W01 2/500		1 Aug 19 12:26
18	39	0730L039.D	1	500ug/ml MEE 04/30/19		1 Aug 19 12:50

**ORGANICS
Calibration Data**

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/24/19
Instrument: Loki

Initials: DP/LV

0724L15.D 0724L16.D 0724L17.D 0724L18.D 0724L19.D 0724L20.D 0724L21.D 0724L22.D 0724L23.D

	Compound	1	2	3	4	5	6	7	8	9	Avg	%RSD	Type	r ²	Q	MRF
1	I Fluorobenzene (IS)															
2	TM Chlorotrifluoroethene		0.0814	0.0729	0.0748	0.0793	0.0864	0.0836	0.0849	0.0721	0.08	7.0	TM			
3	TML Dichlorodifluoromethane		0.0739	0.0647	0.0884	0.0572	0.0697	0.0581	0.0584	0.0558	0.07	17	TML	0.999		
4	TM Freon 114		0.1882	0.1780	0.1849	0.1903	0.1844	0.1675	0.1695	0.1623	0.18	5.9	TM			
5	TM**L Chloromethane		0.3201	0.2594	0.2397	0.2051	0.2066	0.1813	0.1769	0.1593	0.22	24	TM**L	0.998		
6	TM* Vinyl chloride		0.2492	0.2407	0.2178	0.1970	0.2272	0.2058	0.1955	0.1829	0.21	11	TM*			
7	TM 2-Chloro-1,1,1-trifluoroethane		2.819	2.749	2.780	2.847	2.951	2.896	2.866	2.446	2.8	5.5	TM			
8	TML Bromomethane	0.2250	0.1710	0.1687	0.1394	0.1194	0.1296				0.16	24	TML	0.996		
9	TML Chloroethane		0.2197	0.1516	0.1669	0.1353	0.1420	0.1231	0.1186	0.1032	0.15	25	TML	0.996		
10	TM Dichlorofluoromethane		0.3791	0.3404	0.3654	0.4016	0.3824	0.3456	0.3467	0.3217	0.36	7.3	TM			
11	TM Trichlorofluoromethane		0.2296	0.2723	0.2355	0.2304	0.2591	0.2255	0.2201	0.2112	0.24	8.6	TM			
12	TM Diethyl ether												TM			
13	TM Acrolein		0.0137	0.0118	0.0113	0.0144	0.0136	0.0137	0.0132	0.0113	0.01	9.6	TM			
14	TML Acetone		0.4071	0.2200	0.1573	0.1169	0.0962	0.0793	0.0679	0.0608	0.15	77	TML	0.998		
15	TM Freon-113		0.2087	0.1928	0.2187	0.2326	0.2089	0.1827	0.1956	0.1909	0.20	8.1	TM			
16	TM* 1,1-DCE		0.2171	0.2254	0.2069	0.2021	0.1955	0.1755	0.1918	0.1768	0.20	8.9	TM*			
17	TML t-Butanol	0.0334	0.0226	0.0221	0.0231	0.0225	0.0203	0.0195	0.0209		0.02	19	TML	0.992		
18	TML 2-Propanol		0.0201	0.0178	0.0150	0.0134	0.0121	0.0132	0.0133		0.01	19	TML	0.996		
19	TM Acetonitrile		0.0292	0.0293	0.0284	0.0279	0.0281	0.0252	0.0270	0.0260	0.03	5.3	TM			
20	TML Methyl Acetate		0.2261	0.2553	0.2118	0.2114	0.1750	0.1658	0.1663	0.1486	0.20	19	TML	0.998		
21	TMQ Iodomethane		0.0440	0.0288	0.0416	0.0521	0.0675	0.0939	0.1319	0.1779	0.08	65	TMQ	0.999		
22	TM Acrylonitrile		0.0833	0.1081	0.0939	0.0937	0.0942	0.0877	0.0868	0.0805	0.09	9.4	TM			
23	TM Methylene chloride		0.2449	0.2687	0.2453	0.2632	0.2455	0.2117	0.2154	0.1949	0.24	11	TM			
24	TM Carbon disulfide		0.6324	0.6121	0.5760	0.6141	0.5667	0.5104	0.5094	0.4845	0.56	9.9	TM			
25	TM Methyl t-butyl ether (MtBE)		0.6260	0.5918	0.5729	0.6293	0.5949	0.5454	0.5793	0.5646	0.59	4.9	TM			
26	TM Trans-1,2-DCE		0.1982	0.2381	0.2388	0.2365	0.2351	0.2028	0.2147	0.2005	0.22	8.3	TM			
27	TM Diisopropyl Ether		0.4528	0.4201	0.4371	0.5140	0.4714	0.4196	0.4736	0.4666	0.46	6.9	TM			
28	TM** 2,2-Dichloro-1,1,1-trifluoroethane												TM**			
29	TM** 1,1-DCA		0.4044	0.3483	0.3607	0.4092	0.3695	0.3238	0.3433	0.3177	0.36	9.4	TM**			
30	TM Vinyl Acetate		0.4528	0.4201	0.4371	0.5140	0.4714	0.4196	0.4736	0.4666	0.46	6.9	TM			
31	TM Ethyl tert Butyl Ether		0.3356	0.3811	0.4049	0.4250	0.4418	0.3878	0.4252	0.4568	0.41	9.5	TM			
32	TM MEK (2-Butanone)		0.0338	0.0380	0.0297	0.0357	0.0308	0.0316	0.0302	0.0279	0.03	10	TM			
33	TM Cis-1,2-DCE		0.2728	0.2652	0.2372	0.2340	0.2306	0.2041	0.2270	0.2145	0.24	9.9	TM			
34	TM 2,2-Dichloropropane		0.2550	0.3272	0.2520	0.2995	0.2663	0.2336	0.2567	0.2377	0.27	12	TM			
35	TM 2-Methylpentane												TM			

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/24/19
Instrument: Loki

Initials: DP

		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	Q	MRF
36	TM	3-Methylpentane													TM		
37	TM*	Chloroform		0.4102	0.3560	0.4086	0.4286	0.3970	0.3651	0.3755	0.3529		0.39	7.3	TM*		
38	TM	Bromochloromethane		0.1149	0.1402	0.1510	0.1538	0.1451	0.1309	0.1259	0.1045		0.13	13	TM		
39	S	Dibromofluoromethane(S)	0.4886	0.4703	0.4153	0.4400	0.4699	0.4590	0.4183	0.4399	0.3839		0.44	7.4	S		
40	TM	1,1,1-TCA		0.3188	0.3273	0.3228	0.3510	0.3286	0.3038	0.3285	0.3104		0.32	4.4	TM		
41	TM	Cyclohexane		0.0876	0.1431	0.1184	0.1147	0.1115	0.1087	0.1233	0.1234		0.12	14	TM		
42	TM	1,1-Dichloropropene		0.2242	0.2123	0.1895	0.2233	0.2130	0.2078	0.2318	0.2336		0.22	6.7	TM		
43	TM	2,2,4-Trimethylpentane		0.3731	0.3521	0.3211	0.3482	0.3583	0.3404	0.3903	0.4112		0.36	7.9	TM		
44	S	1,2-DCA-D4(S)	0.5208	0.4633	0.4317	0.4417	0.4813	0.4669	0.4327	0.4576	0.3960		0.45	7.8	S		
45	TM	Carbon Tetrachloride		0.3059	0.2690	0.3197	0.3588	0.3220	0.2953	0.3159	0.2981		0.31	8.3	TM		
46	TM	Tert Amyl Methyl Ether		0.4122	0.3928	0.3903	0.4143	0.4262	0.4233	0.4679	0.4628		0.42	6.8	TM		
47	TM	Methylcyclopentane													TM		
48	TM	1,2-DCA		0.2691	0.2850	0.3114	0.3047	0.3047	0.2749	0.2846	0.2707		0.29	5.8	TM		
49	TM	Benzene		0.6819	0.7237	0.7062	0.7524	0.7753	0.6847	0.7391	0.7121		0.72	4.5	TM		
50	TM	TCE		0.2441	0.2302	0.2276	0.2699	0.2607	0.2355	0.2461	0.2295		0.24	6.4	TM		
51	TM	2-Pentanone		0.1061	0.1089	0.1187	0.1197	0.1208	0.1126	0.1176	0.1146		0.11	4.6	TM		
52	TM*	1,2-Dichloropropane		0.2070	0.2131	0.1843	0.1977	0.1960	0.1743	0.1878	0.1789		0.19	7.0	TM*		
53	TM	Bromodichloromethane		0.2668	0.2986	0.3042	0.3305	0.3133	0.2783	0.3045	0.2772		0.30	7.2	TM		
54	TM	Methyl Cyclohexane		0.1685	0.1983	0.1990	0.2101	0.2231	0.2128	0.2409	0.2582		0.21	13	TM		
55	TM	Dibromomethane		0.1124	0.1347	0.1654	0.1708	0.1508	0.1409	0.1507	0.1374		0.15	13	TM		
56	TML	2-Chloroethyl vinyl ether			0.0016	0.0048	0.0065	0.0072	0.0072	0.0072			0.01	43	TML	0.999	
57	TM	MIBK (methyl isobutyl ketone)		0.1739	0.1410	0.1472	0.1466	0.1599	0.1347	0.1477	0.1470		0.15	8.0	TM		
58	TM	1-Bromo-2-chloroethane		0.2853	0.2533	0.2832	0.2884	0.2809	0.2547	0.2797	0.2602		0.27	5.3	TM		
59	TM	Cis-1,3-Dichloropropene		0.2742	0.3067	0.2822	0.2775	0.2847	0.2625	0.2895	0.2943		0.28	4.7	TM		
60	TM*	Toluene		0.7131	0.7249	0.6912	0.8420	0.8263	0.8108	0.8444	0.8035		0.78	7.9	TM*		
61	TM	Trans-1,3-Dichloropropene		0.2627	0.2094	0.2138	0.2773	0.2584	0.2502	0.2646	0.2613		0.25	9.9	TM		
62	TM	1,1,2-TCA		0.1962	0.1735	0.1701	0.1886	0.1765	0.1586	0.1623	0.1468		0.17	9.3	TM		
63	TM	2-Hexanone		0.0717	0.0806	0.0870	0.0959	0.0887	0.0852	0.0977	0.1023		0.09	11	TM		
64	I	Chlorobenzene-D5 (IS)															
65	S	Toluene-D8(S)	1.575	1.432	1.295	1.387	1.593	1.580	1.582	1.688	1.539		1.5	8.1	S		
66	TM	1,2-EDB		0.1874	0.2239	0.2310	0.2611	0.2320	0.2295	0.2459	0.2275		0.23	9.1	TM		
67	TM	Tetrachloroethene		0.3510	0.3573	0.3134	0.3705	0.3565	0.3135	0.3406	0.3231		0.34	6.4	TM		
68	TM	1-Chlorohexane		0.1915	0.1937	0.1740	0.2146	0.2201	0.2127	0.2537	0.2701		0.22	15	TM		
69	TM	1,1,1,2-Tetrachloroethane		0.3052	0.2905	0.3121	0.3432	0.2893	0.2694	0.2887	0.2606		0.29	8.7	TM		
70	TM	m&p-Xylene		0.5919	0.5203	0.5515	0.6712	0.6794	0.6846	0.7960	0.7895		0.66	15	TM		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. _____
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/24/19 _____
Instrument: Loki _____

Initials: DP _____

		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type		Q	MRF
71	TML	o-Xylene		0.1824	0.2783	0.2704	0.3404	0.3205	0.3278	0.3837	0.3888		0.31	22	TML	0.999		
72	TML	Styrene		0.3965	0.4000	0.4500	0.5318	0.5544	0.5727	0.6869	0.7055		0.54	22	TML	0.999		
73	S	4-Bromofluorobenzene(S)	0.5257	0.4587	0.4310	0.4437	0.5416	0.5563	0.5718	0.6085	0.5893		0.53	12	S			
74	TM	1,3-Dichloropropane		0.3399	0.3475	0.3696	0.3886	0.3564	0.3317	0.3719	0.3507		0.36	5.2	TM			
75	TM	Dibromochloromethane		0.2404	0.2838	0.3155	0.3388	0.3106	0.2860	0.3094	0.2886		0.30	9.9	TM			
76	TM**	Chlorobenzene		0.6569	0.6157	0.6016	0.6843	0.6664	0.6250	0.6670	0.6360		0.64	4.5	TM**			
77	TM*	Ethylbenzene		0.7568	0.7300	0.7609	0.8600	0.8684	0.8902	1.014	1.001		0.86	13	TM*			
78	TM**	Bromoform		0.2438	0.2373	0.2391	0.2715	0.2550	0.2297	0.2366	0.2380		0.24	5.5	TM**			
79	I	1,4-Dichlorobenzene-D (IS)																
80	TM	Isopropylbenzene		0.6520	0.7380	0.7564	0.8101	0.8580	0.7583	0.8852	0.8048		0.78	9.4	TM			
81	TM**	1,1,2,2-Tetrachloroethane		0.5590	0.5924	0.5626	0.5947	0.5320	0.4249	0.4723	0.4249		0.52	14	TM**			
82	TM	1,2,3-Trichloropropane		0.1671	0.2104	0.2136	0.2108	0.1925	0.1595	0.1639	0.1472		0.18	15	TM			
83	TML	t-1,4-Dichloro-2-Butene		0.0088	0.0146	0.0649	0.0818	0.0713	0.0675	0.0713	0.0762		0.06	50	TML	0.999		
84	TM	Bromobenzene		0.5967	0.4998	0.5295	0.5782	0.5618	0.4866	0.5070	0.4441		0.53	9.7	TM			
85	TM	n-Propylbenzene		1.471	1.353	1.426	1.663	1.681	1.522	1.704	1.558		1.5	8.3	TM			
86	TM	4-Ethyltoluene		1.311	1.235	1.184	1.381	1.488	1.402	1.595	1.449		1.4	9.8	TM			
87	TM	2-Chlorotoluene		0.5371	0.5487	0.5254	0.6448	0.6364	0.5882	0.6493	0.5769		0.59	8.5	TM			
88	TM	1,3,5-Trimethylbenzene		1.176	0.9448	1.059	1.295	1.362	1.284	1.425	1.257		1.2	13	TM			
89	TM	4-Chlorotoluene		0.2383	0.2079	0.2441	0.2254	0.2525	0.2301	0.2547	0.2293		0.24	6.6	TM			
90	TML	Tert-Butylbenzene		0.9169	0.8831	0.9219	1.251	1.131	0.9786	1.287	1.230		1.1	16	TML	0.998		
91	TM	1,2,4-Trimethylbenzene		1.046	0.9905	0.9534	1.127	1.231	1.195	1.406	1.288		1.2	13	TM			
92	TM	Sec-Butylbenzene		1.137	1.205	1.225	1.517	1.518	1.452	1.629	1.519		1.4	13	TM			
93	TM	p-Isopropyltoluene		1.047	1.091	1.149	1.335	1.439	1.335	1.495	1.428		1.3	13	TM			
94	TML	Benzyl Chloride		0.4975	0.4343	0.3947	0.3563	0.3673	0.2941	0.3308	0.3534		0.38	17	TML	0.998		
95	TM	1,3-DCB		0.8070	0.8988	0.8559	1.024	0.9776	0.8437	0.9398	0.8594		0.90	8.2	TM			
96	TM	1,4-DCB		0.9555	1.018	0.9987	1.070	1.034	0.8871	0.9838	0.8984		0.98	6.5	TM			
97	TM	n-Butylbenzene		0.8080	0.8251	0.8290	0.9550	1.022	0.9359	1.120	1.112		0.95	13	TM			
98	TM	1,2-DCB		0.9653	0.8765	0.8936	1.009	0.9542	0.8104	0.9297	0.8519		0.91	7.2	TM			
99	TM	Hexachloroethane		0.3835	0.3173	0.3484	0.3256	0.3081	0.2787	0.2765	0.2677		0.31	13	TM			
100	TML	1,2-Dibromo-3-chloropropane		0.0721	0.1238	0.1098	0.1043	0.0877	0.0836	0.0939	0.0800		0.09	18	TML	0.996		
101	TML	1,2,4-Trichlorobenzene		0.3486	0.4256	0.4875	0.5345	0.5173	0.4890	0.6008	0.5920		0.50	17	TML	0.999		
102	TML	Hexachlorobutadiene		0.2560	0.1215	0.1175	0.1356	0.1261	0.1100	0.1169	0.1118		0.14	36	TML	1.000		
103	TML	Naphthalene		0.7810	0.8014	0.8179	0.8426	0.8799	0.8998	1.133	1.250		0.93	19	TML	0.997		
104	TM	1,2,3-Trichlorobenzene		0.3854	0.4773	0.4813	0.5184	0.5440	0.5113	0.6352	0.6082		0.52	15	TM			
105																		

Quantitation Report (QT Reviewed)

Data File : M:\LOKI\DATA\190724\0724L15.D
 Acq On : 24 Jul 19 15:18
 Sample : 0.3ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 4
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	228544	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	199232	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	97600	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	22334	5.5172	ppb	0.00
Spiked Amount	25.000		Recovery	=	22.068%	
44) 1,2-DCA-D4(S)	5.25	65	23807	5.7278	ppb	0.00
Spiked Amount	25.000		Recovery	=	22.912%	
65) Toluene-D8(S)	7.63	98	62762	5.1848	ppb	0.00
Spiked Amount	25.000		Recovery	=	20.740%	
73) 4-Bromofluorobenzene(S)	10.53	95	20946	5.0046	ppb	0.00
Spiked Amount	25.000		Recovery	=	20.020%	
Target Compounds						
8) Bromomethane	1.31	94	617	0.3037	ppb	Qvalue # 60
17) t-Butanol	2.62	59	3053	9.5028	ppb	# 92

Quantitation Report

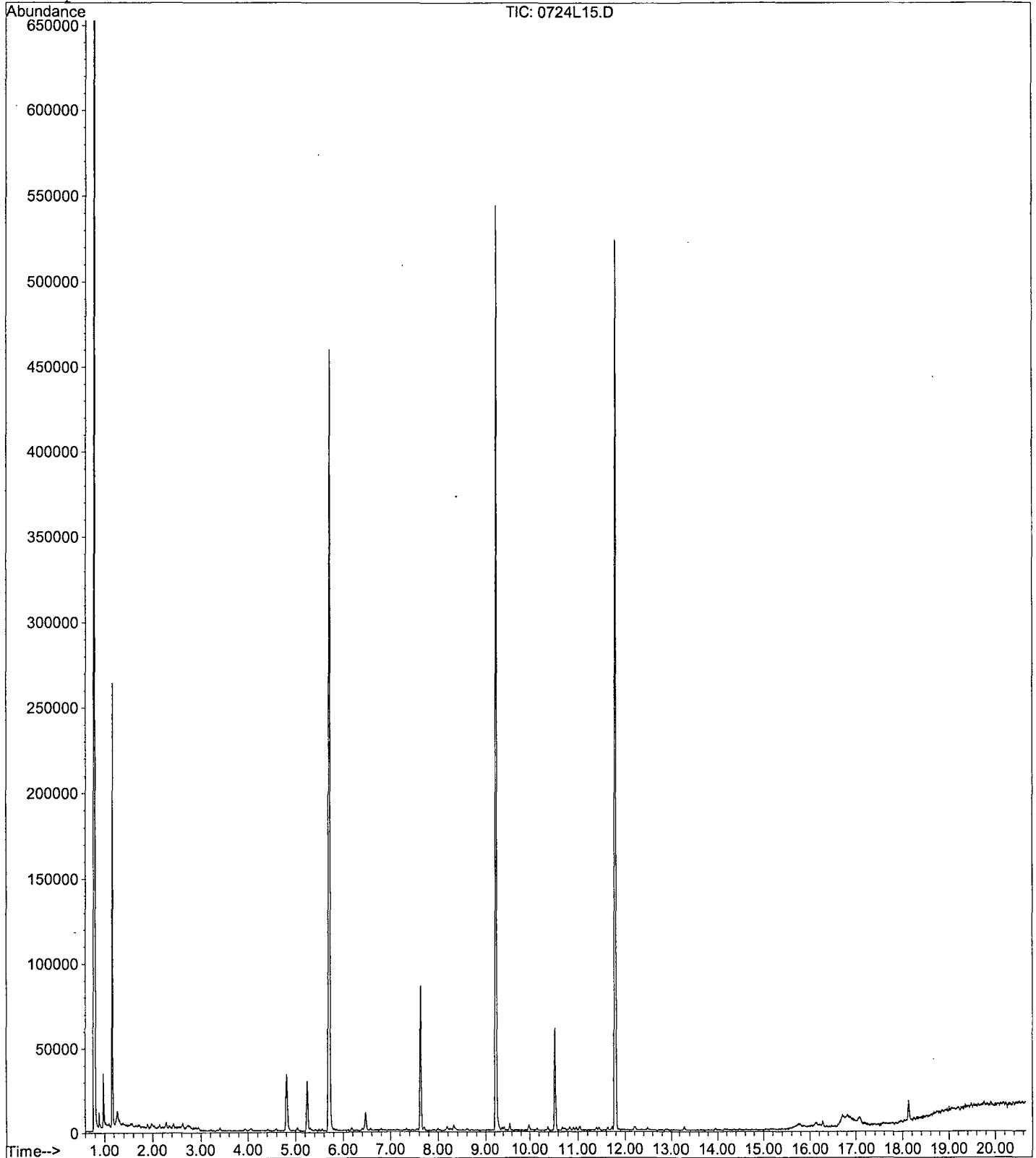
Data File : M:\LOKI\DATA\190724\0724L15.D
Acq On : 24 Jul 19 15:18
Sample : 0.3ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 4
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L16.D
 Acq On : 24 Jul 19 15:47
 Sample : 0.5ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 5
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	244160	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	220672	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	107432	25.0000	ppb	0.00

System Monitoring Compounds

39) Dibromofluoromethane(S)	4.81	111	22968	5.3109	ppb	0.00
Spiked Amount	25.000		Recovery	=	21.244%	
44) 1,2-DCA-D4(S)	5.24	65	22625	5.0953	ppb	0.00
Spiked Amount	25.000		Recovery	=	20.380%	
65) Toluene-D8(S)	7.63	98	63183	4.7124	ppb	0.00
Spiked Amount	25.000		Recovery	=	18.848%	
73) 4-Bromofluorobenzene(S)	10.54	95	20244	4.3669	ppb	0.00
Spiked Amount	25.000		Recovery	=	17.468%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chlorotrifluoroethene	0.89	116	3974	5.1238	ppb	99
3) Dichlorodifluoromethane	0.91	87	361	-0.2766	ppb #	60
4) Freon 114	0.99	85	919	0.5282	ppb	99
5) Chloromethane	1.02	50	1563	-0.8096	ppb #	87
6) Vinyl chloride	1.09	62	1217	0.5809	ppb	94
7) 2-Chloro-1,1,1-trifluoroet	1.17	118	137645	5.0440	ppb	99
8) Bromomethane	1.30	94	835	0.4500	ppb #	70
9) Chloroethane	1.39	64	1073	-1.1846	ppb #	77
10) Dichlorofluoromethane	1.54	67	1851	0.5259	ppb	98
11) Trichlorofluoromethane	1.57	103	1121	0.4875	ppb	86
13) Acrolein	1.90	56	3354	26.7188	ppb	89
14) Acetone	2.03	43	1988	-1.1379	ppb #	81
15) Freon-113	2.00	101	1019	0.5118	ppb	81
16) 1,1-DCE	1.98	96	1060	0.5457	ppb #	71
17) t-Butanol	2.62	59	5529	21.3344	ppb	94
18) 2-Propanol	2.19	45	982	5.2535	ppb	89
19) Acetonitrile	2.28	41	7141	26.4708	ppb #	87
20) Methyl Acetate	2.35	43	1104	-0.8873	ppb #	62
21) Iodomethane	2.09	142	215	1.9586	ppb #	42
22) Acrylonitrile	2.69	53	407	0.4578	ppb #	76
23) Methylene chloride	2.43	84	1196	0.5185	ppb #	71
24) Carbon disulfide	2.15	76	3088	0.5614	ppb #	89
25) Methyl t-butyl ether (MtBE)	2.75	73	3057	0.5323	ppb #	80
26) Trans-1,2-DCE	2.72	96	968	0.4493	ppb #	62
27) Diisopropyl Ether	3.40	45	2211	0.4955	ppb #	85
29) 1,1-DCA	3.22	63	1975	0.5623	ppb	88
30) Vinyl Acetate	3.40	45	2211	0.4955	ppb #	85
31) Ethyl tert Butyl Ether	3.93	59	1639	0.4120	ppb #	77
32) MEK (2-Butanone)	4.15	43	165	0.5244	ppb #	44
33) Cis-1,2-DCE	4.08	96	1332	0.5787	ppb #	76
34) 2,2-Dichloropropane	4.04	77	1245	0.4792	ppb #	76
37) Chloroform	4.58	83	2003	0.5303	ppb	90
38) Bromochloromethane	4.41	128	561	0.4310	ppb #	48
40) 1,1,1-TCA	4.79	97	1557	0.4922	ppb	98
41) Cyclohexane	4.86	41	428	0.3767	ppb #	52
42) 1,1-Dichloropropene	5.03	75	1095	0.5169	ppb #	80
43) 2,2,4-Trimethylpentane	5.49	57	1822	0.5156	ppb #	79
45) Carbon Tetrachloride	5.02	117	1494	0.4925	ppb	79
46) Tert Amyl Methyl Ether	5.55	73	2013	0.4864	ppb #	80

Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\190724\0724L16.D
 Acq On : 24 Jul 19 15:47
 Sample : 0.5ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 5
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) 1,2-DCA	5.35	62	1314	0.4670	ppb	# 72
49) Benzene	5.31	78	3330	0.4723	ppb	# 90
50) TCE	6.17	130	1192	0.5024	ppb	# 80
51) 2-Pentanone	6.47	43	25917	23.1006	ppb	100
52) 1,2-Dichloropropane	6.44	63	1011	0.5381	ppb	# 83
53) Bromodichloromethane	6.80	83	1303	0.4497	ppb	# 81
54) Methyl Cyclohexane	6.40	83	823	0.3940	ppb	80
55) Dibromomethane	6.56	93	549	0.3867	ppb	77
57) MIBK (methyl isobutyl ket	7.55	43	849	0.5805	ppb	# 70
58) 1-Bromo-2-chloroethane	7.14	63	1393	0.5221	ppb	# 65
59) Cis-1,3-Dichloropropene	7.34	75	1339	0.4829	ppb	89
60) Toluene	7.71	91	3482	0.4559	ppb	99
61) Trans-1,3-Dichloropropene	7.99	75	1283	0.5261	ppb	# 78
62) 1,1,2-TCA	8.18	83	958	0.5717	ppb	86
63) 2-Hexanone	8.51	43	350	0.4044	ppb	# 29
66) 1,2-EDB	8.70	107	827	0.4078	ppb	# 79
67) Tetrachloroethene	8.32	166	1549	0.5150	ppb	# 86
68) 1-Chlorohexane	9.29	91	845	0.4426	ppb	# 83
69) 1,1,1,2-Tetrachloroethane	9.37	131	1347	0.5175	ppb	81
70) m&p-Xylene	9.54	91	5225	0.8961	ppb	94
71) o-Xylene	9.98	106	805	1.2756	ppb	83
72) Styrene	9.98	104	1750	1.6452	ppb	83
74) 1,3-Dichloropropane	8.36	76	1500	0.4760	ppb	93
75) Dibromochloromethane	8.60	129	1061	0.4052	ppb	81
76) Chlorobenzene	9.27	112	2899	0.5099	ppb	98
77) Ethylbenzene	9.42	91	3340	0.4399	ppb	84
78) Bromoform	10.17	173	1076	0.4998	ppb	93
80) Isopropylbenzene	10.39	105	1401	0.4165	ppb	# 36
81) 1,1,2,2-Tetrachloroethane	10.72	83	1201	0.5371	ppb	# 68
82) 1,2,3-Trichloropropene	10.75	110	359	0.4562	ppb	79
83) t-1,4-Dichloro-2-Butene	10.77	53	19	0.8744	ppb	# 30
84) Bromobenzene	10.68	156	1282	0.5677	ppb	73
85) n-Propylbenzene	10.84	91	3161	0.4754	ppb	88
86) 4-Ethyltoluene	10.96	105	2816	0.4746	ppb	96
87) 2-Chlorotoluene	10.90	91	1154	0.4564	ppb	95
88) 1,3,5-Trimethylbenzene	11.04	105	2527	0.4799	ppb	# 76
89) 4-Chlorotoluene	11.03	126	512	0.5064	ppb	# 51
90) Tert-Butylbenzene	11.39	119	1970	1.0340	ppb	# 74
91) 1,2,4-Trimethylbenzene	11.44	105	2247	0.4529	ppb	85
92) Sec-Butylbenzene	11.63	105	2443	0.4060	ppb	98
93) p-Isopropyltoluene	11.79	119	2249	0.4057	ppb	# 68
94) Benzyl Chloride	11.97	91	1069	1.1575	ppb	# 79
95) 1,3-DCB	11.72	146	1734	0.4479	ppb	# 78
96) 1,4-DCB	11.81	146	2053	0.4872	ppb	98
97) n-Butylbenzene	12.23	91	1736	0.4249	ppb	95
98) 1,2-DCB	12.20	146	2074	0.5296	ppb	93
99) Hexachloroethane	12.49	201	824	0.6122	ppb	# 73
100) 1,2-Dibromo-3-chloropropan	13.03	75	155	-0.8326	ppb	# 1
101) 1,2,4-Trichlorobenzene	13.96	180	749	1.1349	ppb	# 21
102) Hexachlorobutadiene	14.17	223	550	0.5043	ppb	# 67
103) Naphthalene	14.21	128	1678	2.2989	ppb	# 67
104) 1,2,3-Trichlorobenzene	14.47	180	828	0.3704	ppb	# 61

Quantitation Report

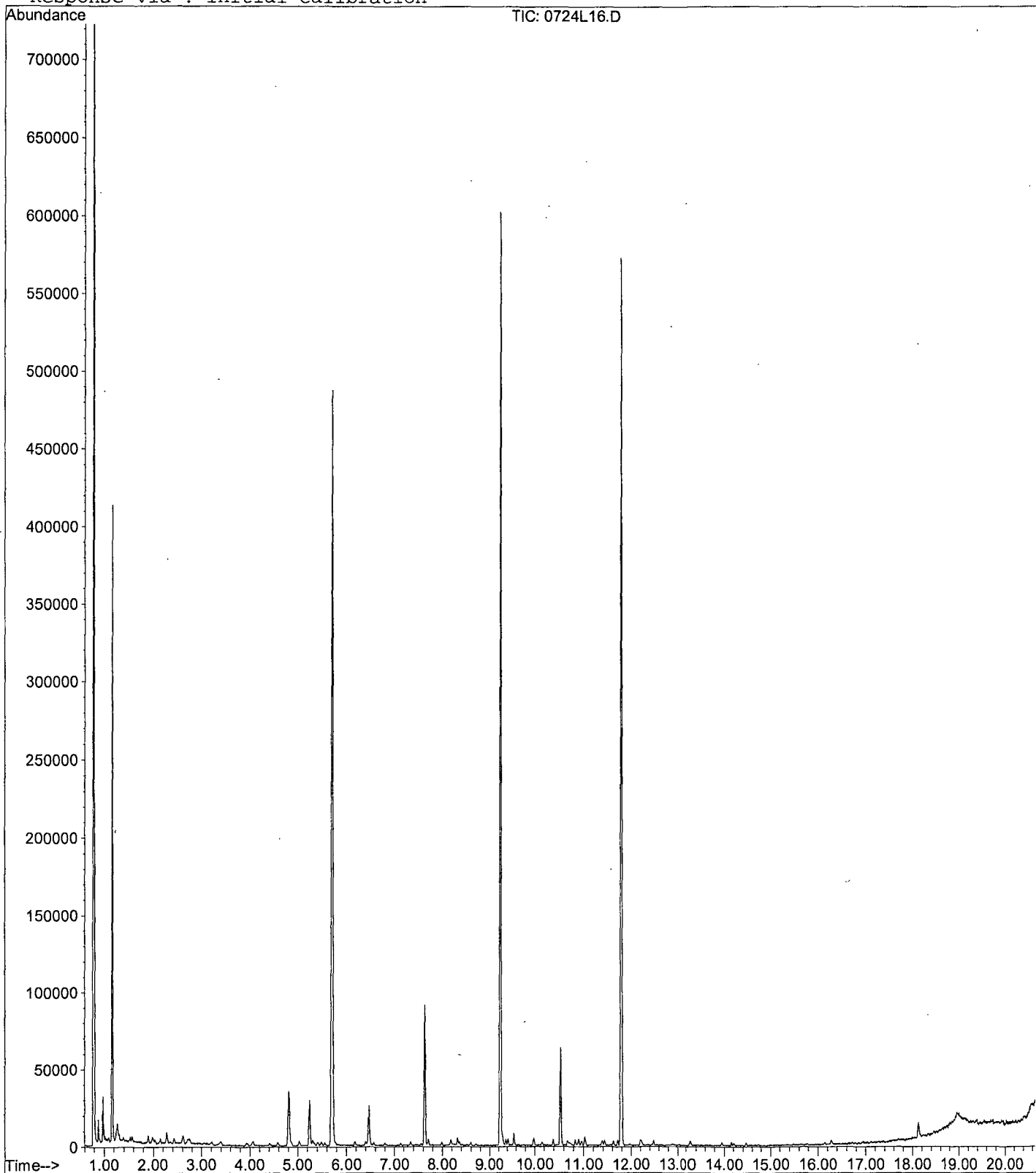
Data File : M:\LOKI\DATA\190724\0724L16.D
Acq On : 24 Jul 19 15:47
Sample : 0.5ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 5
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L17.D
 Acq On : 24 Jul 19 16:16
 Sample : 1.0ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 6
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTÉ Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	236160	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	213952	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	109896	25.0000	ppb	0.00

System Monitoring Compounds

39) Dibromofluoromethane(S)	4.81	111	39231	9.3787	ppb	0.00
Spiked Amount	25.000		Recovery	=	37.516%	
44) 1,2-DCA-D4(S)	5.25	65	40780	9.4950	ppb	0.00
Spiked Amount	25.000		Recovery	=	37.980%	
65) Toluene-D8(S)	7.63	98	110803	8.5237	ppb	0.00
Spiked Amount	25.000		Recovery	=	34.096%	
73) 4-Bromofluorobenzene(S)	10.54	95	36883	8.2061	ppb	0.00
Spiked Amount	25.000		Recovery	=	32.824%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chlorotrifluoroethene	0.89	116	6882	9.1738	ppb	96
3) Dichlorodifluoromethane	0.91	87	611	0.2221	ppb	79
4) Freon 114	0.99	85	1681	0.9990	ppb	89
5) Chloromethane	1.02	50	2450	-0.1835	ppb	# 82
6) Vinyl chloride	1.09	62	2274	1.1222	ppb	100
7) 2-Chloro-1,1,1-trifluoroet	1.17	118	259654	9.8374	ppb	99
8) Bromomethane	1.30	94	1594	1.1267	ppb	# 73
9) Chloroethane	1.38	64	1432	-0.7790	ppb	97
10) Dichlorofluoromethane	1.54	67	3216	0.9447	ppb	100
11) Trichlorofluoromethane	1.57	103	2572	1.1564	ppb	91
13) Acrolein	1.90	56	5555	45.7516	ppb	100
14) Acetone	2.03	43	2078	-0.8589	ppb	# 61
15) Freon-113	2.00	101	1821	0.9457	ppb	# 79
16) 1,1-DCE	1.98	96	2129	1.1332	ppb	# 83
17) t-Butanol	2.62	59	10447	48.8438	ppb	99
18) 2-Propanol	2.21	45	1682	11.3456	ppb	# 42
19) Acetonitrile	2.28	41	13823	52.9758	ppb	# 83
20) Methyl Acetate	2.36	43	2412	0.0722	ppb	91
21) Iodomethane	2.09	142	272	2.0259	ppb	# 79
22) Acrylonitrile	2.69	53	1021	1.1874	ppb	# 63
23) Methylene chloride	2.43	84	2538	1.1375	ppb	92
24) Carbon disulfide	2.14	76	5782	1.0868	ppb	# 91
25) Methyl t-butyl ether (MtBE)	2.75	73	5590	1.0064	ppb	# 90
26) Trans-1,2-DCE	2.72	96	2249	1.0793	ppb	91
27) Diisopropyl Ether	3.39	45	3968	0.9194	ppb	# 71
29) 1,1-DCA	3.22	63	3290	0.9684	ppb	99
30) Vinyl Acetate	3.39	45	3968	0.9194	ppb	# 71
31) Ethyl tert Butyl Ether	3.94	59	3600	0.9357	ppb	# 80
32) MEK (2-Butanone)	4.16	43	359	1.1797	ppb	87
33) Cis-1,2-DCE	4.07	96	2505	1.1252	ppb	78
34) 2,2-Dichloropropane	4.05	77	3091	1.2301	ppb	95
37) Chloroform	4.58	83	3363	0.9206	ppb	98
38) Bromochloromethane	4.42	128	1324	1.0516	ppb	71
40) 1,1,1-TCA	4.79	97	3092	1.0105	ppb	100
41) Cyclohexane	4.87	41	1352	1.2301	ppb	# 33
42) 1,1-Dichloropropene	5.04	75	2005	0.9785	ppb	95
43) 2,2,4-Trimethylpentane	5.49	57	3326	0.9731	ppb	# 84
45) Carbon Tetrachloride	5.03	117	2541	0.8661	ppb	85
46) Tert Amyl Methyl Ether	5.56	73	3711	0.9271	ppb	# 97

Data File : M:\LOKI\DATA\190724\0724L17.D
 Acq On : 24 Jul 19 16:16
 Sample : 1.0ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 6
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) 1,2-DCA	5.35	62	2692	0.9891	ppb	# 72
49) Benzene	5.31	78	6836	1.0024	ppb	94
50) TCE	6.18	130	2175	0.9477	ppb	# 77
51) 2-Pentanone	6.47	43	51448	47.4107	ppb	100
52) 1,2-Dichloropropane	6.44	63	2013	1.1077	ppb	# 82
53) Bromodichloromethane	6.81	83	2821	1.0065	ppb	# 72
54) Methyl Cyclohexane	6.41	83	1873	0.9271	ppb	# 68
55) Dibromomethane	6.57	93	1272	0.9262	ppb	96
57) MIBK (methyl isobutyl ket	7.56	43	1332	0.9416	ppb	# 82
58) 1-Bromo-2-chloroethane	7.13	63	2393	0.9272	ppb	100
59) Cis-1,3-Dichloropropene	7.34	75	2897	1.0801	ppb	95
60) Toluene	7.71	91	6848	0.9270	ppb	99
61) Trans-1,3-Dichloropropene	7.99	75	1978	0.8385	ppb	# 76
62) 1,1,2-TCA	8.18	83	1639	1.0113	ppb	96
63) 2-Hexanone	8.52	43	761	0.9090	ppb	# 56
66) 1,2-EDB	8.70	107	1916	0.9744	ppb	# 66
67) Tetrachloroethene	8.31	166	3058	1.0486	ppb	89
68) 1-Chlorohexane	9.29	91	1658	0.8957	ppb	86
69) 1,1,1,2-Tetrachloroethane	9.37	131	2486	0.9851	ppb	88
70) m&p-Xylene	9.54	91	8905	1.5753	ppb	99
71) o-Xylene	9.97	106	2382	1.7537	ppb	69
72) Styrene	9.99	104	3423	1.9289	ppb	87
74) 1,3-Dichloropropane	8.36	76	2974	0.9733	ppb	89
75) Dibromochloromethane	8.60	129	2429	0.9568	ppb	# 70
76) Chlorobenzene	9.26	112	5269	0.9559	ppb	81
77) Ethylbenzene	9.41	91	6247	0.8486	ppb	90
78) Bromoform	10.16	173	2031	0.9731	ppb	95
80) Isopropylbenzene	10.39	105	3244	0.9427	ppb	100
81) 1,1,2,2-Tetrachloroethane	10.72	83	2604	1.1385	ppb	89
82) 1,2,3-Trichloropropane	10.75	110	925	1.1492	ppb	81
83) t-1,4-Dichloro-2-Butene	10.78	53	64	1.0076	ppb	# 1
84) Bromobenzene	10.68	156	2197	0.9511	ppb	100
85) n-Propylbenzene	10.84	91	5946	0.8742	ppb	95
86) 4-Ethyltoluene	10.97	105	5431	0.8948	ppb	96
87) 2-Chlorotoluene	10.90	91	2412	0.9326	ppb	93
88) 1,3,5-Trimethylbenzene	11.04	105	4153	0.7710	ppb	92
89) 4-Chlorotoluene	11.03	126	914	0.8837	ppb	80
90) Tert-Butylbenzene	11.38	119	3882	1.3764	ppb	96
91) 1,2,4-Trimethylbenzene	11.44	105	4354	0.8579	ppb	88
92) Sec-Butylbenzene	11.62	105	5297	0.8605	ppb	# 84
93) p-Isopropyltoluene	11.79	119	4797	0.8460	ppb	94
94) Benzyl Chloride	11.96	91	1909	1.6861	ppb	# 90
95) 1,3-DCB	11.71	146	3951	0.9978	ppb	95
96) 1,4-DCB	11.81	146	4473	1.0376	ppb	85
97) n-Butylbenzene	12.23	91	3627	0.8678	ppb	94
98) 1,2-DCB	12.21	146	3853	0.9617	ppb	96
99) Hexachloroethane	12.49	201	1395	1.0131	ppb	96
100) 1,2-Dibromo-3-chloropropan	13.05	75	544	0.2560	ppb	# 73
101) 1,2,4-Trichlorobenzene	13.95	180	1871	1.5564	ppb	# 64
102) Hexachlorobutadiene	14.16	223	534	0.4459	ppb	92
103) Naphthalene	14.21	128	3523	2.6262	ppb	100
104) 1,2,3-Trichlorobenzene	14.48	180	2098	0.9176	ppb	# 67

Quantitation Report

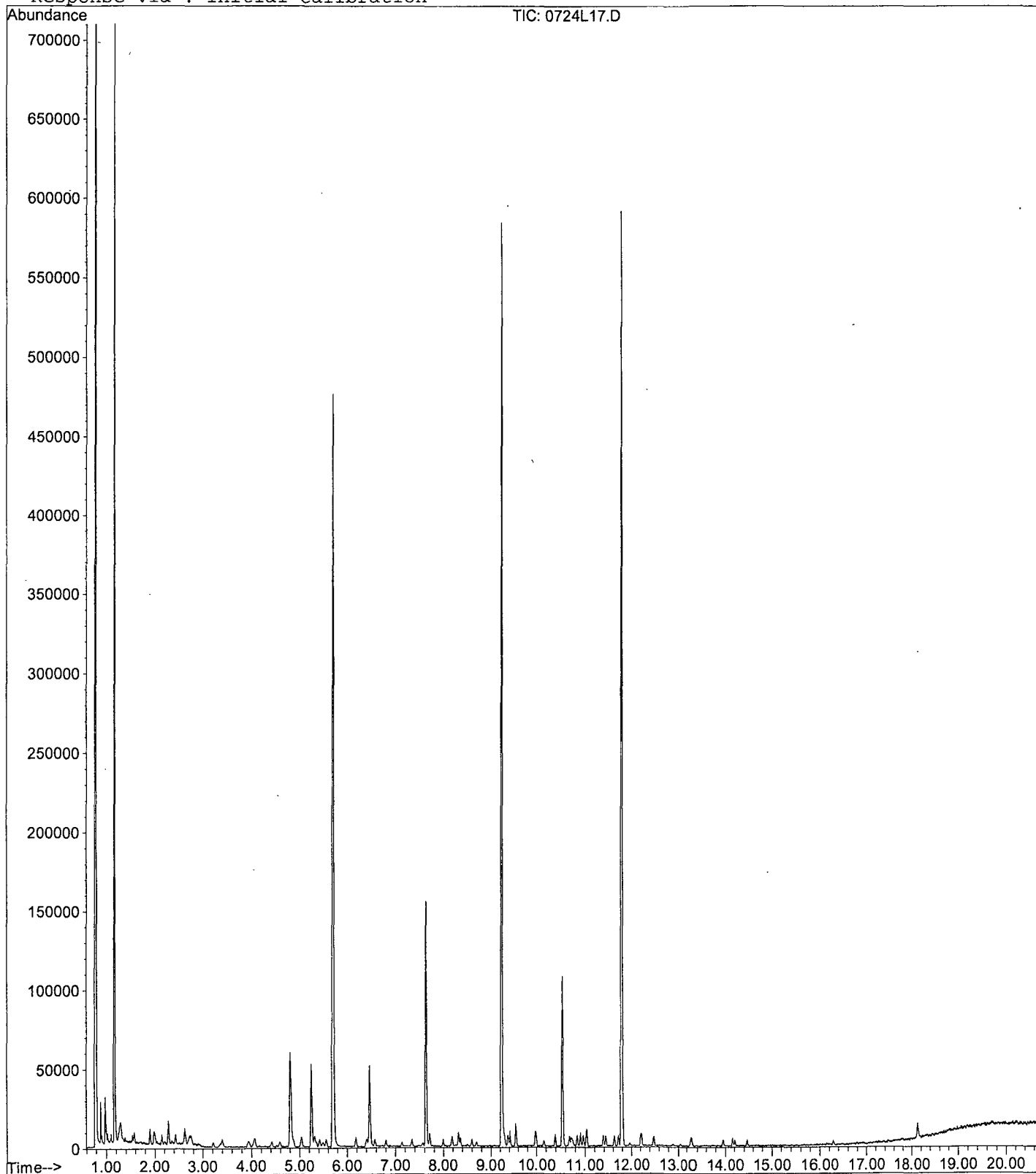
Data File : M:\LOKI\DATA\190724\0724L17.D
Acq On : 24 Jul 19 16:16
Sample : 1.0ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 6
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L18.D
 Acq On : 24 Jul 19 16:45
 Sample : 2.0ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 7
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	228736	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	203328	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	106872	25.0000	ppb	0.00

System Monitoring Compounds

39) Dibromofluoromethane(S)	4.81	111	40260	9.9371	ppb	0.00
Spiked Amount	25.000		Recovery	=	39.748%	
44) 1,2-DCA-D4(S)	5.25	65	40410	9.7142	ppb	0.00
Spiked Amount	25.000		Recovery	=	38.856%	
65) Toluene-D8(S)	7.63	98	112797	9.1305	ppb	0.00
Spiked Amount	25.000		Recovery	=	36.520%	
73) 4-Bromofluorobenzene(S)	10.53	95	36090	8.4492	ppb	0.00
Spiked Amount	25.000		Recovery	=	33.796%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chlorotrifluoroethene	0.89	116	13680	18.8275	ppb	99
3) Dichlorodifluoromethane	0.91	87	1617	2.2381	ppb	70
4) Freon 114	0.99	85	3384	2.0763	ppb	89
5) Chloromethane	1.02	50	4387	1.2042	ppb	98
6) Vinyl chloride	1.09	62	3986	2.0309	ppb	97
7) 2-Chloro-1,1,1-trifluoroet	1.17	118	508664	19.8970	ppb	99
8) Bromomethane	1.30	94	2550	2.0206	ppb	90
9) Chloroethane	1.38	64	3054	0.9918	ppb	97
10) Dichlorofluoromethane	1.54	67	6687	2.0281	ppb	90
11) Trichlorofluoromethane	1.57	103	4309	2.0002	ppb	96
13) Acrolein	1.90	56	7728	65.7145	ppb	# 68
14) Acetone	2.04	43	2878	0.7477	ppb	# 84
15) Freon-113	1.99	101	4002	2.1458	ppb	83
16) 1,1-DCE	1.98	96	3786	2.0805	ppb	96
17) t-Butanol	2.62	59	15885	80.9627	ppb	95
18) 2-Propanol	2.20	45	2741	20.8973	ppb	# 78
19) Acetonitrile	2.28	41	19464	77.0157	ppb	97
20) Methyl Acetate	2.36	43	3875	1.2064	ppb	92
21) Iodomethane	2.09	142	762	2.5647	ppb	# 68
22) Acrylonitrile	2.69	53	1718	2.0629	ppb	96
23) Methylene chloride	2.43	84	4489	2.0772	ppb	87
24) Carbon disulfide	2.14	76	10541	2.0456	ppb	99
25) Methyl t-butyl ether (MtBE)	2.75	73	10483	1.9485	ppb	# 91
26) Trans-1,2-DCE	2.72	96	4369	2.1648	ppb	85
27) Diisopropyl Ether	3.40	45	7998	1.9133	ppb	94
29) 1,1-DCA	3.21	63	6601	2.0061	ppb	96
30) Vinyl Acetate	3.40	45	7998	1.9133	ppb	94
31) Ethyl tert Butyl Ether	3.94	59	7410	1.9885	ppb	92
32) MEK (2-Butanone)	4.17	43	544	1.8457	ppb	87
33) Cis-1,2-DCE	4.07	96	4341	2.0132	ppb	85
34) 2,2-Dichloropropane	4.05	77	4611	1.8946	ppb	# 88
37) Chloroform	4.59	83	7477	2.1131	ppb	89
38) Bromochloromethane	4.42	128	2764	2.2666	ppb	98
40) 1,1,1-TCA	4.79	97	5907	1.9932	ppb	95
41) Cyclohexane	4.87	41	2167	2.0356	ppb	72
42) 1,1-Dichloropropene	5.04	75	3468	1.7473	ppb	91
43) 2,2,4-Trimethylpentane	5.49	57	5876	1.7749	ppb	# 57
45) Carbon Tetrachloride	5.03	117	5851	2.0589	ppb	87
46) Tert Amyl Methyl Ether	5.56	73	7142	1.8422	ppb	# 89

Data File : M:\LOKI\DATA\190724\0724L18.D
 Acq On : 24 Jul 19 16:45
 Sample : 2.0ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 7
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) 1,2-DCA	5.35	62	5698	2.1614	ppb	92
49) Benzene	5.31	78	12922	1.9563	ppb #	91
50) TCE	6.18	130	4164	1.8733	ppb #	90
51) 2-Pentanone	6.47	43	81444	77.4887	ppb	99
52) 1,2-Dichloropropane	6.44	63	3372	1.9157	ppb #	83
53) Bromodichloromethane	6.80	83	5567	2.0508	ppb	94
54) Methyl Cyclohexane	6.40	83	3641	1.8608	ppb	88
55) Dibromomethane	6.57	93	3026	2.2749	ppb	88
56) 2-Chloroethyl vinyl ether	7.22	63	88	5.5943	ppb #	48
57) MIBK (methyl isobutyl ket	7.56	43	2694	1.9662	ppb #	91
58) 1-Bromo-2-chloroethane	7.13	63	5182	2.0731	ppb	95
59) Cis-1,3-Dichloropropene	7.34	75	5164	1.9878	ppb #	83
60) Toluene	7.71	91	12649	1.7678	ppb	98
61) Trans-1,3-Dichloropropene	7.99	75	3913	1.7126	ppb	89
62) 1,1,2-TCA	8.18	83	3113	1.9831	ppb	92
63) 2-Hexanone	8.51	43	1592	1.9633	ppb #	89
66) 1,2-EDB	8.70	107	3757	2.0104	ppb #	94
67) Tetrachloroethene	8.32	166	5098	1.8395	ppb #	82
68) 1-Chlorohexane	9.29	91	2830	1.6087	ppb	94
69) 1,1,1,2-Tetrachloroethane	9.37	131	5077	2.1169	ppb	98
70) m&p-Xylene	9.55	91	17942	3.3397	ppb	96
71) o-Xylene	9.98	106	4399	2.4245	ppb	96
72) Styrene	9.99	104	7319	2.6318	ppb	93
74) 1,3-Dichloropropane	8.36	76	6012	2.0704	ppb	88
75) Dibromochloromethane	8.60	129	5132	2.1272	ppb	81
76) Chlorobenzene	9.26	112	9786	1.8681	ppb	98
77) Ethylbenzene	9.41	91	12377	1.7691	ppb	90
78) Bromoform	10.16	173	3889	1.9607	ppb	98
80) Isopropylbenzene	10.39	105	6467	1.9324	ppb	97
81) 1,1,2,2-Tetrachloroethane	10.72	83	4810	2.1624	ppb	86
82) 1,2,3-Trichloropropane	10.74	110	1826	2.3327	ppb	85
83) t-1,4-Dichloro-2-Butene	10.78	53	555	2.5221	ppb	98
84) Bromobenzene	10.68	156	4527	2.0153	ppb	96
85) n-Propylbenzene	10.84	91	12195	1.8438	ppb	100
86) 4-Ethyltoluene	10.97	105	10126	1.7156	ppb	95
87) 2-Chlorotoluene	10.90	91	4492	1.7860	ppb	85
88) 1,3,5-Trimethylbenzene	11.04	105	9056	1.7288	ppb	95
89) 4-Chlorotoluene	11.02	126	2087	2.0749	ppb #	58
90) Tert-Butylbenzene	11.39	119	7882	2.1511	ppb	83
91) 1,2,4-Trimethylbenzene	11.44	105	8151	1.6515	ppb	91
92) Sec-Butylbenzene	11.62	105	10471	1.7491	ppb	95
93) p-Isopropyltoluene	11.79	119	9822	1.7813	ppb	94
94) Benzyl Chloride	11.96	91	3375	2.6983	ppb #	96
95) 1,3-DCB	11.72	146	7318	1.9004	ppb	92
96) 1,4-DCB	11.81	146	8539	2.0369	ppb	97
97) n-Butylbenzene	12.23	91	7088	1.7438	ppb	96
98) 1,2-DCB	12.20	146	7640	1.9610	ppb #	93
99) Hexachloroethane	12.49	201	2979	2.2247	ppb #	74
100) 1,2-Dibromo-3-chloropropan	13.04	75	939	1.4466	ppb #	68
101) 1,2,4-Trichlorobenzene	13.95	180	4168	2.4775	ppb	98
102) Hexachlorobutadiene	14.16	223	1005	1.4649	ppb #	74
103) Naphthalene	14.21	128	6993	3.2908	ppb	98
104) 1,2,3-Trichlorobenzene	14.47	180	4115	1.8507	ppb	86

(#) = qualifier out of range (m) = manual integration
 0724L18.D L0724W.M Thu Jul 25 10:21 2019 Page 369 of 369

Quantitation Report

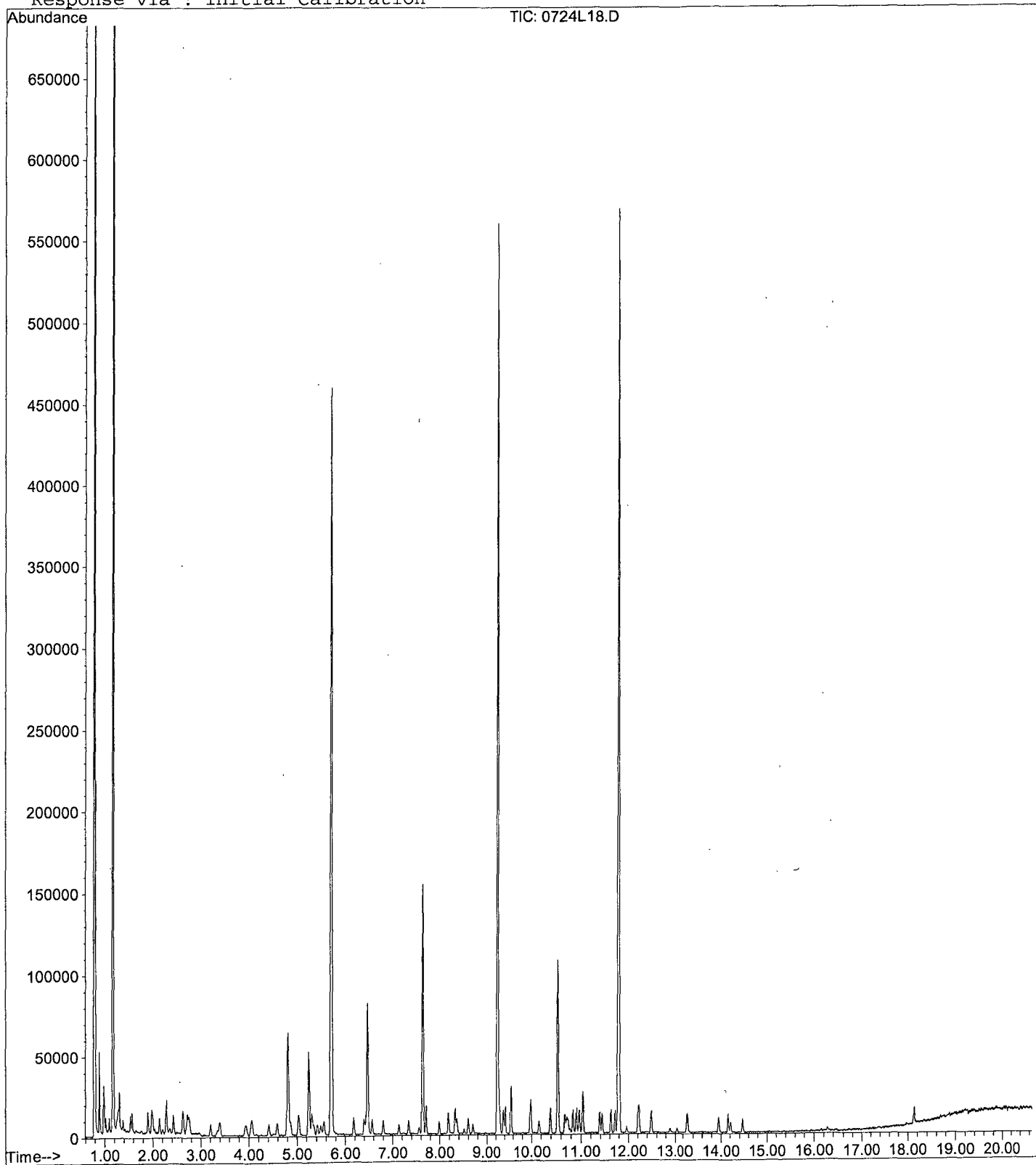
Data File : M:\LOKI\DATA\190724\0724L18.D
Acq On : 24 Jul 19 16:45
Sample : 2.0ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 7
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L19.D
 Acq On : 24 Jul 19 17:14
 Sample : 5.0ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 8
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.71	96	226368	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	203008	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	112968	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
39) Dibromofluoromethane (S)	4.81	111	106359	26.5264	ppb	0.00
Spiked Amount				25.000		
						Recovery = 106.104%
44) 1,2-DCA-D4 (S)	5.24	65	108946	26.4636	ppb	0.00
Spiked Amount				25.000		
						Recovery = 105.856%
65) Toluene-D8 (S)	7.63	98	323314	26.2123	ppb	0.00
Spiked Amount				25.000		
						Recovery = 104.848%
73) 4-Bromofluorobenzene (S)	10.54	95	109955	25.7826	ppb	0.00
Spiked Amount				25.000		
						Recovery = 103.132%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chlorotrifluoroethene	0.89	116	28721	39.9417	ppb	93
3) Dichlorodifluoromethane	0.91	87	2591	4.2068	ppb	92
4) Freon 114	0.99	85	8616	5.3418	ppb	99
5) Chloromethane	1.02	50	9286	4.6468	ppb	92
6) Vinyl chloride	1.10	62	8920	4.5923	ppb	89
7) 2-Chloro-1,1,1-trifluoroet	1.17	118	1031035	40.7520	ppb	99
8) Bromomethane	1.30	94	5404	4.6066	ppb	92
9) Chloroethane	1.38	64	6127	4.3243	ppb	99
10) Dichlorofluoromethane	1.54	67	18181	5.5717	ppb	99
11) Trichlorofluoromethane	1.57	103	10433	4.8936	ppb	100
13) Acrolein	1.90	56	13036	112.0103	ppb	92
14) Acetone	2.04	43	5291	5.3306	ppb	94
15) Freon-113	2.00	101	10529	5.7045	ppb	93
16) 1,1-DCE	1.98	96	9151	5.0814	ppb	97
17) t-Butanol	2.62	59	20382	107.1986	ppb	97
18) 2-Propanol	2.20	45	4859	39.5288	ppb	97
19) Acetonitrile	2.28	41	25225	100.8551	ppb	97
20) Methyl Acetate	2.35	43	9570	5.4775	ppb	96
21) Iodomethane	2.09	142	2358	4.2846	ppb	# 75
22) Acrylonitrile	2.69	53	4240	5.1445	ppb	# 81
23) Methylene chloride	2.43	84	11915	5.5711	ppb	93
24) Carbon disulfide	2.14	76	27801	5.4515	ppb	96
25) Methyl t-butyl ether (MtBE)	2.75	73	28490	5.3509	ppb	97
26) Trans-1,2-DCE	2.72	96	10707	5.3608	ppb	97
27) Diisopropyl Ether	3.39	45	23272	5.6253	ppb	97
29) 1,1-DCA	3.21	63	18525	5.6888	ppb	97
30) Vinyl Acetate	3.39	45	23272	5.6253	ppb	97
31) Ethyl tert Butyl Ether	3.93	59	19243	5.2178	ppb	95
32) MEK (2-Butanone)	4.16	43	1616	5.5401	ppb	84
33) Cis-1,2-DCE	4.07	96	10593	4.9640	ppb	86
34) 2,2-Dichloropropane	4.05	77	13560	5.6299	ppb	# 89
37) Chloroform	4.59	83	19404	5.5412	ppb	100
38) Bromochloromethane	4.42	128	6964	5.7704	ppb	93
40) 1,1,1-TCA	4.80	97	15892	5.4184	ppb	99
41) Cyclohexane	4.86	41	5192	4.9282	ppb	97
42) 1,1-Dichloropropene	5.04	75	10111	5.1477	ppb	94
43) 2,2,4-Trimethylpentane	5.48	57	15766	4.8121	ppb	# 68
45) Carbon Tetrachloride	5.02	117	16243	5.7756	ppb	96
46) Tert Amyl Methyl Ether	5.55	73	18756	4.8886	ppb	99

(#) = qualifier out of range (m) = manual integration
 0724L19.D L0724W.M Thu Jul 25 10:22:20 2019

Data File : M:\LOKI\DATA\190724\0724L19.D
 Acq On : 24 Jul 19 17:14
 Sample : 5.0ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 8
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) 1,2-DCA	5.35	62	13797	5.2883	ppb	96
49) Benzene	5.31	78	34063	5.2109	ppb	97
50) TCE	6.17	130	12221	5.5556	ppb	92
51) 2-Pentanone	6.47	43	108387	104.2020	ppb	96
52) 1,2-Dichloropropane	6.44	63	8951	5.1385	ppb	97
53) Bromodichloromethane	6.80	83	14963	5.5697	ppb	93
54) Methyl Cyclohexane	6.40	83	9512	4.9121	ppb	90
55) Dibromomethane	6.57	93	7733	5.8744	ppb	97
56) 2-Chloroethyl vinyl ether	7.22	63	652	13.9004	ppb #	89
57) MIBK (methyl isobutyl ket	7.56	43	6638	4.8954	ppb	99
58) 1-Bromo-2-chloroethane	7.13	63	13056	5.2777	ppb	98
59) Cis-1,3-Dichloropropene	7.34	75	12563	4.8864	ppb	98
60) Toluene	7.71	91	38122	5.3836	ppb	100
61) Trans-1,3-Dichloropropene	7.99	75	12554	5.5521	ppb	98
62) 1,1,2-TCA	8.18	83	8537	5.4954	ppb	89
63) 2-Hexanone	8.51	43	4340	5.4082	ppb #	80
66) 1,2-EDB	8.70	107	10601	5.6817	ppb	98
67) Tetrachloroethene	8.32	166	15044	5.4369	ppb	95
68) 1-Chlorohexane	9.29	91	8712	4.9601	ppb	91
69) 1,1,1,2-Tetrachloroethane	9.37	131	13934	5.8191	ppb	100
70) m&p-Xylene	9.55	91	54502	10.1610	ppb	98
71) o-Xylene	9.97	106	13819	5.3906	ppb	97
72) Styrene	9.99	104	21593	5.1053	ppb	95
74) 1,3-Dichloropropane	8.36	76	15778	5.4422	ppb	98
75) Dibromochloromethane	8.60	129	13757	5.7111	ppb	86
76) Chlorobenzene	9.27	112	27782	5.3119	ppb	99
77) Ethylbenzene	9.41	91	34916	4.9986	ppb	93
78) Bromoform	10.16	173	11022	5.5657	ppb	98
80) Isopropylbenzene	10.39	105	18304	5.1743	ppb	94
81) 1,1,2,2-Tetrachloroethane	10.71	83	13437	5.7149	ppb	93
82) 1,2,3-Trichloropropane	10.74	110	4762	5.7552	ppb	83
83) t-1,4-Dichloro-2-Butene	10.78	53	1849	6.1926	ppb #	58
84) Bromobenzene	10.68	156	13064	5.5019	ppb	97
85) n-Propylbenzene	10.84	91	37570	5.3737	ppb	94
86) 4-Ethyltoluene	10.97	105	31202	5.0011	ppb	100
87) 2-Chlorotoluene	10.90	91	14568	5.4796	ppb	100
88) 1,3,5-Trimethylbenzene	11.04	105	29257	5.2837	ppb	97
89) 4-Chlorotoluene	11.03	126	5092	4.7893	ppb	98
90) Tert-Butylbenzene	11.38	119	28265	5.7081	ppb	90
91) 1,2,4-Trimethylbenzene	11.44	105	25452	4.8787	ppb	96
92) Sec-Butylbenzene	11.62	105	34275	5.4165	ppb	94
93) p-Isopropyltoluene	11.79	119	30163	5.1750	ppb	96
94) Benzyl Chloride	11.96	91	8051	5.5256	ppb #	93
95) 1,3-DCB	11.72	146	23138	5.6844	ppb	97
96) 1,4-DCB	11.81	146	24177	5.4559	ppb	97
97) n-Butylbenzene	12.23	91	21577	5.0219	ppb	97
98) 1,2-DCB	12.21	146	22806	5.5378	ppb	94
99) Hexachloroethane	12.48	201	7357	5.1977	ppb	92
100) 1,2-Dibromo-3-chloropropan	13.04	75	2356	5.1926	ppb	83
101) 1,2,4-Trichlorobenzene	13.95	180	12076	5.3237	ppb	95
102) Hexachlorobutadiene	14.16	223	3063	5.4359	ppb	96
103) Naphthalene	14.21	128	19037	5.3434	ppb	100
104) 1,2,3-Trichlorobenzene	14.47	180	11713	4.9836	ppb	92

(#) = qualifier out of range (m) = manual integration
 0724L19.D L0724W.M Thu Jul 25 10:22:21 2019

Quantitation Report

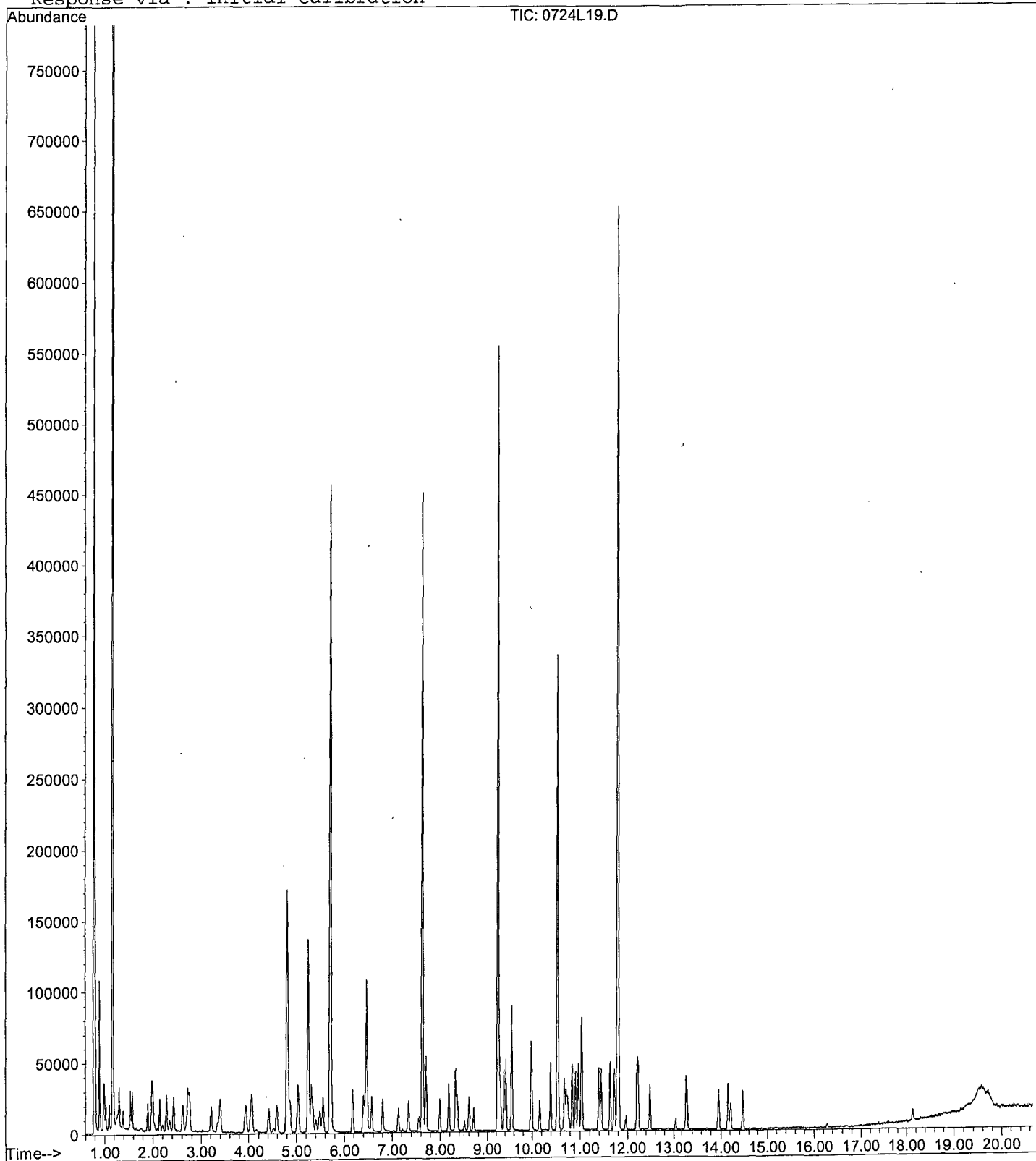
Data File : M:\LOKI\DATA\190724\0724L19.D
Acq On. : 24 Jul 19 17:14
Sample : 5.0ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 8
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L20.D
 Acq On : 24 Jul 19 17:42
 Sample : 10ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 9
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	232960	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	215616	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	119352	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Dibromofluoromethane(S)	4.81	111	106937	25.9158	ppb	0.00
Spiked Amount	25.000		Recovery	= 103.664%		
44) 1,2-DCA-D4(S)	5.25	65	108770	25.6732	ppb	0.00
Spiked Amount	25.000		Recovery	= 102.692%		
65) Toluene-D8(S)	7.63	98	340696	26.0064	ppb	0.00
Spiked Amount	25.000		Recovery	= 104.024%		
73) 4-Bromofluorobenzene(S)	10.53	95	119955	26.4827	ppb	0.00
Spiked Amount	25.000		Recovery	= 105.932%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chlorotrifluoroethene	0.89	116	80495	108.7751	ppb	100
3) Dichlorodifluoromethane	0.91	87	6494	11.5970	ppb	100
4) Freon 114	0.99	85	17181	10.3506	ppb	100
5) Chloromethane	1.02	50	19255	11.2083	ppb	100
6) Vinyl chloride	1.09	62	21167	10.5892	ppb	100
7) 2-Chloro-1,1,1-trifluoroet	1.17	118	2749996	105.6188	ppb	100
8) Bromomethane	1.30	94	12079	10.2923	ppb	100
9) Chloroethane	1.38	64	13236	11.5531	ppb	100
10) Dichlorofluoromethane	1.54	67	35635	10.6116	ppb	100
11) Trichlorofluoromethane	1.57	103	24142	11.0035	ppb	100
13) Acrolein	1.90	56	15822	132.1017	ppb	100
14) Acetone	2.04	43	8968	11.7529	ppb	100
15) Freon-113	2.00	101	19464	10.2469	ppb	100
16) 1,1-DCE	1.98	96	18217	9.8293	ppb	100
17) t-Butanol	2.62	59	23683	122.0057	ppb	100
18) 2-Propanol	2.20	45	11287	92.5542	ppb	100
19) Acetonitrile	2.28	41	32682	126.9723	ppb	100
20) Methyl Acetate	2.35	43	16310	10.1532	ppb	100
21) Iodomethane	2.09	142	6290	8.1379	ppb	100
22) Acrylonitrile	2.69	53	8776	10.3468	ppb	100
23) Methylene chloride	2.43	84	22874	10.3926	ppb	100
24) Carbon disulfide	2.14	76	52811	10.0628	ppb	100
25) Methyl t-butyl ether (MtBE)	2.75	73	55437	10.1174	ppb	100
26) Trans-1,2-DCE	2.72	96	21910	10.6594	ppb	100
27) Diisopropyl Ether	3.40	45	43924	10.3169	ppb	100
29) 1,1-DCA	3.21	63	34435	10.2754	ppb	100
30) Vinyl Acetate	3.40	45	43924	10.3169	ppb	100
31) Ethyl tert Butyl Ether	3.94	59	41172	10.8481	ppb	100
32) MEK (2-Butanone)	4.15	43	2866	9.5473	ppb	100
33) Cis-1,2-DCE	4.07	96	21488	9.7846	ppb	100
34) 2,2-Dichloropropane	4.05	77	24815	10.0113	ppb	100
37) Chloroform	4.59	83	36997	10.2663	ppb	100
38) Bromochloromethane	4.41	128	13523	10.8882	ppb	100
40) 1,1,1-TCA	4.80	97	30617	10.1436	ppb	100
41) Cyclohexane	4.86	41	10394	9.5868	ppb	100
42) 1,1-Dichloropropene	5.04	75	19846	9.8180	ppb	100
43) 2,2,4-Trimethylpentane	5.49	57	33385	9.9014	ppb	100
45) Carbon Tetrachloride	5.03	117	30001	10.3657	ppb	100
46) Tert Amyl Methyl Ether	5.55	73	39711	10.0574	ppb	100

(#) = qualifier out of range (m) = manual integration
 0724L20.D L0724W.M Thu Jul 25 10:22:24 2019

Data File : M:\LOKI\DATA\190724\0724L20.D
 Acq On : 24 Jul 19 17:42
 Sample : 10ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 9
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) 1,2-DCA	5.35	62	28393	10.5750	ppb	100
49) Benzene	5.31	78	72246	10.7394	ppb	100
50) TCE	6.18	130	24290	10.7297	ppb	100
51) 2-Pentanone	6.47	43	140735	131.4724	ppb	100
52) 1,2-Dichloropropane	6.44	63	18262	10.1870	ppb	100
53) Bromodichloromethane	6.80	83	29199	10.5612	ppb	100
54) Methyl Cyclohexane	6.40	83	20792	10.4334	ppb	100
55) Dibromomethane	6.57	93	14050	10.3711	ppb	100
56) 2-Chloroethyl vinyl ether	7.22	63	1821	30.3309	ppb	100
57) MIBK (methyl isobutyl ket	7.56	43	14898	10.6762	ppb	100
58) 1-Bromo-2-chloroethane	7.13	63	26174	10.2811	ppb	100
59) Cis-1,3-Dichloropropene	7.34	75	26527	10.0258	ppb	100
60) Toluene	7.71	91	77000	10.5662	ppb	100
61) Trans-1,3-Dichloropropene	7.99	75	24077	10.3469	ppb	100
62) 1,1,2-TCA	8.18	83	16445	10.2864	ppb	100
63) 2-Hexanone	8.51	43	8263	10.0054	ppb	100
66) 1,2-EDB	8.70	107	20012	10.0984	ppb	100
67) Tetrachloroethene	8.32	166	30750	10.4632	ppb	100
68) 1-Chlorohexane	9.29	91	18987	10.1780	ppb	100
69) 1,1,1,2-Tetrachloroethane	9.37	131	24952	9.8111	ppb	100
70) m&p-Xylene	9.55	91	117199	20.5721	ppb	100
71) o-Xylene	9.98	106	27640	9.2307	ppb	100
72) Styrene	9.99	104	47812	9.1611	ppb	100
74) 1,3-Dichloropropane	8.36	76	30734	9.9810	ppb	100
75) Dibromochloromethane	8.60	129	26787	10.4701	ppb	100
76) Chlorobenzene	9.26	112	57471	10.3458	ppb	100
77) Ethylbenzene	9.41	91	74894	10.0949	ppb	100
78) Bromoform	10.16	173	21995	10.4572	ppb	100
80) Isopropylbenzene	10.39	105	40960	10.9595	ppb	100
81) 1,1,2,2-Tetrachloroethane	10.72	83	25398	10.2242	ppb	100
82) 1,2,3-Trichloropropane	10.74	110	9189	10.5115	ppb	100
83) t-1,4-Dichloro-2-Butene	10.78	53	3406	10.1902	ppb	100
84) Bromobenzene	10.68	156	26822	10.6919	ppb	100
85) n-Propylbenzene	10.84	91	80276	10.8678	ppb	100
86) 4-Ethyltoluene	10.97	105	71030	10.7759	ppb	100
87) 2-Chlorotoluene	10.90	91	30384	10.8174	ppb	100
88) 1,3,5-Trimethylbenzene	11.04	105	65011	11.1127	ppb	100
89) 4-Chlorotoluene	11.03	126	12056	10.7327	ppb	100
90) Tert-Butylbenzene	11.38	119	53998	9.7847	ppb	100
91) 1,2,4-Trimethylbenzene	11.44	105	58761	10.6609	ppb	100
92) Sec-Butylbenzene	11.62	105	72489	10.8428	ppb	100
93) p-Isopropyltoluene	11.79	119	68711	11.1581	ppb	100
94) Benzyl Chloride	11.96	91	17534	10.9143	ppb	100
95) 1,3-DCB	11.71	146	46673	10.8529	ppb	100
96) 1,4-DCB	11.81	146	49370	10.5452	ppb	100
97) n-Butylbenzene	12.23	91	48772	10.7443	ppb	100
98) 1,2-DCB	12.20	146	45555	10.4701	ppb	100
99) Hexachloroethane	12.48	201	14709	9.8360	ppb	100
100) 1,2-Dibromo-3-chloropropan	13.04	75	4187	9.6078	ppb	100
101) 1,2,4-Trichlorobenzene	13.95	180	24696	9.5165	ppb	100
102) Hexachlorobutadiene	14.16	223	6022	10.6697	ppb	100
103) Naphthalene	14.21	128	42006	8.9959	ppb	100
104) 1,2,3-Trichlorobenzene	14.47	180	25970	10.4586	ppb	100

(#) = qualifier out of range (m) = manual integration
 0724L20.D L0724W.M Thu Jul 25 10:22:25 2019

Quantitation Report

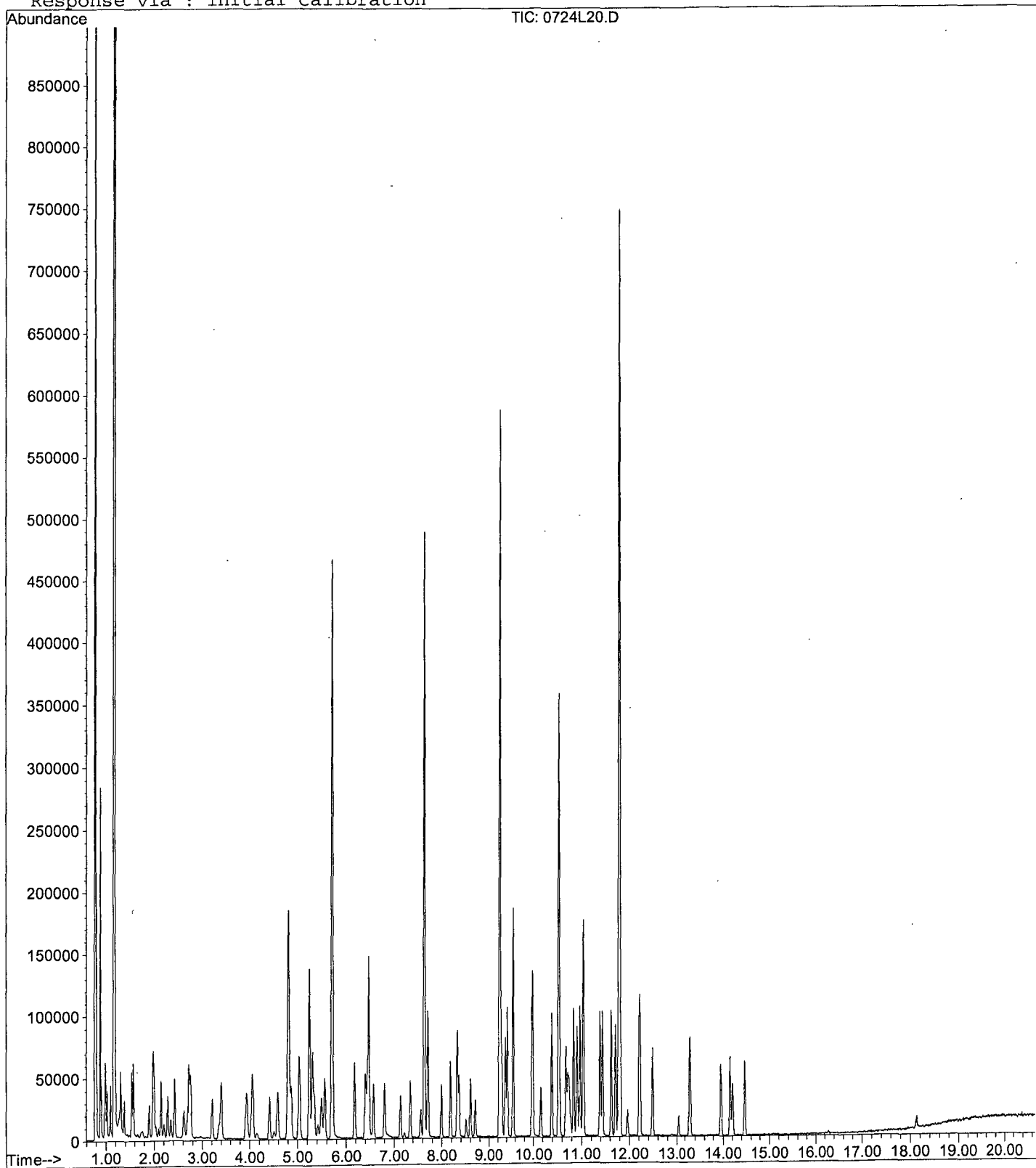
Data File : M:\LOKI\DATA\190724\0724L20.D
Acq On : 24 Jul 19 17:42
Sample : 10ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 9
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L21.D
 Acq On : 24 Jul 19 18:11
 Sample : 20ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 10
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	252480	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	227712	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	144064	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	211246	47.2367	ppb	0.00
Spiked Amount 25.000			Recovery = 188.948%			
44) 1,2-DCA-D4(S)	5.25	65	218495	47.5847	ppb	0.00
Spiked Amount 25.000			Recovery = 190.340%			
65) Toluene-D8(S)	7.63	98	720478	52.0749	ppb	0.00
Spiked Amount 25.000			Recovery = 208.300%			
73) 4-Bromofluorobenzene(S)	10.53	95	260415	54.4383	ppb	0.00
Spiked Amount 25.000			Recovery = 217.752%			
Target Compounds						
2) Chlorotrifluoroethene	0.88	116	101348	126.3660	ppb	Qvalue 98
3) Dichlorodifluoromethane	0.91	87	11743	19.9788	ppb	92
4) Freon 114	0.99	85	33827	18.8033	ppb	90
5) Chloromethane	1.02	50	36615	21.0379	ppb	96
6) Vinyl chloride	1.09	62	41562	19.1847	ppb	98
7) 2-Chloro-1,1,1-trifluoroet	1.17	118	3509766	124.3775	ppb	99
8) Bromomethane	1.30	94	20792	16.4909	ppb	95
9) Chloroethane	1.37	64	24874	21.6860	ppb	100
10) Dichlorofluoromethane	1.53	67	69815	19.1825	ppb	97
11) Trichlorofluoromethane	1.57	103	45546	19.1541	ppb	96
13) Acrolein	1.90	56	20686	159.3595	ppb	99
14) Acetone	2.04	43	16008	22.3306	ppb	# 88
15) Freon-113	1.99	101	36908	17.9281	ppb	96
16) 1,1-DCE	1.97	96	35455	17.6514	ppb	100
17) t-Butanol	2.63	59	29550	141.5979	ppb	94
18) 2-Propanol	2.22	45	15940	121.4066	ppb	96
19) Acetonitrile	2.28	41	38186	136.8860	ppb	99
20) Methyl Acetate	2.36	43	33483	20.7072	ppb	86
21) Iodomethane	2.09	142	18966	18.2381	ppb	# 93
22) Acrylonitrile	2.69	53	17709	19.2645	ppb	98
23) Methylene chloride	2.43	84	42763	17.9269	ppb	92
24) Carbon disulfide	2.14	76	103100	18.1262	ppb	97
25) Methyl t-butyl ether (MtBE)	2.75	73	110158	18.5498	ppb	99
26) Trans-1,2-DCE	2.72	96	40968	18.3904	ppb	94
27) Diisopropyl Ether	3.40	45	84755	18.3682	ppb	99
29) 1,1-DCA	3.21	63	65406	18.0082	ppb	98
30) Vinyl Acetate	3.40	45	84755	18.3682	ppb	99
31) Ethyl tert Butyl Ether	3.94	59	78325	19.0417	ppb	100
32) MEK (2-Butanone)	4.15	43	6387	19.6317	ppb	96
33) Cis-1,2-DCE	4.07	96	41225	17.3205	ppb	92
34) 2,2-Dichloropropane	4.04	77	47187	17.5651	ppb	# 88
37) Chloroform	4.59	83	73739	18.8798	ppb	95
38) Bromochloromethane	4.42	128	26439	19.6418	ppb	93
40) 1,1,1-TCA	4.80	97	61357	18.7564	ppb	97
41) Cyclohexane	4.86	41	21954	18.6835	ppb	93
42) 1,1-Dichloropropene	5.04	75	41965	19.1554	ppb	95
43) 2,2,4-Trimethylpentane	5.49	57	68762	18.8169	ppb	97
45) Carbon Tetrachloride	5.02	117	59645	19.0149	ppb	99
46) Tert Amyl Methyl Ether	5.55	73	85495	19.9789	ppb	92

(#) = qualifier out of range (m) = manual integration
 0724L21.D L0724W.M Thu Jul 25 10:22:28 2019

Data File : M:\LOKI\DATA\190724\0724L21.D
 Acq On : 24 Jul 19 18:11
 Sample : 20ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 10
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) 1,2-DCA	5.35	62	55524	19.0811	ppb	97
49) Benzene	5.31	78	138307	18.9699	ppb	99
50) TCE	6.18	130	47565	19.3866	ppb	93
51) 2-Pentanone	6.47	43	170561	147.0167	ppb	99
52) 1,2-Dichloropropane	6.44	63	35197	18.1159	ppb	100
53) Bromodichloromethane	6.80	83	56219	18.7622	ppb	99
54) Methyl Cyclohexane	6.40	83	42978	19.8990	ppb	98
55) Dibromomethane	6.57	93	28451	19.3776	ppb	92
56) 2-Chloroethyl vinyl ether	7.22	63	4391	62.1989	ppb	# 93
57) MIBK (methyl isobutyl ket	7.56	43	27201	17.9857	ppb	# 93
58) 1-Bromo-2-chloroethane	7.13	63	51443	18.6444	ppb	99
59) Cis-1,3-Dichloropropene	7.34	75	53018	18.4888	ppb	99
60) Toluene	7.71	91	163774	20.7361	ppb	99
61) Trans-1,3-Dichloropropene	7.99	75	50529	20.0356	ppb	95
62) 1,1,2-TCA	8.18	83	32033	18.4876	ppb	90
63) 2-Hexanone	8.51	43	17206	19.2233	ppb	99
66) 1,2-EDB	8.70	107	41803	19.9740	ppb	87
67) Tetrachloroethene	8.32	166	57105	18.3988	ppb	92
68) 1-Chlorohexane	9.29	91	38754	19.6705	ppb	96
69) 1,1,1,2-Tetrachloroethane	9.37	131	49081	18.2734	ppb	92
70) m&p-Xylene	9.55	91	249428	41.4568	ppb	98
71) o-Xylene	9.97	106	59715	17.7929	ppb	97
72) Styrene	9.99	104	104321	17.4702	ppb	97
74) 1,3-Dichloropropane	8.36	76	60431	18.5827	ppb	96
75) Dibromochloromethane	8.60	129	52092	19.2794	ppb	96
76) Chlorobenzene	9.26	112	113848	19.4060	ppb	97
77) Ethylbenzene	9.41	91	162170	20.6976	ppb	98
78) Bromoform	10.16	173	41837	18.8342	ppb	96
80) Isopropylbenzene	10.39	105	87392	19.3720	ppb	99
81) 1,1,2,2-Tetrachloroethane	10.71	83	48966	16.3305	ppb	99
82) 1,2,3-Trichloropropane	10.74	110	18382	17.4206	ppb	99
83) t-1,4-Dichloro-2-Butene	10.78	53	7774	18.5416	ppb	# 75
84) Bromobenzene	10.68	156	56083	18.5212	ppb	95
85) n-Propylbenzene	10.84	91	175361	19.6681	ppb	97
86) 4-Ethyltoluene	10.97	105	161581	20.3083	ppb	99
87) 2-Chlorotoluene	10.90	91	67792	19.9953	ppb	97
88) 1,3,5-Trimethylbenzene	11.04	105	148013	20.9608	ppb	100
89) 4-Chlorotoluene	11.03	126	26520	19.5593	ppb	90
90) Tert-Butylbenzene	11.38	119	112784	16.4462	ppb	94
91) 1,2,4-Trimethylbenzene	11.44	105	137746	20.7042	ppb	96
92) Sec-Butylbenzene	11.62	105	167378	20.7416	ppb	99
93) p-Isopropyltoluene	11.79	119	153881	20.7024	ppb	97
94) Benzyl Chloride	11.96	91	33895	17.2094	ppb	95
95) 1,3-DCB	11.71	146	97238	18.7323	ppb	96
96) 1,4-DCB	11.81	146	102238	18.0917	ppb	98
97) n-Butylbenzene	12.23	91	107859	19.6851	ppb	98
98) 1,2-DCB	12.20	146	93403	17.7848	ppb	91
99) Hexachloroethane	12.49	201	32122	17.7956	ppb	91
100) 1,2-Dibromo-3-chloropropan	13.04	75	9630	19.4664	ppb	95
101) 1,2,4-Trichlorobenzene	13.95	180	56358	17.2416	ppb	96
102) Hexachlorobutadiene	14.16	223	12678	19.0885	ppb	89
103) Naphthalene	14.21	128	103699	16.3207	ppb	99
104) 1,2,3-Trichlorobenzene	14.47	180	58923	19.6590	ppb	94

(#) = qualifier out of range (m) = manual integration
 0724L21.D L0724W.M Thu Jul 25 10:22:29 2019

Quantitation Report

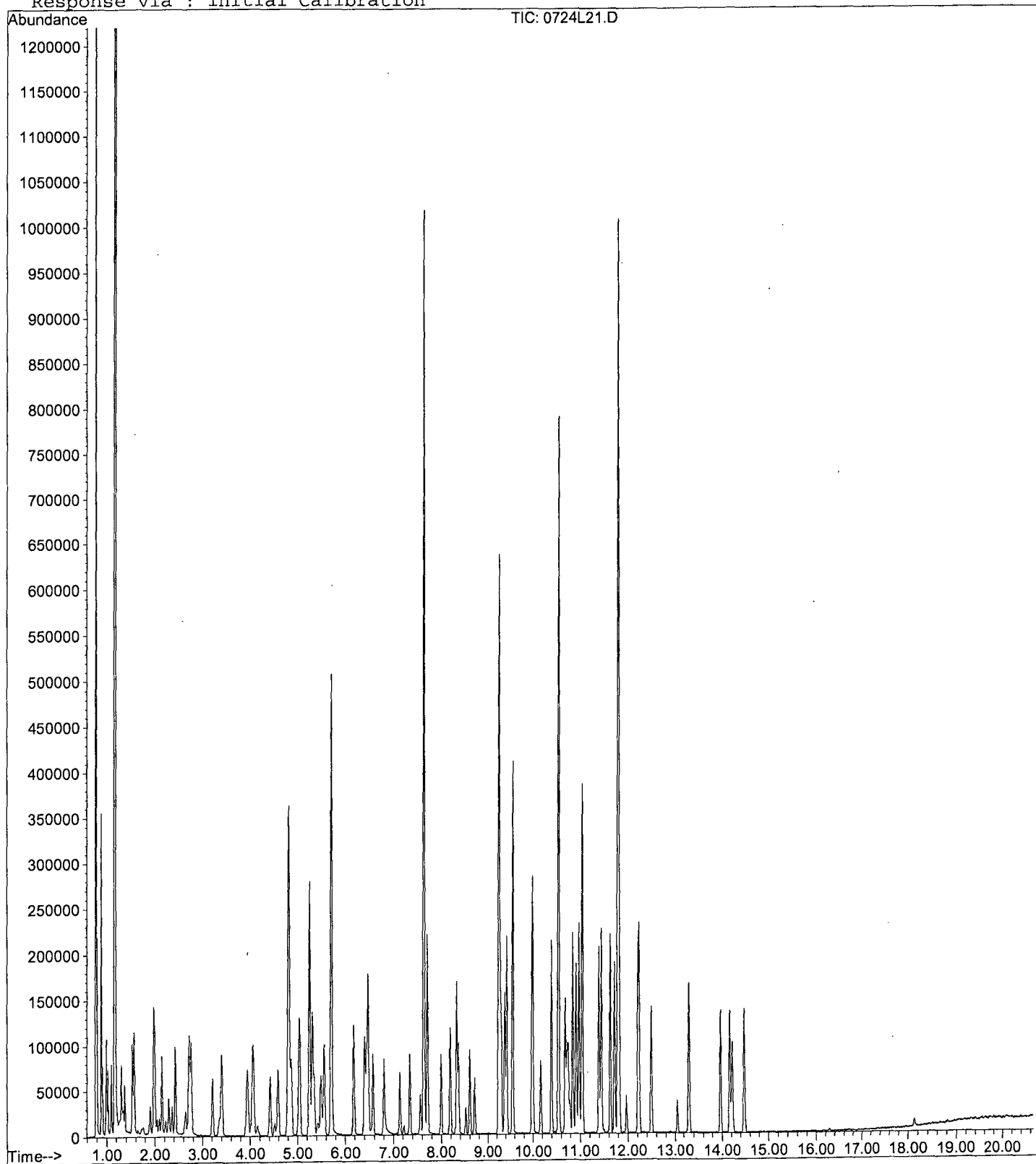
Data File : M:\LOKI\DATA\190724\0724L21.D
Acq On : 24 Jul 19 18:11
Sample : 20ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 10
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L22.D
 Acq On : 24 Jul 19 18:40
 Sample : 40ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 11
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	248128	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	215680	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	139584	25.0000	ppb	0.00

System Monitoring Compounds

39) Dibromofluoromethane(S)	4.81	111	218290	49.6680	ppb	0.00
Spiked Amount	25.000		Recovery	=	198.672%	
44) 1,2-DCA-D4(S)	5.24	65	227070	50.3196	ppb	0.00
Spiked Amount	25.000		Recovery	=	201.280%	
65) Toluene-D8(S)	7.63	98	728244	55.5726	ppb	0.00
Spiked Amount	25.000		Recovery	=	222.292%	
73) 4-Bromofluorobenzene(S)	10.54	95	262492	57.9337	ppb	0.00
Spiked Amount	25.000		Recovery	=	231.736%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chlorotrifluoroethene	0.88	116	117929	149.6191	ppb	97
3) Dichlorodifluoromethane	0.91	87	23176	41.0712	ppb	93
4) Freon 114	0.99	85	67307	38.0698	ppb	96
5) Chloromethane	1.02	50	70225	42.7874	ppb	99
6) Vinyl chloride	1.09	62	77595	36.4454	ppb	100
7) 2-Chloro-1,1,1-trifluoroet	1.16	118	3982909	143.6201	ppb	99
8) Bromomethane	1.30	94	39041	31.7310	ppb	100
9) Chloroethane	1.37	64	47097	43.8680	ppb	96
10) Dichlorofluoromethane	1.53	67	137648	38.4838	ppb	98
11) Trichlorofluoromethane	1.56	103	87361	37.3835	ppb	95
13) Acrolein	1.90	56	22871	179.2825	ppb	95
14) Acetone	2.04	43	26972	41.5684	ppb	# 89
15) Freon-113	1.99	101	77647	38.3787	ppb	96
16) 1,1-DCE	1.97	96	76146	38.5744	ppb	99
17) t-Butanol	2.64	59	36238	178.5540	ppb	93
18) 2-Propanol	2.22	45	18520	144.0140	ppb	90
19) Acetonitrile	2.28	41	46844	170.8677	ppb	99
20) Methyl Acetate	2.36	43	66010	43.1988	ppb	87
21) Iodomethane	2.09	142	52352	41.4151	ppb	# 95
22) Acrylonitrile	2.69	53	34466	38.1509	ppb	93
23) Methylene chloride	2.43	84	85532	36.4853	ppb	98
24) Carbon disulfide	2.14	76	202229	36.1778	ppb	97
25) Methyl t-butyl ether (MtBE)	2.75	73	229978	39.4058	ppb	98
26) Trans-1,2-DCE	2.71	96	85222	38.9268	ppb	94
27) Diisopropyl Ether	3.40	45	188014	41.4613	ppb	95
29) 1,1-DCA	3.21	63	136310	38.1885	ppb	95
30) Vinyl Acetate	3.40	45	188014	41.4613	ppb	95
31) Ethyl tert Butyl Ether	3.94	59	168813	41.7601	ppb	97
32) MEK (2-Butanone)	4.15	43	11985	37.4843	ppb	99
33) Cis-1,2-DCE	4.06	96	90133	38.5332	ppb	86
34) 2,2-Dichloropropane	4.05	77	101925	38.6066	ppb	# 93
37) Chloroform	4.59	83	149064	38.8351	ppb	95
38) Bromochloromethane	4.41	128	49971	37.7751	ppb	97
40) 1,1,1-TCA	4.79	97	130432	40.5714	ppb	98
41) Cyclohexane	4.86	41	48960	42.3973	ppb	96
42) 1,1-Dichloropropene	5.04	75	92011	42.7361	ppb	97
43) 2,2,4-Trimethylpentane	5.49	57	154948	43.1455	ppb	98
45) Carbon Tetrachloride	5.02	117	125426	40.6872	ppb	100
46) Tert Amyl Methyl Ether	5.56	73	185765	44.1719	ppb	94

(#) = qualifier out of range (m) = manual integration
 0724L22.D L0724W.M Thu Jul 25 10:22:32 2019

Data File : M:\LOKI\DATA\190724\0724L22.D
 Acq On : 24 Jul 19 18:40
 Sample : 40ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 11
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) 1,2-DCA	5.35	62	112971	39.5040	ppb	98
49) Benzene	5.31	78	293431	40.9524	ppb	95
50) TCE	6.18	130	97684	40.5124	ppb	90
51) 2-Pentanone	6.47	43	204185	179.0861	ppb	100
52) 1,2-Dichloropropane	6.44	63	74547	39.0423	ppb	99
53) Bromodichloromethane	6.80	83	120885	41.0511	ppb	97
54) Methyl Cyclohexane	6.39	83	95619	45.0485	ppb	93
55) Dibromomethane	6.57	93	59839	41.4705	ppb	97
56) 2-Chloroethyl vinyl ether	7.22	63	8548	118.9756	ppb	# 89
57) MIBK (methyl isobutyl ket	7.56	43	58645	39.4571	ppb	96
58) 1-Bromo-2-chloroethane	7.13	63	111036	40.9485	ppb	99
59) Cis-1,3-Dichloropropene	7.34	75	114940	40.7858	ppb	98
60) Toluene	7.71	91	335232	43.1896	ppb	99
61) Trans-1,3-Dichloropropene	7.99	75	105062	42.3896	ppb	99
62) 1,1,2-TCA	8.18	83	64426	37.8351	ppb	92
63) 2-Hexanone	8.51	43	38798	44.1072	ppb	88
66) 1,2-EDB	8.70	107	84849	42.8036	ppb	90
67) Tetrachloroethene	8.32	166	117546	39.9853	ppb	94
68) 1-Chlorohexane	9.29	91	87535	46.9091	ppb	90
69) 1,1,1,2-Tetrachloroethane	9.37	131	99624	39.1603	ppb	99
70) m&p-Xylene	9.55	91	549349	96.3995	ppb	97
71) o-Xylene	9.97	106	132406	40.2550	ppb	98
72) Styrene	9.99	104	237053	40.0009	ppb	100
74) 1,3-Dichloropropane	8.36	76	128337	41.6656	ppb	97
75) Dibromochloromethane	8.60	129	106786	41.7267	ppb	86
76) Chlorobenzene	9.27	112	230168	41.4221	ppb	98
77) Ethylbenzene	9.41	91	350061	47.1704	ppb	99
78) Bromoform	10.16	173	81663	38.8140	ppb	97
80) Isopropylbenzene	10.39	105	197696	45.2294	ppb	99
81) 1,1,2,2-Tetrachloroethane	10.72	83	105472	36.3045	ppb	99
82) 1,2,3-Trichloropropane	10.74	110	36605	35.8039	ppb	92
83) t-1,4-Dichloro-2-Butene	10.78	53	15922	38.2849	ppb	86
84) Bromobenzene	10.68	156	113238	38.5966	ppb	98
85) n-Propylbenzene	10.84	91	380559	44.0526	ppb	97
86) 4-Ethyltoluene	10.97	105	356242	46.2114	ppb	100
87) 2-Chlorotoluene	10.90	91	145014	44.1449	ppb	100
88) 1,3,5-Trimethylbenzene	11.04	105	318200	46.5081	ppb	96
89) 4-Chlorotoluene	11.03	126	56880	43.2972	ppb	93
90) Tert-Butylbenzene	11.38	119	287510	42.1868	ppb	96
91) 1,2,4-Trimethylbenzene	11.44	105	313989	48.7095	ppb	98
92) Sec-Butylbenzene	11.63	105	363874	46.5387	ppb	99
93) p-Isopropyltoluene	11.79	119	333818	46.3517	ppb	97
94) Benzyl Chloride	11.96	91	73880	38.1541	ppb	98
95) 1,3-DCB	11.71	146	209895	41.7328	ppb	95
96) 1,4-DCB	11.81	146	219710	40.1269	ppb	98
97) n-Butylbenzene	12.23	91	250191	47.1273	ppb	97
98) 1,2-DCB	12.20	146	207639	40.8053	ppb	94
99) Hexachloroethane	12.48	201	61756	35.3109	ppb	91
100) 1,2-Dibromo-3-chloropropan	13.04	75	20965	45.3361	ppb	96
101) 1,2,4-Trichlorobenzene	13.95	180	134182	41.1397	ppb	97
102) Hexachlorobutadiene	14.16	223	26112	41.3017	ppb	85
103) Naphthalene	14.21	128	253105	38.0937	ppb	99
104) 1,2,3-Trichlorobenzene	14.47	180	141857	48.8481	ppb	98

(#) = qualifier out of range (m) = manual integration
 0724L22.D L0724W.M Thu Jul 25 10:22:33 2019

Quantitation Report

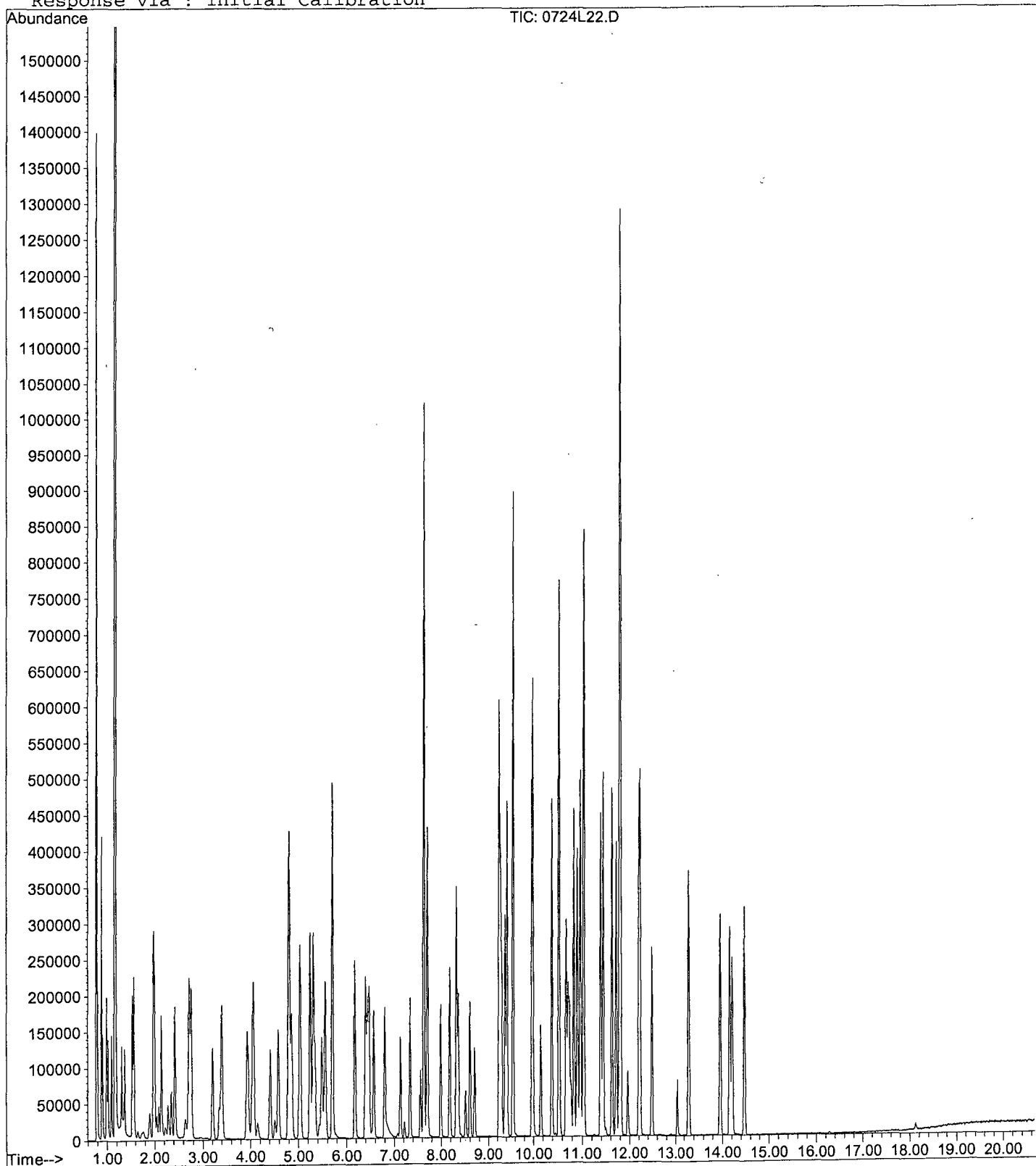
Data File : M:\LOKI\DATA\190724\0724L22.D
Acq On : 24 Jul 19 18:40
Sample : 40ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 11
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L23.D
 Acq On : 24 Jul 19 19:09
 Sample : 100ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 12
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	269568	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	231552	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	170944	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Dibromofluoromethane(S)	4.81	111	413989	86.7039	ppb	0.00
Spiked Amount 25.000			Recovery =	346.816%		
44) 1,2-DCA-D4 (S)	5.24	65	426960	87.0907	ppb	0.00
Spiked Amount 25.000			Recovery =	348.364%		
65) Toluene-D8 (S)	7.63	98	1425773	101.3434	ppb	0.00
Spiked Amount 25.000			Recovery =	405.372%		
73) 4-Bromofluorobenzene(S)	10.53	95	545842	112.2130	ppb	0.00
Spiked Amount 25.000			Recovery =	448.852%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chlorotrifluoroethene	0.88	116	124461	145.3473	ppb	97
3) Dichlorodifluoromethane	0.91	87	60173	99.4626	ppb	97
4) Freon 114	0.99	85	174989	91.1043	ppb	91
5) Chloromethane	1.02	50	171768	98.6086	ppb	99
6) Vinyl chloride	1.09	62	197255	85.2795	ppb	99
7) 2-Chloro-1,1,1-trifluoroet	1.17	118	4219360	140.0454	ppb	100
8) Bromomethane	1.30	94	96521	72.5216	ppb	100
9) Chloroethane	1.37	64	111266	98.0405	ppb	98
10) Dichlorofluoromethane	1.53	67	346902	89.2734	ppb	99
11) Trichlorofluoromethane	1.55	103	227770	89.7151	ppb	96
13) Acrolein	1.91	56	24288	175.2475	ppb	# 94
14) Acetone	2.05	43	65609	98.7665	ppb	95
15) Freon-113	1.99	101	205793	93.6276	ppb	94
16) 1,1-DCE	1.97	96	190653	88.9004	ppb	100
17) t-Butanol	2.59	59	373	-5.7538	ppb	# 73
18) 2-Propanol	2.13	45	1792	10.4130	ppb	# 45
19) Acetonitrile	2.29	41	56083	188.2975	ppb	100
20) Methyl Acetate	2.36	43	160257	98.5719	ppb	89
21) Iodomethane	2.09	142	191786	99.9012	ppb	# 90
22) Acrylonitrile	2.70	53	86848	88.4874	ppb	97
23) Methylene chloride	2.43	84	210169	82.5211	ppb	94
24) Carbon disulfide	2.13	76	522423	86.0257	ppb	98
25) Methyl t-butyl ether (MtBE)	2.76	73	608808	96.0200	ppb	98
26) Trans-1,2-DCE	2.71	96	216154	90.8799	ppb	95
27) Diisopropyl Ether	3.40	45	503139	102.1289	ppb	96
29) 1,1-DCA	3.21	63	342593	88.3467	ppb	96
30) Vinyl Acetate	3.40	45	503139	102.1289	ppb	96
31) Ethyl tert Butyl Ether	3.95	59	492559	112.1558	ppb	95
32) MEK (2-Butanone)	4.16	43	30121	86.7139	ppb	97
33) Cis-1,2-DCE	4.07	96	231300	91.0195	ppb	85
34) 2,2-Dichloropropane	4.05	77	256295	89.3569	ppb	# 90
37) Chloroform	4.59	83	380530	91.2532	ppb	90
38) Bromochloromethane	4.42	128	112648	78.3823	ppb	93
40) 1,1,1-TCA	4.80	97	334730	95.8380	ppb	98
41) Cyclohexane	4.86	41	133027	106.0337	ppb	95
42) 1,1-Dichloropropene	5.04	75	251836	107.6665	ppb	96
43) 2,2,4-Trimethylpentane	5.49	57	443333	113.6285	ppb	92
45) Carbon Tetrachloride	5.02	117	321453	95.9832	ppb	95
46) Tert Amyl Methyl Ether	5.56	73	499000	109.2170	ppb	# 89

(#) = qualifier out of range (m) = manual integration
 0724L23.D L0724W.M Thu Jul 25 10:22:36 2019

Data File : M:\LOKI\DATA\190724\0724L23.D
 Acq On : 24 Jul 19 19:09
 Sample : 100ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 12
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) 1,2-DCA	5.35	62	291893	93.9518	ppb	97
49) Benzene	5.31	78	767828	98.6381	ppb	97
50) TCE	6.18	130	247437	94.4575	ppb	91
51) 2-Pentanone	6.47	43	247069	199.4637	ppb	100
52) 1,2-Dichloropropane	6.44	63	192916	92.9996	ppb	99
53) Bromodichloromethane	6.80	83	298901	93.4301	ppb	99
54) Methyl Cyclohexane	6.40	83	278438	120.7459	ppb	90
55) Dibromomethane	6.57	93	148198	94.5376	ppb	96
56) 2-Chloroethyl vinyl ether	7.22	63	33651	419.8029	ppb	# 87
57) MIBK (methyl isobutyl ket	7.56	43	158544	98.1864	ppb	95
58) 1-Bromo-2-chloroethane	7.13	63	280604	95.2523	ppb	97
59) Cis-1,3-Dichloropropene	7.34	75	317300	103.6370	ppb	99
60) Toluene	7.71	91	866420	102.7470	ppb	99
61) Trans-1,3-Dichloropropene	7.99	75	281761	104.6410	ppb	96
62) 1,1,2-TCA	8.18	83	158295	85.5673	ppb	91
63) 2-Hexanone	8.51	43	110341	115.4635	ppb	96
66) 1,2-EDB	8.70	107	210675	98.9938	ppb	91
67) Tetrachloroethene	8.32	166	299298	94.8326	ppb	96
68) 1-Chlorohexane	9.29	91	250169	124.8735	ppb	91
69) 1,1,1,2-Tetrachloroethane	9.37	131	241398	88.3847	ppb	100
70) m&p-Xylene	9.55	91	1462432	239.0361	ppb	98
71) o-Xylene	9.97	106	360099	100.3769	ppb	99
72) Styrene	9.99	104	653398	100.5566	ppb	99
74) 1,3-Dichloropropane	8.36	76	324800	98.2207	ppb	99
75) Dibromochloromethane	8.60	129	267289	97.2840	ppb	88
76) Chlorobenzene	9.26	112	589039	98.7400	ppb	98
77) Ethylbenzene	9.41	91	927210	116.3765	ppb	99
78) Bromoform	10.16	173	220438	97.5912	ppb	96
80) Isopropylbenzene	10.39	105	550336	102.8094	ppb	99
81) 1,1,2,2-Tetrachloroethane	10.72	83	290526	81.6564	ppb	97
82) 1,2,3-Trichloropropane	10.74	110	100627	80.3686	ppb	87
83) t-1,4-Dichloro-2-Butene	10.78	53	52078	100.8867	ppb	81
84) Bromobenzene	10.68	156	303682	84.5197	ppb	96
85) n-Propylbenzene	10.84	91	1065164	100.6812	ppb	99
86) 4-Ethyltoluene	10.97	105	990962	104.9646	ppb	100
87) 2-Chlorotoluene	10.90	91	394441	98.0470	ppb	99
88) 1,3,5-Trimethylbenzene	11.04	105	859777	102.6114	ppb	100
89) 4-Chlorotoluene	11.03	126	156800	97.4603	ppb	94
90) Tert-Butylbenzene	11.39	119	840762	99.8127	ppb	94
91) 1,2,4-Trimethylbenzene	11.44	105	880822	111.5756	ppb	98
92) Sec-Butylbenzene	11.62	105	1038817	108.4885	ppb	100
93) p-Isopropyltoluene	11.79	119	976489	110.7147	ppb	97
94) Benzyl Chloride	11.97	91	241655	101.1546	ppb	99
95) 1,3-DCB	11.71	146	587638	95.4040	ppb	96
96) 1,4-DCB	11.81	146	614325	91.6148	ppb	96
97) n-Butylbenzene	12.23	91	760258	116.9348	ppb	93
98) 1,2-DCB	12.21	146	582484	93.4702	ppb	95
99) Hexachloroethane	12.49	201	183032	85.4551	ppb	91
100) 1,2-Dibromo-3-chloropropan	13.04	75	54696	98.0270	ppb	83
101) 1,2,4-Trichlorobenzene	13.95	180	404804	100.1097	ppb	95
102) Hexachlorobutadiene	14.16	223	76416	99.5891	ppb	83
103) Naphthalene	14.21	128	854576	101.5306	ppb	97
104) 1,2,3-Trichlorobenzene	14.47	180	415894	116.9396	ppb	98

(#) = qualifier out of range (m) = manual integration
 0724L23.D L0724W.M Thu Jul 25 10:22:37 2019

Quantitation Report

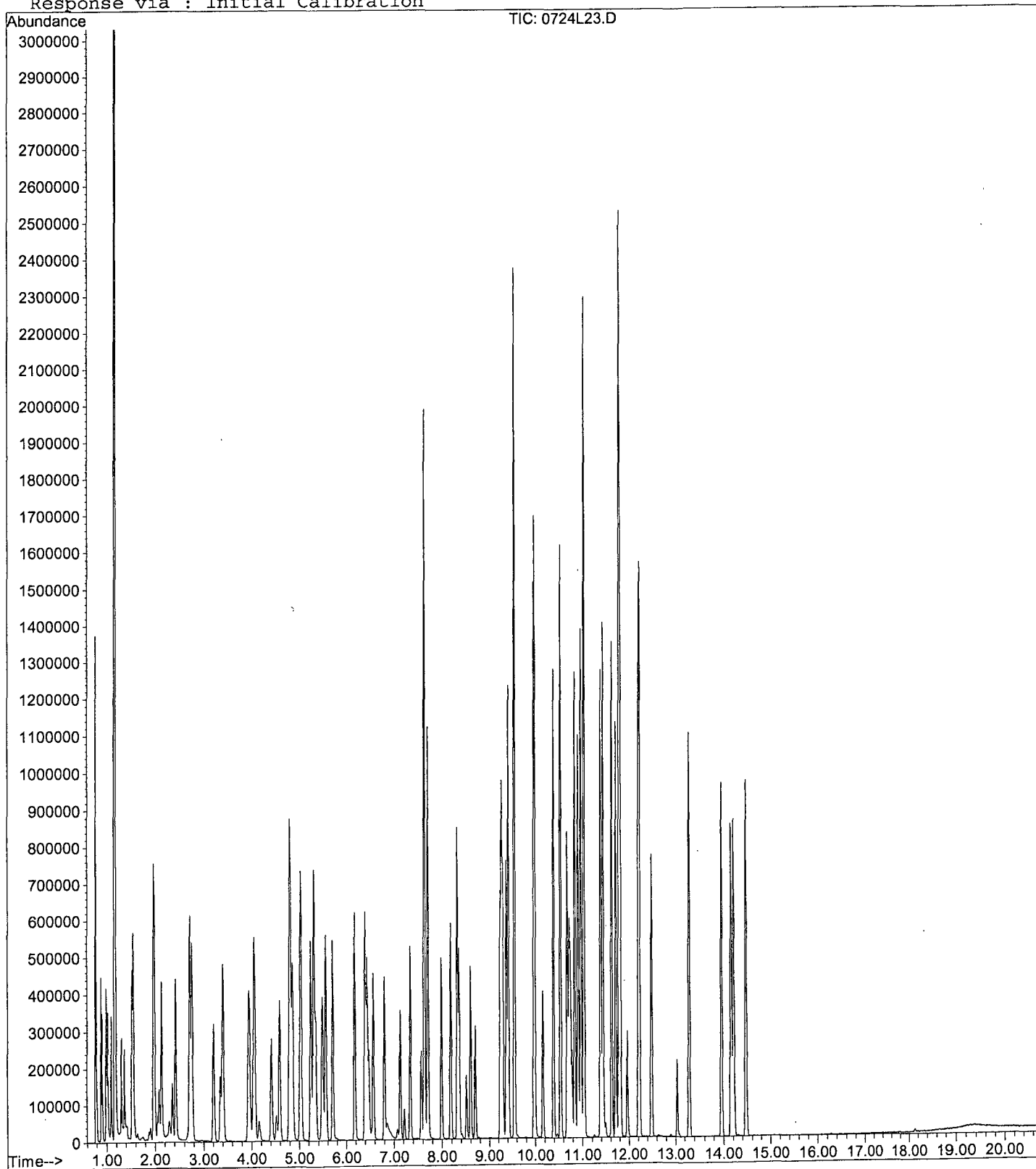
Data File : M:\LOKI\DATA\190724\0724L23.D
Acq On : 24 Jul 19 19:09
Sample : 100ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

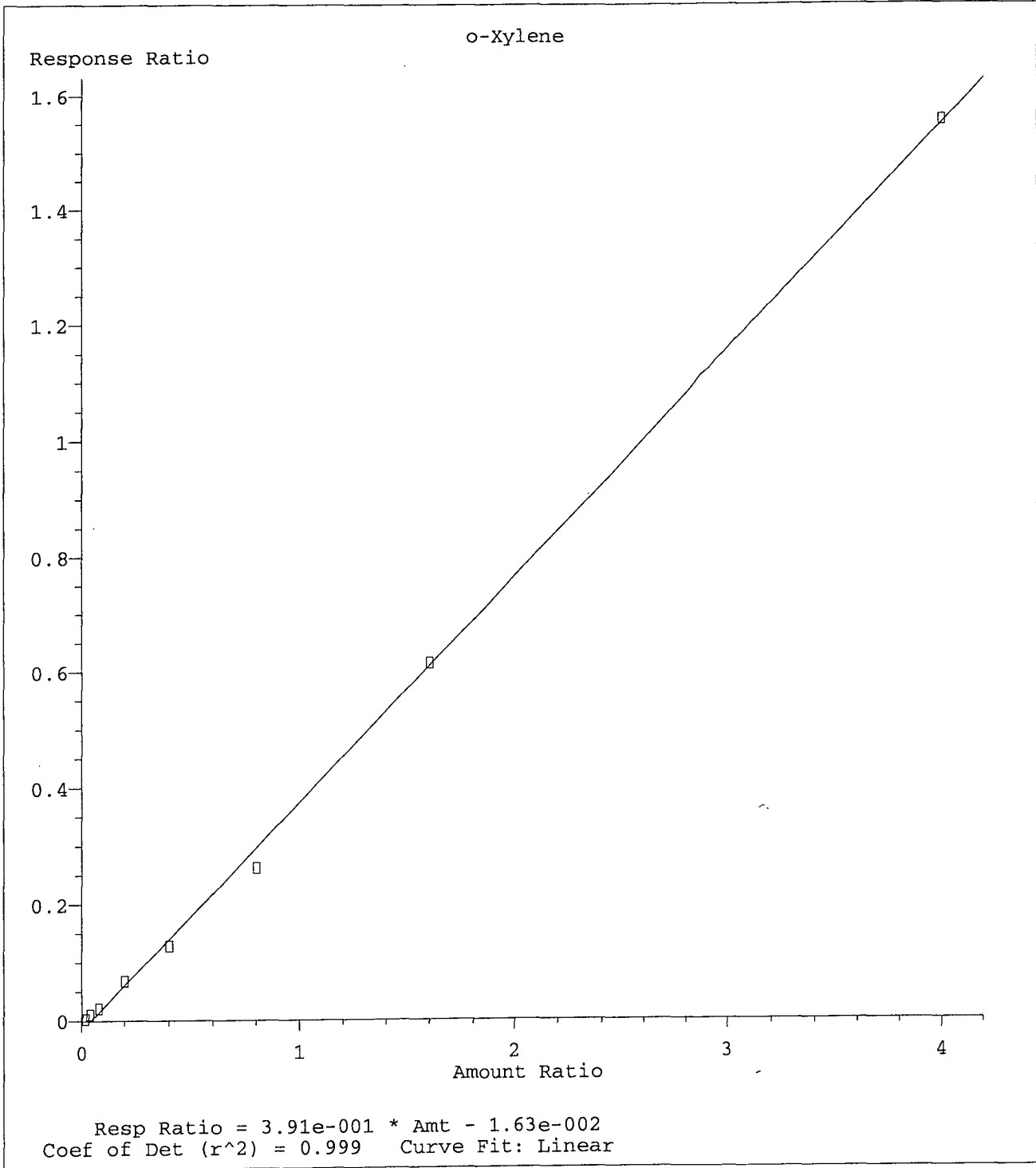
Vial: 12
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration





Method Name: M:\LOKI\DATA\190724\L0724W.M
Calibration Table Last Updated: Thu Jul 25 10:13:04 2019

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 07/24/19

Matrix: _____

Instrument: Loki

Initial Cal. Date: 07/24/19

Data File: 0724L26-27.D

		Compound	MEAN	CCRF	%D	%Drift
1	TM	Chlorotrifluoroethene	0.0794	0.0924	16	TM
2	TML	Dichlorodifluoromethane	0.0658	0.0623	5.2	TML 2.7
3	TM	Freon 114	0.1781	0.1750	1.7	TM
4	TM**L	Chloromethane	0.2185	0.1939	11	TM**L 4.1
5	TM*	Vinyl chloride	0.2145	0.2245	4.7	TM*
6	TM	2-Chloro-1,1,1-trifluoroethane	2.794	3.108	11	TM
7	TML	Bromomethane	0.1588	0.1458	8.2	TML 16
8	TML	Chloroethane	0.1451	0.1275	12	TML 1.4
9	TM	Dichlorofluoromethane	0.3604	0.3680	2.1	TM
10	TM	Trichlorofluoromethane	0.2355	0.2380	1.1	TM
11	TM	Diethyl ether	0.0000	0.0002	0.00	TM
12	TM	Acrolein	0.0129	0.0138	7.1	TM
13	TML	Acetone	0.1507	0.0953	37	TML 16
14	TM	Freon-113	0.2038	0.1909	6.4	TM
15	TM*	1,1-DCE	0.1989	0.1887	5.1	TM*
16	TML	t-Butanol	0.0231	0.0210	9.0	TML 0.94
17	TML	2-Propanol	0.0150	0.0142	5.1	TML 9.1
18	TM	Acetonitrile	0.0276	0.0280	1.4	TM
19	TML	Methyl Acetate	0.1950	0.1750	10	TML 1.5
20	TMQ	Iodomethane	0.0797	0.0515	35	TMQ 33 * NT
21	TM	Acrylonitrile	0.0910	0.0961	5.6	TM
22	TM	Methylene chloride	0.2362	0.2367	0.23	TM
23	TM	Carbon disulfide	0.5632	0.5660	0.50	TM
24	TM	Methyl t-butyl ether (MtBE)	0.5880	0.5977	1.6	TM
25	TM	Trans-1,2-DCE	0.2206	0.2086	5.4	TM
26	TM	Diisopropyl Ether	0.4569	0.4519	1.1	TM
27	TM**	1,1-DCA	0.3596	0.3611	0.39	TM**
28	TM	Vinyl Acetate	0.4569	0.4519	1.1	TM
29	TM	Ethyl tert Butyl Ether	0.4073	0.4206	3.3	TM
30	TM	MEK (2-Butanone)	0.0322	0.0328	1.9	TM
31	TM	Cis-1,2-DCE	0.2357	0.2241	4.9	TM
32	TM	2,2-Dichloropropane	0.2660	0.2335	12	TM
33	TM	3-Methylpentane	0.0000	0.1291	0.00	TM
34	TM*	Chloroform	0.3867	0.3872	0.12	TM*
35	TM	Bromochloromethane	0.1333	0.1403	5.3	TM
36	TM	1,1,1-TCA	0.3239	0.3307	2.1	TM
37	TM	Cyclohexane	0.1164	0.1168	0.37	TM
38	TM	1,1-Dichloropropene	0.2169	0.2156	0.60	TM
39	TM	2,2,4-Trimethylpentane	0.3618	0.3338	7.7	TM
40	TM	Carbon Tetrachloride	0.3106	0.3066	1.3	TM

Average

6.1

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 07/24/19

Matrix: 0

Instrument: Loki

Cal. Date: 07/24/19

Data File: 0724L26-27.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	Tert Amyl Methyl Ether	0.4237	0.4195	1.0	TM
42	TM	Methylcyclopentane	0.0000	0.0379	0.00	TM
43	TM	1,2-DCA	0.2881	0.2978	3.4	TM
44	TM	Benzene	0.7219	0.7647	5.9	TM
45	TM	TCE	0.2429	0.2614	7.6	TM
46	TM	2-Pentanone	0.1149	0.1226	6.7	TM
47	TM*	1,2-Dichloropropane	0.1924	0.1786	7.1	TM*
48	TM	Bromodichloromethane	0.2967	0.3050	2.8	TM
49	TM	Methyl Cyclohexane	0.2139	0.2078	2.8	TM
50	TM	Dibromomethane	0.1454	0.1567	7.8	TM
51	TML	2-Chloroethyl vinyl ether	0.0055	0.0039	29	TML 34*
52	TM	MIBK (methyl isobutyl ketone)	0.1498	0.1638	9.4	TM
53	TM	1-Bromo-2-chloroethane	0.2732	0.2915	6.7	TM
54	TM	Cis-1,3-Dichloropropene	0.2839	0.2694	5.1	TM
55	TM*	Toluene	0.7820	0.8278	5.8	TM*
56	TM	Trans-1,3-Dichloropropene	0.2497	0.2609	4.5	TM
57	TM	1,1,2-TCA	0.1716	0.1787	4.2	TM
58	TM	2-Hexanone	0.0886	0.0984	11	TM
59	TM	1,2-EDB	0.2298	0.2346	2.1	TM
60	TM	Tetrachloroethene	0.3408	0.3302	3.1	TM
61	TM	1-Chlorohexane	0.2163	0.2179	0.76	TM
62	TM	1,1,1,2-Tetrachloroethane	0.2949	0.2892	1.9	TM
63	TM	m&p-Xylene	0.6605	0.6594	0.18	TM
64	TML	o-Xylene	0.3115	0.3323	6.7	TML 4.7
65	TML	Styrene	0.5372	0.5614	4.5	TML 7.4
66	TM	1,3-Dichloropropane	0.3570	0.3554	0.46	TM
67	TM	Dibromochloromethane	0.2966	0.2891	2.6	TM
68	TM**	Chlorobenzene	0.6441	0.6618	2.8	TM**
69	TM*	Ethylbenzene	0.8602	0.8740	1.6	TM*
70	TM**	Bromoform	0.2439	0.2472	1.4	TM**
71	TM	Isopropylbenzene	0.7829	0.8003	2.2	TM
72	TM**	1,1,2,2-Tetrachloroethane	0.5203	0.4981	4.3	TM**
73	TM	1,2,3-Trichloropropane	0.1831	0.1824	0.39	TM
74	TML	t-1,4-Dichloro-2-Butene	0.0571	0.0782	37	TML 11
75	TM	Bromobenzene	0.5255	0.5343	1.7	TM
76	TM	n-Propylbenzene	1.547	1.582	2.2	TM
77	TM	4-Ethyltoluene	1.381	1.378	0.20	TM
78	TM	2-Chlorotoluene	0.5883	0.6501	10	TM
79	TM	1,3,5-Trimethylbenzene	1.225	1.291	5.4	TM
80	TM	4-Chlorotoluene	0.2353	0.2642	12	TM
	TML	Tert-Butylbenzene	1.075	1.237	15	TML 6.4
		Average			5.8	

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 07/24/19
Instrument: Loki
Cal. Date: 07/24/19

81		Compound	MEAN	CCRF	%D	%Drift
82	TM	1,2,4-Trimethylbenzene	1.155	1.186	2.8	TM
83	TM	Sec-Butylbenzene	1.400	1.500	7.1	TM
84	TM	p-Isopropyltoluene	1.290	1.372	6.4	TM
85	TML	Benzyl Chloride	0.3786	0.3090	18	TML 7.5
86	TM	1,3-DCB	0.9008	0.9446	4.9	TM
87	TM	1,4-DCB	0.9807	1.002	2.2	TM
88	TM	n-Butylbenzene	0.9508	0.9513	0.04	TM
89	TM	1,2-DCB	0.9114	0.8974	1.5	TM
90	TM	Hexachloroethane	0.3132	0.3032	3.2	TM
91	TML	1,2-Dibromo-3-chloropropane	0.0944	0.0892	5.5	TML 2.0
92	TML	1,2,4-Trichlorobenzene	0.4994	0.5171	3.5	TML 4.9
93	TML	Hexachlorobutadiene	0.1369	0.1100	20	TML 7.7
94	TML	Naphthalene	0.9257	0.9062	2.1	TML 7.9
95	TM	1,2,3-Trichlorobenzene	0.5201	0.5195	0.12	TM
96						
97						
98						
99						
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116						
117						
118						
119						
120						

Average

5.5

Data File : M:\LOKI\DATA\190724\0724L26.D
 Acq On : 24 Jul 19 20:36
 Sample : SS 10ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 15
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:24 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.71	96	236544	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	223360	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	127400	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
39) Dibromofluoromethane(S)	4.81	111	104177	24.8644	ppb	0.00
Spiked Amount 25.000			Recovery =	99.456%		
44) 1,2-DCA-D4 (S)	5.24	65	107852	25.0709	ppb	0.00
Spiked Amount 25.000			Recovery =	100.284%		
65) Toluene-D8 (S)	7.63	98	337135	24.8423	ppb	0.00
Spiked Amount 25.000			Recovery =	99.368%		
73) 4-Bromofluorobenzene(S)	10.54	95	124246	26.4790	ppb	0.00
Spiked Amount 25.000			Recovery =	105.916%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chlorotrifluoroethene	0.89	116	87456	116.3911	ppb	98
3) Dichlorodifluoromethane	0.91	87	5897	10.2718	ppb	95
4) Freon 114	0.99	85	16562	9.8265	ppb	99
5) Chloromethane	1.02	50	18351	10.4086	ppb	93
6) Vinyl chloride	1.09	62	21243	10.4662	ppb	92
7) 2-Chloro-1,1,1-trifluoroet	1.17	118	2940538	111.2258	ppb	100
8) Bromomethane	1.30	94	13799	11.6104	ppb	94
9) Chloroethane	1.38	64	12064	10.1400	ppb	95
10) Dichlorofluoromethane	1.54	67	34823	10.2126	ppb	99
11) Trichlorofluoromethane	1.57	103	22523	10.1100	ppb	95
13) Acrolein	1.90	56	16276	133.8333	ppb	89
14) Acetone	2.04	43	9014	11.5878	ppb	# 81
15) Freon-113	2.00	101	18062	9.3647	ppb	93
16) 1,1-DCE	1.98	96	17857	9.4891	ppb	97
17) t-Butanol	2.63	59	24821	126.1727	ppb	98
18) 2-Propanol	2.21	45	13456	109.1297	ppb	91
19) Acetonitrile	2.28	41	33116	126.7091	ppb	98
20) Methyl Acetate	2.36	43	16560	10.1526	ppb	# 73
21) Iodomethane	2.09	142	4870	6.6748	ppb	# 92
22) Acrylonitrile	2.69	53	9094	10.5592	ppb	92
23) Methylene chloride	2.43	84	22399	10.0226	ppb	95
24) Carbon disulfide	2.14	76	53553	10.0495	ppb	100
25) Methyl t-butyl ether (MtBE)	2.75	73	56549	10.1640	ppb	97
26) Trans-1,2-DCE	2.72	96	19738	9.4572	ppb	89
27) Diisopropyl Ether	3.40	45	42756	9.8904	ppb	94
29) 1,1-DCA	3.21	63	34162	10.0395	ppb	97
30) Vinyl Acetate	3.40	45	42756	9.8904	ppb	94
31) Ethyl tert Butyl Ether	3.94	59	39794	10.3261	ppb	99
32) MEK (2-Butanone)	4.16	43	3106	10.1901	ppb	94
33) Cis-1,2-DCE	4.07	96	21203	9.5085	ppb	91
34) 2,2-Dichloropropane	4.05	77	22095	8.7789	ppb	# 91
37) Chloroform	4.59	83	36637	10.0123	ppb	94
38) Bromochloromethane	4.42	128	13274	10.5257	ppb	90
40) 1,1,1-TCA	4.80	97	31291	10.2098	ppb	97
41) Cyclohexane	4.87	41	11049	10.0365	ppb	84
42) 1,1-Dichloropropene	5.04	75	20401	9.9396	ppb	97
43) 2,2,4-Trimethylpentane	5.49	57	31588	9.2265	ppb	98
45) Carbon Tetrachloride	5.03	117	29011	9.8718	ppb	99
46) Tert Amyl Methyl Ether	5.55	73	39689	9.8996	ppb	93

(#) = qualifier out of range (m) = manual integration
 0724L26.D L0724W.M Thu Jul 25 10:24:23 2019

Data File : M:\LOKI\DATA\190724\0724L26.D
 Acq On : 24 Jul 19 20:36
 Sample : SS 10ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 15
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:24 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) 1,2-DCA	5.35	62	28181	10.3370	ppb	92
49) Benzene	5.30	78	72356	10.5928	ppb	100
50) TCE	6.18	130	24736	10.7611	ppb #	88
51) 2-Pentanone	6.47	43	144983	133.3887	ppb	99
52) 1,2-Dichloropropane	6.43	63	16903	9.2861	ppb	98
53) Bromodichloromethane	6.80	83	28858	10.2797	ppb #	99
54) Methyl Cyclohexane	6.40	83	19659	9.7154	ppb	93
55) Dibromomethane	6.57	93	14822	10.7752	ppb	97
57) MIBK (methyl isobutyl ket	7.56	43	15498	10.9379	ppb	94
58) 1-Bromo-2-chloroethane	7.13	63	27585	10.6711	ppb	90
59) Cis-1,3-Dichloropropene	7.34	75	25491	9.4883	ppb	100
60) Toluene	7.71	91	78321	10.5846	ppb	98
61) Trans-1,3-Dichloropropene	7.99	75	24686	10.4479	ppb	100
62) 1,1,2-TCA	8.18	83	16909	10.4163	ppb	98
63) 2-Hexanone	8.51	43	9314	11.1071	ppb	95
66) 1,2-EDB	8.70	107	20959	10.2096	ppb	95
67) Tetrachloroethene	8.32	166	29501	9.6902	ppb	97
68) 1-Chlorohexane	9.29	91	19471	10.0755	ppb	94
69) 1,1,1,2-Tetrachloroethane	9.37	131	25839	9.8076	ppb	95
70) m&p-Xylene	9.55	91	117821	19.9643	ppb	96
71) o-Xylene	9.97	106	29687	9.5322	ppb	92
72) Styrene	9.99	104	50161	9.2605	ppb	96
74) 1,3-Dichloropropane	8.36	76	31752	9.9541	ppb	100
75) Dibromochloromethane	8.60	129	25826	9.7445	ppb	77
76) Chlorobenzene	9.27	112	59132	10.2758	ppb	95
77) Ethylbenzene	9.41	91	78085	10.1601	ppb	98
78) Bromoform	10.16	173	22085	10.1360	ppb	98
80) Isopropylbenzene	10.39	105	40784	10.2230	ppb	99
81) 1,1,2,2-Tetrachloroethane	10.72	83	25383	9.5727	ppb	94
82) 1,2,3-Trichloropropane	10.74	110	9295	9.9611	ppb #	76
83) t-1,4-Dichloro-2-Butene	10.77	53	3984	11.0883	ppb	95
84) Bromobenzene	10.68	156	27229	10.1685	ppb	95
85) n-Propylbenzene	10.84	91	80603	10.2227	ppb	95
86) 4-Ethyltoluene	10.97	105	70221	9.9802	ppb	99
87) 2-Chlorotoluene	10.90	91	33128	11.0492	ppb	98
88) 1,3,5-Trimethylbenzene	11.04	105	65794	10.5361	ppb	96
89) 4-Chlorotoluene	11.03	126	13463	11.2281	ppb	86
90) Tert-Butylbenzene	11.39	119	63036	10.6387	ppb	94
91) 1,2,4-Trimethylbenzene	11.44	105	60454	10.2752	ppb	98
92) Sec-Butylbenzene	11.63	105	76420	10.7087	ppb	98
93) p-Isopropyltoluene	11.79	119	69928	10.6383	ppb	97
94) Benzyl Chloride	11.96	91	15745	9.2528	ppb	96
95) 1,3-DCB	11.72	146	48137	10.4863	ppb	94
96) 1,4-DCB	11.81	146	51067	10.2186	ppb	98
97) n-Butylbenzene	12.23	91	48476	10.0045	ppb	99
98) 1,2-DCB	12.20	146	45730	9.8463	ppb	96
99) Hexachloroethane	12.49	201	15450	9.6789	ppb	97
100) 1,2-Dibromo-3-chloropropan	13.04	75	4547	9.7970	ppb	90
101) 1,2,4-Trichlorobenzene	13.95	180	26351	9.5131	ppb	92
102) Hexachlorobutadiene	14.16	223	5608	9.2264	ppb #	81
103) Naphthalene	14.21	128	46179	9.2054	ppb	96
104) 1,2,3-Trichlorobenzene	14.48	180	26473	9.9877	ppb	98

(#) = qualifier out of range (m) = manual integration
 0724L26.D L0724W.M Thu Jul 25 10:24:24 2019

Quantitation Report

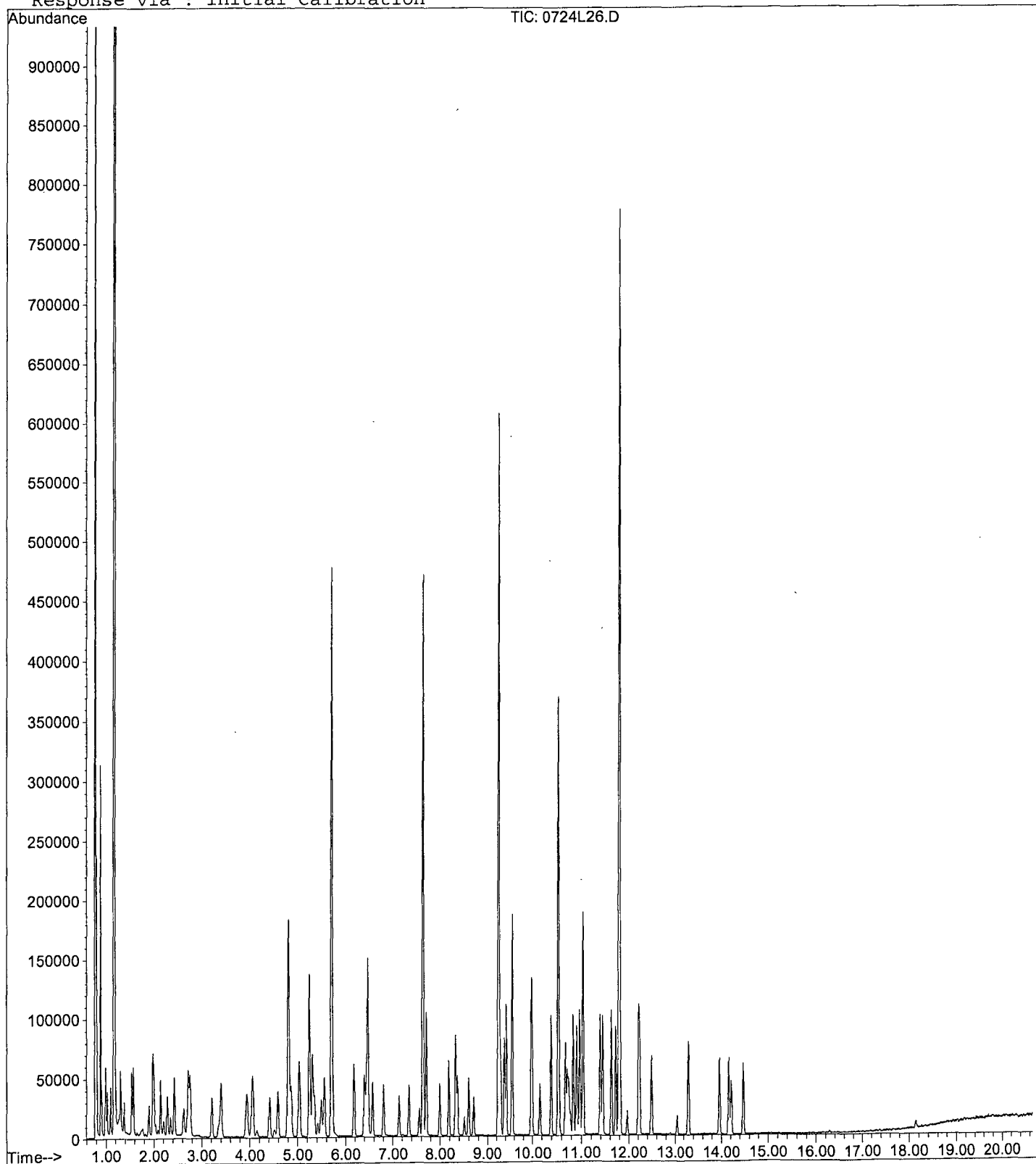
Data File : M:\LOKI\DATA\190724\0724L26.D
Acq On : 24 Jul 19 20:36
Sample : SS 10ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 15
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:24 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L27.D
 Acq On : 24 Jul 19 21:04
 Sample : SS 30ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 16
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 25 10:24 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:13:04 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	250176	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	234688	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	117704	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	108036	24.3804	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.520%	
44) 1,2-DCA-D4(S)	5.25	65	108295	23.8021	ppb	0.00
Spiked Amount	25.000		Recovery	=	95.208%	
65) Toluene-D8(S)	7.63	98	321376	22.5380	ppb	0.00
Spiked Amount	25.000		Recovery	=	90.152%	
73) 4-Bromofluorobenzene(S)	10.54	95	104779	21.2524	ppb	0.00
Spiked Amount	25.000		Recovery	=	85.008%	
Target Compounds						
56) 2-Chloroethyl vinyl ether	7.22	63	1162	19.7731	ppb	Qvalue # 89

Quantitation report

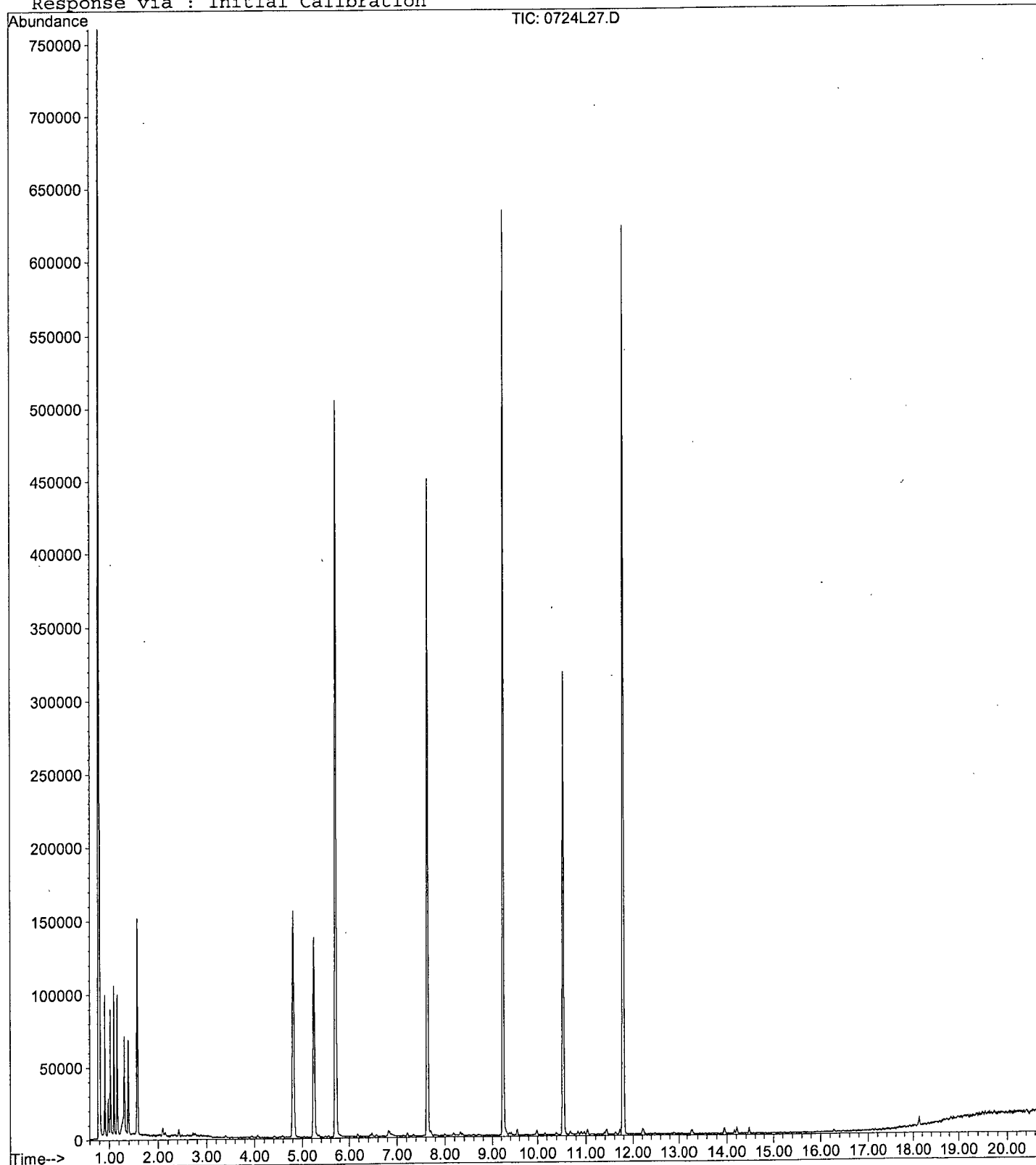
Data File : M:\LOKI\DATA\190724\0724L27.D
Acq On : 24 Jul 19 21:04
Sample : SS 30ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 16
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 25 10:24 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:13:04 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 07/31/19

Matrix: _____

Instrument: Loki

Initial Cal. Date: 07/24/19

Data File: 0730L46.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	TML	Dichlorodifluoromethane	0.0658	0.0607	7.8	TML	0.25
3	TM	Freon 114	0.1781	0.1251	30	TM	* NT
4	TM**L	Chloromethane	0.2185	0.2252	3.1	TM**L	24 * NT
5	TM*	Vinyl chloride	0.2145	0.2031	5.3	TM*	
6	TML	Bromomethane	0.1588	0.1618	1.9	TML	29 * NT
7	TML	Chloroethane	0.1451	0.1116	23	TML	14
8	TM	Dichlorofluoromethane	0.3604	0.2678	26	TM	* NT
9	TM	Trichlorofluoromethane	0.2355	0.1781	24	TM	* NT
10	TM	Acrolein	0.0129	0.0110	15	TM	
11	TML	Acetone	0.1507	0.0706	53	TML	26 * NT
12	TM	Freon-113	0.2038	0.1358	33	TM	* NT
13	TM*	1,1-DCE	0.1989	0.1624	18	TM*	
14	TML	t-Butanol	0.0231	0.0207	10	TML	0.53
15	TML	2-Propanol	0.0150	0.0004	98	TML	100 * NT
16	TM	Acetonitrile	0.0276	0.0295	6.8	TM	
17	TML	Methyl Acetate	0.1950	0.1448	26	TML	19
18	TMQ	Iodomethane	0.0797	0.0524	34	TMQ	32 * NT
19	TM	Acrylonitrile	0.0910	0.0758	17	TM	
20	TM	Methylene chloride	0.2362	0.1990	16	TM	
21	TM	Carbon disulfide	0.5632	0.3982	29	TM	* NT
22	TM	Methyl t-butyl ether (MtBE)	0.5880	0.4611	22	TM	* NT
23	TM	Trans-1,2-DCE	0.2206	0.1894	14	TM	
24	TM	Diisopropyl Ether	0.4569	0.4325	5.3	TM	
25	TM**	2,2-Dichloro-1,1,1-trifluoroethane	0.0000	0.0002	0.00	TM**	
26	TM**	1,1-DCA	0.3596	0.3161	12	TM**	
27	TM	Vinyl Acetate	0.4569	0.4325	5.3	TM	
28	TM	Ethyl tert Butyl Ether	0.4073	0.3771	7.4	TM	
29	TM	MEK (2-Butanone)	0.0322	0.0327	1.7	TM	
30	TM	Cis-1,2-DCE	0.2357	0.1988	16	TM	
31	TM	2,2-Dichloropropane	0.2660	0.1750	34	TM	* NT
32	TM	3-Methylpentane	0.0000	0.0964	0.00	TM	
33	TM*	Chloroform	0.3867	0.3318	14	TM*	
34	TM	Bromochloromethane	0.1333	0.1221	8.4	TM	
35	S	Dibromofluoromethane(S)	0.4428	0.3818	14	S	
36	TM	1,1,1-TCA	0.3239	0.2676	17	TM	
37	TM	Cyclohexane	0.1164	0.1055	9.3	TM	
38	TM	1,1-Dichloropropene	0.2169	0.2066	4.8	TM	
39	TM	2,2,4-Trimethylpentane	0.3618	0.2850	21	TM	* NT
40	S	1,2-DCA-D4(S)	0.4547	0.3639	20	S	

Average

18.0

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 07/31/19

Matrix: 0

Instrument: Loki

Cal. Date: 07/24/19

Data File: 0730L46.D

		Compound	MEAN	CCRF	%D	%Drift	
41	TM	Carbon Tetrachloride	0.3106	0.2487	20	TM	
42	TM	Tert Amyl Methyl Ether	0.4237	0.3617	15	TM	
43	TM	Methylcyclopentane	0.0000	0.0311	0.00	TM	
44	TM	1,2-DCA	0.2881	0.2460	15	TM	
45	TM	Benzene	0.7219	0.7163	0.78	TM	
46	TM	TCE	0.2429	0.2303	5.2	TM	
47	TM	2-Pentanone	0.1149	0.1414	23	TM	* NT
48	TM*	1,2-Dichloropropane	0.1924	0.1853	3.7	TM*	
49	TM	Bromodichloromethane	0.2967	0.2665	10	TM	
50	TM	Methyl Cyclohexane	0.2139	0.1695	21	TM	* NT
51	TM	Dibromomethane	0.1454	0.1216	16	TM	
52	TML	2-Chloroethyl vinyl ether	0.0055	0.0037	32	TML	36 * NT
53	TM	MIBK (methyl isobutyl ketone)	0.1498	0.1637	9.3	TM	
54	TM	1-Bromo-2-chloroethane	0.2732	0.2443	11	TM	
55	TM	Cis-1,3-Dichloropropene	0.2839	0.2597	8.5	TM	
56	TM*	Toluene	0.7820	0.7844	0.30	TM*	
57	TM	Trans-1,3-Dichloropropene	0.2497	0.2361	5.5	TM	
58	TM	1,1,2-TCA	0.1716	0.1592	7.2	TM	
59	TM	2-Hexanone	0.0886	0.0972	9.6	TM	
60	I	Chlorobenzene-D5 (IS)	ISTD			I	
61	S	Toluene-D8(S)	1.519	1.483	2.3	S	
62	TM	1,2-EDB	0.2298	0.2231	2.9	TM	
63	TM	Tetrachloroethene	0.3408	0.2743	20	TM	
64	TM	1-Chlorohexane	0.2163	0.1812	16	TM	
65	TM	1,1,1,2-Tetrachloroethane	0.2949	0.2488	16	TM	
66	TM	m&p-Xylene	0.6605	0.6634	0.44	TM	
67	TML	o-Xylene	0.3115	0.3372	8.2	TML	3.4
68	TML	Styrene	0.5372	0.5700	6.1	TML	6.2
69	S	4-Bromofluorobenzene(S)	0.5252	0.5498	4.7	S	
70	TM	1,3-Dichloropropane	0.3570	0.3484	2.4	TM	
71	TM	Dibromochloromethane	0.2966	0.2525	15	TM	
72	TM**	Chlorobenzene	0.6441	0.6262	2.8	TM**	
73	TM*	Ethylbenzene	0.8602	0.8700	1.1	TM*	
74	TM**	Bromoform	0.2439	0.1978	19	TM**	
75	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
76	TM	Isopropylbenzene	0.7829	0.8632	10	TM	
77	TM**	1,1,2,2-Tetrachloroethane	0.5203	0.4869	6.4	TM**	
78	TM	1,2,3-Trichloropropane	0.1831	0.1835	0.22	TM	
79	TML	t-1,4-Dichloro-2-Butene	0.0571	0.0521	8.7	TML	23 * NT
80	TM	Bromobenzene	0.5255	0.5114	2.7	TM	

Average

9.4

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 07/31/19

Matrix: 0

Instrument: Loki

Cal. Date: 07/24/19

Data File: 0730L46.D

		Compound	MEAN	CCRF	%D	%Drift	
81	TM	n-Propylbenzene	1.547	1.755	13	TM	
82	TM	4-Ethyltoluene	1.381	1.323	4.2	TM	
83	TM	2-Chlorotoluene	0.5883	0.6481	10	TM	
84	TM	1,3,5-Trimethylbenzene	1.225	1.351	10	TM	
85	TM	4-Chlorotoluene	0.2353	0.2395	1.8	TM	
86	TML	Tert-Butylbenzene	1.075	1.284	19	TML	10
87	TM	1,2,4-Trimethylbenzene	1.155	1.305	13	TM	
88	TM	Sec-Butylbenzene	1.400	1.588	13	TM	
89	TM	p-Isopropyltoluene	1.290	1.416	9.8	TM	
90	TML	Benzyl Chloride	0.3786	0.2603	31	TML	21 * NT
91	TM	1,3-DCB	0.9008	0.9057	0.54	TM	
92	TM	1,4-DCB	0.9807	0.9689	1.2	TM	
93	TM	n-Butylbenzene	0.9508	1.041	9.5	TM	
94	TM	1,2-DCB	0.9114	0.8773	3.7	TM	
95	TM	Hexachloroethane	0.3132	0.2852	8.9	TM	
96	TML	1,2-Dibromo-3-chloropropane	0.0944	0.0871	7.7	TML	4.7
97	TML	1,2,4-Trichlorobenzene	0.4994	0.5087	1.9	TML	6.3
98	TML	Hexachlorobutadiene	0.1369	0.0941	31	TML	22 * NT
99	TML	Naphthalene	0.9257	1.090	18	TML	6.7
100	TM	1,2,3-Trichlorobenzene	0.5201	0.4910	5.6	TM	
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							

Average

10.6

Data File : M:\LOKI\DATA\190730\0730L46.D
 Acq On : 31 Jul 19 4:23
 Sample : 190730B CCV 10ug/L
 Misc : IS&S 7/15/19,6/5/19

Vial: 40
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 31 9:12 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	300416	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	269312	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	142912	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	114706	21.5567	ppb	0.00
Spiked Amount	25.000		Recovery	=	86.228%	
44) 1,2-DCA-D4 (S)	5.24	65	109311	20.0075	ppb	0.00
Spiked Amount	25.000		Recovery	=	80.032%	
65) Toluene-D8 (S)	7.63	98	399521	24.4162	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.664%	
73) 4-Bromofluorobenzene(S)	10.53	95	148058	26.1698	ppb	0.00
Spiked Amount	25.000		Recovery	=	104.680%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	0.91	87	7291	9.9749	ppb	97
4) Freon 114	0.99	85	15031	7.0220	ppb	97
5) Chloromethane	1.02	50	27065	12.3806	ppb	97
6) Vinyl chloride	1.09	62	24405	9.4676	ppb	95
8) Bromomethane	1.30	94	19448	12.9112	ppb	96
9) Chloroethane	1.38	64	13413	8.5963	ppb	97
10) Dichlorofluoromethane	1.54	67	32185	7.4321	ppb	98
11) Trichlorofluoromethane	1.57	103	21398	7.5629	ppb	93
13) Acrolein	1.90	56	16453	106.5248	ppb	96
14) Acetone	2.04	43	8482	7.3949	ppb	# 82
15) Freon-113	2.00	101	16324	6.6642	ppb	90
16) 1,1-DCE	1.98	96	19517	8.1662	ppb	94
17) t-Butanol	2.62	59	31091	124.3397	ppb	99
18) 2-Propanol	2.20	45	442	0.2415	ppb	# 45
19) Acetonitrile	2.28	41	44320	133.5237	ppb	96
20) Methyl Acetate	2.35	43	17400	8.1147	ppb	98
21) Iodomethane	2.09	142	6291	6.7562	ppb	93
22) Acrylonitrile	2.69	53	9107	8.3261	ppb	91
23) Methylene chloride	2.43	84	23919	8.4272	ppb	95
24) Carbon disulfide	2.14	76	47851	7.0704	ppb	99
25) Methyl t-butyl ether (MtBE)	2.75	73	55406	7.8412	ppb	99
26) Trans-1,2-DCE	2.72	96	22760	8.5866	ppb	90
27) Diisopropyl Ether	3.39	45	51967	9.4653	ppb	97
29) 1,1-DCA	3.21	63	37986	8.7898	ppb	96
30) Vinyl Acetate	3.39	45	51967	9.4653	ppb	97
31) Ethyl tert Butyl Ether	3.93	59	45314	9.2585	ppb	98
32) MEK (2-Butanone)	4.15	43	3935	10.1650	ppb	95
33) Cis-1,2-DCE	4.06	96	23889	8.4353	ppb	88
34) 2,2-Dichloropropane	4.05	77	21035	6.5808	ppb	# 89
37) Chloroform	4.58	83	39866	8.5784	ppb	91
38) Bromochloromethane	4.42	128	14678	9.1645	ppb	93
40) 1,1,1-TCA	4.80	97	32152	8.2603	ppb	97
41) Cyclohexane	4.86	41	12681	9.0699	ppb	84
42) 1,1-Dichloropropene	5.04	75	24828	9.5247	ppb	96
43) 2,2,4-Trimethylpentane	5.49	57	34245	7.8759	ppb	# 60
45) Carbon Tetrachloride	5.02	117	29890	8.0085	ppb	98
46) Tert Amyl Methyl Ether	5.55	73	43459	8.5352	ppb	92
48) 1,2-DCA	5.35	62	29561	8.5378	ppb	93
49) Benzene	5.31	78	86076	9.9222	ppb	98

(#) = qualifier out of range (m) = manual integration
 0730L46.D L0724W.M Thu Aug 01 09:13:43 2019

Data File : M:\LOKI\DATA\190730\0730L46.D
 Acq On : 31 Jul 19 4:23
 Sample : 190730B CCV 10ug/L
 Misc : IS&S 7/15/19,6/5/19

Vial: 40
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 31 9:12 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) TCE	6.17	130	27677	9.4806	ppb	90
51) 2-Pentanone	6.46	43	212345	153.8271	ppb	94
52) 1,2-Dichloropropane	6.44	63	22261	9.6295	ppb	100
53) Bromodichloromethane	6.80	83	32025	8.9824	ppb	94
54) Methyl Cyclohexane	6.40	83	20368	7.9257	ppb	98
55) Dibromomethane	6.57	93	14608	8.3618	ppb	94
56) 2-Chloroethyl vinyl ether	7.22	63	1334	19.0934	ppb	# 93
57) MIBK (methyl isobutyl ket	7.56	43	19676	10.9341	ppb	# 95
58) 1-Bromo-2-chloroethane	7.13	63	29352	8.9406	ppb	95
59) Cis-1,3-Dichloropropene	7.34	75	31210	9.1471	ppb	98
60) Toluene	7.71	91	94259	10.0302	ppb	99
61) Trans-1,3-Dichloropropene	7.99	75	28370	9.4542	ppb	93
62) 1,1,2-TCA	8.18	83	19131	9.2795	ppb	99
63) 2-Hexanone	8.51	43	11677	10.9644	ppb	# 91
66) 1,2-EDB	8.70	107	24032	9.7091	ppb	# 94
67) Tetrachloroethene	8.32	166	29548	8.0496	ppb	87
68) 1-Chlorohexane	9.29	91	19518	8.3765	ppb	85
69) 1,1,1,2-Tetrachloroethane	9.37	131	26800	8.4367	ppb	96
70) m&p-Xylene	9.55	91	142939	20.0878	ppb	96
71) o-Xylene	9.98	106	36321	9.6571	ppb	87
72) Styrene	9.99	104	61404	9.3811	ppb	94
74) 1,3-Dichloropropane	8.36	76	37535	9.7592	ppb	99
75) Dibromochloromethane	8.60	129	27199	8.5115	ppb	84
76) Chlorobenzene	9.26	112	67458	9.7224	ppb	98
77) Ethylbenzene	9.41	91	93720	10.1137	ppb	96
78) Bromoform	10.16	173	21308	8.1107	ppb	87
80) Isopropylbenzene	10.39	105	49344	11.0262	ppb	97
81) 1,1,2,2-Tetrachloroethane	10.71	83	27834	9.3576	ppb	98
82) 1,2,3-Trichloropropane	10.74	110	10491	10.0225	ppb	96
83) t-1,4-Dichloro-2-Butene	10.78	53	2976	7.6565	ppb	# 73
84) Bromobenzene	10.68	156	29234	9.7322	ppb	95
85) n-Propylbenzene	10.84	91	100347	11.3454	ppb	97
86) 4-Ethyltoluene	10.97	105	75647	9.5844	ppb	99
87) 2-Chlorotoluene	10.90	91	37051	11.0163	ppb	94
88) 1,3,5-Trimethylbenzene	11.04	105	77229	11.0249	ppb	98
89) 4-Chlorotoluene	11.03	126	13692	10.1797	ppb	99
90) Tert-Butylbenzene	11.38	119	73402	11.0182	ppb	98
91) 1,2,4-Trimethylbenzene	11.44	105	74614	11.3054	ppb	97
92) Sec-Butylbenzene	11.62	105	90797	11.3423	ppb	97
93) p-Isopropyltoluene	11.79	119	80952	10.9787	ppb	98
94) Benzyl Chloride	11.96	91	14882	7.8670	ppb	98
95) 1,3-DCB	11.71	146	51772	10.0540	ppb	97
96) 1,4-DCB	11.81	146	55388	9.8803	ppb	91
97) n-Butylbenzene	12.23	91	59513	10.9491	ppb	93
98) 1,2-DCB	12.21	146	50150	9.6260	ppb	98
99) Hexachloroethane	12.48	201	16306	9.1063	ppb	91
100) 1,2-Dibromo-3-chloropropan	13.04	75	4980	9.5350	ppb	94
101) 1,2,4-Trichlorobenzene	13.95	180	29079	9.3722	ppb	95
102) Hexachlorobutadiene	14.16	223	5381	7.7989	ppb	# 83
103) Naphthalene	14.21	128	62321	10.6710	ppb	100
104) 1,2,3-Trichlorobenzene	14.47	180	28068	9.4401	ppb	96

(#) = qualifier out of range (m) = manual integration
 0730L46.D L0724W.M Thu Aug 01 09:13:44 2019

Quantitation Report

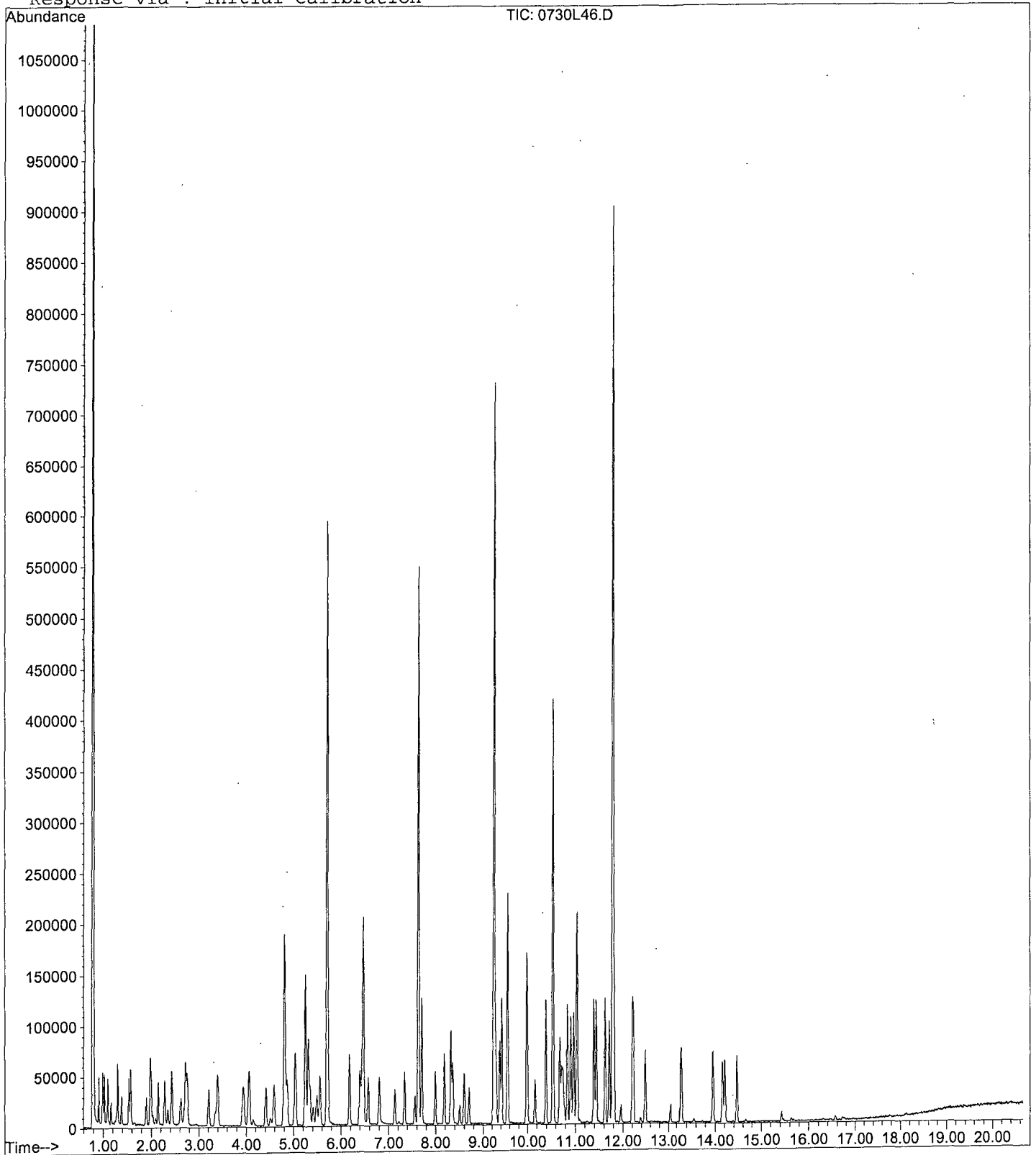
Data File : M:\LOKI\DATA\190730\0730L46.D
Acq On : 31 Jul 19 4:23
Sample : 190730B CCV 10ug/L
Misc : IS&S 7/15/19,6/5/19

Vial: 40
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 31 9:12 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/31/19
Instrument: Loki
Initial Cal. Date: 07/24/19
Data File: 0730L57.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	TML	Dichlorodifluoromethane	0.0658	0.0580	12	TML	5.0
3	TM	Freon 114	0.1781	0.1394	22	TM	
4	TM**L	Chloromethane	0.2185	0.1915	12	TM**L	2.6
5	TM*	Vinyl chloride	0.2145	0.2059	4.0	TM*	
6	TM	2-Chloro-1,1,1-trifluoroethane	2.794	0.0001	100	TM	* NT
7	TML	Bromomethane	0.1588	0.1575	0.87	TML	26
8	TML	Chloroethane	0.1451	0.1040	28	TML	21
9	TM	Dichlorofluoromethane	0.3604	0.3020	16	TM	
10	TM	Trichlorofluoromethane	0.2355	0.1935	18	TM	
11	TM	Diethyl ether	0.0000	0.0002	0.00	TM	
12	TM	Acrolein	0.0129	0.0113	12	TM	
13	TML	Acetone	0.1507	0.0992	34	TML	23
14	TM	Freon-113	0.2038	0.1621	20	TM	
15	TM*	1,1-DCE	0.1989	0.1911	3.9	TM*	
16	TML	t-Butanol	0.0231	0.0203	12	TML	2.7
17	TML	2-Propanol	0.0150	0.0004	98	TML	100 * NT
18	TM	Acetonitrile	0.0276	0.0270	2.3	TM	
19	TML	Methyl Acetate	0.1950	0.1615	17	TML	7.6
20	TMQ	Iodomethane	0.0797	0.0412	48	TMQ	43
21	TM	Acrylonitrile	0.0910	0.0870	4.4	TM	
22	TM	Methylene chloride	0.2362	0.2256	4.5	TM	
23	TM	Carbon disulfide	0.5632	0.4604	18	TM	
24	TM	Methyl t-butyl ether (MtBE)	0.5880	0.4851	18	TM	
25	TM	Trans-1,2-DCE	0.2206	0.2131	3.4	TM	
26	TM	Diisopropyl Ether	0.4569	0.4558	0.23	TM	
27	TM**	1,1-DCA	0.3596	0.3643	1.3	TM**	
28	TM	Vinyl Acetate	0.4569	0.4558	0.23	TM	
29	TM	Ethyl tert Butyl Ether	0.4073	0.3878	4.8	TM	
30	TM	MEK (2-Butanone)	0.0322	0.0357	11	TM	
31	TM	Cis-1,2-DCE	0.2357	0.2239	5.0	TM	
32	TM	2,2-Dichloropropane	0.2660	0.1922	28	TM	
33	TM	3-Methylpentane	0.0000	0.1050	0.00	TM	
34	TM*	Chloroform	0.3867	0.3764	2.7	TM*	
35	TM	Bromochloromethane	0.1333	0.1402	5.2	TM	
36	S	Dibromofluoromethane(S)	0.4428	0.4025	9.1	S	
37	TM	1,1,1-TCA	0.3239	0.3205	1.0	TM	
38	TM	Cyclohexane	0.1164	0.1136	2.3	TM	
39	TM	1,1-Dichloropropene	0.2169	0.2205	1.6	TM	
40	TM	2,2,4-Trimethylpentane	0.3618	0.2803	23	TM	

Average

15.5

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 07/31/19

Matrix: 0

Instrument: Loki

Cal. Date: 07/24/19

Data File: 0730L57.D

		Compound	MEAN	CCRF	%D	%Drift
41	S	1,2-DCA-D4(S)	0.4547	0.4252	6.5	S
42	TM	Carbon Tetrachloride	0.3106	0.2992	3.7	TM
43	TM	Tert Amyl Methyl Ether	0.4237	0.3707	13	TM
44	TM	Methylcyclopentane	0.0000	0.0350	0.00	TM
45	TM	1,2-DCA	0.2881	0.3025	5.0	TM
46	TM	Benzene	0.7219	0.7527	4.3	TM
47	TM	TCE	0.2429	0.2643	8.8	TM
48	TM	2-Pentanone	0.1149	0.1286	12	TM
49	TM*	1,2-Dichloropropane	0.1924	0.2024	5.2	TM*
50	TM	Bromodichloromethane	0.2967	0.3006	1.3	TM
51	TM	Methyl Cyclohexane	0.2139	0.1922	10	TM
52	TM	Dibromomethane	0.1454	0.1494	2.8	TM
53	TML	2-Chloroethyl vinyl ether	0.0055	0.0040	27	TML 33
54	TM	MIBK (methyl isobutyl ketone)	0.1498	0.1745	17	TM
55	TM	1-Bromo-2-chloroethane	0.2732	0.2607	4.6	TM
56	TM	Cis-1,3-Dichloropropene	0.2839	0.2729	3.9	TM
57	TM*	Toluene	0.7820	0.8253	5.5	TM*
58	TM	Trans-1,3-Dichloropropene	0.2497	0.2438	2.4	TM
59	TM	1,1,2-TCA	0.1716	0.1750	2.0	TM
60	TM	2-Hexanone	0.0886	0.1011	14	TM
61	I	Chlorobenzene-D5 (IS)	ISTD			I
62	S	Toluene-D8(S)	1.519	1.520	0.08	S
63	TM	1,2-EDB	0.2298	0.2511	9.3	TM
64	TM	Tetrachloroethene	0.3408	0.3265	4.2	TM
65	TM	1-Chlorohexane	0.2163	0.1814	16	TM
66	TM	1,1,1,2-Tetrachloroethane	0.2949	0.2896	1.8	TM
67	TM	m&p-Xylene	0.6605	0.6898	4.4	TM
68	TML	o-Xylene	0.3115	0.3268	4.9	TML 6.1
69	TML	Styrene	0.5372	0.5595	4.2	TML 7.7
70	S	4-Bromofluorobenzene(S)	0.5252	0.5613	6.9	S
71	TM	1,3-Dichloropropane	0.3570	0.3757	5.2	TM
72	TM	Dibromochloromethane	0.2966	0.3010	1.5	TM
73	TM**	Chlorobenzene	0.6441	0.6878	6.8	TM**
74	TM*	Ethylbenzene	0.8602	0.9030	5.0	TM*
75	TM**	Bromoform	0.2439	0.2301	5.6	TM**
76	I	1,4-Dichlorobenzene-D (IS)	ISTD			I
77	TM	Isopropylbenzene	0.7829	0.8453	8.0	TM
78	TM**	1,1,2,2-Tetrachloroethane	0.5203	0.4762	8.5	TM**
79	TM	1,2,3-Trichloropropane	0.1831	0.2070	13	TM
80	TML	t-1,4-Dichloro-2-Butene	0.0571	0.0571	0.01	TML 17

Average

6.7

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 07/31/19
Instrument: Loki
Cal. Date: 07/24/19
Data File: 0730L57.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Bromobenzene	0.5255	0.5556	5.7	TM
82	TM	n-Propylbenzene	1.547	1.687	9.1	TM
83	TM	4-Ethyltoluene	1.381	1.260	8.7	TM
84	TM	2-Chlorotoluene	0.5883	0.6378	8.4	TM
85	TM	1,3,5-Trimethylbenzene	1.225	1.304	6.4	TM
86	TM	4-Chlorotoluene	0.2353	0.2551	8.4	TM
87	TML	Tert-Butylbenzene	1.075	1.115	3.7	TML 3.5
88	TM	1,2,4-Trimethylbenzene	1.155	1.197	3.6	TM
89	TM	Sec-Butylbenzene	1.400	1.528	9.1	TM
90	TM	p-Isopropyltoluene	1.290	1.394	8.1	TM
91	TML	Benzyl Chloride	0.3786	0.1850	51	TML 43
92	TM	1,3-DCB	0.9008	0.9587	6.4	TM
93	TM	1,4-DCB	0.9807	0.9810	0.04	TM
94	TM	n-Butylbenzene	0.9508	1.001	5.3	TM
95	TM	1,2-DCB	0.9114	0.9079	0.38	TM
96	TM	Hexachloroethane	0.3132	0.2846	9.2	TM
97	TML	1,2-Dibromo-3-chloropropane	0.0944	0.0916	3.0	TML 0.87
98	TML	1,2,4-Trichlorobenzene	0.4994	0.4571	8.5	TML 15
99	TML	Hexachlorobutadiene	0.1369	0.1097	20	TML 8.0
100	TML	Naphthalene	0.9257	0.8363	9.7	TML 14
101	TM	1,2,3-Trichlorobenzene	0.5201	0.4689	9.8	TM
102						
103						
104						
105						
106						
107						
108						
109						
110						
111						
112						
113						
114						
115						
116						
117						
118						
119						
120						
Average					9.3	

Data File : M:\LOKI\DATA\190730\0730L57.D
 Acq On : 31 Jul 19 9:40
 Sample : Ending CCV 10ug/L 07/30/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 51
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Aug 1 9:14 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	233664	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	206400	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	118392	25.0000	ppb	0.00

System Monitoring Compounds

39) Dibromofluoromethane(S)	4.81	111	94039	22.7214	ppb	0.00
Spiked Amount	25.000		Recovery	=	90.884%	
44) 1,2-DCA-D4(S)	5.24	65	99357	23.3808	ppb	0.00
Spiked Amount	25.000		Recovery	=	93.524%	
65) Toluene-D8(S)	7.63	98	313771	25.0205	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.084%	
73) 4-Bromofluorobenzene(S)	10.54	95	115851	26.7187	ppb	0.00
Spiked Amount	25.000		Recovery	=	106.876%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	0.91	87	5422	9.4956	ppb	81
4) Freon 114	0.99	85	13028	7.8250	ppb	96
5) Chloromethane	1.02	50	17901	10.2557	ppb	95
6) Vinyl chloride	1.09	62	19249	9.6007	ppb	99
8) Bromomethane	1.30	94	14717	12.5549	ppb	95
9) Chloroethane	1.38	64	9720	7.8552	ppb	88
10) Dichlorofluoromethane	1.54	67	28228	8.3805	ppb	99
11) Trichlorofluoromethane	1.57	103	18086	8.2184	ppb	91
13) Acrolein	1.90	56	13201	109.8863	ppb	84
14) Acetone	2.04	43	9275	12.2616	ppb	90
15) Freon-113	2.00	101	15153	7.9533	ppb	# 94
16) 1,1-DCE	1.98	96	17861	9.6082	ppb	97
17) t-Butanol	2.62	59	23688	121.6428	ppb	97
18) 2-Propanol	2.20	45	337	0.1844	ppb	# 37
19) Acetonitrile	2.28	41	31543	122.1780	ppb	99
20) Methyl Acetate	2.35	43	15093	9.2396	ppb	98
21) Iodomethane	2.09	142	3850	5.7193	ppb	# 85
22) Acrylonitrile	2.69	53	8131	9.5575	ppb	97
23) Methylene chloride	2.43	84	21084	9.5505	ppb	99
24) Carbon disulfide	2.14	76	43028	8.1740	ppb	98
25) Methyl t-butyl ether (MtBE)	2.75	73	45337	8.2492	ppb	96
26) Trans-1,2-DCE	2.72	96	19913	9.6587	ppb	88
27) Diisopropyl Ether	3.40	45	42605	9.9769	ppb	92
29) 1,1-DCA	3.21	63	34054	10.1311	ppb	96
30) Vinyl Acetate	3.40	45	42605	9.9769	ppb	92
31) Ethyl tert Butyl Ether	3.94	59	36250	9.5224	ppb	99
32) MEK (2-Butanone)	4.15	43	3339	11.0895	ppb	96
33) Cis-1,2-DCE	4.07	96	20929	9.5013	ppb	90
34) 2,2-Dichloropropane	4.04	77	17963	7.2251	ppb	94
37) Chloroform	4.59	83	35181	9.7329	ppb	95
38) Bromochloromethane	4.42	128	13103	10.5182	ppb	95
40) 1,1,1-TCA	4.80	97	29957	9.8950	ppb	98
41) Cyclohexane	4.86	41	10622	9.7676	ppb	68
42) 1,1-Dichloropropene	5.04	75	20608	10.1642	ppb	93
43) 2,2,4-Trimethylpentane	5.49	57	26203	7.7479	ppb	98
45) Carbon Tetrachloride	5.03	117	27969	9.6345	ppb	99
46) Tert Amyl Methyl Ether	5.55	73	34644	8.7477	ppb	94
48) 1,2-DCA	5.35	62	28277	10.5001	ppb	95
49) Benzene	5.31	78	70350	10.4261	ppb	98

(#) = qualifier out of range (m) = manual integration

Data File : M:\LOKI\DATA\190730\0730L57.D
 Acq On : 31 Jul 19 9:40
 Sample : Ending CCV 10ug/L 07/30/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 51
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Aug 1 9:14 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) TCE	6.18	130	24706	10.8805	ppb	94
51) 2-Pentanone	6.46	43	150223	139.9131	ppb	96
52) 1,2-Dichloropropane	6.43	63	18922	10.5234	ppb #	93
53) Bromodichloromethane	6.80	83	28096	10.1317	ppb	94
54) Methyl Cyclohexane	6.40	83	17965	8.9877	ppb	88
55) Dibromomethane	6.57	93	13966	10.2780	ppb	91
56) 2-Chloroethyl vinyl ether	7.21	63	1114	20.1819	ppb #	62
57) MIBK (methyl isobutyl ket	7.56	43	16313	11.6550	ppb #	93
58) 1-Bromo-2-chloroethane	7.13	63	24369	9.5432	ppb	97
59) Cis-1,3-Dichloropropene	7.34	75	25510	9.6124	ppb	96
60) Toluene	7.71	91	77135	10.5528	ppb	97
61) Trans-1,3-Dichloropropene	7.99	75	22787	9.7630	ppb	97
62) 1,1,2-TCA	8.18	83	16356	10.1999	ppb	96
63) 2-Hexanone	8.51	43	9450	11.4082	ppb #	84
66) 1,2-EDB	8.70	107	20727	10.9262	ppb	84
67) Tetrachloroethene	8.32	166	26959	9.5829	ppb	96
68) 1-Chlorohexane	9.29	91	14980	8.3886	ppb	99
69) 1,1,1,2-Tetrachloroethane	9.37	131	23912	9.8220	ppb	96
70) m&p-Xylene	9.55	91	113902	20.8861	ppb	98
71) o-Xylene	9.97	106	26978	9.3914	ppb	93
72) Styrene	9.99	104	46194	9.2336	ppb	98
74) 1,3-Dichloropropane	8.36	76	31016	10.5223	ppb	96
75) Dibromochloromethane	8.60	129	24849	10.1463	ppb	93
76) Chlorobenzene	9.27	112	56783	10.6784	ppb	100
77) Ethylbenzene	9.41	91	74549	10.4971	ppb	99
78) Bromoform	10.16	173	18998	9.4356	ppb	99
80) Isopropylbenzene	10.39	105	40032	10.7980	ppb	96
81) 1,1,2,2-Tetrachloroethane	10.71	83	22553	9.1525	ppb	98
82) 1,2,3-Trichloropropane	10.74	110	9803	11.3048	ppb	82
83) t-1,4-Dichloro-2-Butene	10.78	53	2702	8.3129	ppb	98
84) Bromobenzene	10.68	156	26311	10.5732	ppb	100
85) n-Propylbenzene	10.84	91	79912	10.9062	ppb	99
86) 4-Ethyltoluene	10.97	105	59669	9.1257	ppb	99
87) 2-Chlorotoluene	10.90	91	30202	10.8398	ppb	99
88) 1,3,5-Trimethylbenzene	11.04	105	61743	10.6397	ppb	93
89) 4-Chlorotoluene	11.03	126	12082	10.8431	ppb	84
90) Tert-Butylbenzene	11.38	119	52788	9.6526	ppb	94
91) 1,2,4-Trimethylbenzene	11.44	105	56667	10.3644	ppb	100
92) Sec-Butylbenzene	11.62	105	72372	10.9131	ppb	98
93) p-Isopropyltoluene	11.79	119	66011	10.8065	ppb	97
94) Benzyl Chloride	11.96	91	8763	5.7215	ppb #	97
95) 1,3-DCB	11.71	146	45400	10.6425	ppb	99
96) 1,4-DCB	11.81	146	46459	10.0039	ppb	97
97) n-Butylbenzene	12.23	91	47404	10.5276	ppb	96
98) 1,2-DCB	12.20	146	42995	9.9618	ppb	89
99) Hexachloroethane	12.48	201	13476	9.0846	ppb	93
100) 1,2-Dibromo-3-chloropropan	13.05	75	4336	10.0867	ppb	96
101) 1,2,4-Trichlorobenzene	13.95	180	21646	8.5069	ppb	94
102) Hexachlorobutadiene	14.16	223	5195	9.1952	ppb	94
103) Naphthalene	14.21	128	39603	8.6485	ppb	99
104) 1,2,3-Trichlorobenzene	14.47	180	22207	9.0157	ppb	97

(#) = qualifier out of range (m) = manual integration
 0730L57.D L0724W.M Thu Aug 01 09:14:45 2019

Quantitation Report

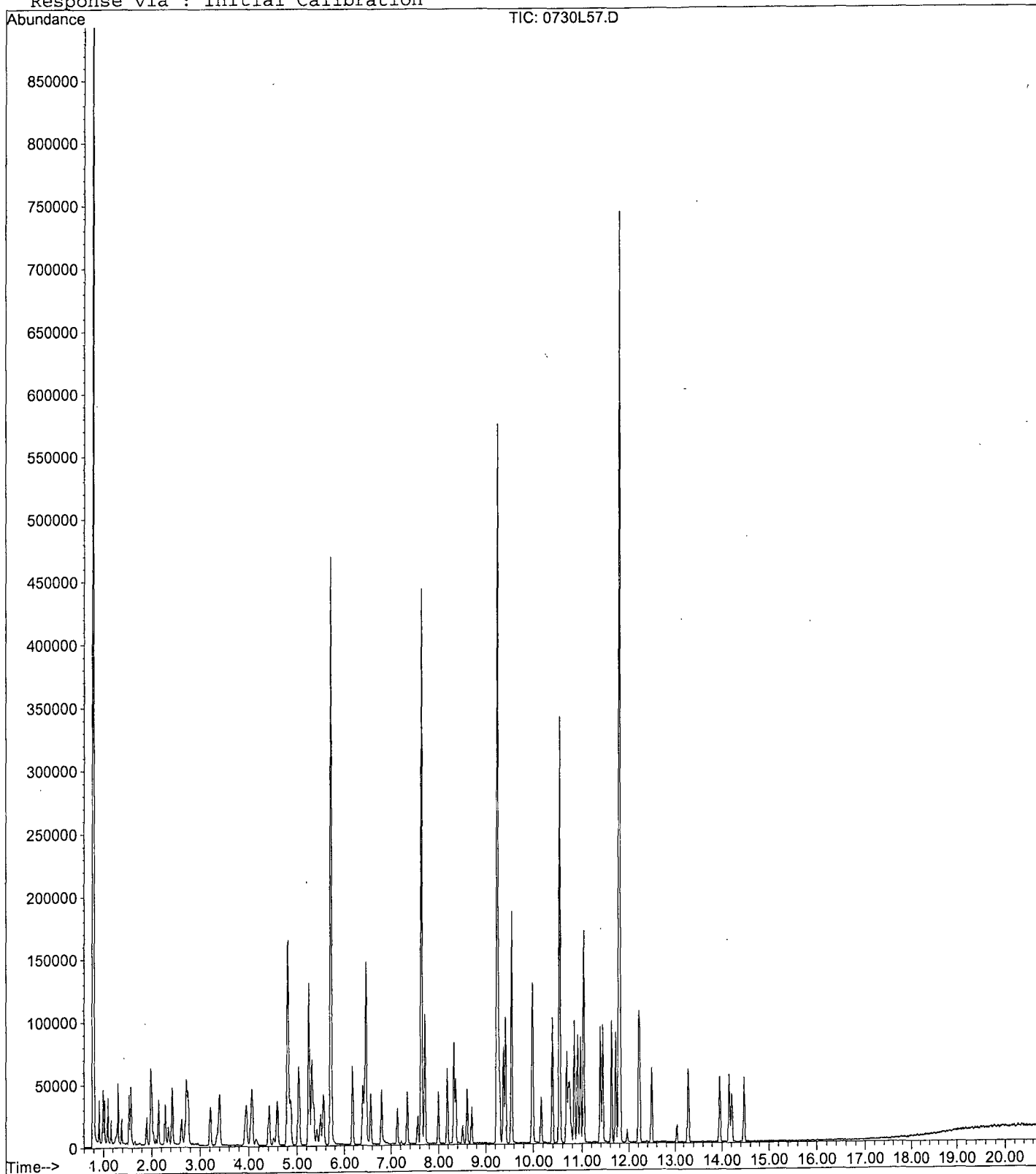
Data File : M:\LOKI\DATA\190730\0730L57.D
Acq On : 31 Jul 19 9:40
Sample : Ending CCV 10ug/L 07/30/19
Misc : IS&S 7/15/19,6/5/19

Vial: 51
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Aug 1 9:14 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



ORGANICS
Raw Data

Data File : M:\LOKI\DATA\190730\0730L53.D Vial: 47
 Acq On : 31 Jul 19 7:45 Operator:
 Sample : AZ95510W01 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Aug 1 9:21 2019 Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	237312	25.00000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	210816	25.00000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	103040	25.00000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	104244	24.79989	ppb	0.00
Spiked Amount	25.000		Recovery	=	99.200%	
44) 1,2-DCA-D4(S)	5.24	65	105275	24.39263	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.572%	
65) Toluene-D8(S)	7.63	98	323264	25.23757	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.952%	
73) 4-Bromofluorobenzene(S)	10.54	95	106338	24.01097	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.044%	

Target Compounds Qvalue

Quantitation Report

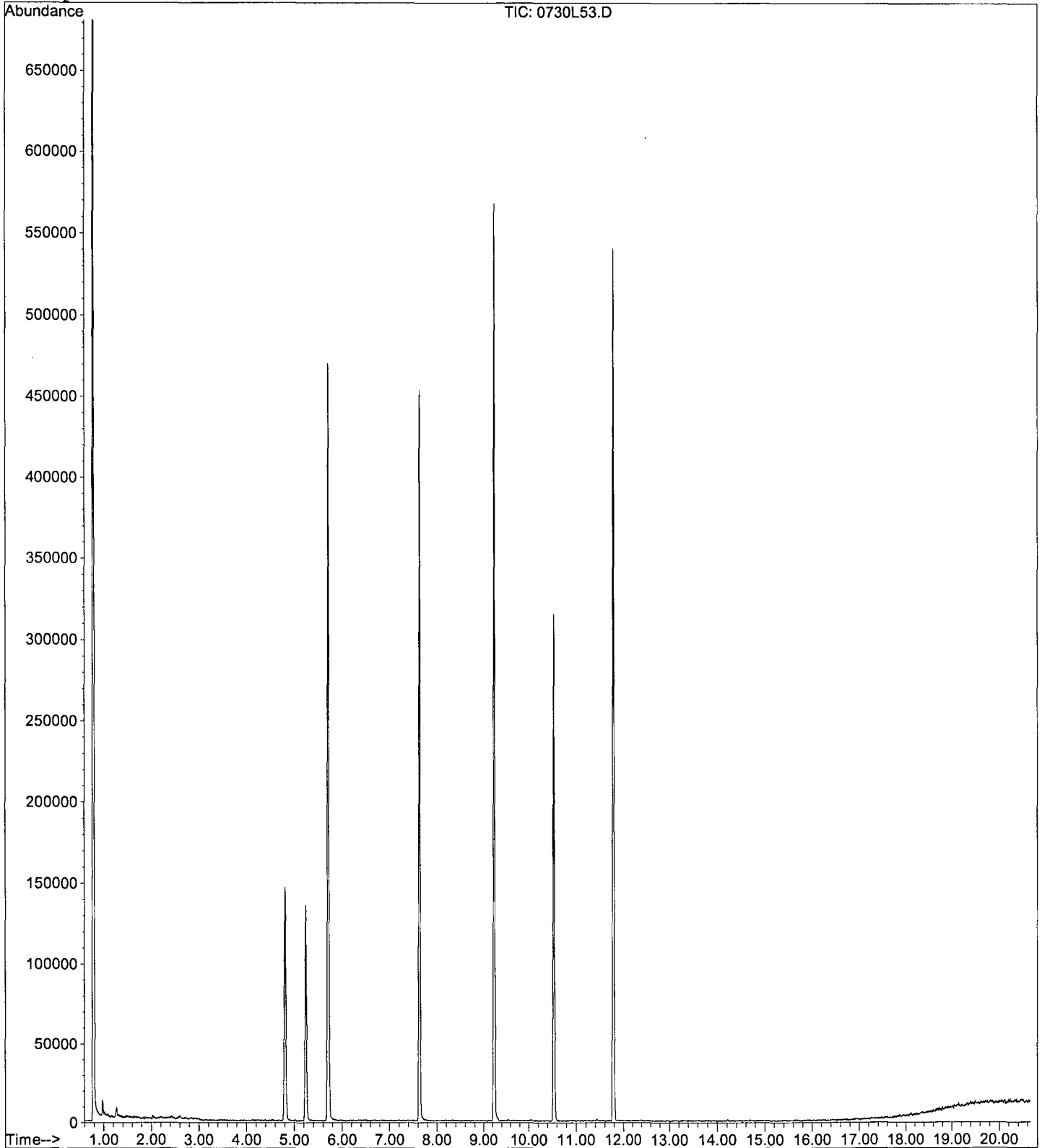
Data File : M:\LOKI\DATA\190730\0730L53.D
Acq On : 31 Jul 19 7:45
Sample : AZ95510W01
Misc : IS&S 7/15/19,6/5/19

Vial: 47
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Aug 1 9:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190730\0730L54.D Vial: 48
 Acq On : 31 Jul 19 8:13 Operator:
 Sample : AZ95511W01 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Aug 1 9:21 2019 Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	232768	25.00000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	202368	25.00000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	101592	25.00000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	99397	24.10840	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.432%	
44) 1,2-DCA-D4(S)	5.24	65	101905	24.07272	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.292%	
65) Toluene-D8(S)	7.63	98	311155	25.30630	ppb	0.00
Spiked Amount	25.000		Recovery	=	101.224%	
73) 4-Bromofluorobenzene(S)	10.53	95	104134	24.49489	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.980%	

Target Compounds Qvalue

Quantitation Report

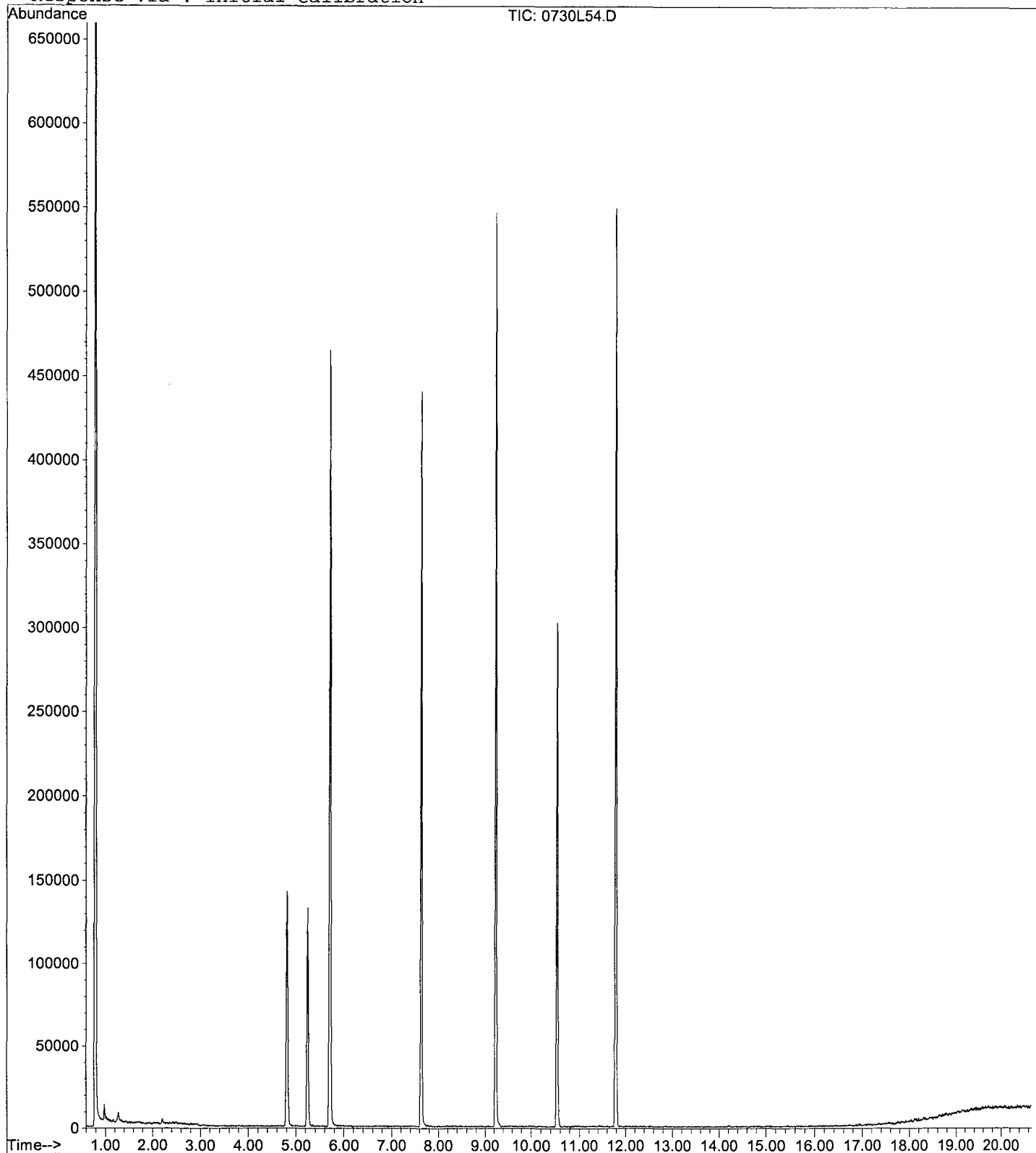
Data File : M:\LOKI\DATA\190730\0730L54.D
Acq On : 31 Jul 19 8:13
Sample : AZ95511W01
Misc : IS&S 7/15/19,6/5/19

Vial: 48
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Aug 1 9:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190730\0730L55.D
 Acq On : 31 Jul 19 8:42
 Sample : AZ95512W01
 Misc : IS&S 7/15/19,6/5/19

Vial: 49
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Aug 1 9:21 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	232320	25.00000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	200064	25.00000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	101736	25.00000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	98272	23.88149	ppb	0.00
Spiked Amount	25.000		Recovery	=	95.524%	
44) 1,2-DCA-D4(S)	5.25	65	98781	23.37975	ppb	0.00
Spiked Amount	25.000		Recovery	=	93.520%	
65) Toluene-D8(S)	7.63	98	297392	24.46550	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.860%	
73) 4-Bromofluorobenzene(S)	10.53	95	100038	23.80240	ppb	0.00
Spiked Amount	25.000		Recovery	=	95.208%	

Target Compounds

Qvalue

Quantitation Report

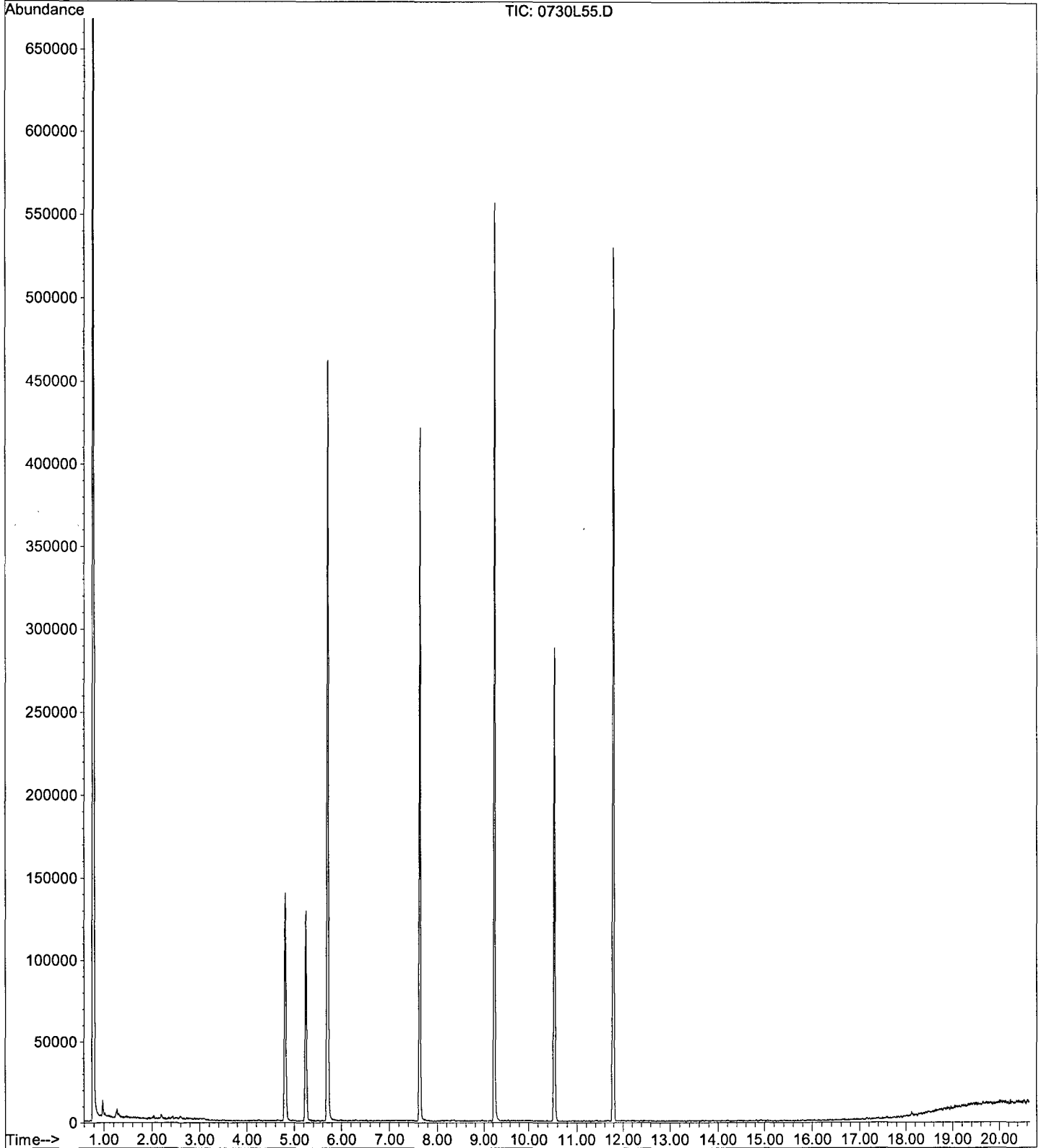
Data File : M:\LOKI\DATA\190730\0730L55.D
Acq On : 31 Jul 19 8:42
Sample : AZ95512W01
Misc : IS&S 7/15/19,6/5/19

Vial: 49
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Aug 1 9:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190730\0730L56.D Vial: 50
 Acq On : 31 Jul 19 9:11 Operator:
 Sample : AZ95513W01 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Aug 1 9:22 2019 Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	205504	25.00000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	184832	25.00000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	89056	25.00000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	93294	25.63018	ppb	0.00
Spiked Amount	25.000		Recovery	=	102.520%	
44) 1,2-DCA-D4(S)	5.25	65	94151	25.19171	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.768%	
65) Toluene-D8(S)	7.63	98	276315	24.60487	ppb	0.00
Spiked Amount	25.000		Recovery	=	98.420%	
73) 4-Bromofluorobenzene(S)	10.53	95	94964	24.45719	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.828%	

Target Compounds Qvalue

Quantitation Report

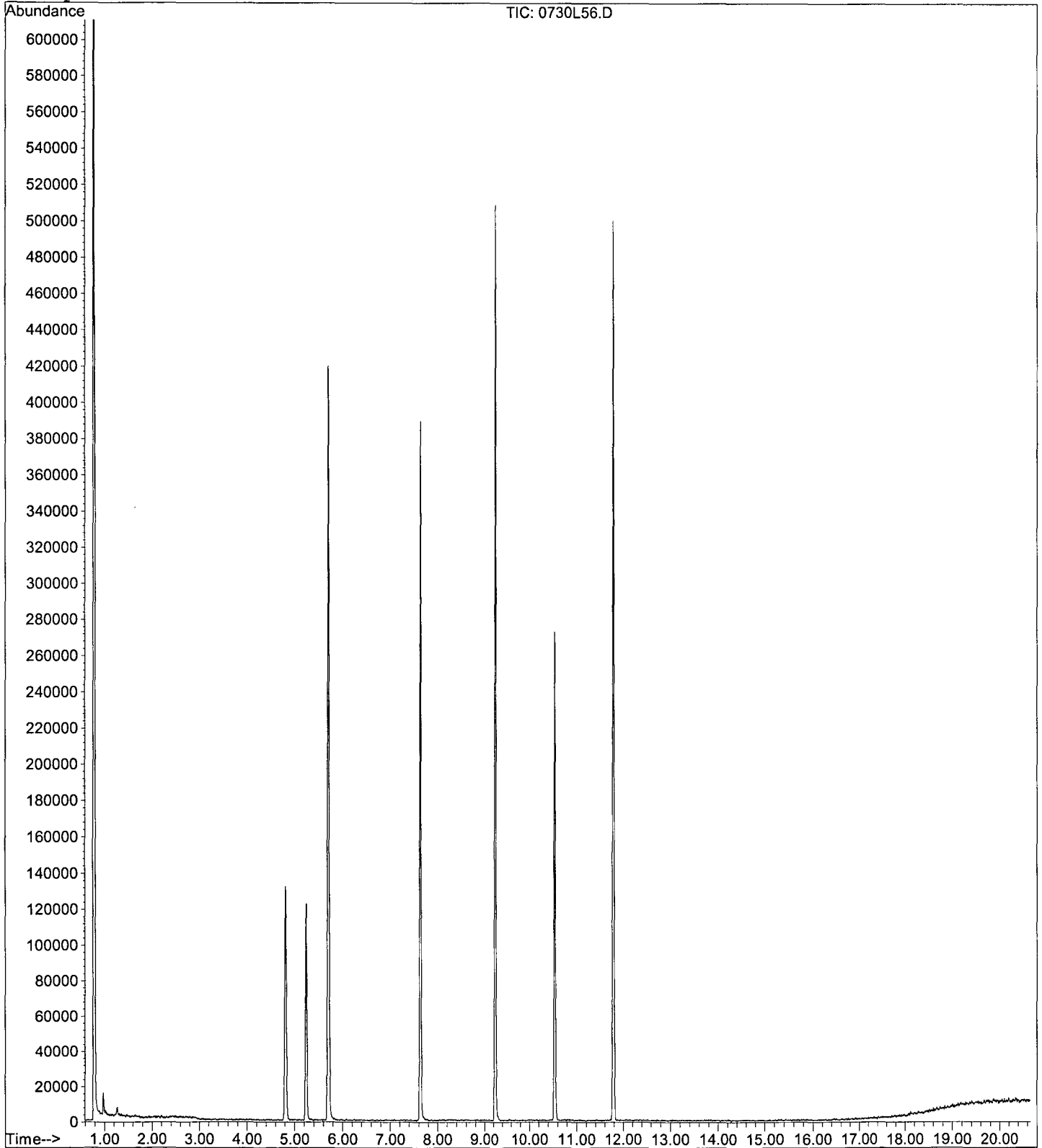
Data File : M:\LOKI\DATA\190730\0730L56.D
Acq On : 31 Jul 19 9:11
Sample : AZ95513W01
Misc : IS&S 7/15/19,6/5/19

Vial: 50
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Aug 1 9:22 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190730\0730L52.D Vial: 46
 Acq On : 31 Jul 19 7:16 Operator:
 Sample : 190730B BLK Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Aug 1 9:21 2019 Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	264704	25.00000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	235904	25.00000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	115984	25.00000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	103694	22.11625	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	88.464%
44) 1,2-DCA-D4(S)	5.25	65	104328	21.67172	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	86.688%
65) Toluene-D8(S)	7.63	98	328692	22.93230	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	91.728%
73) 4-Bromofluorobenzene(S)	10.53	95	110964	22.39090	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	89.564%

Target Compounds Qvalue

Quantitation Report

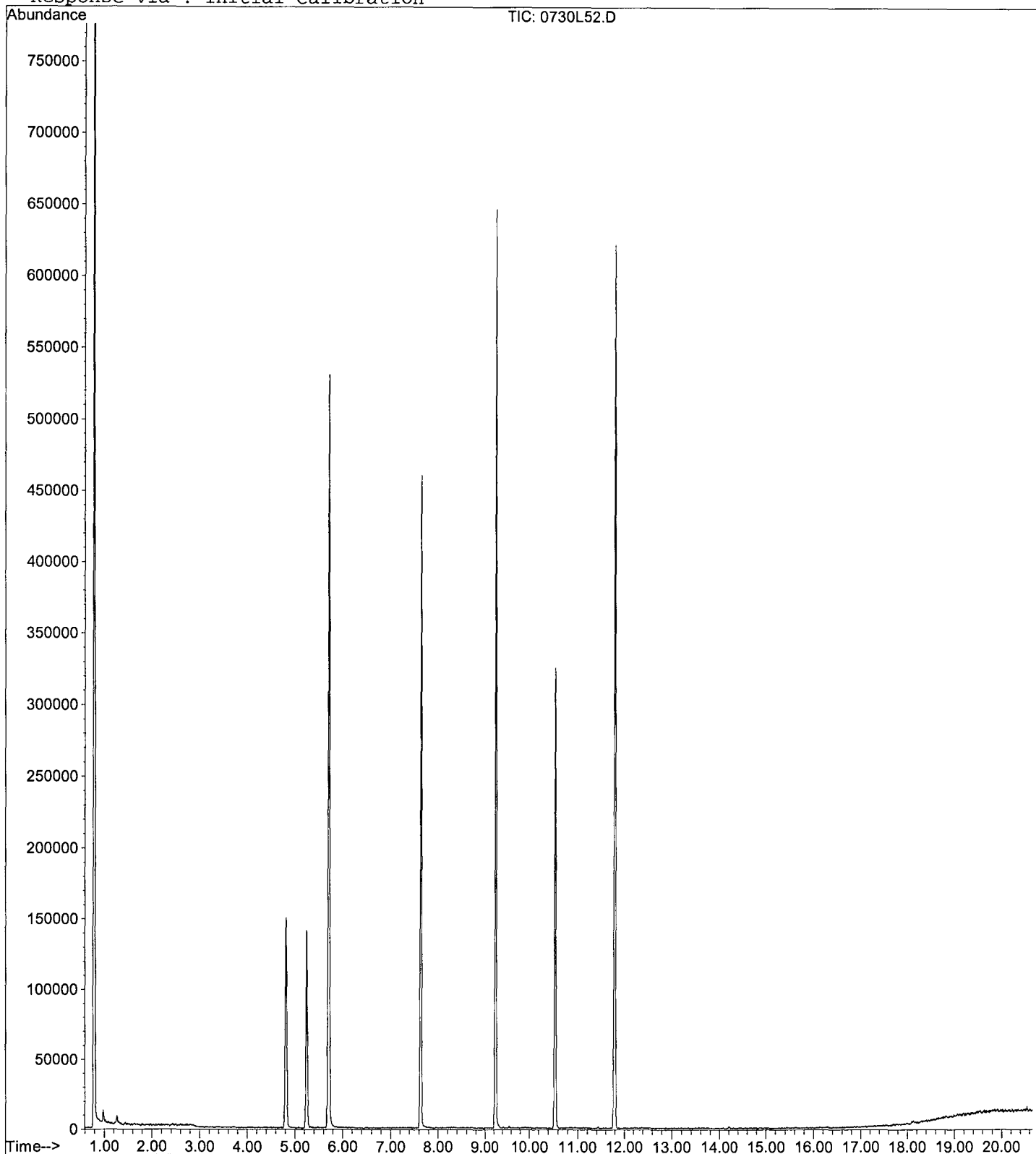
Data File : M:\LOKI\DATA\190730\0730L52.D
Acq On : 31 Jul 19 7:16
Sample : 190730B BLK
Misc : IS&S 7/15/19,6/5/19

Vial: 46
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Aug 1 9:21 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190730\0730L47.D
 Acq On : 31 Jul 19 4:52
 Sample : 190730B LCS 10ug/L
 Misc : IS&S 7/15/19,6/5/19

Vial: 41
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Aug 1 9:13 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	268864	25.00000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	248064	25.00000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	132608	25.00000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.81	111	113683	23.87158	ppb	0.00
Spiked Amount	25.000		Recovery	=	95.488%	
44) 1,2-DCA-D4(S)	5.25	65	113825	23.27866	ppb	0.00
Spiked Amount	25.000		Recovery	=	93.116%	
65) Toluene-D8(S)	7.63	98	397826	26.39509	ppb	0.00
Spiked Amount	25.000		Recovery	=	105.580%	
73) 4-Bromofluorobenzene(S)	10.53	95	146024	28.02110	ppb	0.00
Spiked Amount	25.000		Recovery	=	112.084%	
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	0.91	87	6817	10.46295	ppb	94
4) Freon 114	0.99	85	16526	8.62644	ppb	90
5) Chloromethane	1.02	50	24481	12.53214	ppb	99
6) Vinyl chloride	1.09	62	24419	10.58474	ppb	97
8) Bromomethane	1.30	94	19816	14.73331	ppb	100
9) Chloroethane	1.38	64	12724	9.24677	ppb	97
10) Dichlorofluoromethane	1.54	67	33678	8.68955	ppb	99
11) Trichlorofluoromethane	1.57	103	20035	7.91215	ppb	88
13) Acrolein	1.90	56	15580	112.71023	ppb	# 92
14) Acetone	2.04	43	10357	11.76370	ppb	90
15) Freon-113	2.00	101	16818	7.67156	ppb	89
16) 1,1-DCE	1.98	96	20708	9.68130	ppb	94
17) t-Butanol	2.62	59	28093	125.60691	ppb	99
18) 2-Propanol	2.21	45	495	0.96815	ppb	# 45
19) Acetonitrile	2.28	41	39471	132.87009	ppb	100
20) Methyl Acetate	2.35	43	19308	10.45689	ppb	93
21) Iodomethane	2.09	142	7040	7.95350	ppb	# 82
22) Acrylonitrile	2.69	53	10003	10.21851	ppb	99
23) Methylene chloride	2.43	84	24664	9.70947	ppb	99
24) Carbon disulfide	2.14	76	50870	8.39853	ppb	100
25) Methyl t-butyl ether (MtBE)	2.75	73	55764	8.81801	ppb	96
26) Trans-1,2-DCE	2.72	96	23807	10.03564	ppb	95
27) Diisopropyl Ether	3.40	45	55571	11.30953	ppb	91
29) 1,1-DCA	3.21	63	41039	10.61071	ppb	99
30) Vinyl Acetate	3.40	45	55571	11.30953	ppb	91
31) Ethyl tert Butyl Ether	3.94	59	48381	11.04521	ppb	99
32) MEK (2-Butanone)	4.15	43	4543	13.11287	ppb	85
33) Cis-1,2-DCE	4.07	96	27299	10.77063	ppb	94
34) 2,2-Dichloropropane	4.05	77	23067	8.06334	ppb	# 94
37) Chloroform	4.59	83	43329	10.41774	ppb	92
38) Bromochloromethane	4.42	128	15312	10.68224	ppb	95
40) 1,1,1-TCA	4.79	97	34445	9.88792	ppb	92
41) Cyclohexane	4.87	41	13703	10.95104	ppb	85
42) 1,1-Dichloropropene	5.04	75	26723	11.45469	ppb	96
43) 2,2,4-Trimethylpentane	5.49	57	36878	9.47677	ppb	# 85
45) Carbon Tetrachloride	5.03	117	31595	9.45870	ppb	95
46) Tert Amyl Methyl Ether	5.56	73	47626	10.45128	ppb	# 89
48) 1,2-DCA	5.35	62	33074	10.67343	ppb	99
49) Benzene	5.31	78	92235	11.87988	ppb	97

(#) = qualifier out of range (m) = manual integration
 0730L47.D L0724W.M Tue Aug 13 15:01:16 2019

Data File : M:\LOKI\DATA\190730\0730L47.D
 Acq On : 31 Jul 19 4:52
 Sample : 190730B LCS 10ug/L
 Misc : IS&S 7/15/19,6/5/19

Vial: 41
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Aug 1 9:13 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) TCE	6.18	130	29929	11.45512	ppb	91
51) 2-Pentanone	6.46	43	187125	151.46526	ppb	95
52) 1,2-Dichloropropane	6.44	63	23858	11.53141	ppb	96
53) Bromodichloromethane	6.80	83	33321	10.44271	ppb	98
54) Methyl Cyclohexane	6.40	83	23614	10.26713	ppb	92
55) Dibromomethane	6.57	93	17104	10.93945	ppb	89
56) 2-Chloroethyl vinyl ether	7.22	63	1921	28.09451	ppb	# 89
57) MIBK (methyl isobutyl ket	7.56	43	21097	13.09959	ppb	94
58) 1-Bromo-2-chloroethane	7.13	63	30641	10.42846	ppb	100
59) Cis-1,3-Dichloropropene	7.34	75	33896	11.10015	ppb	97
60) Toluene	7.71	91	101099	12.02052	ppb	97
61) Trans-1,3-Dichloropropene	7.99	75	29147	10.85301	ppb	95
62) 1,1,2-TCA	8.18	83	20334	11.02044	ppb	92
63) 2-Hexanone	8.51	43	13073	13.71572	ppb	95
66) 1,2-EDB	8.70	107	25157	11.03414	ppb	95
67) Tetrachloroethene	8.32	166	32883	9.72546	ppb	88
68) 1-Chlorohexane	9.29	91	20813	9.69742	ppb	97
69) 1,1,1,2-Tetrachloroethane	9.37	131	28404	9.70751	ppb	96
70) m&p-Xylene	9.55	91	151785	23.15802	ppb	98
71) o-Xylene	9.97	106	36929	10.55149	ppb	95
72) Styrene	9.99	104	63869	10.41684	ppb	97
74) 1,3-Dichloropropane	8.36	76	38820	10.95790	ppb	99
75) Dibromochloromethane	8.60	129	29689	10.08651	ppb	92
76) Chlorobenzene	9.26	112	70583	11.04419	ppb	98
77) Ethylbenzene	9.41	91	102401	11.99709	ppb	96
78) Bromoform	10.16	173	23763	9.81997	ppb	94
80) Isopropylbenzene	10.39	105	55496	13.36444	ppb	96
81) 1,1,2,2-Tetrachloroethane	10.72	83	30230	10.95287	ppb	97
82) 1,2,3-Trichloropropane	10.74	110	11720	12.06656	ppb	89
83) t-1,4-Dichloro-2-Butene	10.78	53	3780	10.17954	ppb	91
84) Bromobenzene	10.68	156	32535	11.67277	ppb	97
85) n-Propylbenzene	10.84	91	107561	13.10601	ppb	100
86) 4-Ethyltoluene	10.97	105	83462	11.39617	ppb	99
87) 2-Chlorotoluene	10.90	91	39680	12.71475	ppb	100
88) 1,3,5-Trimethylbenzene	11.04	105	83835	12.89791	ppb	100
89) 4-Chlorotoluene	11.03	126	15799	12.65888	ppb	91
90) Tert-Butylbenzene	11.38	119	72154	11.63306	ppb	96
91) 1,2,4-Trimethylbenzene	11.44	105	80608	13.16265	ppb	98
92) Sec-Butylbenzene	11.62	105	98280	13.23104	ppb	99
93) p-Isopropyltoluene	11.79	119	86540	12.64850	ppb	99
94) Benzyl Chloride	11.96	91	13318	7.60319	ppb	97
95) 1,3-DCB	11.71	146	56356	11.79454	ppb	96
96) 1,4-DCB	11.81	146	57831	11.11764	ppb	98
97) n-Butylbenzene	12.23	91	64867	12.86147	ppb	98
98) 1,2-DCB	12.20	146	53301	11.02576	ppb	94
99) Hexachloroethane	12.48	201	15645	9.41609	ppb	86
100) 1,2-Dibromo-3-chloropropan	13.04	75	5539	11.68373	ppb	85
101) 1,2,4-Trichlorobenzene	13.95	180	31770	10.88563	ppb	97
102) Hexachlorobutadiene	14.16	223	6234	9.89724	ppb	# 82
103) Naphthalene	14.21	128	66833	12.02324	ppb	100
104) 1,2,3-Trichlorobenzene	14.47	180	33575	12.16968	ppb	96

(#) = qualifier out of range (m) = manual integration
 0730L47.D L0724W.M Tue Aug 13 15:01:17 2019

Quantitation Report

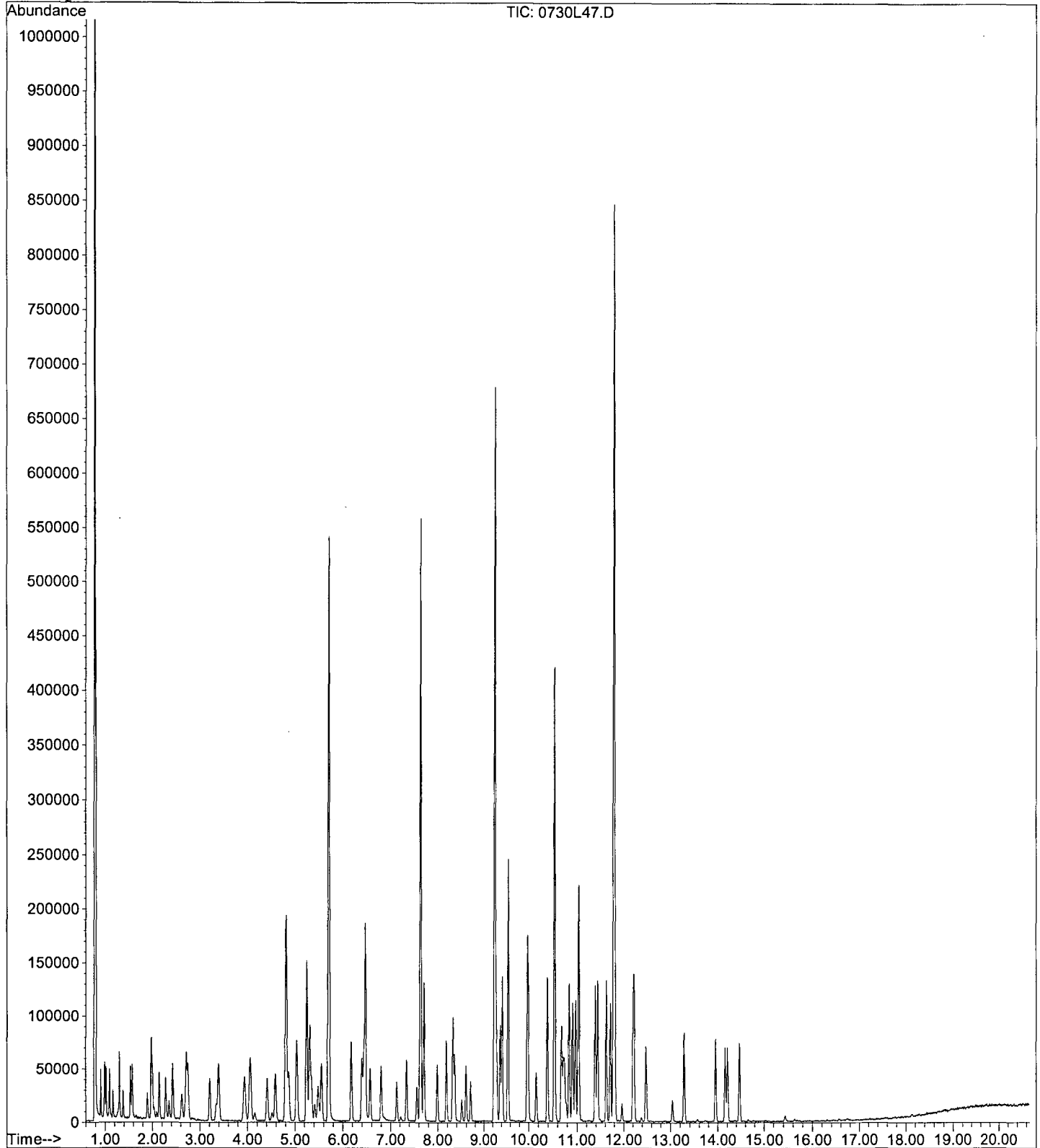
Data File : M:\LOKI\DATA\190730\0730L47.D
Acq On : 31 Jul 19 4:52
Sample : 190730B LCS 10ug/L
Misc : IS&S 7/15/19,6/5/19

Vial: 41
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Aug 1 9:13 2019

Quant Results File: L0724W.RES

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190730\0730L48.D
 Acq On : 31 Jul 19 5:21
 Sample : 190730B LCSD 10ug/L
 Misc : IS&S 7/15/19,6/5/19

Vial: 42
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Aug 1 9:13 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	275136	25.00000	ppb	0.00
64) Chlorobenzene-D5 (IS)	9.24	117	245376	25.00000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.79	152	136512	25.00000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Dibromofluoromethane(S)	4.81	111	112364	23.05675	ppb	0.00
Spiked Amount				25.000		
				Recovery =	92.228%	
44) 1,2-DCA-D4(S)	5.25	65	115749	23.13251	ppb	0.00
Spiked Amount				25.000		
				Recovery =	92.532%	
65) Toluene-D8(S)	7.63	98	389061	26.09632	ppb	0.00
Spiked Amount				25.000		
				Recovery =	104.384%	
73) 4-Bromofluorobenzene(S)	10.53	95	140119	27.18252	ppb	0.00
Spiked Amount				25.000		
				Recovery =	108.732%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	0.91	87	6970	10.45310	ppb	95
4) Freon 114	0.99	85	13911	7.09590	ppb	99
5) Chloromethane	1.02	50	23790	11.80917	ppb	95
6) Vinyl chloride	1.09	62	23172	9.81525	ppb	100
8) Bromomethane	1.30	94	17784	12.89096	ppb	95
9) Chloroethane	1.38	64	12461	8.75237	ppb	98
10) Dichlorofluoromethane	1.54	67	32576	8.21360	ppb	94
11) Trichlorofluoromethane	1.57	103	20077	7.74799	ppb	98
13) Acrolein	1.90	56	15428	109.06634	ppb	87
14) Acetone	2.04	43	8457	8.45803	ppb	96
15) Freon-113	2.00	101	15588	6.94840	ppb	96
16) 1,1-DCE	1.98	96	20178	9.21847	ppb	98
17) t-Butanol	2.62	59	27545	120.03463	ppb	93
18) 2-Propanol	2.21	45	521	1.07137	ppb	# 45
19) Acetonitrile	2.28	41	39992	131.55503	ppb	95
20) Methyl Acetate	2.35	43	17571	9.11661	ppb	90
21) Iodomethane	2.09	142	6539	7.40406	ppb	# 92
22) Acrylonitrile	2.69	53	9647	9.63019	ppb	99
23) Methylene chloride	2.43	84	23888	9.18961	ppb	92
24) Carbon disulfide	2.14	76	49252	7.94604	ppb	97
25) Methyl t-butyl ether (MtBE)	2.75	73	51805	8.00523	ppb	97
26) Trans-1,2-DCE	2.72	96	21397	8.81411	ppb	87
27) Diisopropyl Ether	3.40	45	54581	10.85483	ppb	93
29) 1,1-DCA	3.21	63	39378	9.94916	ppb	92
30) Vinyl Acetate	3.40	45	54581	10.85483	ppb	93
31) Ethyl tert Butyl Ether	3.94	59	44499	9.92738	ppb	99
32) MEK (2-Butanone)	4.15	43	4012	11.31621	ppb	# 79
33) Cis-1,2-DCE	4.07	96	24952	9.62022	ppb	79
34) 2,2-Dichloropropane	4.04	77	21436	7.32239	ppb	# 93
37) Chloroform	4.58	83	42473	9.97914	ppb	99
38) Bromochloromethane	4.42	128	15553	10.60302	ppb	93
40) 1,1,1-TCA	4.80	97	33621	9.43137	ppb	93
41) Cyclohexane	4.86	41	12371	9.66117	ppb	90
42) 1,1-Dichloropropene	5.04	75	26148	10.95272	ppb	94
43) 2,2,4-Trimethylpentane	5.49	57	33563	8.42828	ppb	# 84
45) Carbon Tetrachloride	5.03	117	30315	8.86862	ppb	92
46) Tert Amyl Methyl Ether	5.55	73	45942	9.85191	ppb	# 90
48) 1,2-DCA	5.35	62	30953	9.76125	ppb	97
49) Benzene	5.31	78	88718	11.16640	ppb	99

(#) = qualifier out of range (m) = manual integration
 0730L48.D L0724W.M Tue Aug 13 15:01:19 2019

Data File : M:\LOKI\DATA\190730\0730L48.D
 Acq On : 31 Jul 19 5:21
 Sample : 190730B LCSD 10ug/L
 Misc : IS&S 7/15/19,6/5/19

Vial: 42
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Aug 1 9:13 2019

Quant Results File: L0724W.RES

Quant Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) TCE	6.18	130	28405	10.62398	ppb	88
51) 2-Pentanone	6.46	43	196073	155.09016	ppb	94
52) 1,2-Dichloropropane	6.44	63	22627	10.68712	ppb	95
53) Bromodichloromethane	6.80	83	33070	10.12778	ppb	94
54) Methyl Cyclohexane	6.40	83	21824	9.27255	ppb	95
55) Dibromomethane	6.57	93	17074	10.67132	ppb	93
56) 2-Chloroethyl vinyl ether	7.22	63	1228	19.16909	ppb	# 81
57) MIBK (methyl isobutyl ket	7.56	43	18769	11.38842	ppb	95
58) 1-Bromo-2-chloroethane	7.13	63	29499	9.81092	ppb	95
59) Cis-1,3-Dichloropropene	7.34	75	33179	10.61767	ppb	94
60) Toluene	7.71	91	97502	11.32857	ppb	99
61) Trans-1,3-Dichloropropene	7.99	75	28728	10.45315	ppb	95
62) 1,1,2-TCA	8.18	83	19337	10.24119	ppb	93
63) 2-Hexanone	8.51	43	12115	12.42087	ppb	90
66) 1,2-EDB	8.70	107	24967	11.07077	ppb	91
67) Tetrachloroethene	8.32	166	30701	9.17958	ppb	86
68) 1-Chlorohexane	9.29	91	19634	9.24830	ppb	95
69) 1,1,1,2-Tetrachloroethane	9.37	131	27736	9.58305	ppb	92
70) m&p-Xylene	9.55	91	145245	22.40296	ppb	96
71) o-Xylene	9.97	106	36199	10.46562	ppb	95
72) Styrene	9.99	104	60281	10.00198	ppb	99
74) 1,3-Dichloropropane	8.36	76	39243	11.19865	ppb	99
75) Dibromochloromethane	8.60	129	31128	10.69124	ppb	98
76) Chlorobenzene	9.26	112	68972	10.91034	ppb	96
77) Ethylbenzene	9.41	91	96391	11.41668	ppb	95
78) Bromoform	10.16	173	21996	9.18934	ppb	92
80) Isopropylbenzene	10.39	105	51192	11.97540	ppb	100
81) 1,1,2,2-Tetrachloroethane	10.71	83	29904	10.52489	ppb	92
82) 1,2,3-Trichloropropane	10.74	110	11186	11.18741	ppb	97
83) t-1,4-Dichloro-2-Butene	10.78	53	3135	8.35976	ppb	85
84) Bromobenzene	10.68	156	31243	10.88867	ppb	96
85) n-Propylbenzene	10.84	91	102002	12.07323	ppb	99
86) 4-Ethyltoluene	10.97	105	77109	10.22760	ppb	99
87) 2-Chlorotoluene	10.90	91	40399	12.57493	ppb	93
88) 1,3,5-Trimethylbenzene	11.04	105	78337	11.70738	ppb	97
89) 4-Chlorotoluene	11.03	126	14509	11.29281	ppb	99
90) Tert-Butylbenzene	11.38	119	66683	10.51146	ppb	96
91) 1,2,4-Trimethylbenzene	11.44	105	76946	12.20535	ppb	100
92) Sec-Butylbenzene	11.62	105	93422	12.21735	ppb	100
93) p-Isopropyltoluene	11.79	119	82850	11.76288	ppb	96
94) Benzyl Chloride	11.97	91	12087	6.75619	ppb	98
95) 1,3-DCB	11.71	146	54419	11.06345	ppb	95
96) 1,4-DCB	11.81	146	56517	10.55431	ppb	98
97) n-Butylbenzene	12.23	91	58937	11.35151	ppb	97
98) 1,2-DCB	12.20	146	52600	10.56959	ppb	97
99) Hexachloroethane	12.49	201	14587	8.52825	ppb	89
100) 1,2-Dibromo-3-chloropropan	13.05	75	5144	10.41491	ppb	94
101) 1,2,4-Trichlorobenzene	13.95	180	29157	9.79604	ppb	96
102) Hexachlorobutadiene	14.16	223	5827	8.92728	ppb	93
103) Naphthalene	14.21	128	62978	11.17395	ppb	97
104) 1,2,3-Trichlorobenzene	14.47	180	31314	11.02555	ppb	90

(#) = qualifier out of range (m) = manual integration
 0730L48.D L0724W.M Tue Aug 13 15:01:19 2019

Quantitation Report

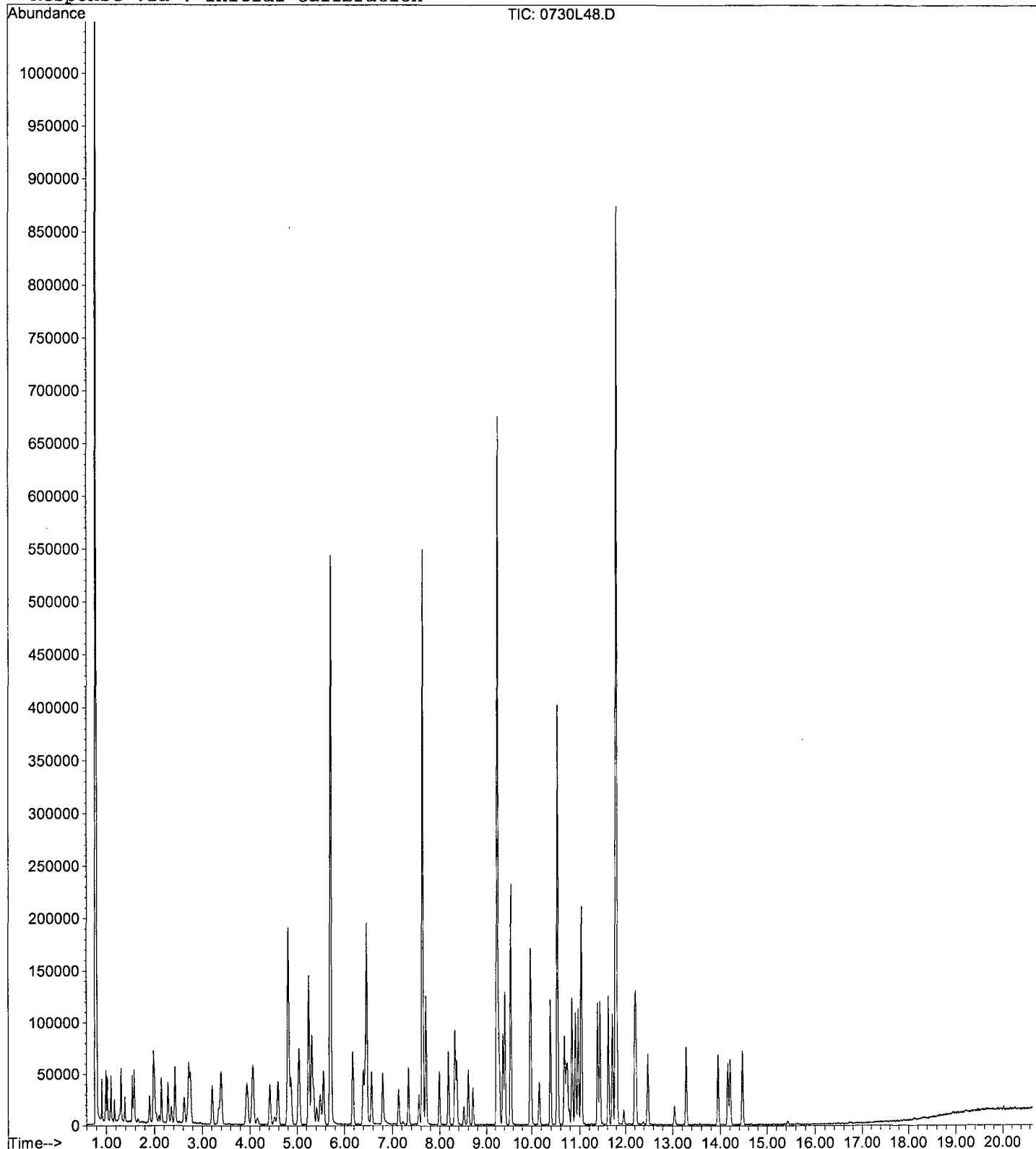
Data File : M:\LOKI\DATA\190730\0730L48.D
Acq On : 31 Jul 19 5:21
Sample : 190730B LCSD 10ug/L
Misc : IS&S 7/15/19,6/5/19

Vial: 42
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Aug 1 9:13 2019

Quant Results File: L0724W.RES

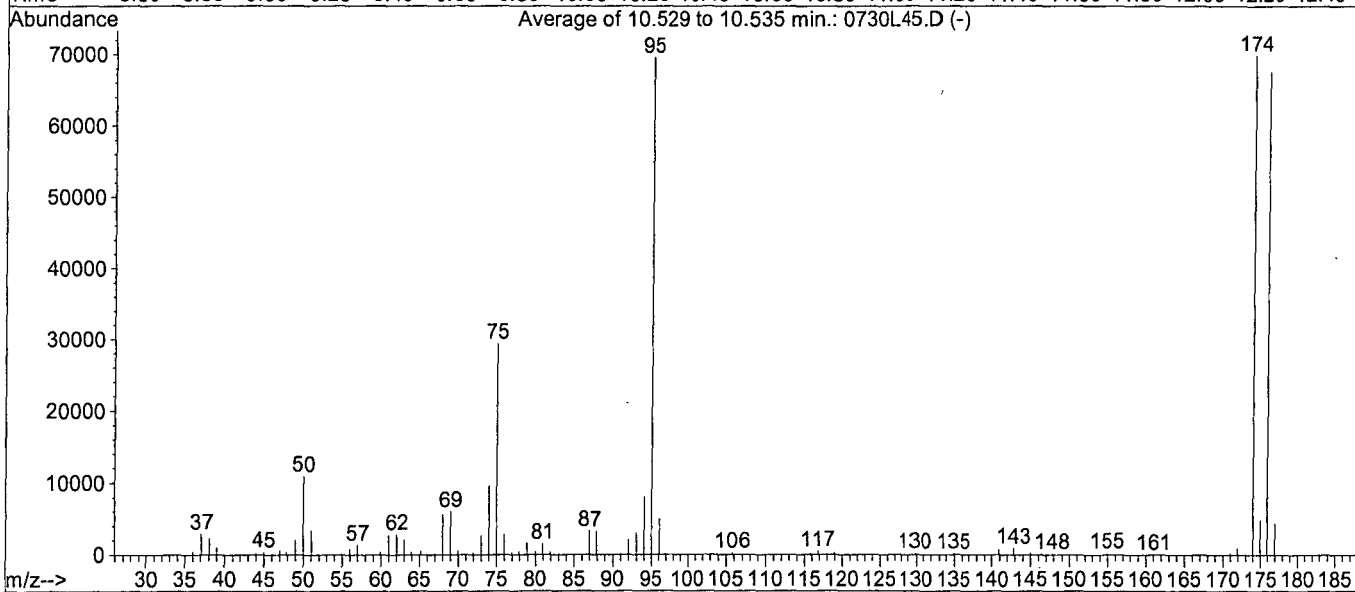
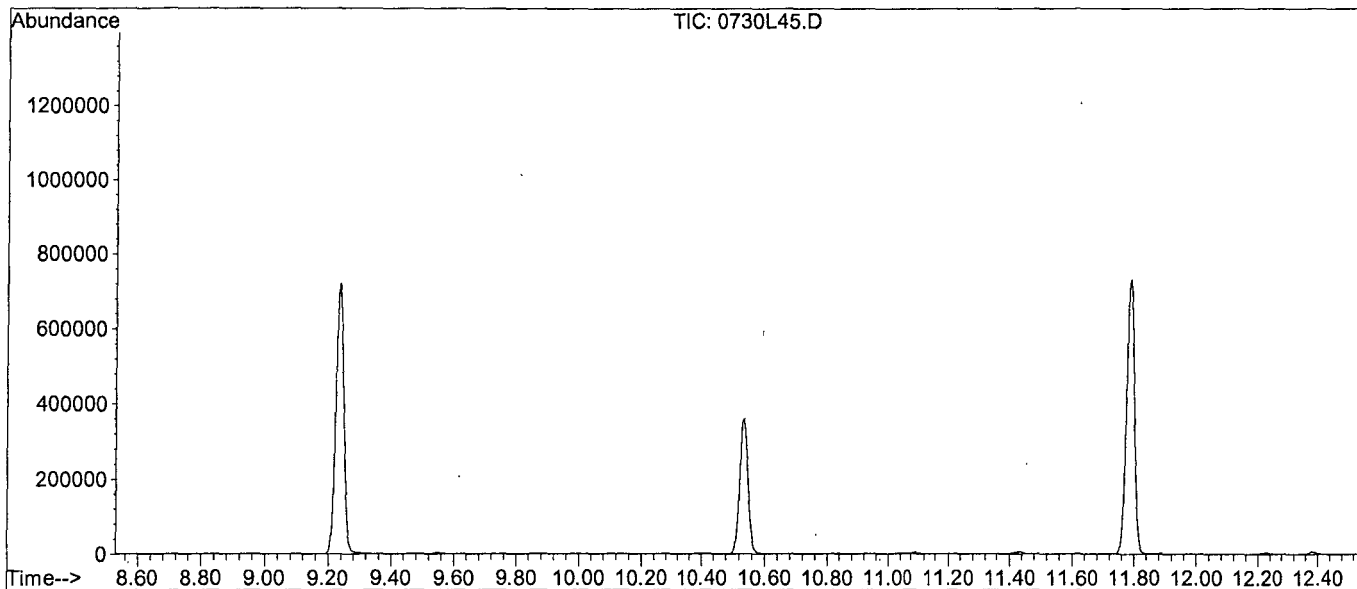
Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190730\0730145.D
 Acq On : 31 Jul 19 3:54
 Sample : 25ug/L BFB STD 7/5/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 39
 Operator:
 Inst : Loki
 Multiplr: 1.00

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B



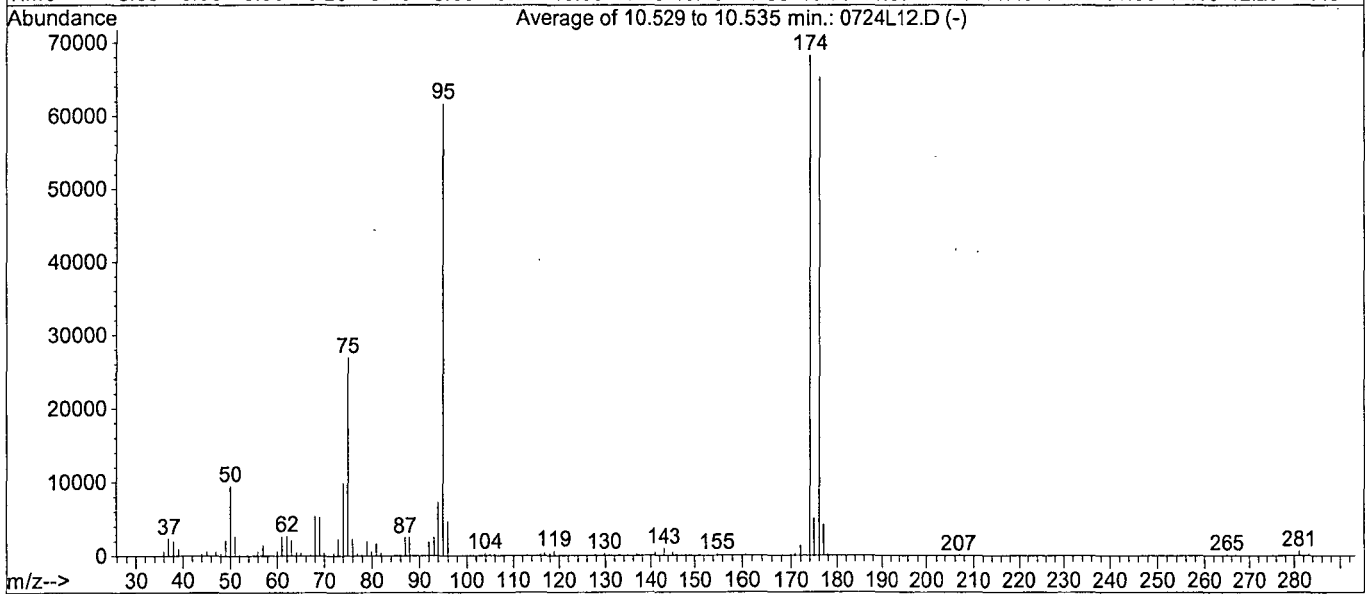
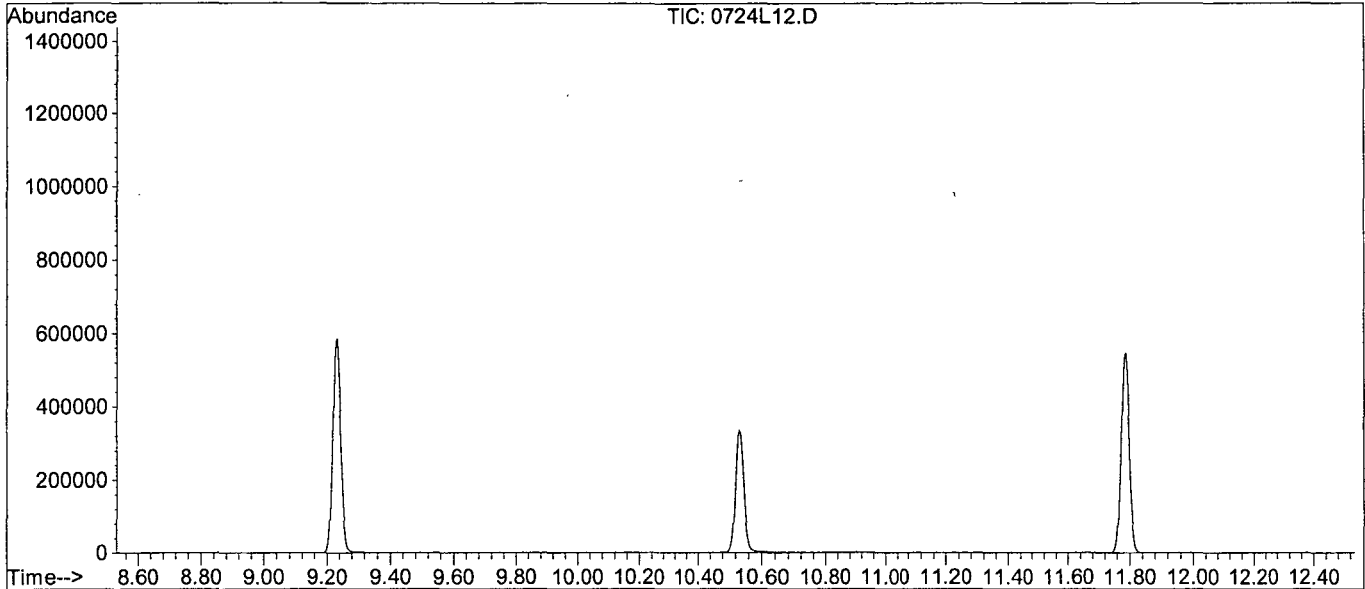
Spectrum Information: Average of 10.529 to 10.535 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.6	10879	PASS
75	95	30	60	42.3	29408	PASS
95	95	100	100	100.0	69576	PASS
96	95	5	9	7.1	4931	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	200	100.4	69872	PASS
175	174	5	9	7.0	4885	PASS
176	174	95	101	96.7	67560	PASS
177	176	5	9	6.6	4460	PASS

Data File : M:\LOKI\DATA\190724\0724L12.D
 Acq On : 24 Jul 19 13:52
 Sample : 25ug/L BFB STD 7/5/19
 Misc : 2ul

Vial: 1
 Operator:
 Inst : Loki
 Multiplr: 1.00

Method : M:\LOKI\DATA\190724\L0724W.M (RTE Integrator)
 Title : METHOD 8260B



AutoFind: Scans 3091, 3092, 3093; Background Corrected with Scan 3076

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.3	9438	PASS
75	95	30	60	43.6	26904	PASS
95	95	100	100	100.0	61680	PASS
96	95	5	9	7.5	4623	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	200	110.7	68296	PASS
175	174	5	9	7.4	5033	PASS
176	174	95	101	95.5	65256	PASS
177	176	5	9	6.4	4185	PASS

Loki 8260 Standard Prep

Loki 8260 Water Calibration Curve										
						Prepared By (Initials): <u>CMM</u>				
0.3ug/L										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	0.3ug/L	5	Prepared 07/24/19	09/22/19	N/A	3uL	50mL	P&T Water	0.3
VOA STD. 10	O2SI		5	Prepared 07/24/19	09/22/19	N/A	3uL			0.3
VOA STD. 12	O2SI		5	Prepared 07/24/19	09/22/19	N/A	3uL			0.3
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	2uL			10
0.5ug/L										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	0.5ug/L	5	Prepared 07/24/19	09/22/19	N/A	5uL	50mL	P&T Water	0.5
VOA STD. 10	O2SI		5	Prepared 07/24/19	09/22/19	N/A	5uL			0.5
VOA STD. 12	O2SI		5	Prepared 07/24/19	09/22/19	N/A	5uL			0.5
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	5uL			25
1.0ug/L										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	1.0ug/L	5	Prepared 07/24/19	09/22/19	N/A	10uL	50mL	P&T Water	1
VOA STD. 10	O2SI		5	Prepared 07/24/19	09/22/19	N/A	10uL			1
VOA STD. 12	O2SI		5	Prepared 07/24/19	09/22/19	N/A	10uL			1
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	10uL			50
2.0ug/L										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	2.0ug/L	5	Prepared 07/24/19	09/22/19	N/A	20uL	50mL	P&T Water	2
VOA STD. 10	O2SI		5	Prepared 07/24/19	09/22/19	N/A	20uL			2
VOA STD. 12	O2SI		5	Prepared 07/24/19	09/22/19	N/A	20uL			2
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	15uL			75
5ug/L										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	5ug/L	50	Prepared 07/24/19	09/22/19	N/A	5uL	50mL	P&T Water	5
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	5uL			5
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	5uL			5
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	5uL			5
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	20uL			100
VOA STD. 10	O2SI		5	Prepared 07/24/19	09/22/19	N/A	5uL			5
10ug/L										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	10ug/L	50	Prepared 07/24/19	09/22/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	10uL			10
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	25uL			125
VOA STD. 10	O2SI		5	Prepared 07/24/19	09/22/19	N/A	5uL			5

* 7/17/19

* entry error wrong date

M
8/17/19

20ug/L
Prepared: 07/24/19
Expires: 08/23/19

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	20ug/L	50	Prepared 07/24/19	09/22/19	N/A	20uL	50mL	P&T Water	20
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	20uL			20
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	20uL			20
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	20uL			20
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	30uL			150

40ug/L
Prepared: 07/24/19
Expires: 08/23/19

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	40ug/L	50	Prepared 07/24/19	09/22/19	N/A	40uL	50mL	P&T Water	40
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	40uL			40
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	40uL			40
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	40uL			40
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	35uL			175

100ug/L
Prepared: 07/24/19
Expires: 08/23/19

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	100ug/L	50	Prepared 07/24/19	09/22/19	N/A	100uL	50mL	P&T Water	100
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	100uL			100
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	100uL			100
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	100uL			100
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	40uL			200

Loki 8260 Water Second Source (SS)
Prepared: 07/24/19
Expires: 08/23/19
Prepared By (Initials): CMM

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 4	Phenova	8260 Water SS	50	Prepared 07/24/19	09/22/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 5	O2SI	8260 Water SS	50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. 6	Various	8260 Water SS	50	Prepared 07/24/19	07/17/19	N/A	10uL			10
VOA STD. TBA	Various	8260 Water SS	250	Prepared 07/24/19	07/17/19	N/A	25uL			250

8260 Water Continuing Calibrations (CCV)/ Lab Control Spikes (LCS)
Prepared: 07/24/19
Expires: 07/25/19
Prepared By (Initials): CMM

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	CCV/ LCS	50	Prepared 07/24/19	09/22/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova	CCV/ LCS	50	Prepared 07/24/19	07/31/19	N/A	10uL			10
VOA STD. 1	O2SI	CCV/ LCS	50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. 2	O2SI	CCV/ LCS	50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. TBA	Various	CCV/ LCS	250	Prepared 07/24/19	07/31/19	N/A	25uL			125

LCS (X4 Ketones)
Prepared: 07/24/19
Expires: 07/25/19
Prepared By (Initials): CMM

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	LCS X4 Ketones	50	Prepared 07/24/19	09/22/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova	LCS X4 Ketones	50	Prepared 07/24/19	07/31/19	N/A	10uL			10
VOA STD. 1	O2SI	LCS X4 Ketones	50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. 2	O2SI	LCS X4 Ketones	50	Prepared 07/24/19	09/22/19	N/A	40uL			40
VOA STD. TBA	Various	LCS X4 Ketones	250	Prepared 07/24/19	07/31/19	N/A	25uL			125

* 7/17/19

* Entry Error wrong date

20/5/17/19

Loki 8260 Water Surrogate							Prepared By (Initials): <u>DG</u>			
Prepared: 08/08/19										
Expires: 04/04/20										
Methanol Lot No: 58243										

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
8260 Surrogate Solution	O2SI	120002-01	2,000	348756-39341	04/04/20	02/10/22	375uL	15mL	Methanol	50

Loki 8260 Water Internal Standard							Prepared By (Initials): <u>DG</u>			
Prepared: 08/09/19										
Expires: 08/06/20										
Methanol Lot No: 58243										

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Internal Standard Solution	Phenova	ALO-101215	2,500	CL12444-40615	08/06/20	04/30/23	300uL	15mL	Methanol	50

Primary and Secondary Working Standards

Primary Standards											
VOA STD 7											
Prepared: 07/17/19 C											
Expires: 09/15/19											
Prepared By (Initials): <u>CMM</u>											
Methanol Lot No. 58019-00962											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
VOA Gasses STD	Phenova	ALO-101206	2,000	CL12965-408901	07/09/20	11/30/23	100uL	4mL	Methanol	50	
Hexachloroethane	Absolute	70199	1,000	091818-40719	07/09/20	09/18/23	200uL			50	
Benzyl Chloride	Absolute	70037	1,000	021119-40680	07/09/20	02/11/20	200uL			50	
VOA STD 8											
Prepared: 07/17/19 D											
Expires: 07/31/19											
Prepared By (Initials): <u>CMM</u>											
Methanol Lot No. 58019-00962											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
VOA Additions STD	Phenova	ALO-130175	2,000	CL12744-40591	07/09/20	08/31/20	100uL	4mL	Methanol	50	
502 2 Cal. Std.	Phenova	ALO-101200	2,000	CL12489-40595	07/09/20	05/31/23	100uL			50	
Vinyl Acetate	Phenova	ALO-101228	2,000	CL13816-41081	07/09/20	07/31/19	100uL			50	
VOA STD TBA											
Prepared: 07/17/19 E											
Expires: 07/31/19											
Prepared By (Initials): <u>CMM</u>											
Methanol Lot No. 58019-00962											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
Custom VOC Mix	Phenova	ALO-130176	2,000	CL12929-41066	07/17/20	11/30/20	500uL	4mL	Methanol	250	
Acrolein	Phenova	ALO-130549	10,000	CL13820-41082	07/09/20	07/31/19	100uL			250	
VOA STD 1											
Prepared: 07/17/19 F											
Expires: 09/15/19											
Prepared By (Initials): <u>CMM</u>											
Methanol Lot No. 58019-00962											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
2-CEVE	Absolute	071018-40341	2,000	071018-40713	07/05/20	07/10/21	50	2mL	Methanol	50	
VOA STD 2											
Prepared: 07/17/19 G											
Expires: 09/15/19											
Prepared By (Initials): <u>CMM</u>											
Methanol Lot No. 58019-00962											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
Ketones Std.	Phenova	ALO-109211	2,000	CL12729-40181	07/09/20	08/31/28	100	4mL	Methanol	50	
VOA STD 9											
Prepared: 07/17/19 H											
Expires: 09/15/19											
Prepared By (Initials): <u>CMM</u>											
Methanol Lot No. 58019-00962											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
VOA STD. 7		VOA STD. 9	50	Prepared 07/17/19	05/21/20	N/A	200uL	2mL	Methanol	5	
VOA STD. 8			50	Prepared 07/17/19	05/21/20	N/A	200uL			5	
VOA STD. 10											
Prepared: 07/17/19 I											
Expires: 09/15/19											
Prepared By (Initials): <u>CMM</u>											
Methanol Lot No. 58019-00962											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
VOA STD. 1		VOA STD. 10	50	Prepared 07/17/19	05/21/20	N/A	200uL	2mL	Methanol	5	
VOA STD. 12											
Prepared: 07/17/19 J											
Expires: 09/15/19											
Prepared By (Initials): <u>CMM</u>											
Methanol Lot No. 58019-00962											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
VOA STD. 2		VOA STD. 12	50	Prepared 07/17/19	05/21/20	N/A	200uL	2mL	Methanol	5	

Second Source (SS) Standards										
VOA STD. 3										
Prepared: 07/17/19 K										
Expires: 09/15/19										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Ketones Standard	Phenova	ALO-101211	2,000	CL12730-40609	07/09/20	08/31/28	50uL	2mL	Methanol	50
VOA STD. 5										
Prepared: 07/17/19 L										
Expires: 09/15/19										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
8260 Gases (SS)	Phenova	ALO-101206	2,000	CL12966-40911	07/09/20	11/30/23	50uL	2mL	Methanol	50
2-CEVE (SS)	Absolute	82408	2,000	071018-40965	0709/2020	07/10/21	50uL			50
VOA STD. 6										
Prepared: 07/17/19 M										
Expires: 07/17/19										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
502.2 Calibration STD. (54-compounds)	Phenova	ALO-101200	2,000	CL12490-40917	07/09/20	05/31/23	50uL	2mL	Methanol	50
Vinyl Acetate	Phenova	ALO-101228	2,000	CL13739-40986	06/25/20	07/17/19	50uL			50
Hexachloroethane	Accustan	AS-E0011	1,000	218051281-40737	07/09/20	05/14/28	100uL			50
Benzyl Chloride	Accustan	M-8010-01	200	219041664-40952	07/09/20	05/22/21	500uL			50
VOA STD. TBA										
Prepared: 07/17/19 N										
Expires: 07/17/19										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Custom VOA Mix (4-3)	Phenova	ALO-130176	2,000	CL12542-39863	07/17/20	05/31/20	250uL	2mL	Methanol	250
Acrolein	Phenova	ALO-101224	10,000	CL13741-40987	06/25/20	07/17/19	50uL			250
VOA STD. 0										
Prepared: 07/17/19 O										
Expires: 07/09/19										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Addition STD.	Phenova	ALO-130175	2,000	CL12744-40994	07/09/19	08/31/20	50uL	2mL	Methanol	50
BFB Tune										
Prepared: 07/05/19										
Expires: 01/19/21										
Methanol Lot No. 58019-00958										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
4-Bromofluorobenzene	O2SI	020135-03	2,500	342387-39073	04/19/20	01/19/21	20uL	2mL	Methanol	25

Injection Log

Directory: M:\LOK\DATA\190724\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	0724L12.D	1	25ug/L BFB STD 7/5/19	2ul	24 Jul 19 13:52
4	0724L15.D	1	0.3ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 15:18
5	0724L16.D	1	0.5ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 15:47
6	0724L17.D	1	1.0ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 16:16
7	0724L18.D	1	2.0ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 16:45
8	0724L19.D	1	5.0ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 17:14
9	0724L20.D	1	10ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 17:42
10	0724L21.D	1	20ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 18:11
11	0724L22.D	1	40ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 18:40
12	0724L23.D	1	100ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 19:09
15	0724L26.D	1	SS 10ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 20:36
16	0724L27.D	1	SS 30ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 21:04
39	0730L45.D	1	25ug/L BFB STD 7/5/19	IS&S 7/15/19,6/5/19	31 Jul 19 3:54
40	0730L46.D	1	190730B CCV 10ug/L	IS&S 7/15/19,6/5/19	31 Jul 19 4:23
41	0730L47.D	1	190730B LCS 10ug/L	IS&S 7/15/19,6/5/19	31 Jul 19 4:52
42	0730L48.D	1	190730B LCSD 10ug/L	IS&S 7/15/19,6/5/19	31 Jul 19 5:21
46	0730L52.D	1	190730B BLK	IS&S 7/15/19,6/5/19	31 Jul 19 7:16
47	0730L53.D	1	AZ95510W01	IS&S 7/15/19,6/5/19	31 Jul 19 7:45
48	0730L54.D	1	AZ95511W01	IS&S 7/15/19,6/5/19	31 Jul 19 8:13
49	0730L55.D	1	AZ95512W01	IS&S 7/15/19,6/5/19	31 Jul 19 8:42
50	0730L56.D	1	AZ95513W01	IS&S 7/15/19,6/5/19	31 Jul 19 9:11
51	0730L57.D	1	Ending CCV 10ug/L 07/30/19	IS&S 7/15/19,6/5/19	31 Jul 19 9:40

**ORGANICS
Calibration Data**

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 7/24/2019
Instrument: Loki

Initials: DG/LP

0716L27.D 0716L28.D 0716L29.D 0716L30.D 0716L31.D 0716L32.D 0716L33.D

	Compound	1	2	3	4	5	6	7			Avg	%RSD	Type	r ²	Q	MRF
1	I Fluorobenzene (IS)															
2	TMHBL Gasoline C6-C10	12.2	4.688	2.469	1.121	0.7447	0.6371	0.6283			3.2	132	TMHBL	0.991		
3	I Chlorobenzene-D5 (IS)															
4	I 1,4-Dichlorobenzene-D (IS)															
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Data File : M:\LOKI\DATA\190715\0716L27.D
Acq On : 16 Jul 19 23:53
Sample : 20ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 26
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:32 2019

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 09 11:47:35 2019
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	480409	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	608530	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	581955	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	4690828m	69.01124	ppb	100

(#) = qualifier out of range (m) = manual integration
0716L27.D LGAS716.M Tue Aug 13 11:19:06 2019

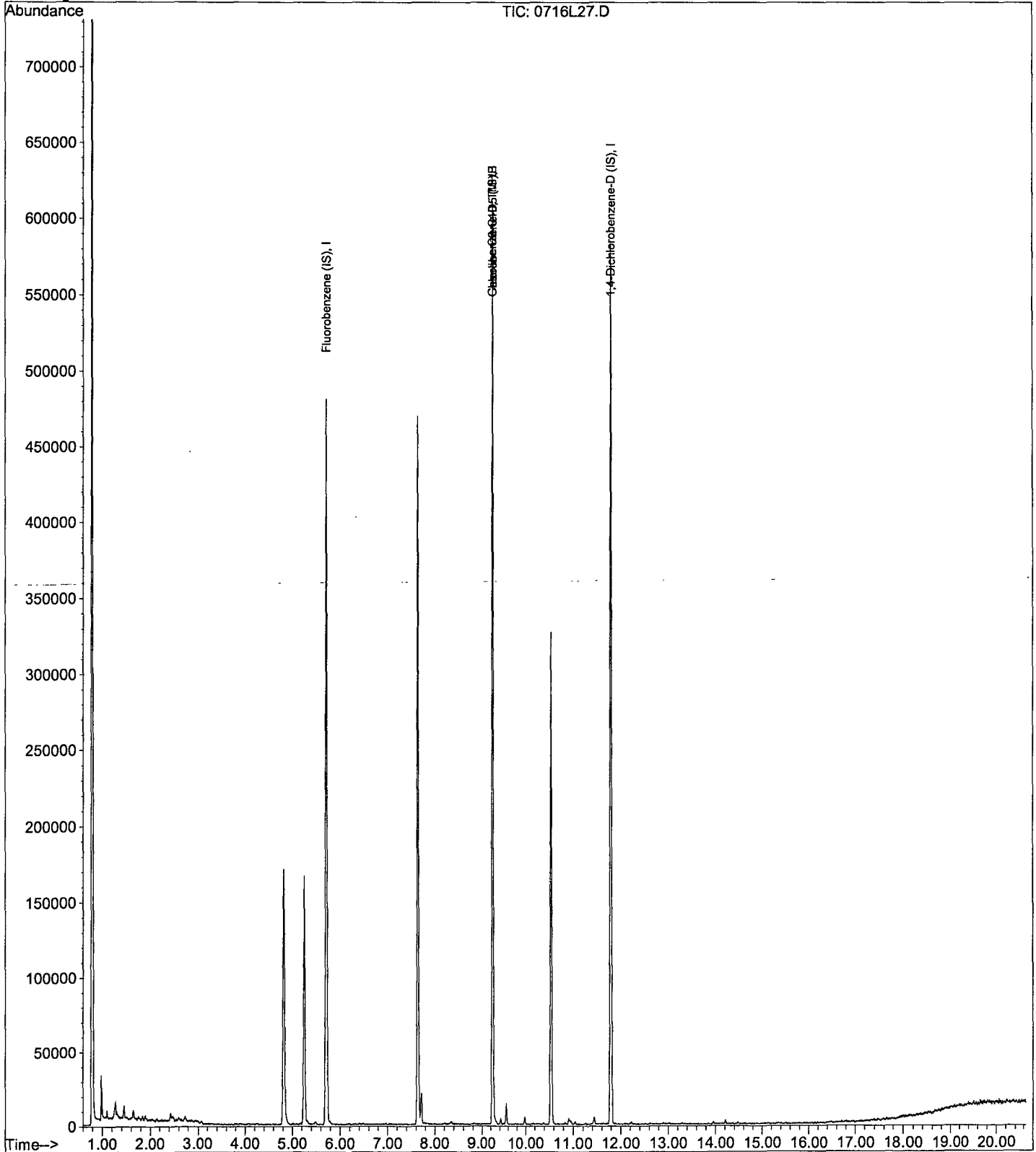
Data File : M:\LOKI\DATA\190715\0716L27.D
Acq On : 16 Jul 19 23:53
Sample : 20ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 26
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:32 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190715\0716L28.D
Acq On : 17 Jul 19 00:22
Sample : 50ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 27
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:31 2019

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 09 11:47:35 2019
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	594203	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	758986	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	708955	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	5571696m	40.60449	ppb	100

(#) = qualifier out of range (m) = manual integration
0716L28.D LGAS716.M Tue Aug 13 11:19:13 2019

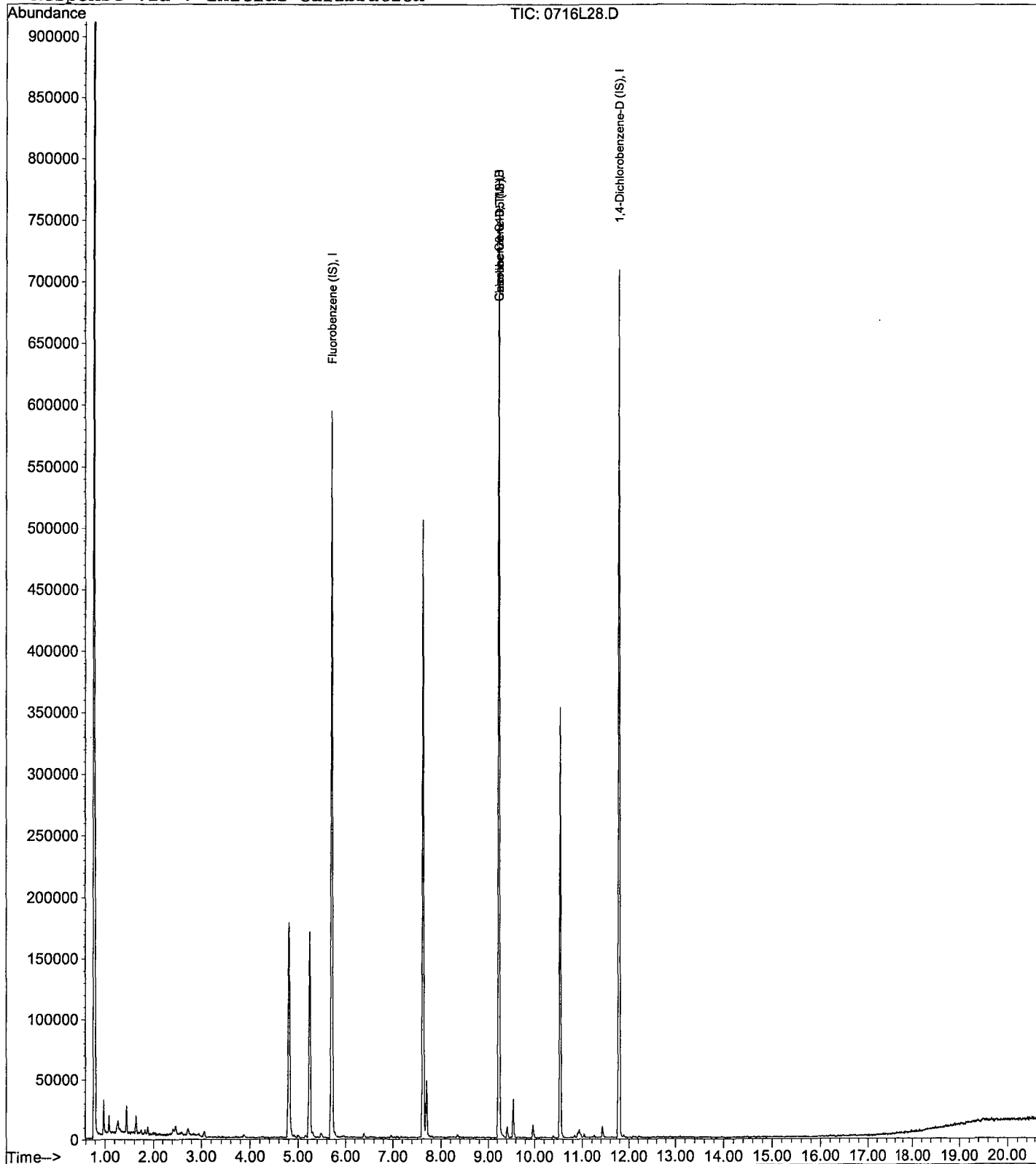
Data File : M:\LOKI\DATA\190715\0716L28.D
Acq On : 17 Jul 19 00:22
Sample : 50ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 27
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:31 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190715\0716L29.D
Acq On : 17 Jul 19 00:51
Sample : 100ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 28
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:30 2019

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 09 11:47:35 2019
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	594985	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	722754	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	744000	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	5876483m	71.10377	ppb	100

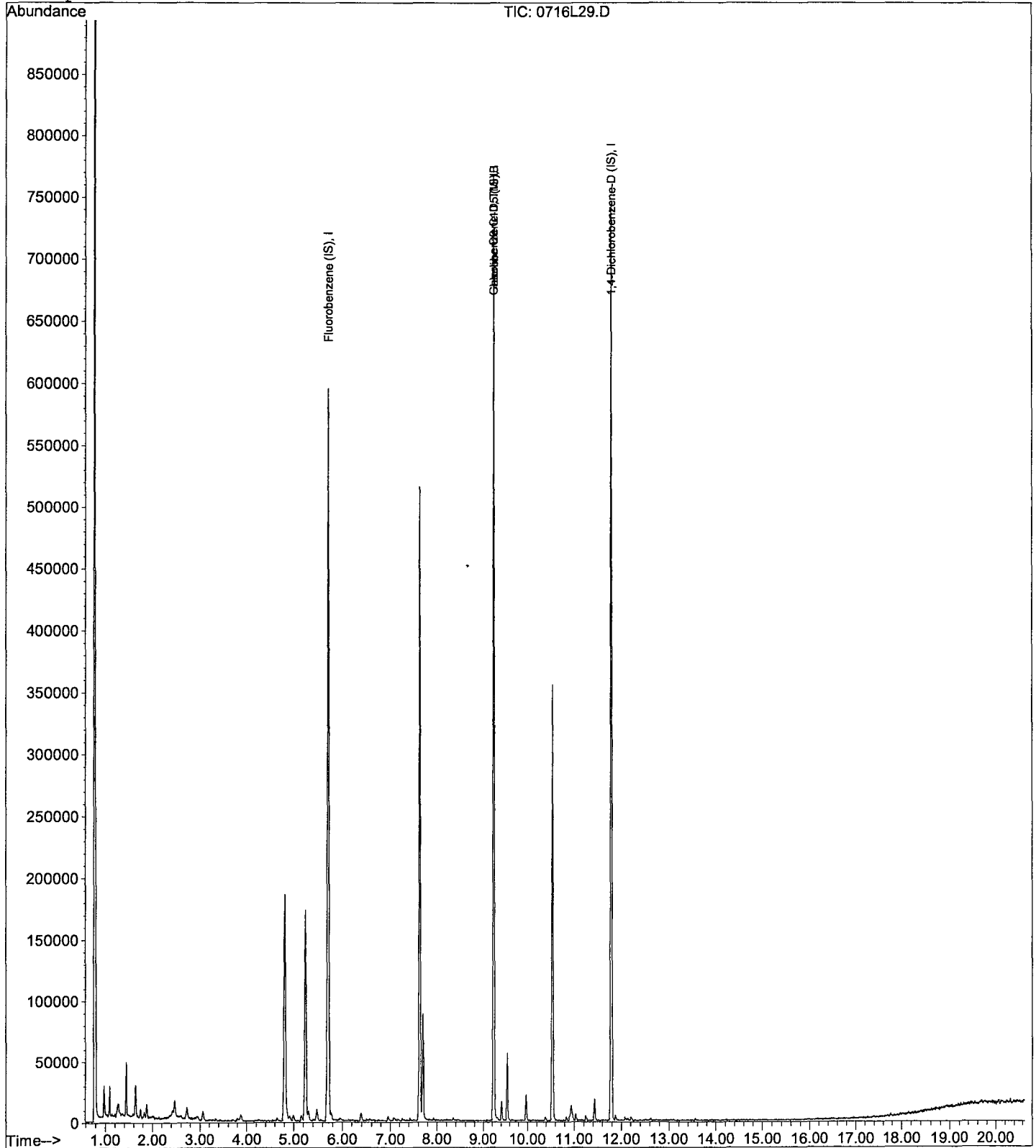
Data File : M:\LOKI\DATA\190715\0716L29.D
Acq On : 17 Jul 19 00:51
Sample : 100ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 28
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:30 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190715\0716L30.D
Acq On : 17 Jul 19 1:20
Sample : 300ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 29
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:27 2019

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 09 11:47:35 2019
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	547842	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	710016	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	682146	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	7372679m	316.31954	ppb	100

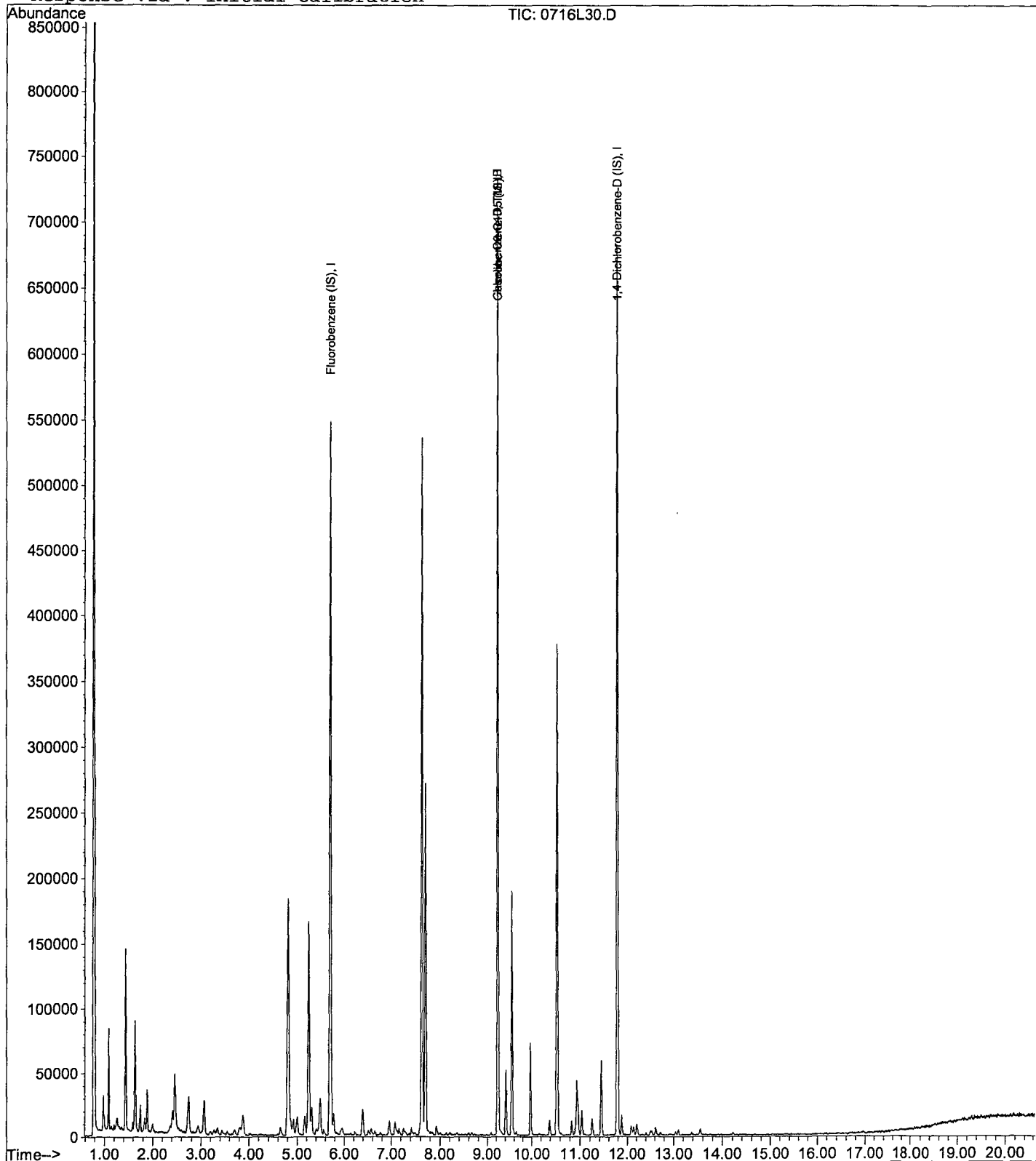
Data File : M:\LOKI\DATA\190715\0716L30.D
Acq On : 17 Jul 19 1:20
Sample : 300ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 29
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:27 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190715\0716L31.D
Acq On : 17 Jul 19 1:48
Sample : 600ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 30
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:28 2019

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 09 11:47:35 2019
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	575651	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	703823	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	740929	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	10288066m	624.88140	ppb	100

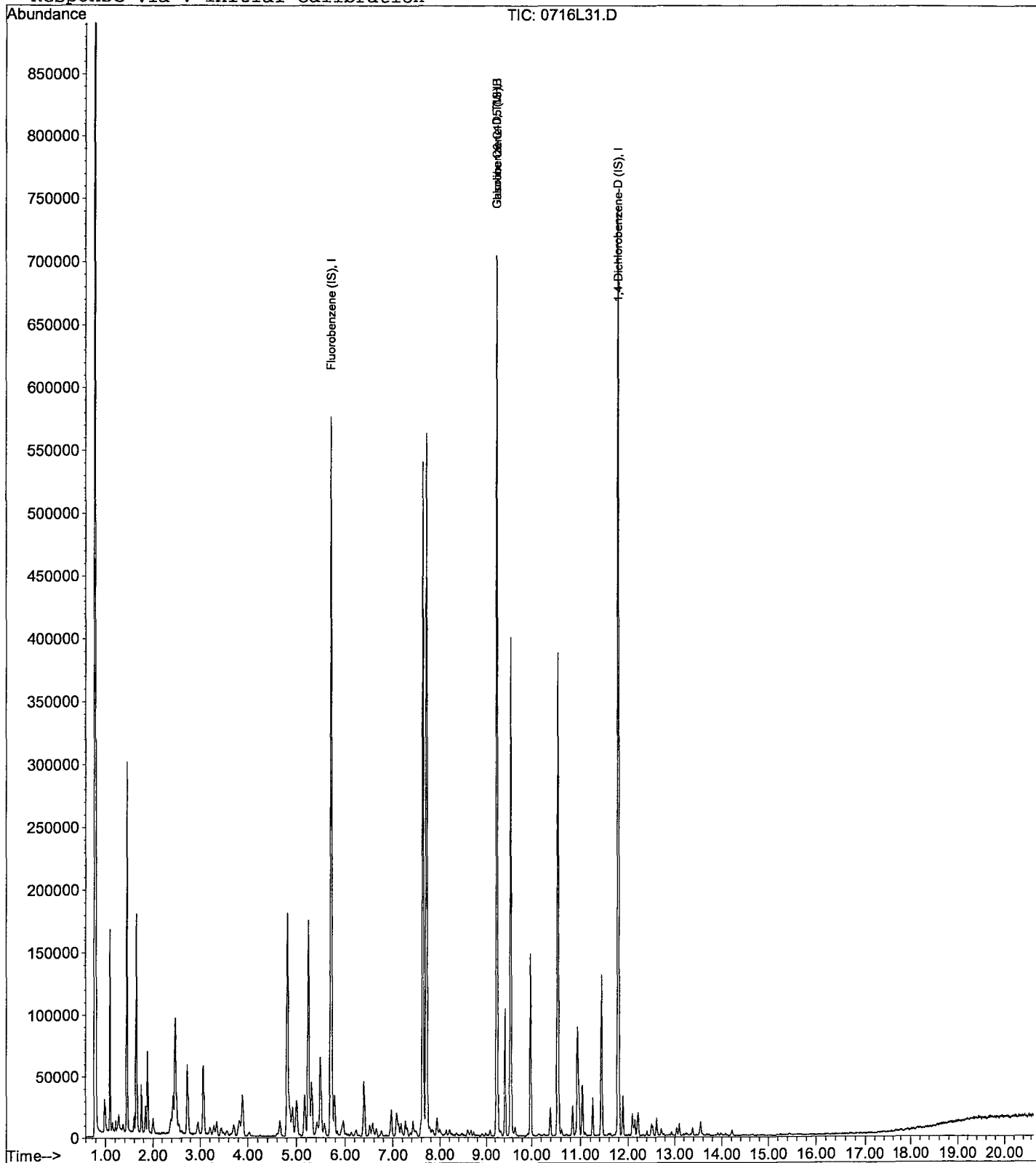
Data File : M:\LOKI\DATA\190715\0716L31.D
Acq On : 17 Jul 19 1:48
Sample : 600ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 30
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:28 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190715\0716L32.D
Acq On : 17 Jul 19 2:17
Sample : 800ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 31
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:29 2019

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 09 11:47:35 2019
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	595326	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	733057	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	771232	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	7.71	TIC	12137970m	791.22280	ppb	100

(#) = qualifier out of range (m) = manual integration
0716L32.D LGAS716.M Tue Aug 13 11:19:43 2019

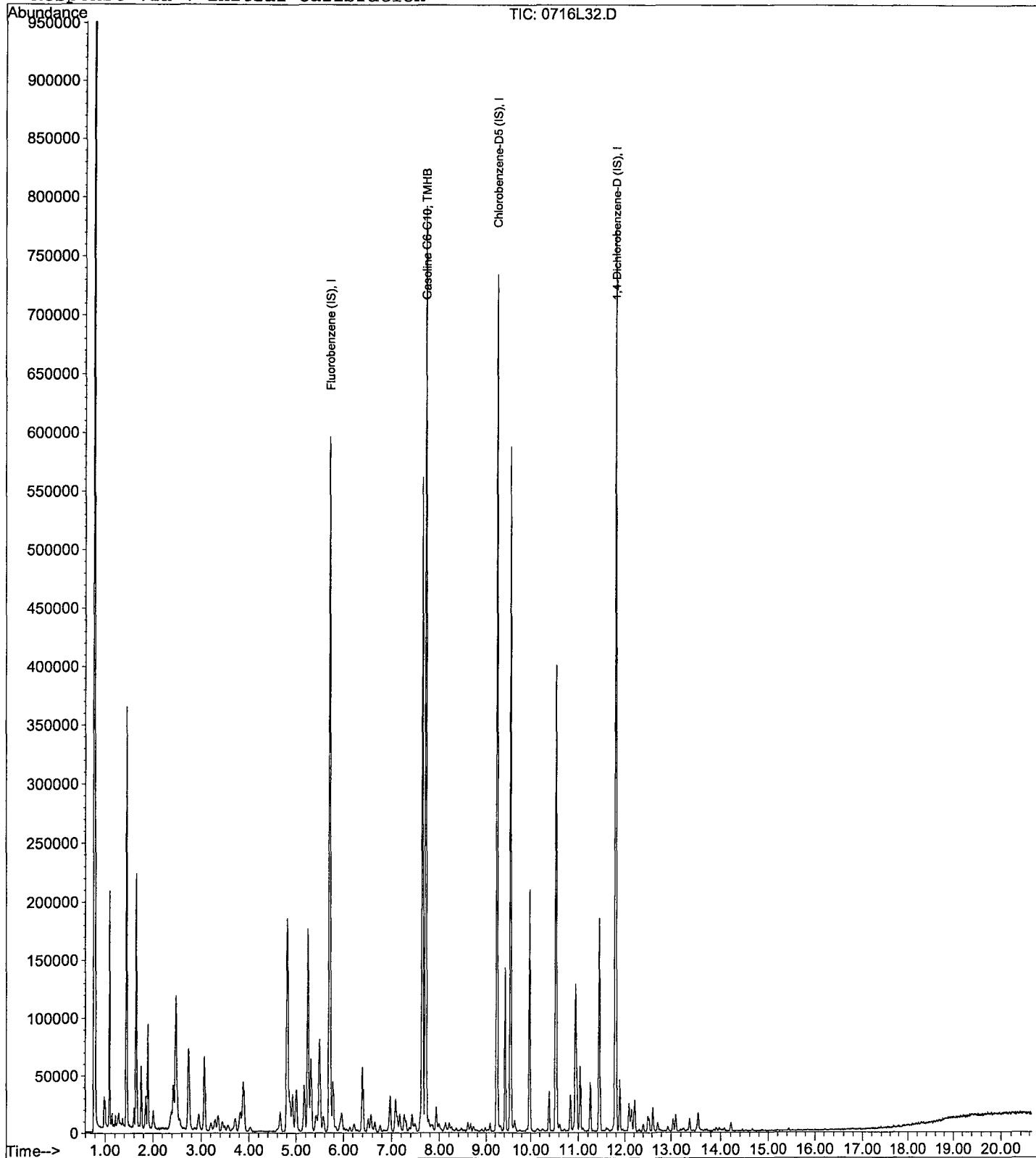
Data File : M:\LOKI\DATA\190715\0716L32.D
Acq On : 17 Jul 19 2:17
Sample : 800ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 31
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:29 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190715\0716L33.D
Acq On : 17 Jul 19 2:46
Sample : 1000ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 32
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:30 2019

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Jul 09 11:47:35 2019
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	554084	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	667853	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	706893	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds					Qvalue
2) Gasoline C6-C10	7.71	TIC	13925982m	1112.42326	ppb 100

(#) = qualifier out of range (m) = manual integration
0716L33.D LGAS716.M Tue Aug 13 11:19:51 2019

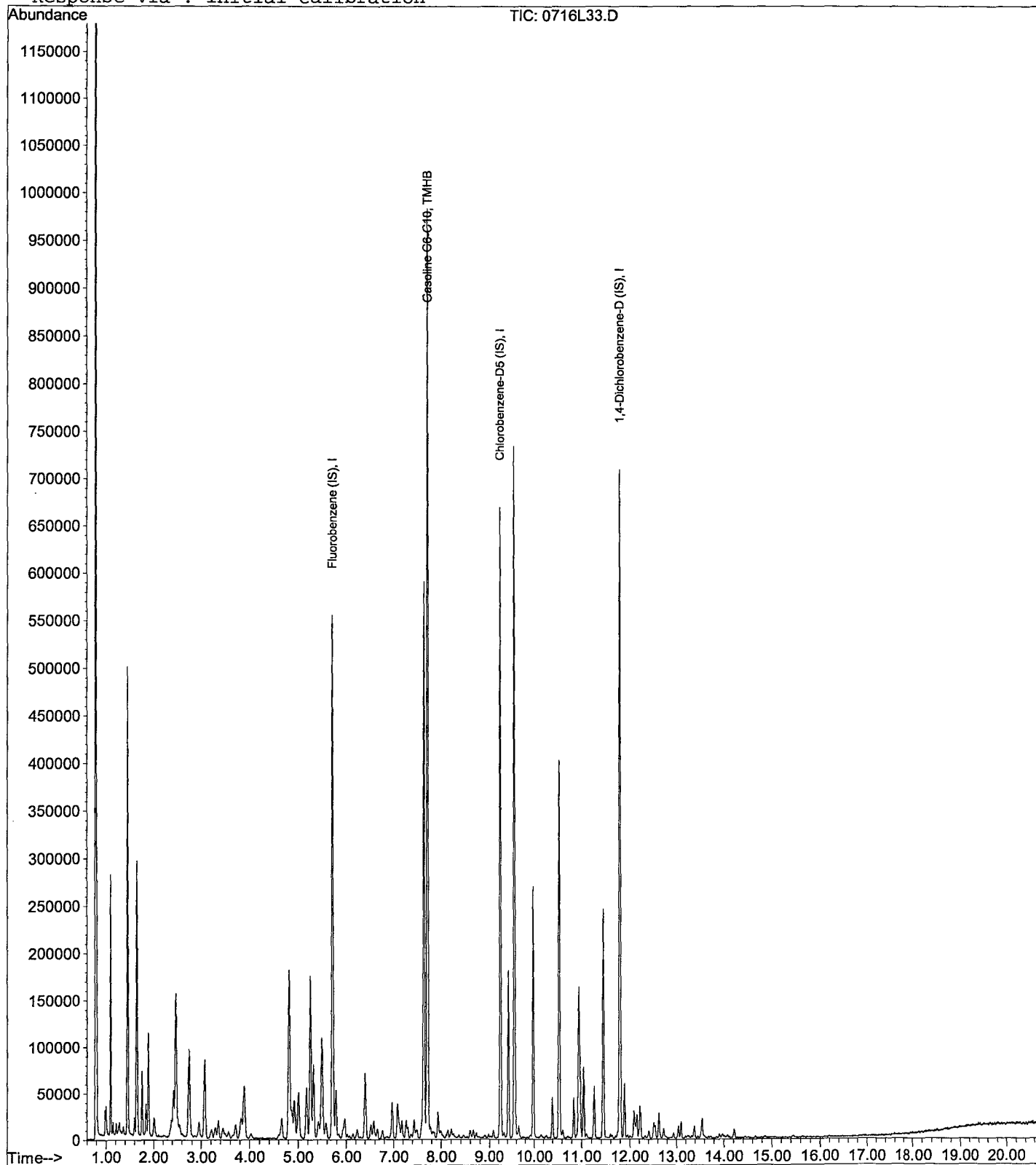
Data File : M:\LOKI\DATA\190715\0716L33.D
Acq On : 17 Jul 19 2:46
Sample : 1000ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 32
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:30 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190715\0716L34.D
Acq On : 17 Jul 19 3:14
Sample : (SS)300ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 33
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:37 2019

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	595148	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	768514	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	719908	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	7981319m	300.16668	ppb	100

(#) = qualifier out of range (m) = manual integration
0716L34.D LGAS716.M Tue Aug 13 11:20:50 2019

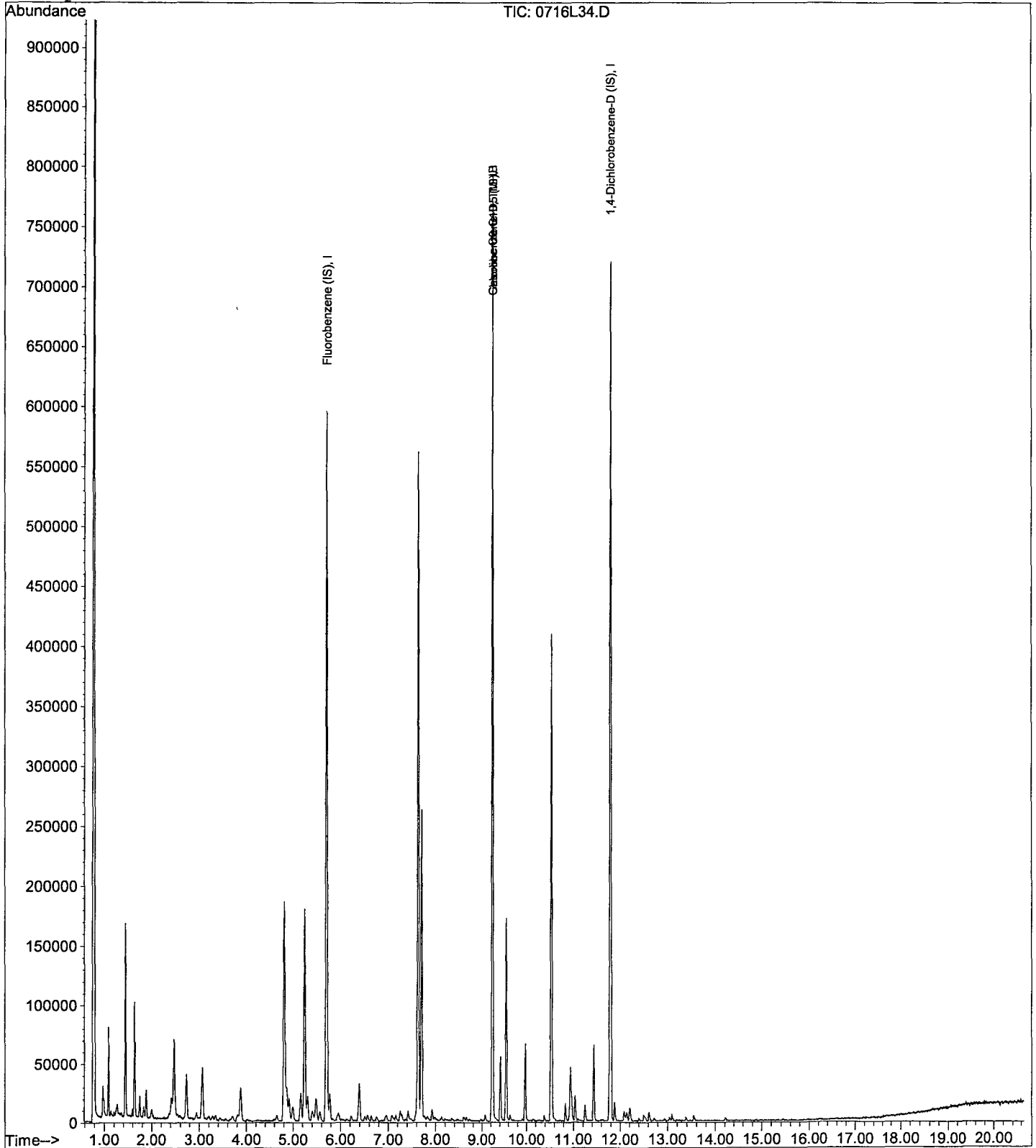
Data File : M:\LOKI\DATA\190715\0716L34.D
Acq On : 17 Jul 19 3:14
Sample : (SS)300ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 33
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:37 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc. _____
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 7/17/2019
Instrument: Loki
Initial Cal. Date: 7/17/2019
Data File: 0716L34.D

	Compound	MEAN	CCRF	%D	%Drift
1	TMHB Gasoline C6-C10	3.213	1.118	65	TMHBL 0.06
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
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23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40	Average			65.0	

Data File : M:\LOKI\DATA\190715\0716L34.D
Acq On : 17 Jul 19 3:14
Sample : (SS)300ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 33
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:37 2019

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190715\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	595148	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	768514	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	719908	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	7981319m	300.16668	ppb	100

(#) = qualifier out of range (m) = manual integration
0716L34.D LGAS716.M Tue Aug 13 11:22:13 2019

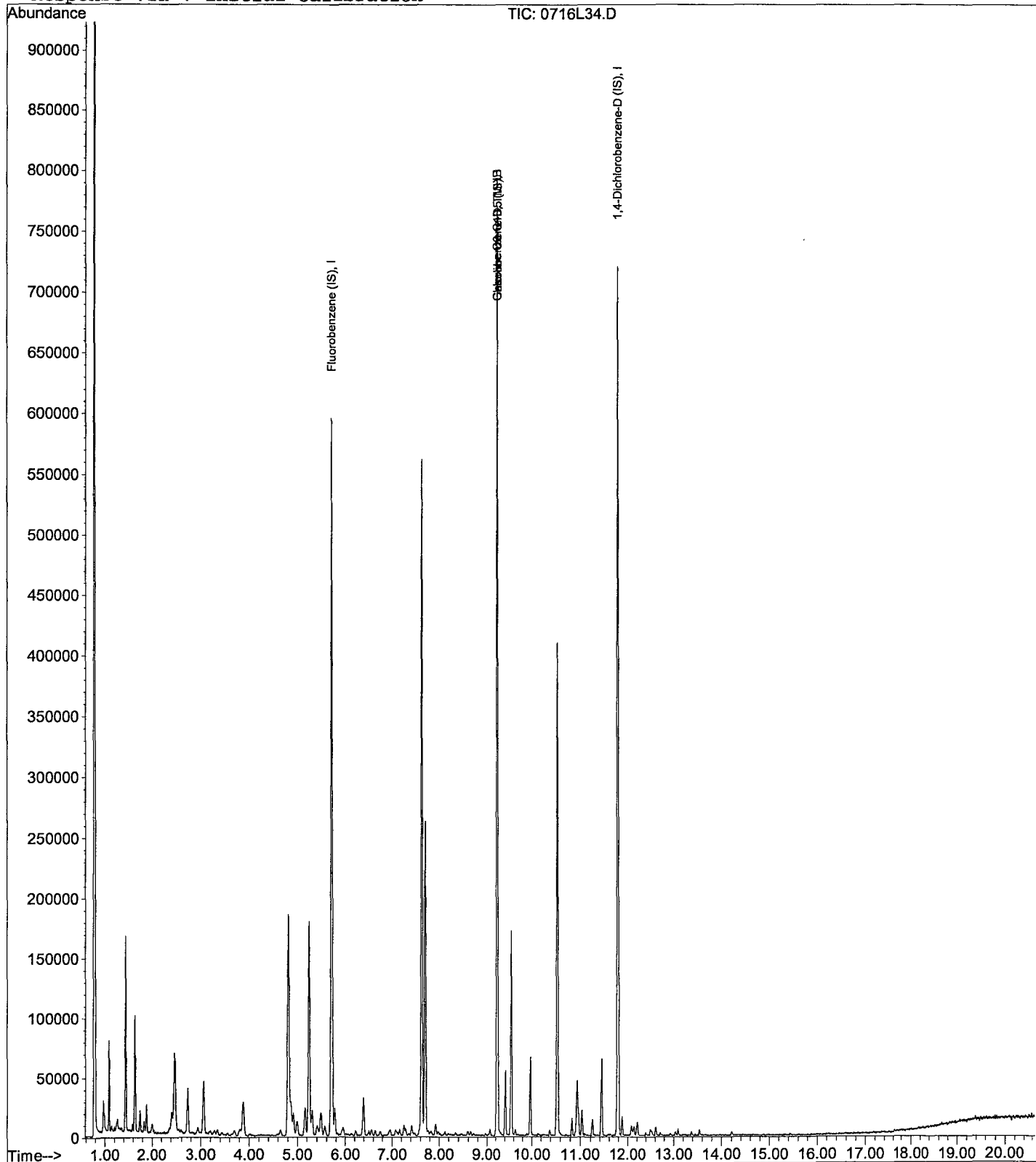
Data File : M:\LOKI\DATA\190715\0716L34.D
Acq On : 17 Jul 19 3:14
Sample : (SS)300ug/L GAS STD 7/16/19
Misc : IS&S 7/15/19,6/5/19

Vial: 33
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 17 12:37 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 7/31/2019
Instrument: Loki
Initial Cal. Date: 7/24/2019
Data File: 0730L49.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Fluorobenzene (IS)	ISTD			I
2	TMHB Gasoline C6-C10	3.213	1.086	66	TMHBL 7.9
3	I Chlorobenzene-D5 (IS)	ISTD			I
4	I 1,4-Dichlorobenzene-D (IS)	ISTD			I
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
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22					
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25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40	Average			66.0	

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 7/31/2019

Matrix: _____

Instrument: Loki

Initial Cal. Date: 7/17/2019

Data File: 0730L49.D

	Compound	MEAN	CCRF	%D	%Drift
1	| Fluorobenzene (IS)	ISTD			|
2	TMHB Gasoline C6-C10	3.213	1.086	66	TMHBL 7.9
3	| Chlorobenzene-D5 (IS)	ISTD			|
4	| 1,4-Dichlorobenzene-D (IS)	ISTD			|
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40	Average			66.0	

Data File : M:\LOKI\DATA\190730\0730L49.D Vial: 43
 Acq On : 31 Jul 19 5:50 Operator:
 Sample : 190730B CCV 300ug/L Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Jul 31 9:14 2019 Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Wed Jul 17 12:32:37 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	544401	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	645458	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	660966	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	7096875m	276.16084	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

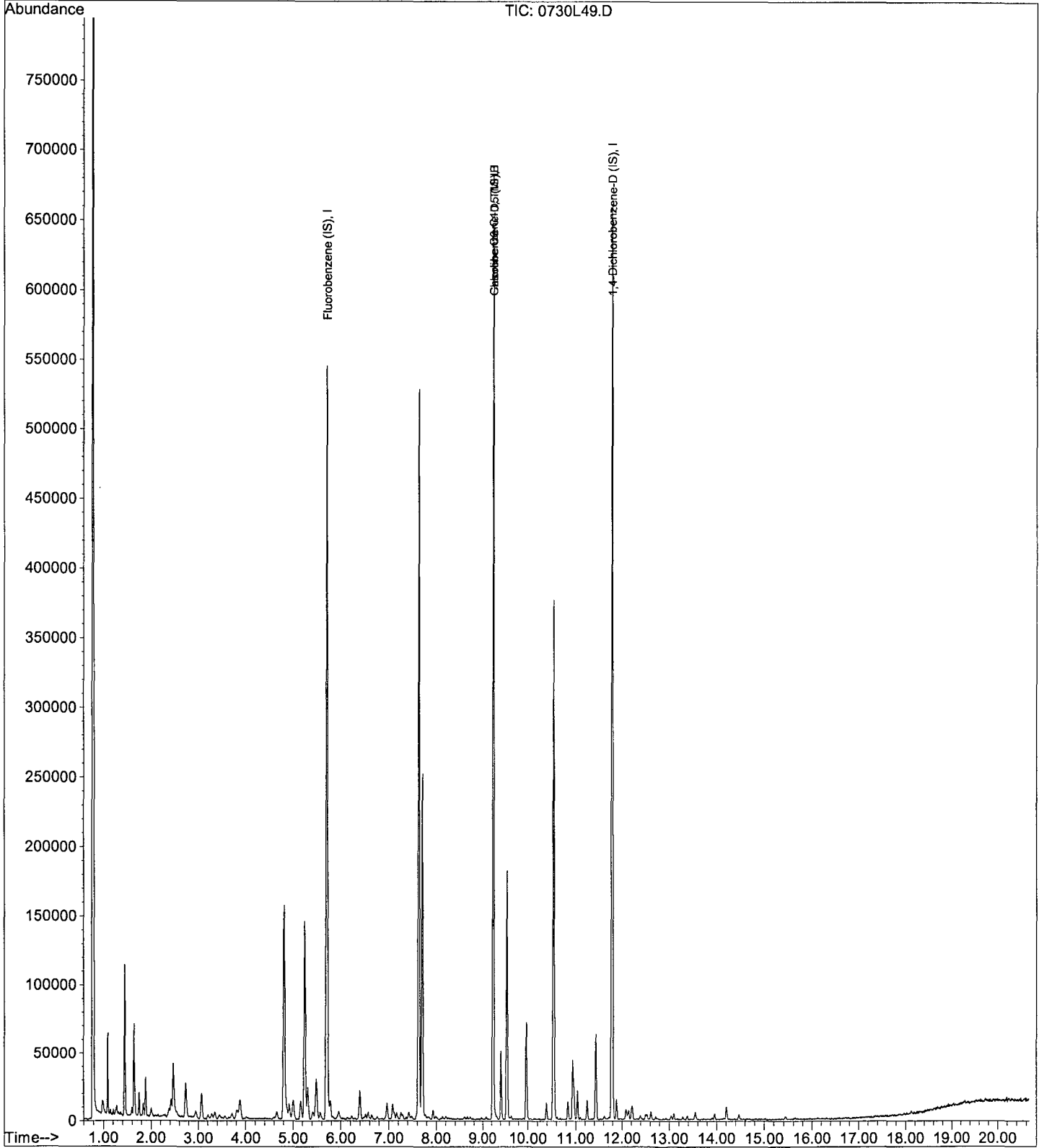
Data File : M:\LOKI\DATA\190730\0730L49.D
Acq On : 31 Jul 19 5:50
Sample : 190730B CCV 300ug/L
Misc : IS&S 7/15/19,6/5/19

Vial: 43
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 31 9:14 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 7/31/2019

Matrix: _____

Instrument: Loki

Initial Cal. Date: 7/17/2019

Data File: 0730L58.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	TMHB	Gasoline C6-C10	3.213	1.053	67	TMHBL	17
3	I	Chlorobenzene-D5 (IS)	ISTD			I	
4	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40		Average			67.0		

Data File : M:\LOKI\DATA\190730\0730L58.D Vial: 52
 Acq On : 31 Jul 19 10:09 Operator:
 Sample : Ending CCV 300ug/L 07/30/19 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Aug 1 9:27 2019 Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Wed Jul 17 12:32:37 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	448558	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	534839	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	557298	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	5665686m	250.18729	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

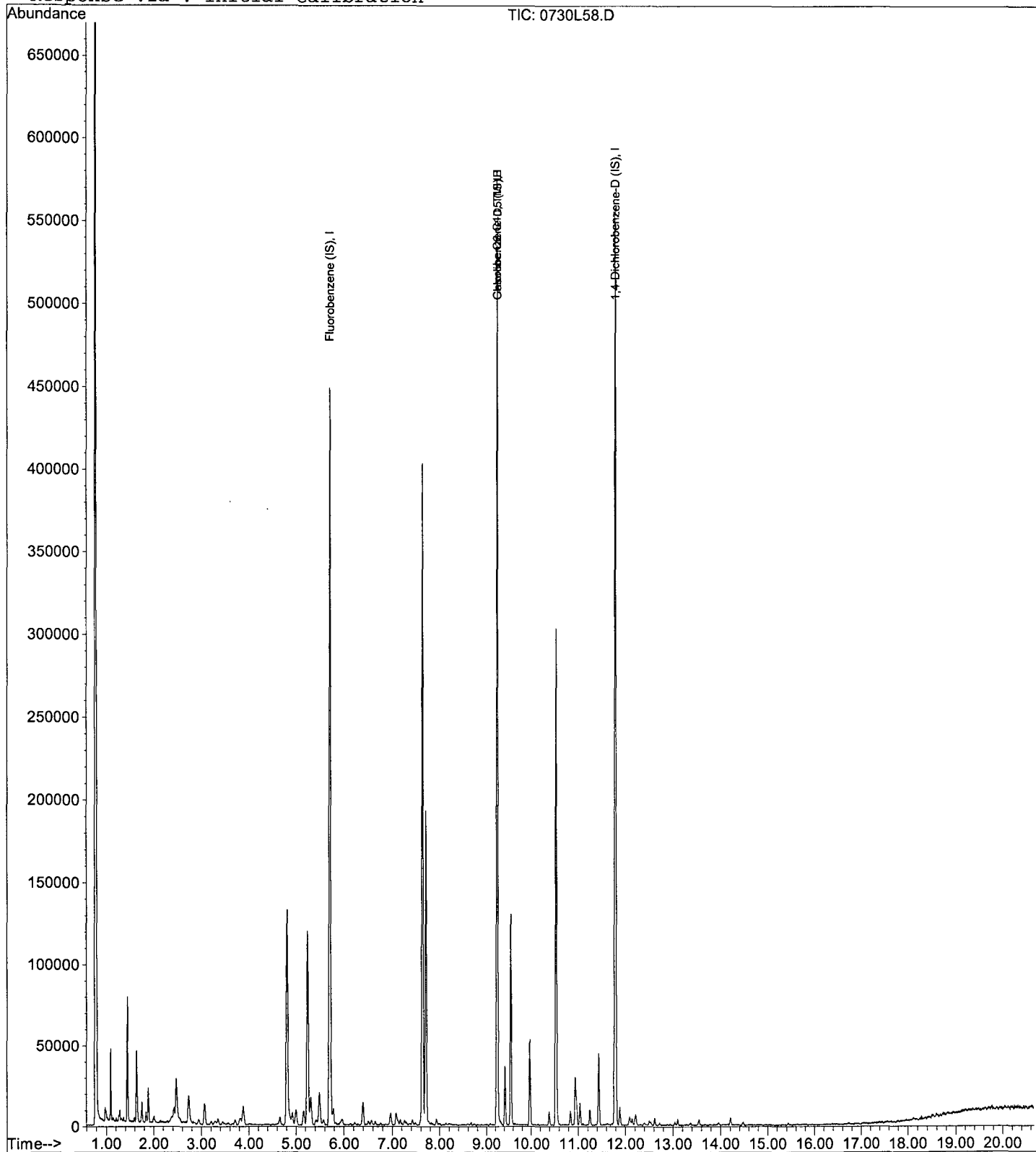
Data File : M:\LOKI\DATA\190730\0730L58.D
Acq On : 31 Jul 19 10:09
Sample : Ending CCV 300ug/L 07/30/19
Misc : IS&S 7/15/19,6/5/19

Vial: 52
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Aug 1 9:27 2019

Quant Results File: LGAS716.RES

Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Jul 17 12:32:37 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 7/24/2019
Instrument: Loki

Initials: DG/LP

0724L15.D 0724L16.D 0724L17.D 0724L18.D 0724L19.D 0724L20.D 0724L21.D 0724L22.D 0724L23.D

	Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	r^2	Q	MF
1	I Fluorobenzene (IS)																
2	S Dibromofluoromethane(S)	0.4886	0.4703	0.4153	0.4400	0.4699	0.4590	0.4183	0.4399	0.3839		0.44	7.4	S			
3	S 1,2-DCA-D4(S)	0.5208	0.4633	0.4317	0.4417	0.4813	0.4669	0.4327	0.4576	0.3960		0.45	7.8	S			
4	I Chlorobenzene-D5 (IS)																
5	S Toluene-D8(S)	1.575	1.432	1.295	1.387	1.593	1.580	1.582	1.688	1.539		1.5	8.1	S			
6	S 4-Bromofluorobenzene(S)	0.5257	0.4587	0.4310	0.4437	0.5416	0.5563	0.5718	0.6085	0.5893		0.53	12	S			
7	I 1,4-Dichlorobenzene-D (IS)																
8																	
9																	
10																	
11																	
12																	
13																	
14																	
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27																	
28																	
29																	
30																	
31																	
32																	
33																	
34																	
35																	

Acq On : 24 Jul 19 15:18
Sample : 0.3ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:26 2019

Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	228544	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	199232	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	97600	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	22334	5.51715	ppb	0.00
Spiked Amount	25.000		Recovery	=	22.068%	
3) 1,2-DCA-D4(S)	5.25	65	23807	5.72780	ppb	0.00
Spiked Amount	25.000		Recovery	=	22.912%	
5) Toluene-D8(S)	7.63	98	62762	5.18479	ppb	0.00
Spiked Amount	25.000		Recovery	=	20.740%	
6) 4-Bromofluorobenzene(S)	10.53	95	20946	5.00457	ppb	0.00
Spiked Amount	25.000		Recovery	=	20.020%	

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration
0724L15.D LSUR0724.M Tue Aug 13 10:19:54 2019

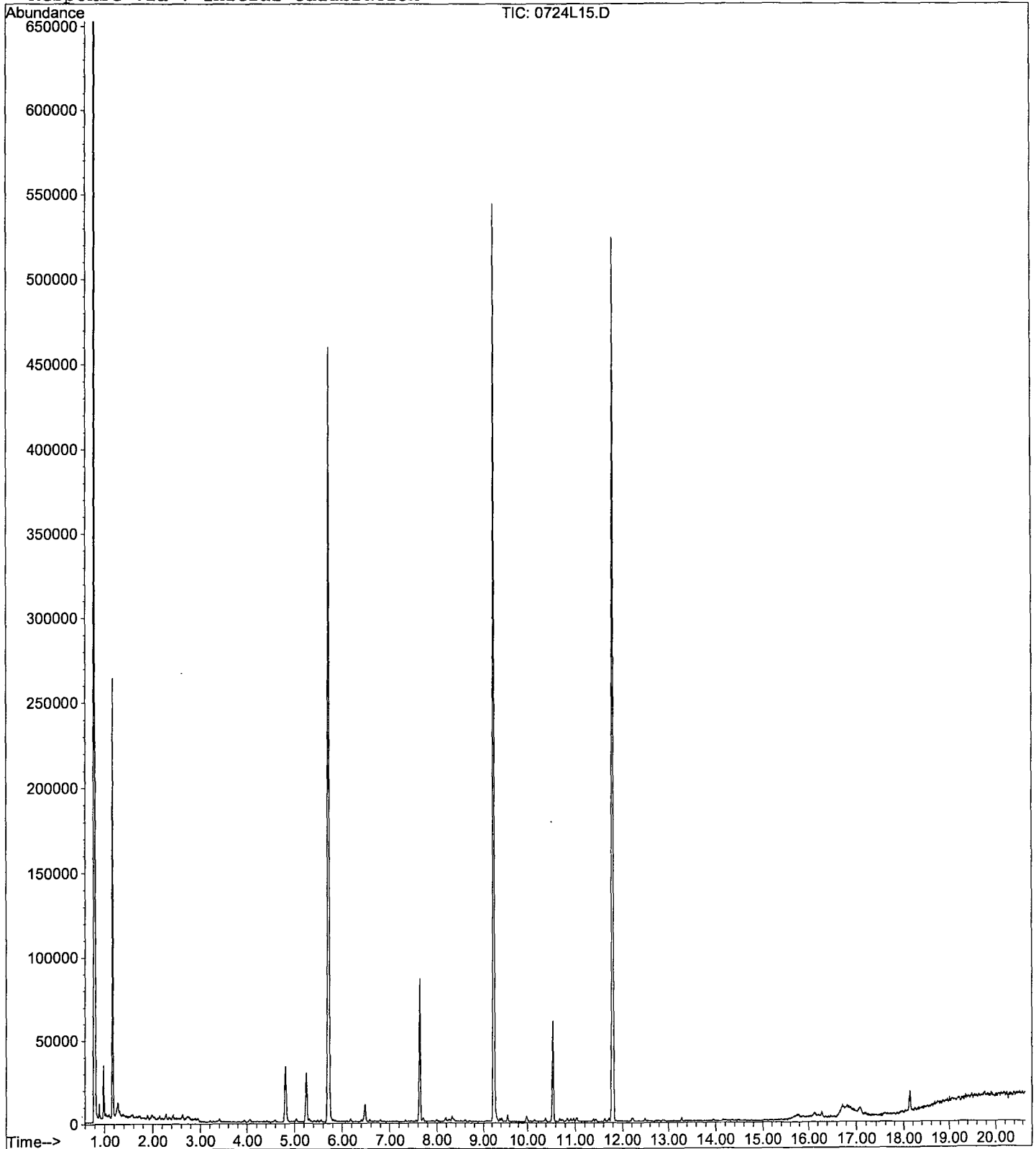
Acq On : 24 Jul 19 15:18
Sample : 0.3ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:26 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L16.D
 Acq On : 24 Jul 19 15:47
 Sample : 0.5ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 5
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:26 2019

Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	244160	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	220672	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	107432	25.00000	ppb	0.00

System Monitoring Compounds

2) Dibromofluoromethane(S)	4.81	111	22968	5.31089	ppb	0.00
Spiked Amount 25.000			Recovery =	21.244%		
3) 1,2-DCA-D4(S)	5.24	65	22625	5.09527	ppb	0.00
Spiked Amount 25.000			Recovery =	20.380%		
5) Toluene-D8(S)	7.63	98	63183	4.71245	ppb	0.00
Spiked Amount 25.000			Recovery =	18.848%		
6) 4-Bromofluorobenzene(S)	10.54	95	20244	4.36691	ppb	0.00
Spiked Amount 25.000			Recovery =	17.468%		

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration
 0724L16.D LSUR0724.M Tue Aug 13 10:19:55 2019

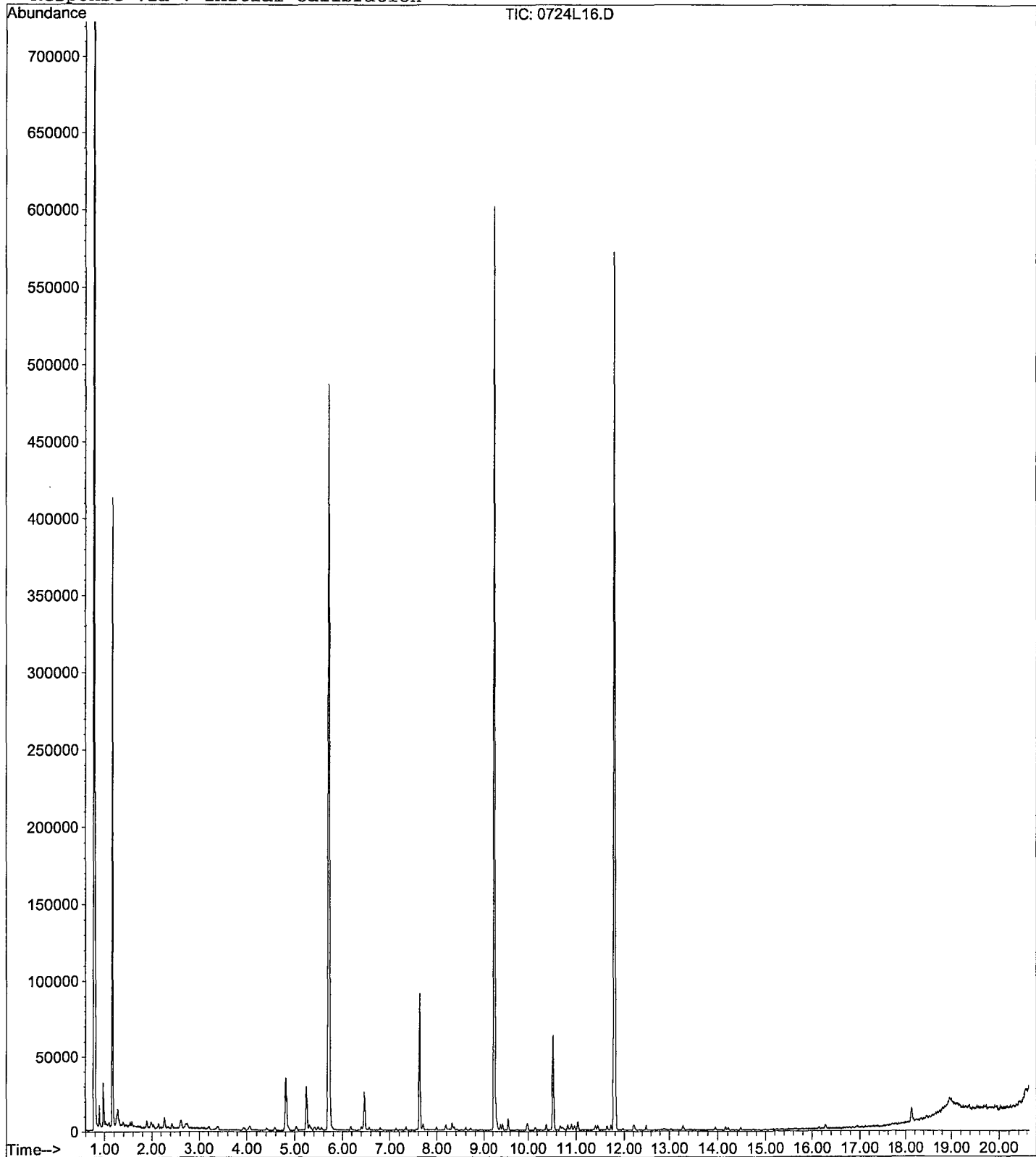
Data File : M:\LOKI\DATA\190724\0724L16.D
Acq On : 24 Jul 19 15:47
Sample : 0.5ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 5
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:26 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L17.D
 Acq On : 24 Jul 19 16:16
 Sample : 1.0ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 0
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:26 2019

Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	236160	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	213952	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	109896	25.00000	ppb	0.00

System Monitoring Compounds

2) Dibromofluoromethane(S)	4.81	111	39231	9.37867	ppb	0.00
Spiked Amount 25.000			Recovery	=	37.516%	
3) 1,2-DCA-D4(S)	5.25	65	40780	9.49498	ppb	0.00
Spiked Amount 25.000			Recovery	=	37.980%	
5) Toluene-D8(S)	7.63	98	110803	8.52371	ppb	0.00
Spiked Amount 25.000			Recovery	=	34.096%	
6) 4-Bromofluorobenzene(S)	10.54	95	36883	8.20606	ppb	0.00
Spiked Amount 25.000			Recovery	=	32.824%	

Target Compounds

Qvalue

 (#) = qualifier out of range (m) = manual integration
 0724L17.D LSUR0724.M Tue Aug 13 10:19:56 2019

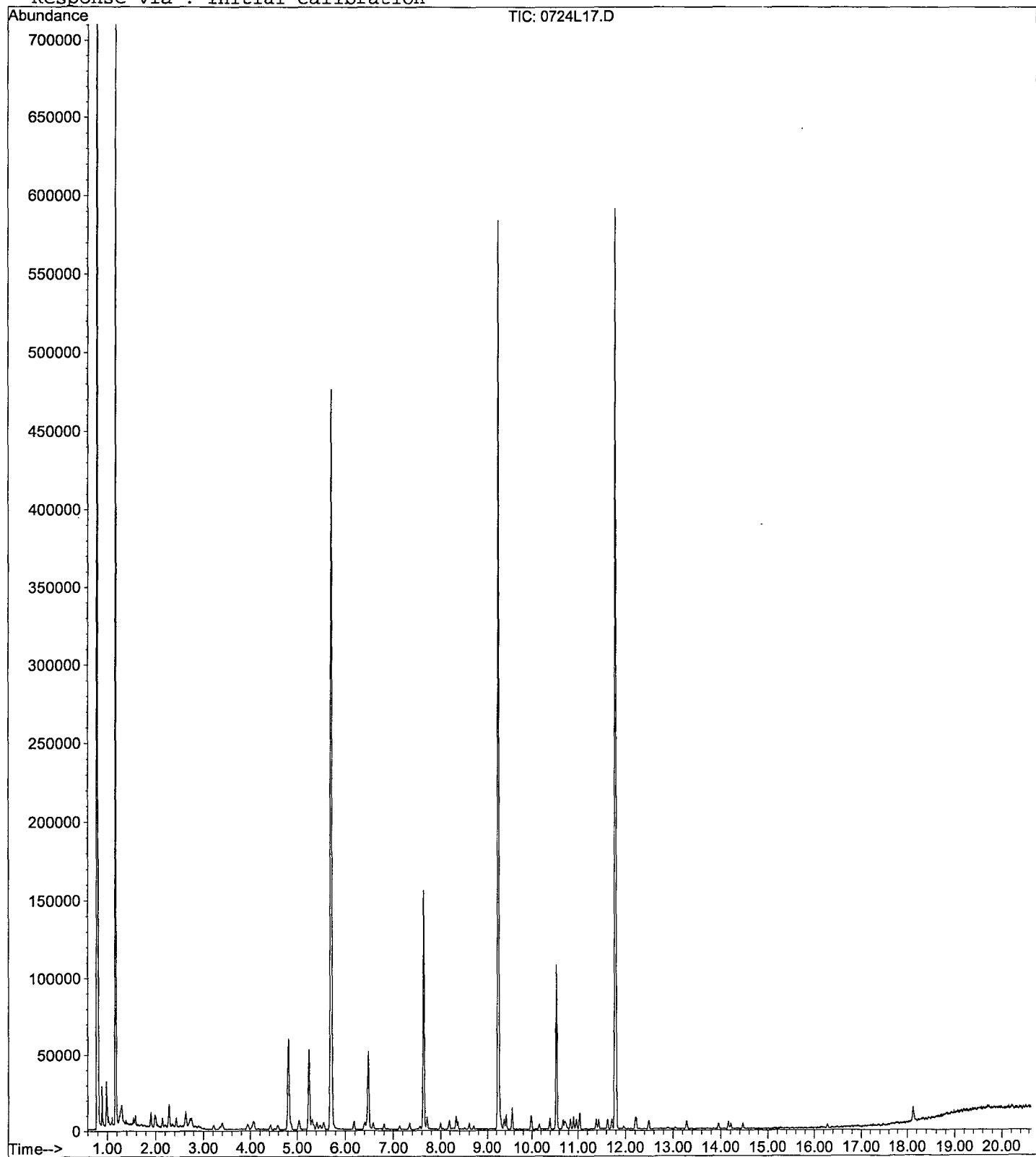
Data file : M:\LOKI\DATA\190724\0724L17.D
Acq On : 24 Jul 19 16:16
Sample : 1.0ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 6
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:26 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190724\0724L18.D
 Acq On : 24 Jul 19 16:45
 Sample : 2.0ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: /
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:27 2019

Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	228736	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	203328	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	106872	25.00000	ppb	0.00

System Monitoring Compounds

2) Dibromofluoromethane(S)	4.81	111	40260	9.93705	ppb	0.00
Spiked Amount						
3) 1,2-DCA-D4(S)	5.25	65	40410	9.71421	ppb	0.00
Spiked Amount						
5) Toluene-D8(S)	7.63	98	112797	9.13049	ppb	0.00
Spiked Amount						
6) 4-Bromofluorobenzene(S)	10.53	95	36090	8.44918	ppb	0.00
Spiked Amount						

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration
 0724L18.D LSUR0724.M Tue Aug 13 10:19:58 2019

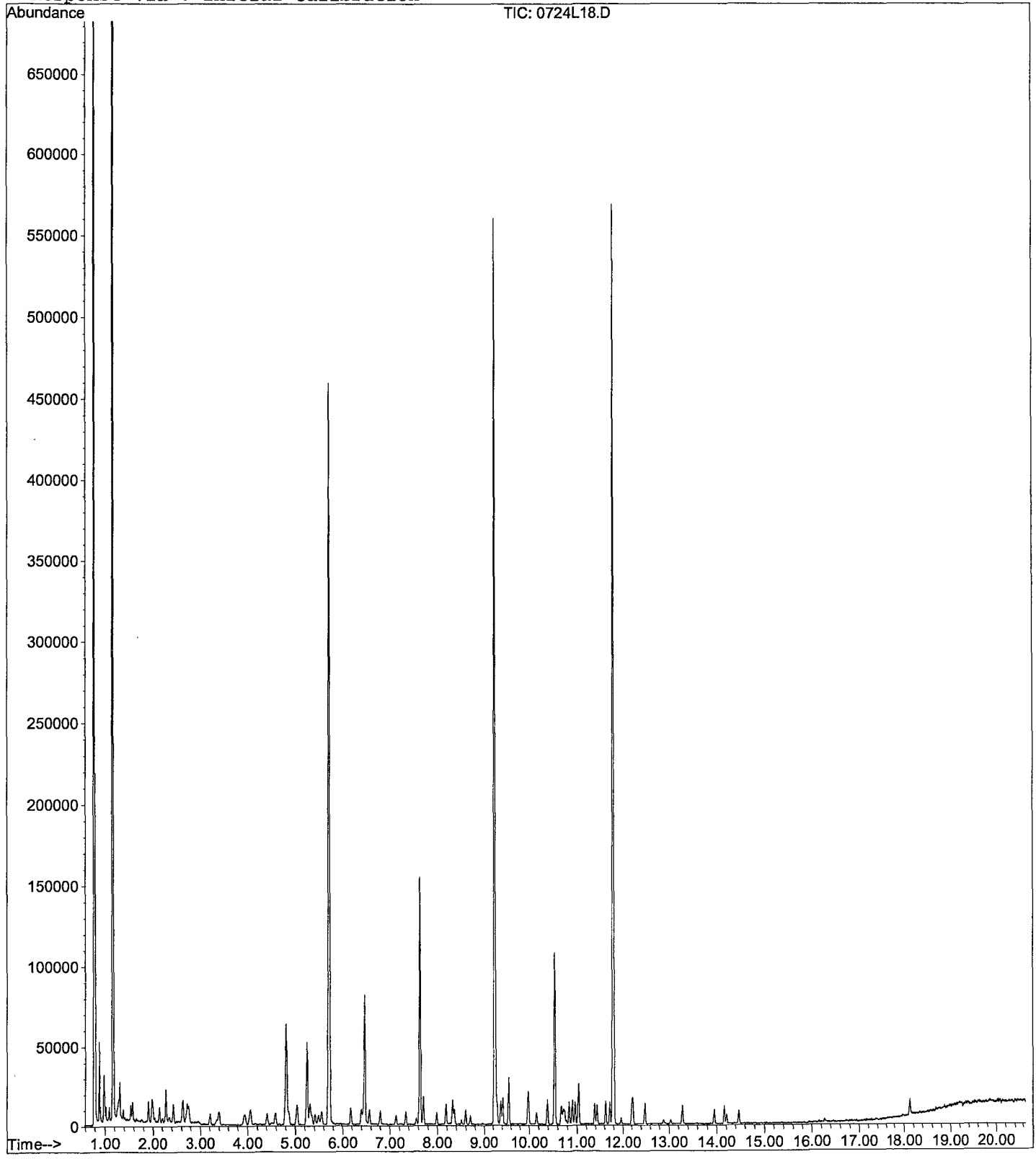
Data File : M:\LOKI\DATA\190724\0724L18.D
Acq On : 24 Jul 19 16:45
Sample : 2.0ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 7
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:27 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Acq On : 24 Jul 19 17:14
 Sample : 5.0ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:27 2019

Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	226368	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	203008	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	112968	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	106359	26.52635	ppb	0.00
Spiked Amount	25.000		Recovery	=	106.104%	
3) 1,2-DCA-D4(S)	5.24	65	108946	26.46362	ppb	0.00
Spiked Amount	25.000		Recovery	=	105.856%	
5) Toluene-D8(S)	7.63	98	323314	26.21230	ppb	0.00
Spiked Amount	25.000		Recovery	=	104.848%	
6) 4-Bromofluorobenzene(S)	10.54	95	109955	25.78259	ppb	0.00
Spiked Amount	25.000		Recovery	=	103.132%	

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration
 0724L19.D LSUR0724.M Tue Aug 13 10:19:59 2019

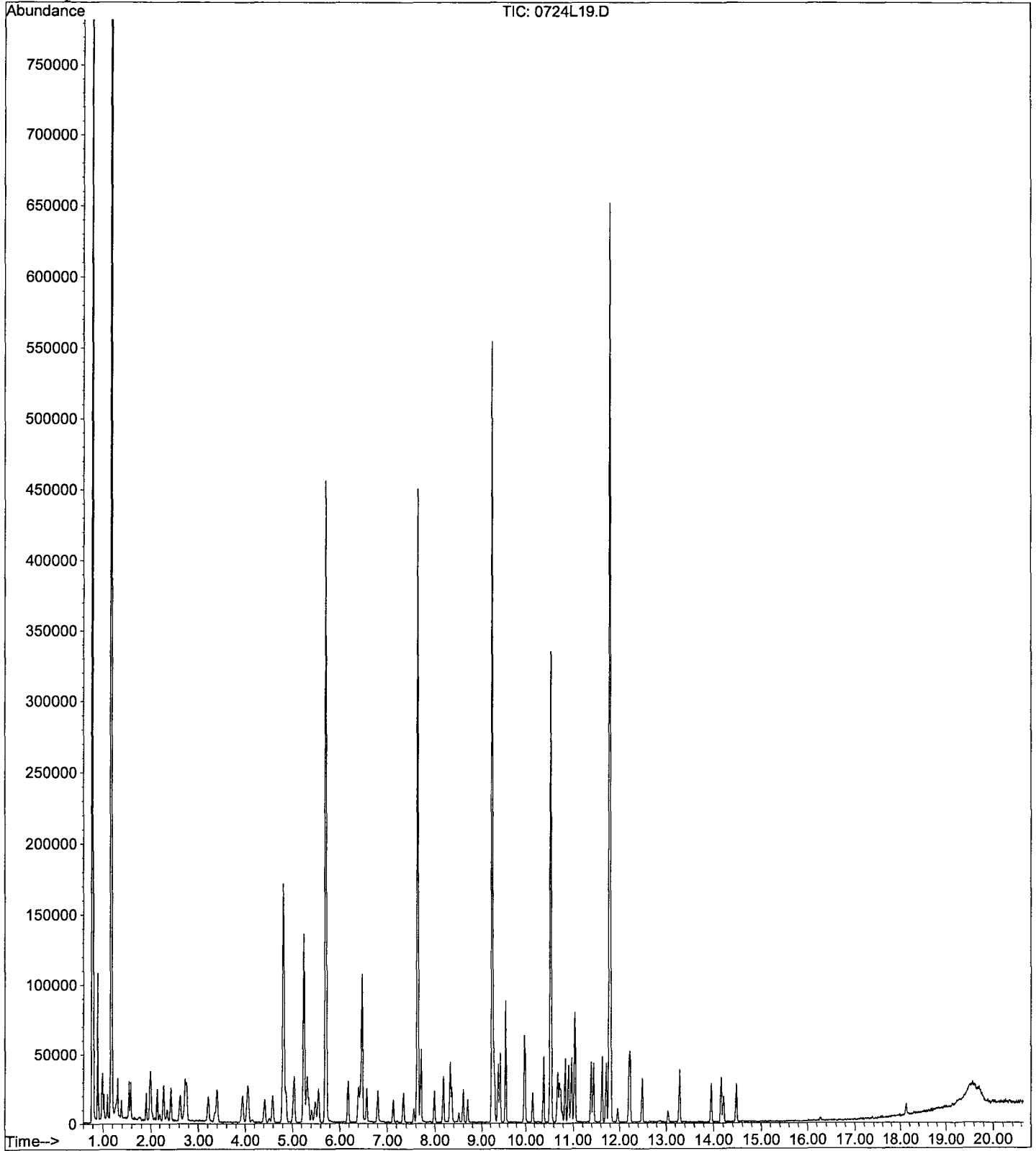
Data File : M:\LOKI\DATA\190724\0724L19.D
Acq On : 24 Jul 19 17:14
Sample : 5.0ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 8
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:27 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Acq On : 24 Jul 19 17:42
 Sample : 10ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:27 2019

Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	232960	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	215616	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	119352	25.00000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.81	111	106937	25.91582	ppb	0.00
Spiked Amount 25.000					Recovery = 103.664%	
3) 1,2-DCA-D4(S)	5.25	65	108770	25.67325	ppb	0.00
Spiked Amount 25.000					Recovery = 102.692%	
5) Toluene-D8(S)	7.63	98	340696	26.00637	ppb	0.00
Spiked Amount 25.000					Recovery = 104.024%	
6) 4-Bromofluorobenzene(S)	10.53	95	119955	26.48269	ppb	0.00
Spiked Amount 25.000					Recovery = 105.932%	

Target Compounds Qvalue

 (#) = qualifier out of range (m) = manual integration
 0724L20.D LSUR0724.M Tue Aug 13 10:20:01 2019

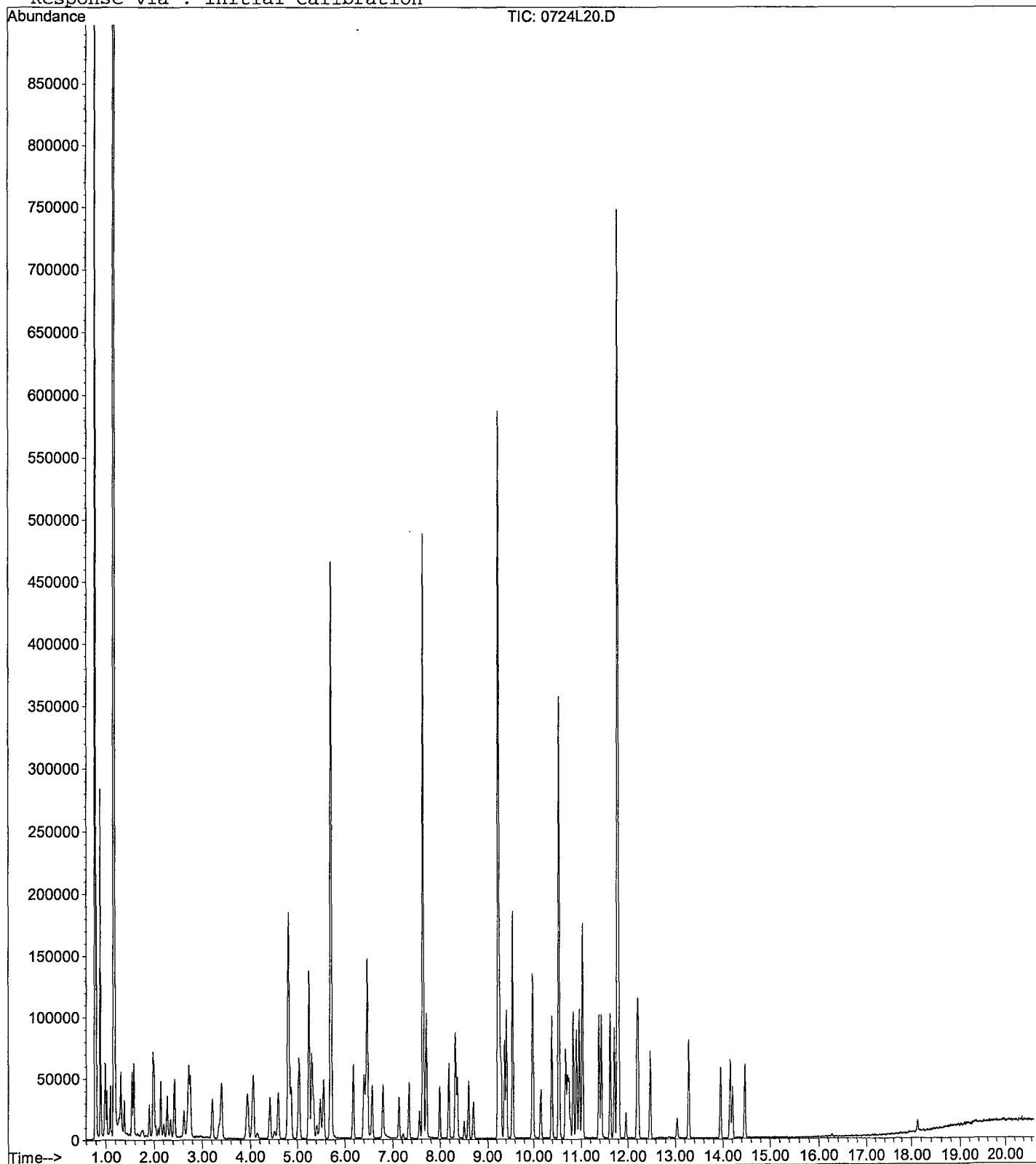
Data File : M:\LOKI\DATA\190724\0724L20.D
Acq On : 24 Jul 19 17:42
Sample : 10ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 9
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:27 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



----- : M:\LOKI\DATA\190724\0724L21.D
 Acq On : 24 Jul 19 18:11
 Sample : 20ug/L VOC STD 07/24/19
 Misc : IS&S 7/15/19,6/5/19

Vial: 10
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Jul 29 13:27 2019

Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	252480	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	227712	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	144064	25.00000	ppb	0.00

System Monitoring Compounds

2) Dibromofluoromethane(S)	4.81	111	211246	47.23673	ppb	0.00
Spiked Amount						
						Recovery = 188.948%
3) 1,2-DCA-D4(S)	5.25	65	218495	47.58472	ppb	0.00
Spiked Amount						
						Recovery = 190.340%
5) Toluene-D8(S)	7.63	98	720478	52.07491	ppb	0.00
Spiked Amount						
						Recovery = 208.300%
6) 4-Bromofluorobenzene(S)	10.53	95	260415	54.43833	ppb	0.00
Spiked Amount						
						Recovery = 217.752%

Target Compounds

Qvalue

 (#) = qualifier out of range (m) = manual integration
 0724L21.D LSUR0724.M Tue Aug 13 10:20:02 2019

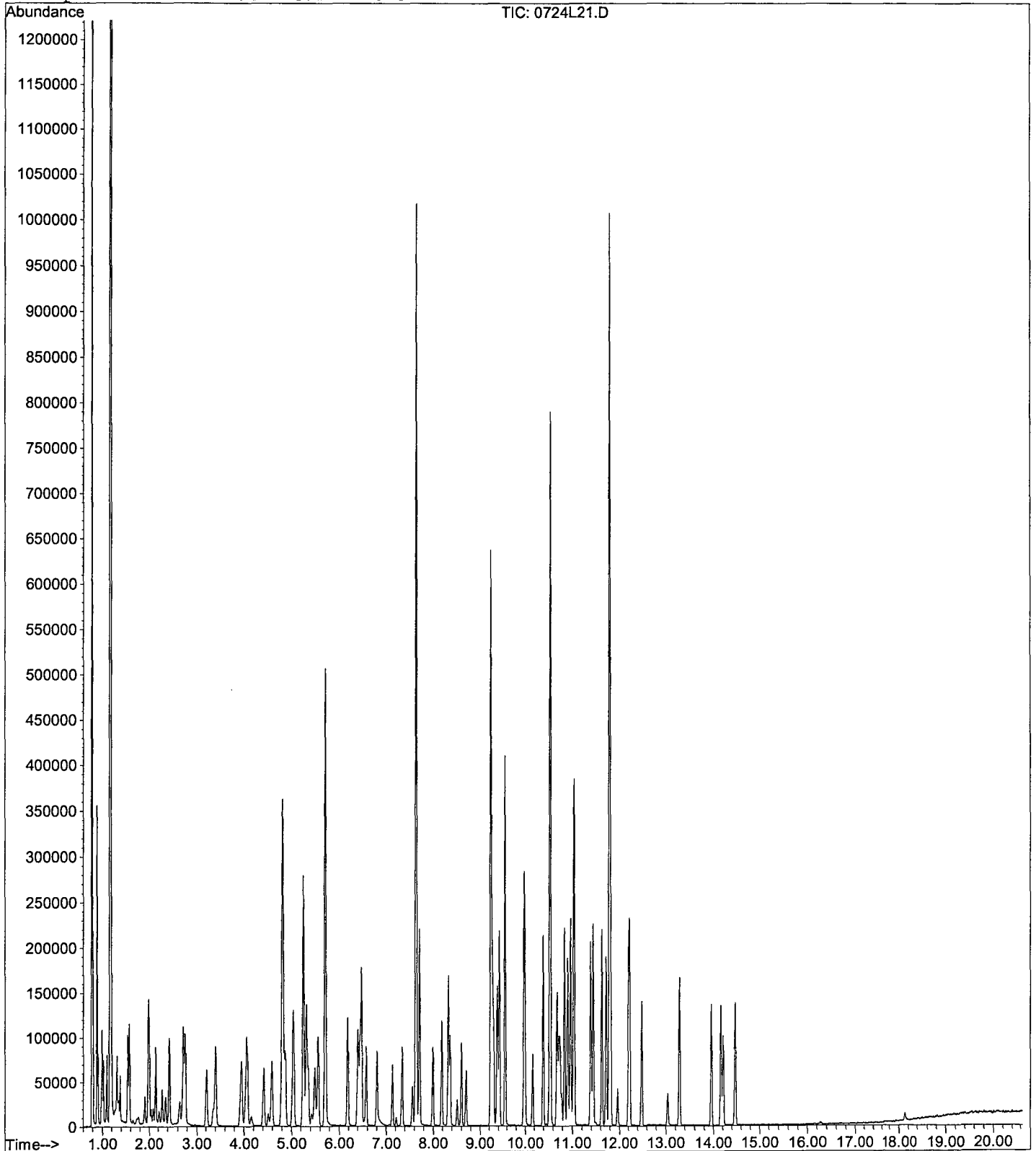
Data File : M:\LOKI\DATA\190724\0724L21.D
Acq On : 24 Jul 19 18:11
Sample : 20ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Vial: 10
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:27 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Acq On : 24 Jul 19 18:40
Sample : 40ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

vial: 11
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:27 2019

Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	248128	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	215680	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	139584	25.00000	ppb	0.00

System Monitoring Compounds

2) Dibromofluoromethane(S)	4.81	111	218290	49.66797	ppb	0.00
Spiked Amount 25.000			Recovery =	198.672%		
3) 1,2-DCA-D4(S)	5.24	65	227070	50.31958	ppb	0.00
Spiked Amount 25.000			Recovery =	201.280%		
5) Toluene-D8(S)	7.63	98	728244	55.57260	ppb	0.00
Spiked Amount 25.000			Recovery =	222.292%		
6) 4-Bromofluorobenzene(S)	10.54	95	262492	57.93366	ppb	0.00
Spiked Amount 25.000			Recovery =	231.736%		

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration
0724L22.D LSUR0724.M Tue Aug 13 10:20:04 2019

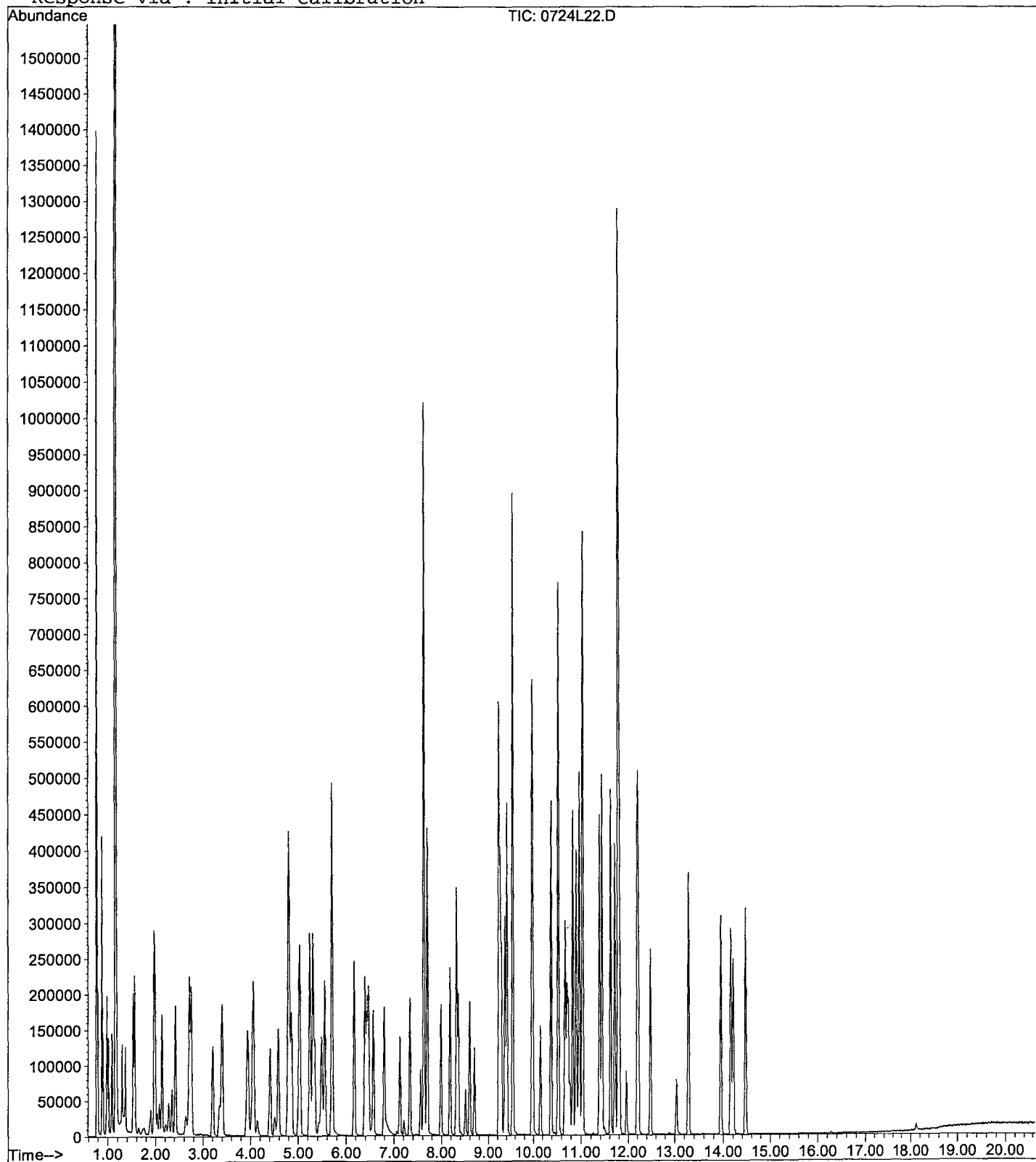
Acq On : 24 Jul 19 18:40
Sample : 40ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:27 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Acq On : 24 Jul 19 19:09
Sample : 100ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:27 2019

Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	269568	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	231552	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	170944	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	413989	86.70393	ppb	0.00
Spiked Amount	25.000		Recovery	=	346.816%	
3) 1,2-DCA-D4(S)	5.24	65	426960	87.09072	ppb	0.00
Spiked Amount	25.000		Recovery	=	348.364%	
5) Toluene-D8(S)	7.63	98	1425773	101.34342	ppb	0.00
Spiked Amount	25.000		Recovery	=	405.372%	
6) 4-Bromofluorobenzene(S)	10.53	95	545842	112.21300	ppb	0.00
Spiked Amount	25.000		Recovery	=	448.852%	

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration
0724L23.D LSUR0724.M Tue Aug 13 10:20:05 2019

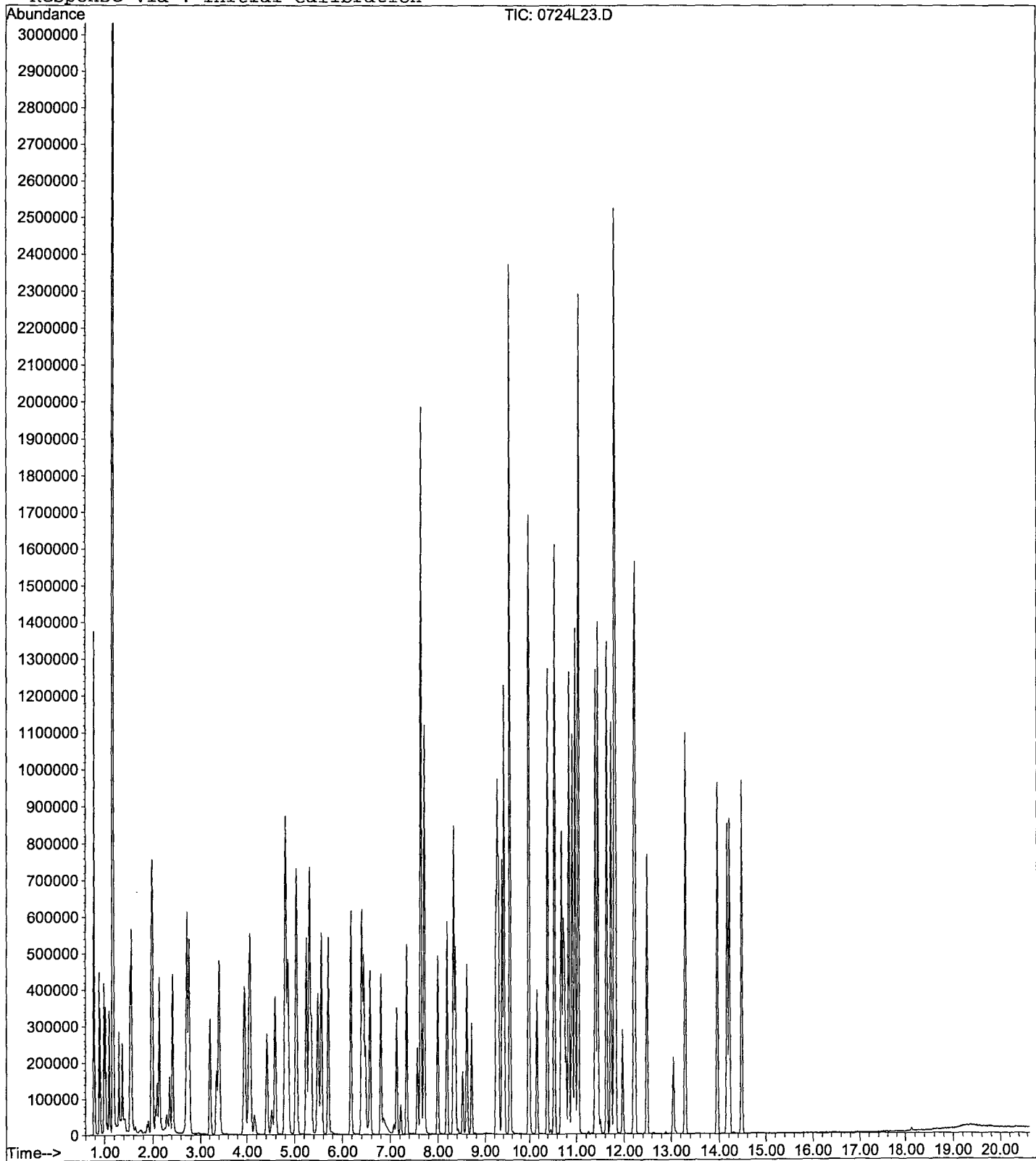
Acq On : 24 Jul 19 19:09
Sample : 100ug/L VOC STD 07/24/19
Misc : IS&S 7/15/19,6/5/19

Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Jul 29 13:27 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



ORGANICS
Raw Data

Data File : M:\LOKI\DATA\190730\0730L53.D
 Acq On : 31 Jul 19 7:45
 Sample : AZ95510W01
 Misc : IS&S 7/15/19,6/5/19
 MS Integration Params: LSCINT.P
 Quant Time: Aug 1 9:26 2019

Vial: 47
 Operator:
 Inst : Loki
 Multiplr: 1.00000

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Wed Jul 17 12:32:37 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.71	TIC	468929	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	566898	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	539620	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0730L53.D LGAS716.M Tue Aug 13 11:54:45 2019

Data File : M:\LOKI\DATA\190730\0730L53.D Vial: 47
 Acq On : 31 Jul 19 7:45 Operator:
 Sample : AZ95510W01 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Aug 1 9:28 2019 Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	237312	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	210816	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	103040	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	104244	24.79989	ppb	0.00
Spiked Amount	25.000			Recovery =	99.200%	
3) 1,2-DCA-D4(S)	5.24	65	105275	24.39263	ppb	0.00
Spiked Amount	25.000			Recovery =	97.572%	
5) Toluene-D8(S)	7.63	98	323264	25.23757	ppb	0.00
Spiked Amount	25.000			Recovery =	100.952%	
6) 4-Bromofluorobenzene(S)	10.54	95	106338	24.01097	ppb	0.00
Spiked Amount	25.000			Recovery =	96.044%	

Target Compounds Qvalue

Quantitation Report

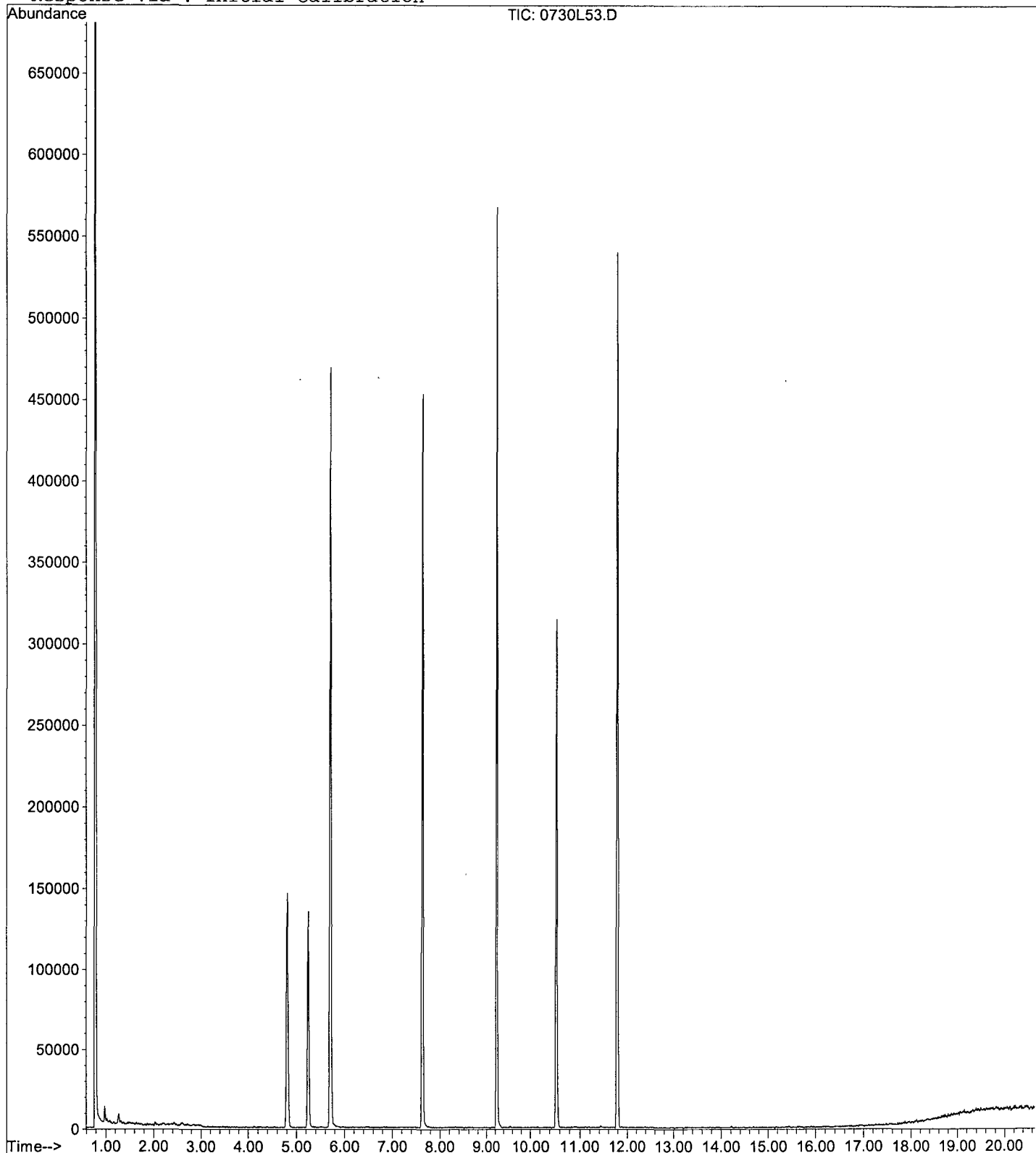
Data File : M:\LOKI\DATA\190730\0730L53.D
Acq On : 31 Jul 19 7:45
Sample : AZ95510W01
Misc : IS&S 7/15/19,6/5/19

Vial: 47
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Aug 1 9:28 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190730\0730L54.D
 Acq On : 31 Jul 19 8:13
 Sample : AZ95511W01
 Misc : IS&S 7/15/19,6/5/19
 MS Integration Params: LSCINT.P
 Quant Time: Aug 1 9:26 2019

Vial: 48
 Operator:
 Inst : Loki
 Multiplr: 1.00000

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Wed Jul 17 12:32:37 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.71	TIC	464516	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	546170	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	548618	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0730L54.D LGAS716.M Tue Aug 13 11:54:57 2019

Data File : M:\LOKI\DATA\190730\0730L54.D Vial: 48
 Acq On : 31 Jul 19 8:13 Operator:
 Sample : AZ95511W01 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Aug 1 9:28 2019 Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	232768	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	202368	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	101592	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	99397	24.10840	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.432%	
3) 1,2-DCA-D4(S)	5.24	65	101905	24.07272	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.292%	
5) Toluene-D8(S)	7.63	98	311155	25.30630	ppb	0.00
Spiked Amount	25.000		Recovery	=	101.224%	
6) 4-Bromofluorobenzene(S)	10.53	95	104134	24.49489	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.980%	

Target Compounds Qvalue

Quantitation Report

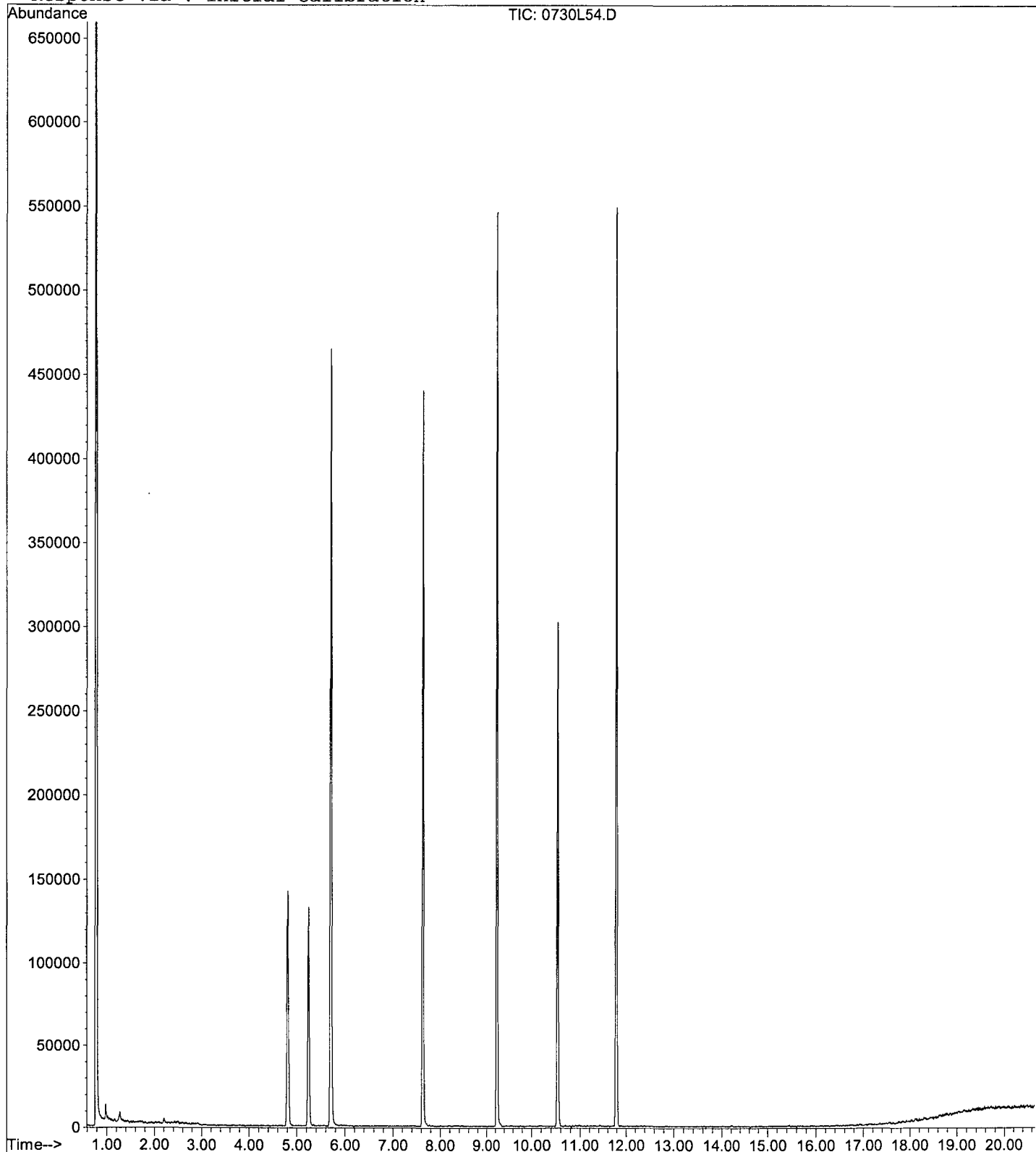
Data File : M:\LOKI\DATA\190730\0730L54.D
Acq On : 31 Jul 19 8:13
Sample : AZ95511W01
Misc : IS&S 7/15/19,6/5/19

Vial: 48
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Aug 1 9:28 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190730\0730L55.D
 Acq On : 31 Jul 19 8:42
 Sample : AZ95512W01
 Misc : IS&S 7/15/19,6/5/19
 MS Integration Params: LSCINT.P
 Quant Time: Aug 1 9:26 2019

Vial: 49
 Operator:
 Inst : Loki
 Multiplr: 1.00000

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Wed Jul 17 12:32:37 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	461909	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	556257	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	529540	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0730L55.D LGAS716.M Tue Aug 13 11:55:09 2019

Data File : M:\LOKI\DATA\190730\0730L55.D Vial: 49
 Acq On : 31 Jul 19 8:42 Operator:
 Sample : AZ95512W01 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Aug 1 9:28 2019 Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	232320	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	200064	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	101736	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	98272	23.88149	ppb	0.00
Spiked Amount				25.000		
				Recovery =	95.524%	
3) 1,2-DCA-D4(S)	5.25	65	98781	23.37975	ppb	0.00
Spiked Amount				25.000		
				Recovery =	93.520%	
5) Toluene-D8(S)	7.63	98	297392	24.46550	ppb	0.00
Spiked Amount				25.000		
				Recovery =	97.860%	
6) 4-Bromofluorobenzene(S)	10.53	95	100038	23.80240	ppb	0.00
Spiked Amount				25.000		
				Recovery =	95.208%	

Target Compounds Qvalue

Quantitation Report

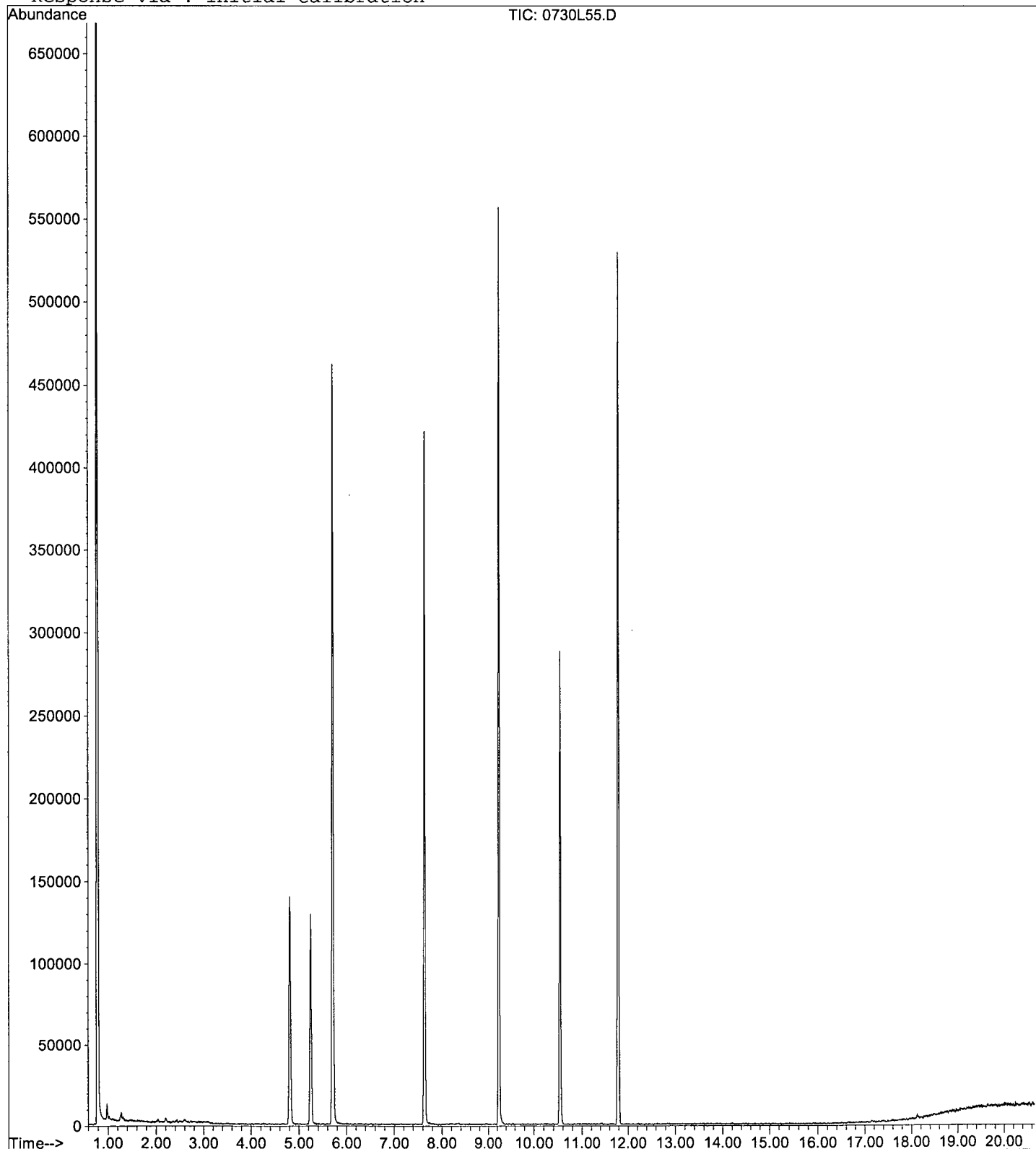
Data File : M:\LOKI\DATA\190730\0730L55.D
Acq On : 31 Jul 19 8:42
Sample : AZ95512W01
Misc : IS&S 7/15/19,6/5/19

Vial: 49
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Aug 1 9:28 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190730\0730L56.D
 Acq On : 31 Jul 19 9:11
 Sample : AZ95513W01
 Misc : IS&S 7/15/19,6/5/19
 MS Integration Params: LSCINT.P
 Quant Time: Aug 1 9:26 2019

Vial: 50
 Operator:
 Inst : Loki
 Multiplr: 1.00000

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Wed Jul 17 12:32:37 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	419158	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	508260	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	499862	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0730L56.D LGAS716.M Tue Aug 13 11:55:22 2019

Data File : M:\LOKI\DATA\190730\0730L56.D Vial: 50
 Acq On : 31 Jul 19 9:11 Operator:
 Sample : AZ95513W01 Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Aug 1 9:28 2019 Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	205504	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	184832	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	89056	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	93294	25.63018	ppb	0.00
Spiked Amount				25.000		
				Recovery	= 102.520%	
3) 1,2-DCA-D4(S)	5.25	65	94151	25.19171	ppb	0.00
Spiked Amount				25.000		
				Recovery	= 100.768%	
5) Toluene-D8(S)	7.63	98	276315	24.60487	ppb	0.00
Spiked Amount				25.000		
				Recovery	= 98.420%	
6) 4-Bromofluorobenzene(S)	10.53	95	94964	24.45719	ppb	0.00
Spiked Amount				25.000		
				Recovery	= 97.828%	

Target Compounds Qvalue

Quantitation Report

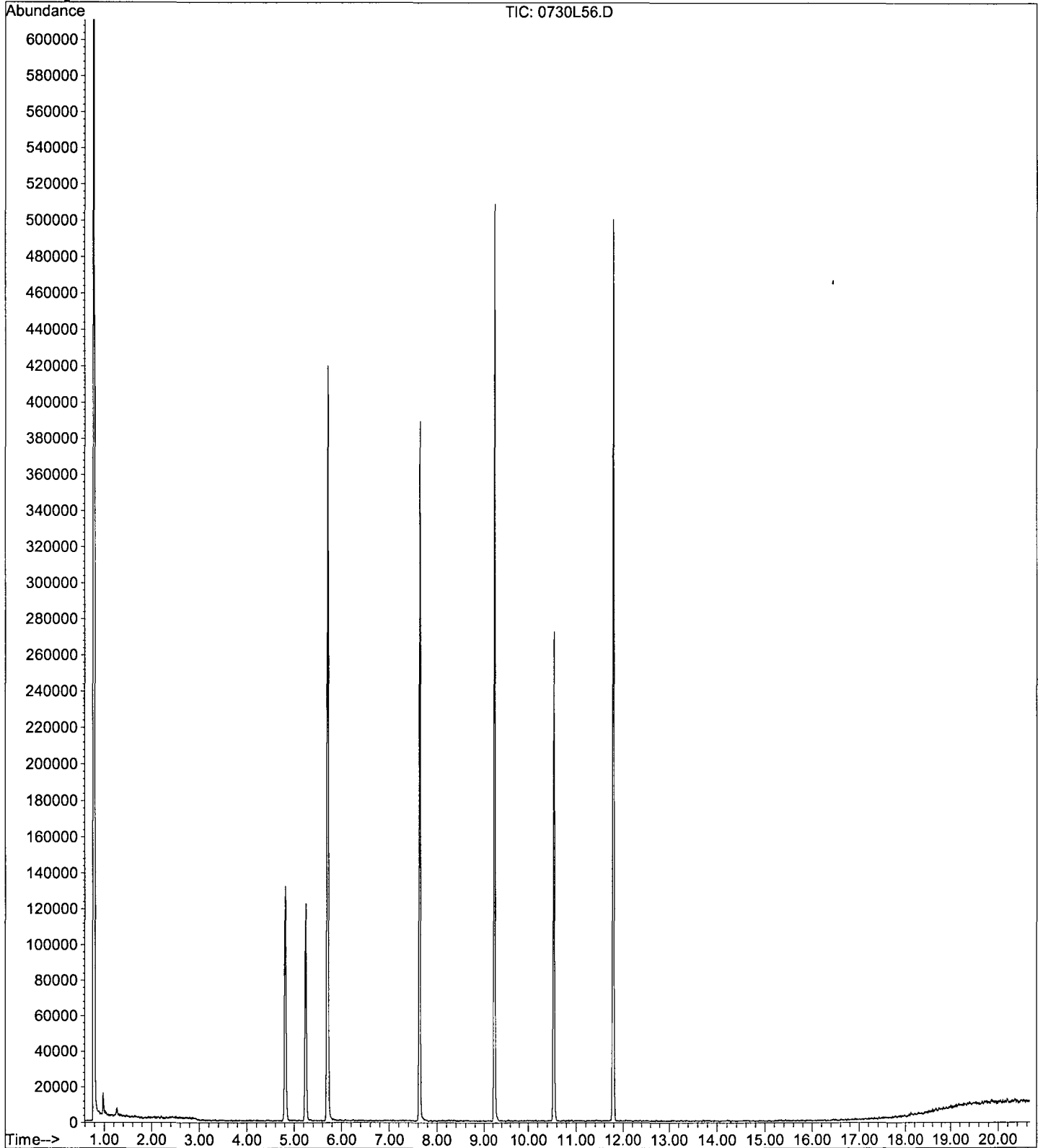
Data File : M:\LOKI\DATA\190730\0730L56.D
Acq On : 31 Jul 19 9:11
Sample : AZ95513W01
Misc : IS&S 7/15/19,6/5/19

Vial: 50
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Aug 1 9:28 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190730\0730L52.D
 Acq On : 31 Jul 19 7:16
 Sample : 190730B BLK
 Misc : IS&S 7/15/19,6/5/19
 MS Integration Params: LSCINT.P
 Quant Time: Aug 1 9:25 2019

Vial: 46
 Operator:
 Inst : Loki
 Multiplr: 1.00000

Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Wed Jul 17 12:32:37 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.71	TIC	530147	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	645707	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	621373	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
 0730L52.D LGAS716.M Tue Aug 13 11:54:34 2019

Data File : M:\LOKI\DATA\190730\0730L52.D Vial: 46
 Acq On : 31 Jul 19 7:16 Operator:
 Sample : 190730B BLK Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Aug 1 9:28 2019 Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	264704	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	235904	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	115984	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	103694	22.11625	ppb	0.00
Spiked Amount				25.000		
				Recovery =	88.464%	
3) 1,2-DCA-D4(S)	5.25	65	104328	21.67172	ppb	0.00
Spiked Amount				25.000		
				Recovery =	86.688%	
5) Toluene-D8(S)	7.63	98	328692	22.93230	ppb	0.00
Spiked Amount				25.000		
				Recovery =	91.728%	
6) 4-Bromofluorobenzene(S)	10.53	95	110964	22.39090	ppb	0.00
Spiked Amount				25.000		
				Recovery =	89.564%	

Target Compounds Qvalue

Quantitation Report

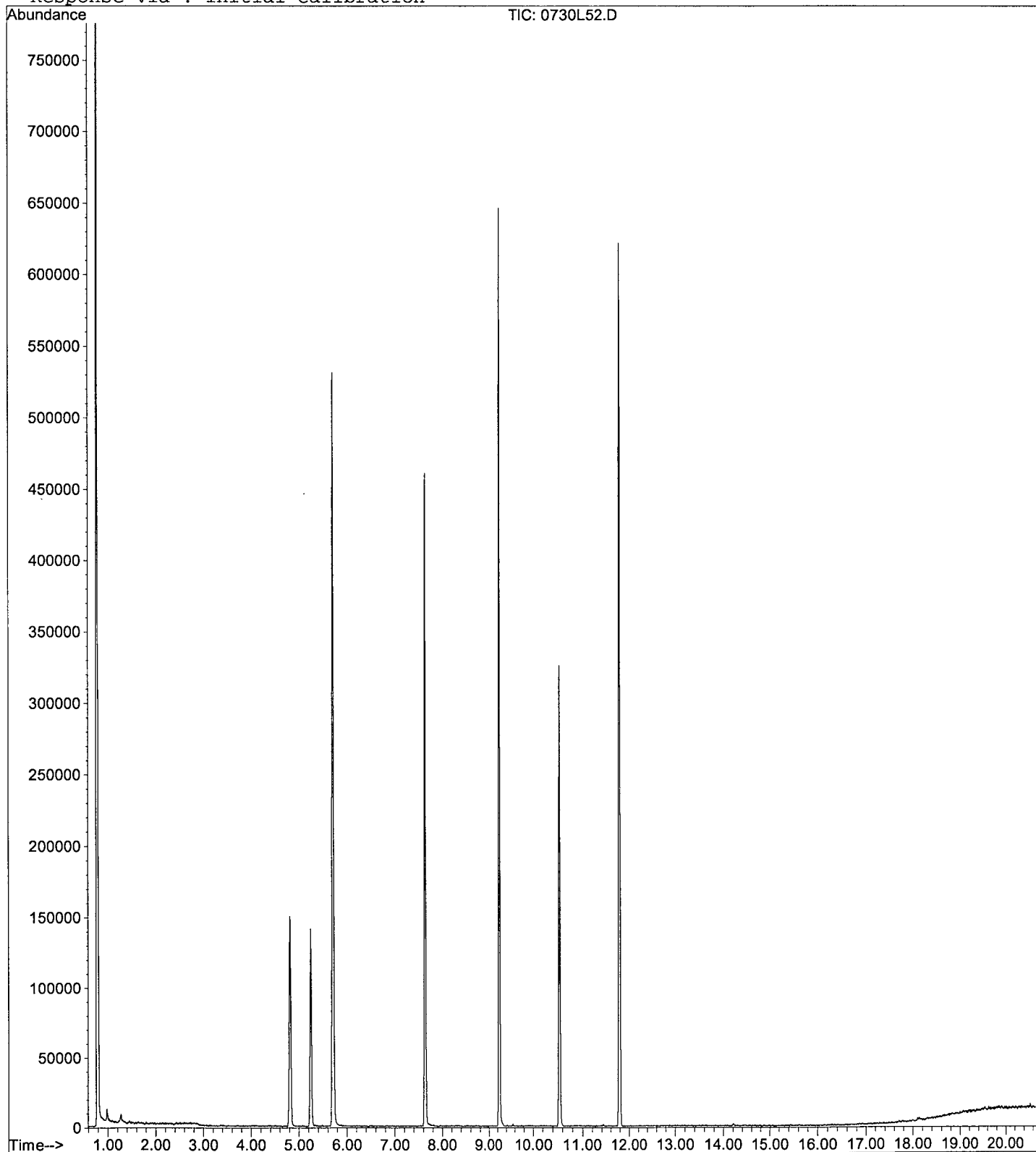
Data File : M:\LOKI\DATA\190730\0730L52.D
Acq On : 31 Jul 19 7:16
Sample : 190730B BLK
Misc : IS&S 7/15/19,6/5/19

Vial: 46
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Aug 1 9:28 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190730\0730L50.D Vial: 44
 Acq On : 31 Jul 19 6:18 Operator:
 Sample : 190730B LCS 300ug/L Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Aug 1 9:25 2019 Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Wed Jul 17 12:32:37 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	495635	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	591730	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	611147	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	6635930m	298.76285	ppb	100

(#) = qualifier out of range (m) = manual integration

Data File : M:\LOKI\DATA\190730\0730L50.D Vial: 44
 Acq On : 31 Jul 19 6:18 Operator:
 Sample : 190730B LCS 300ug/L Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Aug 1 9:28 2019 Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	251136	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	218112	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	116472	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	107393	24.14267	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.572%	
3) 1,2-DCA-D4(S)	5.25	65	110252	24.13962	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.560%	
5) Toluene-D8(S)	7.63	98	352796	26.62182	ppb	0.00
Spiked Amount	25.000		Recovery	=	106.488%	
6) 4-Bromofluorobenzene(S)	10.54	95	125066	27.29508	ppb	0.00
Spiked Amount	25.000		Recovery	=	109.180%	

Target Compounds Qvalue

Quantitation Report

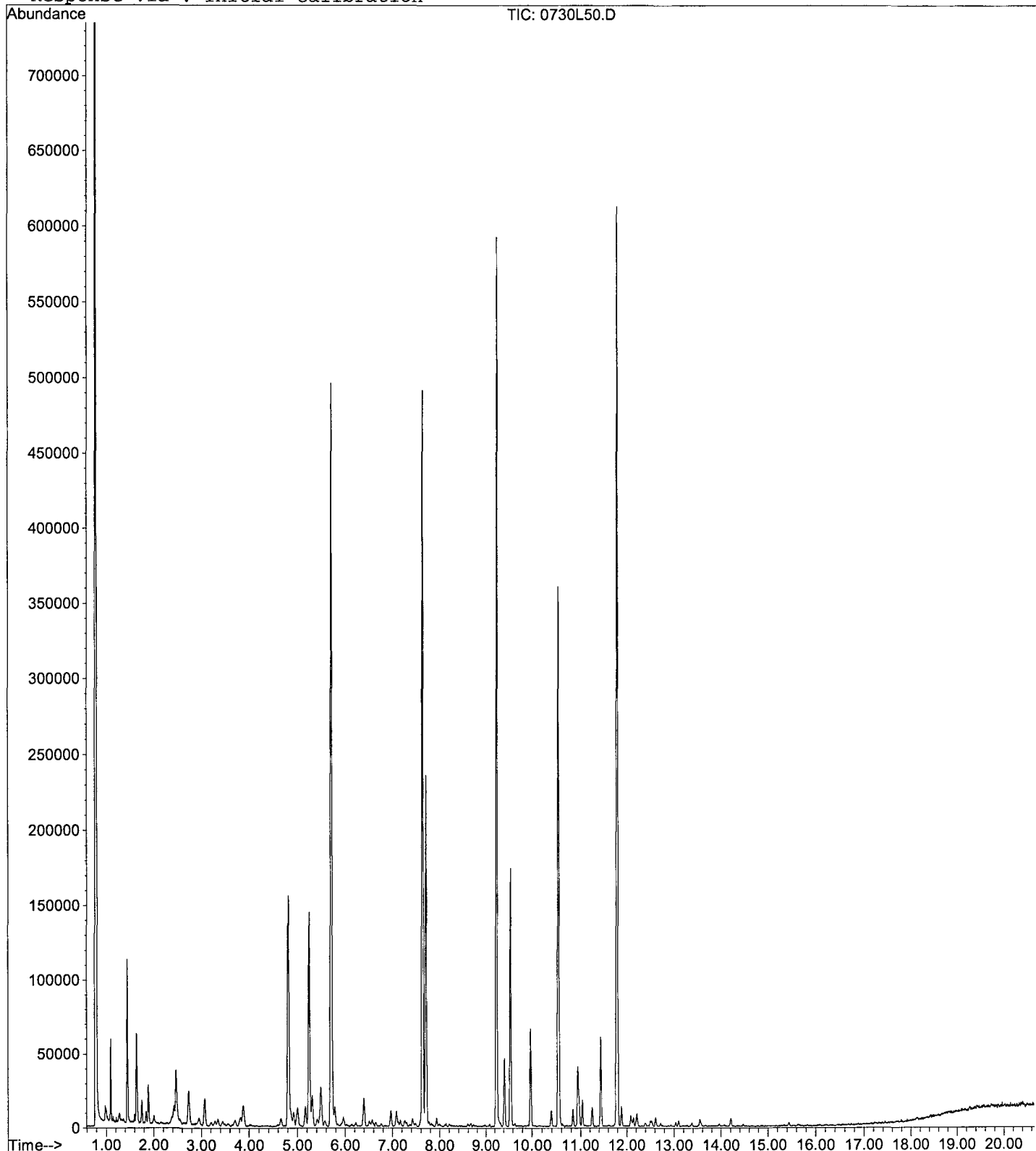
Data File : M:\LOKI\DATA\190730\0730L50.D
Acq On : 31 Jul 19 6:18
Sample : 190730B LCS 300ug/L
Misc : IS&S 7/15/19,6/5/19

Vial: 44
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Aug 1 9:28 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\190730\0730L51.D Vial: 45
 Acq On : 31 Jul 19 6:47 Operator:
 Sample : 190730B LCSD 300ug/L Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Aug 1 9:25 2019 Quant Results File: LGAS716.RES

Quant Method : M:\LOKI\DATA\190724\LGAS716.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Wed Jul 17 12:32:37 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	TIC	484936	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.24	TIC	592556	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.79	TIC	602431	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.24	TIC	6548693m	306.16582	ppb	100

Data File : M:\LOKI\DATA\190730\0730L51.D Vial: 45
 Acq On : 31 Jul 19 6:47 Operator:
 Sample : 190730B LCSD 300ug/L Inst : Loki
 Misc : IS&S 7/15/19,6/5/19 Multiplr: 1.00

Quant Time: Aug 1 9:28 2019 Quant Results File: LSUR0724.RES

Quant Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Jul 25 10:50:00 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.71	96	246016	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.24	117	216448	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.79	152	111464	25.00000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.81	111	106819	24.51339	ppb	0.00
Spiked Amount	25.000		Recovery	=	98.052%	
3) 1,2-DCA-D4(S)	5.24	65	105492	23.57812	ppb	0.00
Spiked Amount	25.000		Recovery	=	94.312%	
5) Toluene-D8(S)	7.63	98	350657	26.66384	ppb	0.00
Spiked Amount	25.000		Recovery	=	106.656%	
6) 4-Bromofluorobenzene(S)	10.54	95	122402	26.91905	ppb	0.00
Spiked Amount	25.000		Recovery	=	107.676%	

Target Compounds Qvalue

Quantitation Report

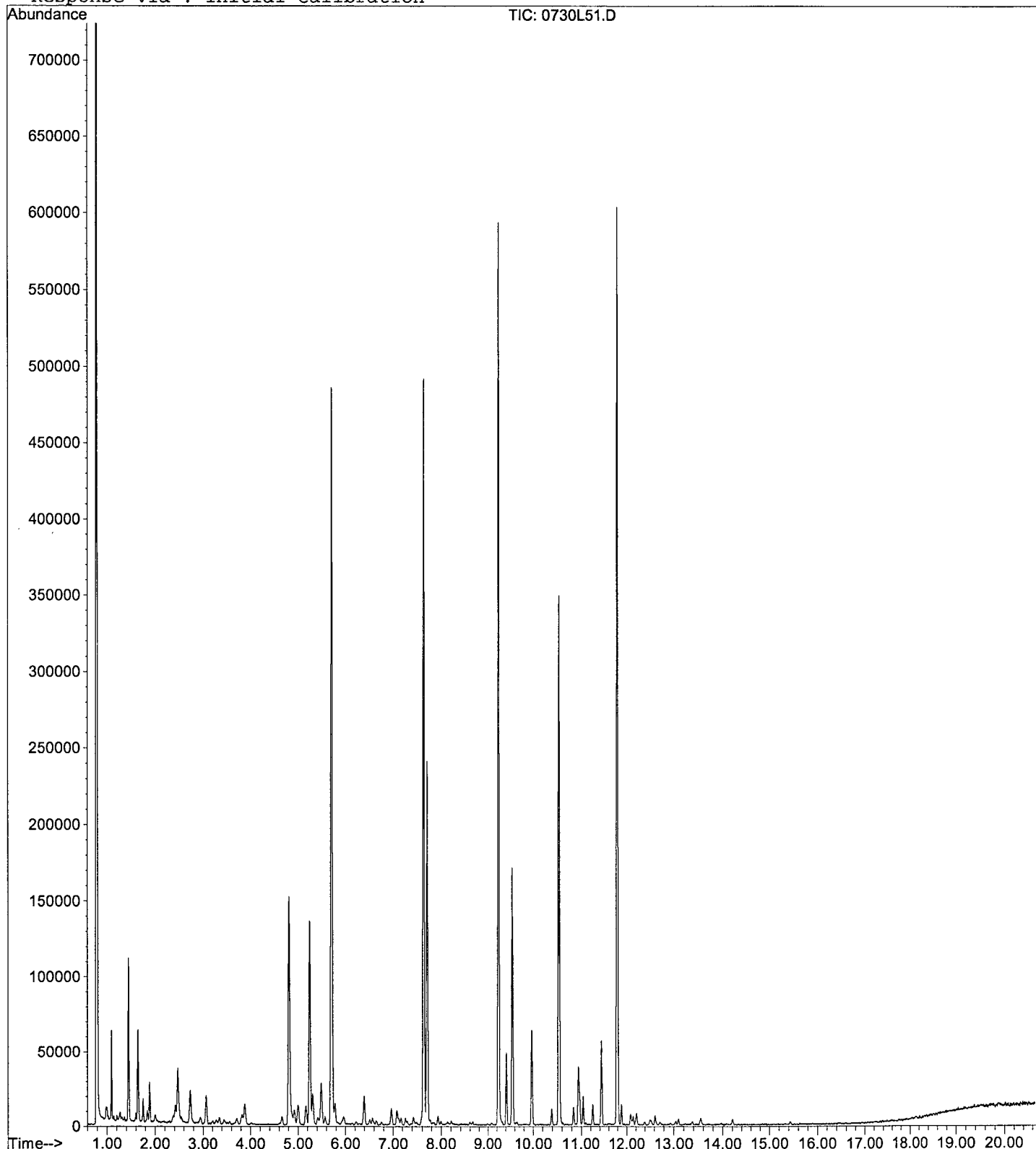
Data File : M:\LOKI\DATA\190730\0730L51.D
Acq On : 31 Jul 19 6:47
Sample : 190730B LCSD 300ug/L
Misc : IS&S 7/15/19,6/5/19

Vial: 45
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Aug 1 9:28 2019

Quant Results File: LSUR0724.RES

Method : M:\LOKI\DATA\190724\LSUR0724.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Jul 25 10:50:00 2019
Response via : Initial Calibration



Loki Gas Standard Prep

Gas Primary Working Standard										
Prepared: 07/16/19						Prepared By (Initials): <u>DG</u>				
Expires: 07/15/20										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
50,000ug/mL Gas STD	Restek	30205	50,000	A0132443-39859	07/16/20	12/31/24	80uL	2mL	Methanol	2,000
Gas Second Source (SS) Working Standard										
Prepared: 07/16/19						Prepared By (Initials): <u>DG</u>				
Expires: 07/15/20										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Gasoline (5,000ppm)	O2SI	020246-06	5,000	CL11750-40999	07/16/20	02/28/27	800uL	2mL	Methanol	2,000
Loki Gas Calibration Curve										
Prepared: 07/04/19						Prepared By (Initials): <u>DG</u>				
Expires: 09/02/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA Gasses Standards	Phenova	20ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	1uL	100mL	P&T Water	20
VOA Gasses Standards	Phenova	50ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	2.5uL	100mL	P&T Water	50
VOA Gasses Standards	Phenova	100ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	5uL	100mL	P&T Water	100
VOA Gasses Standards	Phenova	300ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	15uL	100mL	P&T Water	300
VOA Gasses Standards	Phenova	600ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	30uL	100mL	P&T Water	600
VOA Gasses Standards	Phenova	800ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	40uL	100mL	P&T Water	800
VOA Gasses Standards	Phenova	1,000ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	50uL	100mL	P&T Water	1,000
Loki Gas Second Source										
Prepared: 07/04/19						Prepared By (Initials): <u>DG</u>				
Expires: 09/02/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
50,000ug/mL Gas STD	Phenova	SS 300ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	15uL	100mL	P&T Water	300
Loki Gas Continuing Calibrations/Lab Control Spikes										
Prepared: 07/04/19						Prepared By (Initials): <u>DG</u>				
Expires: 07/05/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Gasses Standards	Phenova	300ug/L	2,000	Prepared 07/16/19	07/15/20	N/A	15uL	100mL	P&T Water	300
Loki Gas Surrogate										
Prepared: 08/30/18						Prepared By (Initials): <u>PC</u>				
Expires: 04/02/19										
Methanol Lot No. 57159										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
8260B Surrogate Solution	O2SI	120002-01	2,000	275545-36329	06/09/19	04/02/19	375uL	15mL	Methanol	50
Loki Gas Internal Standard										
Prepared: 08/24/18						Prepared By (Initials): <u>PC</u>				
Expires: 04/13/19										
Methanol Lot No. 57159										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
IS Solution	O2SI	120004-02	2,000	326533-38443	04/13/19	04/27/21	375uL	15mL	Methanol	50

Gas Primary Working Standard										
Prepared: 07/16/19						Prepared By (Initials): <u>DG</u>				
Expires: 12/31/24										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
50,000ug/mL Gas STD	Restek	30205	50,000	A0132443-39859	07/16/20	12/31/24	80uL	2mL	Methanol	2,000
Gas Second Source (SS) Working Standard										
Prepared: 07/16/19						Prepared By (Initials): <u>DG</u>				
Expires: 10/31/20										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Gasoline (50,000ppm)	Phenova	ALO-101543	50,000	CL11750-40999	07/16/20	02/28/27	80uL	2mL	Methanol	2,000

Loki 8260 Standard Prep

Loki 8260 Water Calibration Curve										
						Prepared By (Initials): <u>CMM</u>				
<u>0.3ug/L</u>										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	0.3ug/L	5	Prepared 07/24/19	09/22/19	N/A	3uL	50mL	P&T Water	0.3
VOA STD. 10	O2SI		5	Prepared 07/24/19	09/22/19	N/A	3uL			0.3
VOA STD. 12	O2SI		5	Prepared 07/24/19	09/22/19	N/A	3uL			0.3
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	2uL			10
<u>0.5ug/L</u>										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	0.5ug/L	5	Prepared 07/24/19	09/22/19	N/A	5uL	50mL	P&T Water	0.5
VOA STD. 10	O2SI		5	Prepared 07/24/19	09/22/19	N/A	5uL			0.5
VOA STD. 12	O2SI		5	Prepared 07/24/19	09/22/19	N/A	5uL			0.5
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	5uL			25
<u>1.0ug/L</u>										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	1.0ug/L	5	Prepared 07/24/19	09/22/19	N/A	10uL	50mL	P&T Water	1
VOA STD. 10	O2SI		5	Prepared 07/24/19	09/22/19	N/A	10uL			1
VOA STD. 12	O2SI		5	Prepared 07/24/19	09/22/19	N/A	10uL			1
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	10uL			50
<u>2.0ug/L</u>										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	O2SI	2.0ug/L	5	Prepared 07/24/19	09/22/19	N/A	20uL	50mL	P&T Water	2
VOA STD. 10	O2SI		5	Prepared 07/24/19	09/22/19	N/A	20uL			2
VOA STD. 12	O2SI		5	Prepared 07/24/19	09/22/19	N/A	20uL			2
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	15uL			75
<u>5ug/L</u>										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	5ug/L	50	Prepared 07/24/19	09/22/19	N/A	5uL	50mL	P&T Water	5
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	5uL			5
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	5uL			5
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	5uL			5
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	20uL			100
<u>10ug/L</u>										
Prepared: 07/24/19										
Expires: 08/23/19										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	10ug/L	50	Prepared 07/24/19	09/22/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	10uL			10
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	25uL			125

* Entry error 7/17/19
Mg/12/19

20ug/L
Prepared: 07/24/19
Expires: 08/23/19

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	20ug/L	50	Prepared 07/24/19	09/22/19	N/A	20uL	50mL	P&T Water	20
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	20uL			20
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	20uL			20
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	20uL			20
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	30uL			150

40ug/L
Prepared: 07/24/19
Expires: 08/23/19

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	40ug/L	50	Prepared 07/24/19	09/22/19	N/A	40uL	50mL	P&T Water	40
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	40uL			40
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	40uL			40
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	40uL			40
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	35uL			175

100ug/L
Prepared: 07/24/19
Expires: 08/23/19

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	100ug/L	50	Prepared 07/24/19	09/22/19	N/A	100uL	50mL	P&T Water	100
VOA STD. 8	Phenova		50	Prepared 07/24/19	07/31/19	N/A	100uL			100
VOA STD. 1	O2SI		50	Prepared 07/24/19	09/22/19	N/A	100uL			100
VOA STD. 2	O2SI		50	Prepared 07/24/19	09/22/19	N/A	100uL			100
VOA STD. TBA	Various		250	Prepared 07/24/19	07/31/19	N/A	40uL			200

Loki 8260 Water Second Source (SS)
Prepared: 07/24/19
Expires: 08/23/19
Prepared By (Initials): CMM

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 4	Phenova	8260 Water SS	50	Prepared 07/24/19	09/22/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 5	O2SI	8260 Water SS	50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. 6	Various	8260 Water SS	50	Prepared 07/24/19	07/17/19	N/A	10uL			10
VOA STD. TBA	Various	8260 Water SS	250	Prepared 07/24/19	07/17/19	N/A	25uL			250

8260 Water Continuing Calibrations (CCV)/ Lab Control Spikes (LCS)
Prepared: 07/24/19
Expires: 07/25/19
Prepared By (Initials): CMM

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	CCV/ LCS	50	Prepared 07/24/19	09/22/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova	CCV/ LCS	50	Prepared 07/24/19	07/31/19	N/A	10uL			10
VOA STD. 1	O2SI	CCV/ LCS	50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. 2	O2SI	CCV/ LCS	50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. TBA	Various	CCV/ LCS	250	Prepared 07/24/19	07/31/19	N/A	25uL			125

LCS (X4 Ketones)
Prepared: 07/24/19
Expires: 07/25/19
Prepared By (Initials): CMM

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	LCS X4 Ketones	50	Prepared 07/24/19	09/22/19	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova	LCS X4 Ketones	50	Prepared 07/24/19	07/31/19	N/A	10uL			10
VOA STD. 1	O2SI	LCS X4 Ketones	50	Prepared 07/24/19	09/22/19	N/A	10uL			10
VOA STD. 2	O2SI	LCS X4 Ketones	50	Prepared 07/24/19	09/22/19	N/A	40uL			40
VOA STD. TBA	Various	LCS X4 Ketones	250	Prepared 07/24/19	07/31/19	N/A	25uL			125

** Entry Error 2/2/19*

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Loki 8260 Water Surrogate										
Prepared: 08/08/19							Prepared By (Initials): DG			
Expires: 04/04/20										
Methanol Lot No: 58243										
8260 Surrogate Solution	O2SI	120002-01	2,000	348756-39341	04/04/20	02/10/22	375uL	15mL	Methanol	50
Loki 8260 Water Internal Standard										
Prepared: 08/09/19							Prepared By (Initials): DG			
Expires: 08/06/20										
Methanol Lot No: 58243										
Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Internal Standard Solution	Phenova	ALO-101215	2,500	CL12444-40615	08/06/20	04/30/23	300uL	15mL	Methanol	50

Primary and Secondary Working Standards

Primary Standards										
VOA STD 7										
Prepared: 07/17/19 C										
Expires: 09/15/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Gasses STD	Phenova	ALO-101206	2,000	CL12965-408901	07/09/20	11/30/23	100uL	4mL	Methanol	50
Hexachloroethane	Absolute	70199	1,000	091818-40719	07/09/20	09/18/23	200uL			50
Benzyl Chloride	Absolute	70037	1,000	021119-40680	07/09/20	02/11/20	200uL			50
VOA STD 8										
Prepared: 07/17/19 D										
Expires: 07/31/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Additions STD	Phenova	ALO-130175	2,000	CL12744-40591	07/09/20	08/31/20	100uL	4mL	Methanol	50
502.2 Cal. Std.	Phenova	ALO-101200	2,000	CL12489-40595	07/09/20	05/31/23	100uL			50
Vinyl Acetate	Phenova	ALO-101228	2,000	CL13816-41081	07/09/20	07/31/19	100uL			50
VOA STD 9										
Prepared: 07/17/19 E										
Expires: 07/31/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Custom VOC Mix	Phenova	ALO-130176	2,000	CL12929-41066	07/17/20	11/30/20	500uL	4mL	Methanol	250
Acrolein	Phenova	ALO-130549	10,000	CL13820-41082	07/09/20	07/31/19	100uL			250
VOA STD 10										
Prepared: 07/17/19 F										
Expires: 09/15/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
2-CEVE	Absolute	071018-40341	2,000	071018-40713	07/05/20	07/10/21	50	2mL	Methanol	50
VOA STD 11										
Prepared: 07/17/19 G										
Expires: 09/15/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Ketones Std.	Phenova	ALO-109211	2,000	CL12729-40181	07/09/20	08/31/28	100	4mL	Methanol	50
VOA STD 12										
Prepared: 07/17/19 H										
Expires: 09/15/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA STD. 7		VOA STD. 9	50	Prepared 07/17/19	05/21/20	N/A	200uL	2mL	Methanol	5
VOA STD. 8		VOA STD. 9	50	Prepared 07/17/19	05/21/20	N/A	200uL			5
VOA STD. 10										
Prepared: 07/17/19 I										
Expires: 09/15/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA STD. 1		VOA STD. 10	50	Prepared 07/17/19	05/21/20	N/A	200uL	2mL	Methanol	5
VOA STD 12										
Prepared: 07/17/19 J										
Expires: 09/15/19										
Prepared By (Initials): CMM										
Methanol Lot No. 58019-00962										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA STD. 2		VOA STD. 12	50	Prepared 07/17/19	05/21/20	N/A	200uL	2mL	Methanol	5

Second Source (SS) Standards											
VOA STD. 3											
Prepared: 07/17/19 K						Prepared By (Initials): CMM					
Expires: 09/15/19											
Methanol Lot No. 58019-00962											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
Ketones Standard	Phenova	ALO-101211	2,000	CL12730-40609	07/09/20	08/31/28	50uL	2mL	Methanol	50	
VOA STD. 5											
Prepared: 07/17/19 L						Prepared By (Initials): CMM					
Expires: 09/15/19											
Methanol Lot No. 58019-00962											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
8260 Gases (SS)	Phenova	ALO-101206	2,000	CL12966-40911	07/09/20	11/30/23	50uL	2mL	Methanol	50	
2-CEVE (SS)	Absolute	82408	2,000	071018-40965	07/09/2020	07/10/21	50uL			50	
VOA STD. 6											
Prepared: 07/17/19 M						Prepared By (Initials): CMM					
Expires: 07/17/19											
Methanol Lot No. 58019-00962											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
502.2 Calibration STD. (54-compounds)	Phenova	ALO-101200	2,000	CL12490-40917	07/09/20	05/31/23	50uL	2mL	Methanol	50	
Vinyl Acetate	Phenova	ALO-101228	2,000	CL13739-40986	06/25/20	07/17/19	50uL			50	
Hexachloroethane	Accustan	AS-E0011	1,000	218051261-40737	07/09/20	05/14/28	100uL			50	
Benzyl Chloride	Accustan	M-8010-01	200	219041664-40952	07/09/20	05/22/21	500uL			50	
VOA STD. TBA											
Prepared: 07/17/19 N						Prepared By (Initials): CMM					
Expires: 07/17/19											
Methanol Lot No. 58019-00962											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
Custom VOA Mix (4-3)	Phenova	ALO-130176	2,000	CL12542-39863	07/17/20	05/31/20	250uL	2mL	Methanol	250	
Acrolein	Phenova	ALO-101224	10,000	CL13741-40987	06/25/20	07/17/19	50uL			250	
VOA STD. 0											
Prepared: 07/17/19 O						Prepared By (Initials): CMM					
Expires: 07/09/19											
Methanol Lot No. 58019-00962											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
VOA Addition STD.	Phenova	ALO-130175	2,000	CL12744-40994	07/09/19	08/31/20	50uL	2mL	Methanol	50	
BFB Tune											
Prepared: 07/05/19						Prepared By (Initials): DG					
Expires: 01/19/21											
Methanol Lot No. 58019-00958											
Initial Standard Information						Final Standard Information					
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)	
4-Bromofluorobenzene	O2SI	020135-03	2,500	342387-39073	04/19/20	01/19/21	20uL	2mL	Methanol	25	

Injection Log

Directory: M:\LOK\DATA\190715\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
26	0716L27.D	1	20ug/L GAS STD 7/16/19	IS&S 7/15/19,6/5/19	16 Jul 19 23:53
27	0716L28.D	1	50ug/L GAS STD 7/16/19	IS&S 7/15/19,6/5/19	17 Jul 19 00:22
28	0716L29.D	1	100ug/L GAS STD 7/16/19	IS&S 7/15/19,6/5/19	17 Jul 19 00:51
29	0716L30.D	1	300ug/L GAS STD 7/16/19	IS&S 7/15/19,6/5/19	17 Jul 19 1:20
30	0716L31.D	1	600ug/L GAS STD 7/16/19	IS&S 7/15/19,6/5/19	17 Jul 19 1:48
31	0716L32.D	1	800ug/L GAS STD 7/16/19	IS&S 7/15/19,6/5/19	17 Jul 19 2:17
32	0716L33.D	1	1000ug/L GAS STD 7/16/19	IS&S 7/15/19,6/5/19	17 Jul 19 2:46
33	0716L34.D	1	(SS)300ug/L GAS STD 7/16/19	IS&S 7/15/19,6/5/19	17 Jul 19 3:14
4	0724L15.D	1	0.3ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 15:18
5	0724L16.D	1	0.5ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 15:47
6	0724L17.D	1	1.0ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 16:16
7	0724L18.D	1	2.0ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 16:45
8	0724L19.D	1	5.0ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 17:14
9	0724L20.D	1	10ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 17:42
10	0724L21.D	1	20ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 18:11
11	0724L22.D	1	40ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 18:40
12	0724L23.D	1	100ug/L VOC STD 07/24/19	IS&S 7/15/19,6/5/19	24 Jul 19 19:09
43	0730L49.D	1	190730B CCV 300ug/L	IS&S 7/15/19,6/5/19	31 Jul 19 5:50
44	0730L50.D	1	190730B LCS 300ug/L	IS&S 7/15/19,6/5/19	31 Jul 19 6:18
45	0730L51.D	1	190730B LCSD 300ug/L	IS&S 7/15/19,6/5/19	31 Jul 19 6:47
46	0730L52.D	1	190730B BLK	IS&S 7/15/19,6/5/19	31 Jul 19 7:16
47	0730L53.D	1	AZ95510W01	IS&S 7/15/19,6/5/19	31 Jul 19 7:45
48	0730L54.D	1	AZ95511W01	IS&S 7/15/19,6/5/19	31 Jul 19 8:13
49	0730L55.D	1	AZ95512W01	IS&S 7/15/19,6/5/19	31 Jul 19 8:42
50	0730L56.D	1	AZ95513W01	IS&S 7/15/19,6/5/19	31 Jul 19 9:11
52	0730L58.D	1	Ending CCV 300ug/L 07/30/19	IS&S 7/15/19,6/5/19	31 Jul 19 10:09

ORGANICS
Calibration Data

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 06/18/19
Instrument: 7890

Initials: *[Signature]*

19081802.D 19081803.D 19081804.D 19081805.D 19081806.D 19081807.D 19081808.D

	Compound	1	2	3	4	5	6	7					Avg	%RSD	Type	r^2	Q
1	ATML Methane	14748	10458	7136	9743	10449	11201	10592					10818	21	ATM	1.000	
2	ATML Ethane	13248	9958	6804	8700	8955	9680	8769					9445	21	ATM	0.999	
3	ATML Ethene	11298	8564	5896	7589	7406	8291	7253					8042	21	ATM	0.999	
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1.791451

Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\190618RS\19061802.D Vial: 3
 Acq On : 18 Jun 19 12:33 Operator: cmm
 Sample : RSK Std 1 06/18/19 Inst : 7890
 Misc : 125 uL from Std 3 Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jun 18 12:56 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jun 18 12:54:55 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

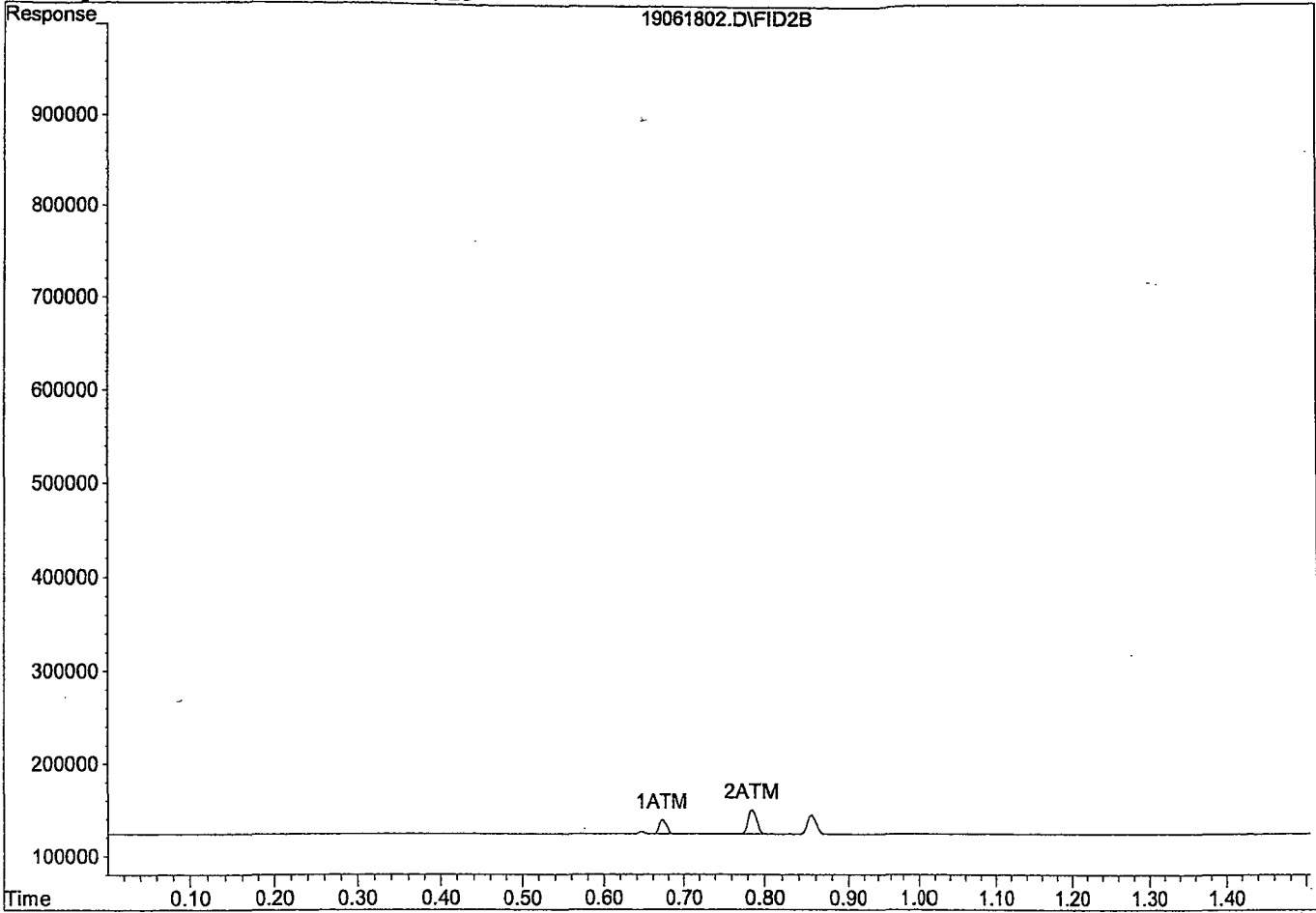
Compound	R.T.	Response	Conc Units

Target Compounds			
1) ATM Methane	0.67	15338	2.205 ppb
2) ATM Ethane	0.78	25899	0.205 ppb
Target Compounds			
3) ATM Ethene	0.85	20619	N.D. ppb

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19061802.D

Sample : RSK Std 1 06/18/19



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\190618RS\19061803.D Vial: 4
 Acq On : 18 Jun 19 12:36 Operator: cmm
 Sample : RSK Std 2 06/18/19 Inst : 7890
 Misc : 250 uL from Std 3 Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jun 18 12:56 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jun 18 12:54:55 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

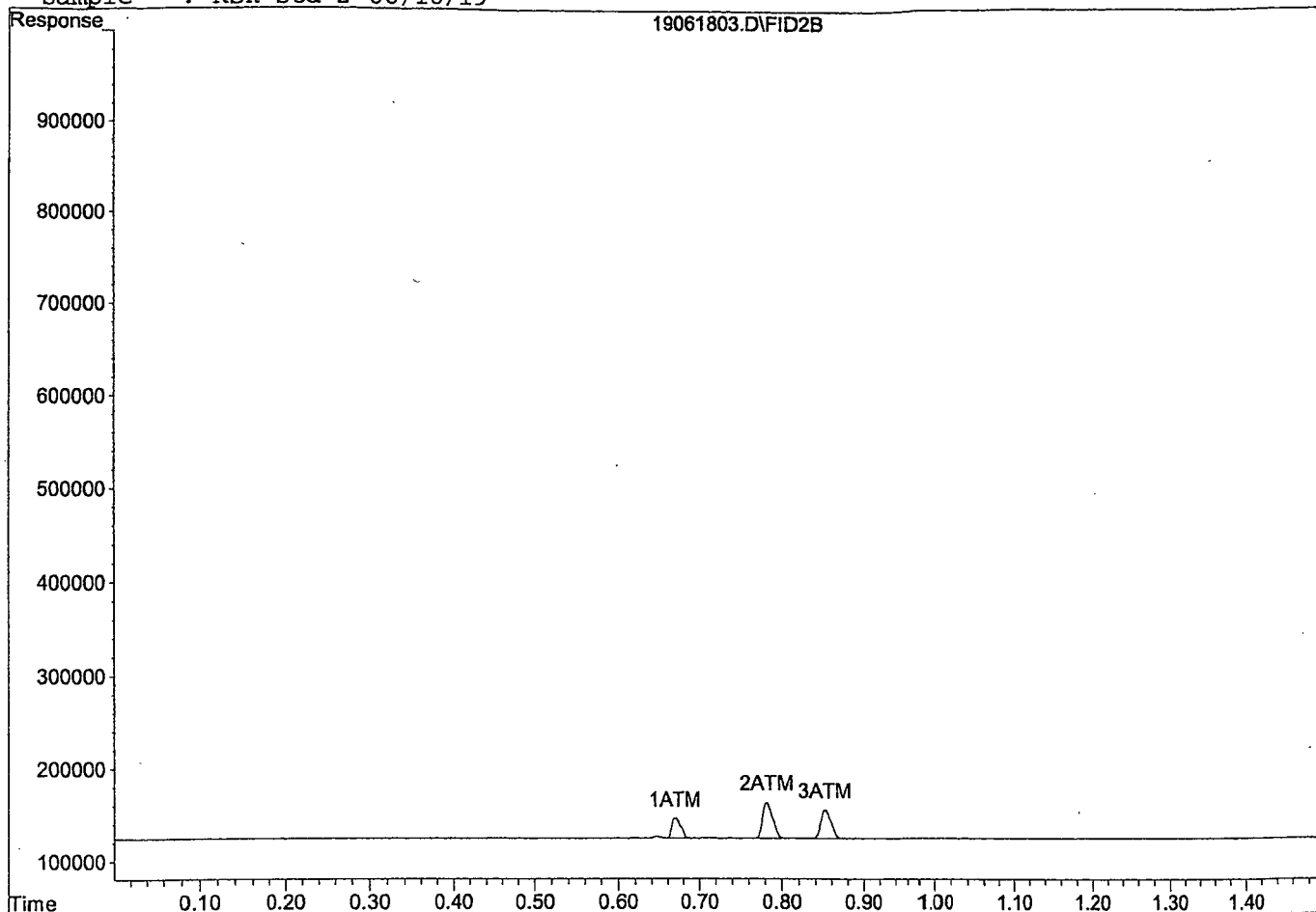
Target Compounds			
1) ATM Methane	0.67	21752	3.413 ppb
2) ATM Ethane	0.78	38887	3.163 ppb
3) ATM Ethene	0.85	31260	0.873 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19061803.D

Sample : RSK Std 2 06/18/19



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\190618RS\19061804.D Vial: 5
 Acq On : 18 Jun 19 12:39 Operator: cmm
 Sample : RSK Std 3 06/18/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jun 18 12:56 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jun 18 12:54:55 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

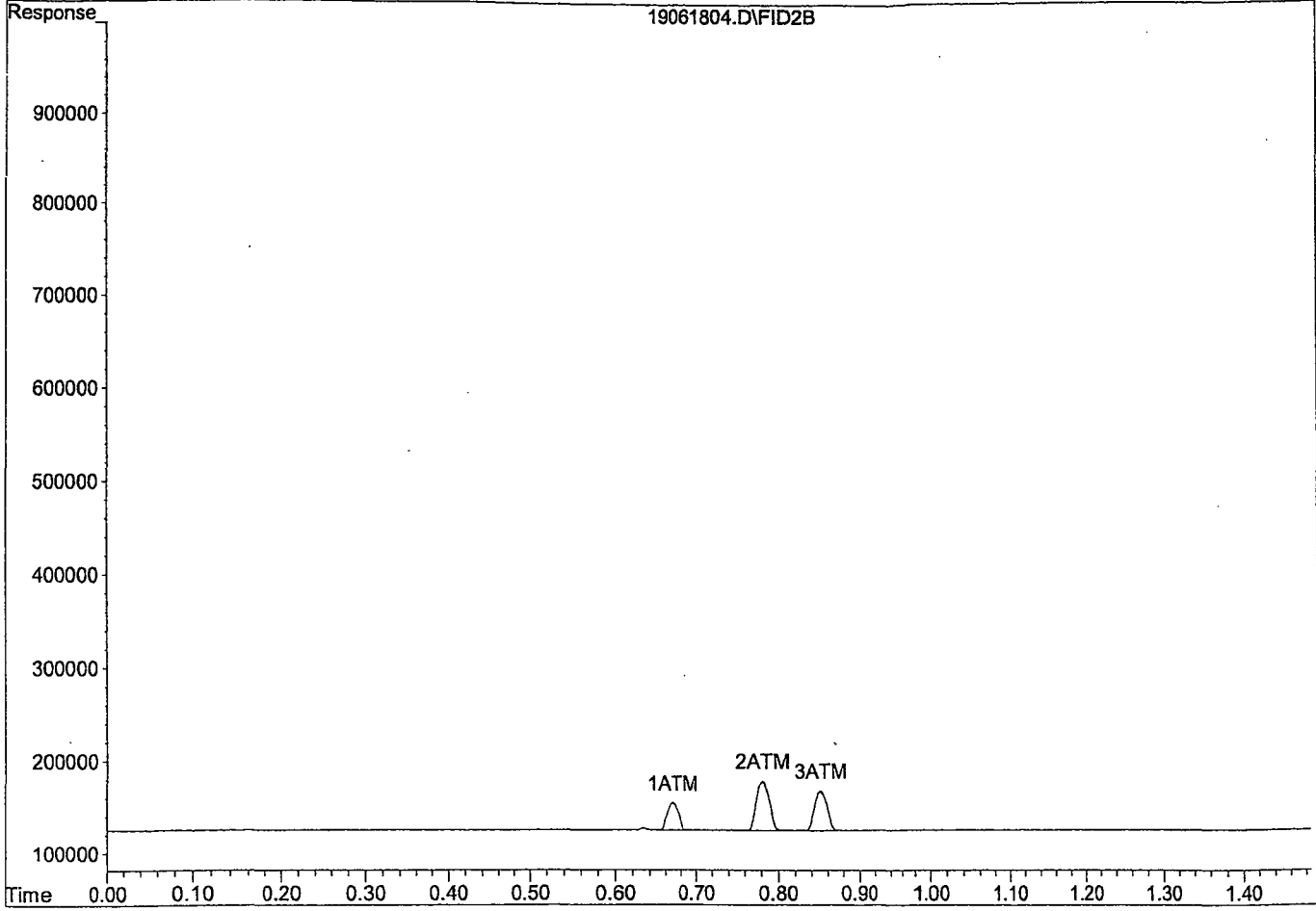
Target Compounds			
1) ATM Methane	0.67	29757	4.921 ppb
2) ATM Ethane	0.78	53072	6.393 ppb
3) ATM Ethene	0.85	43038	4.115 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19061804.D

Sample : RSK Std 3 06/18/19



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\190618RS\19061805.D Vial: 6
 Acq On : 18 Jun 19 12:42 Operator: cmm
 Sample : RSK Std 4 06/18/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jun 18 12:56 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jun 18 12:54:55 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

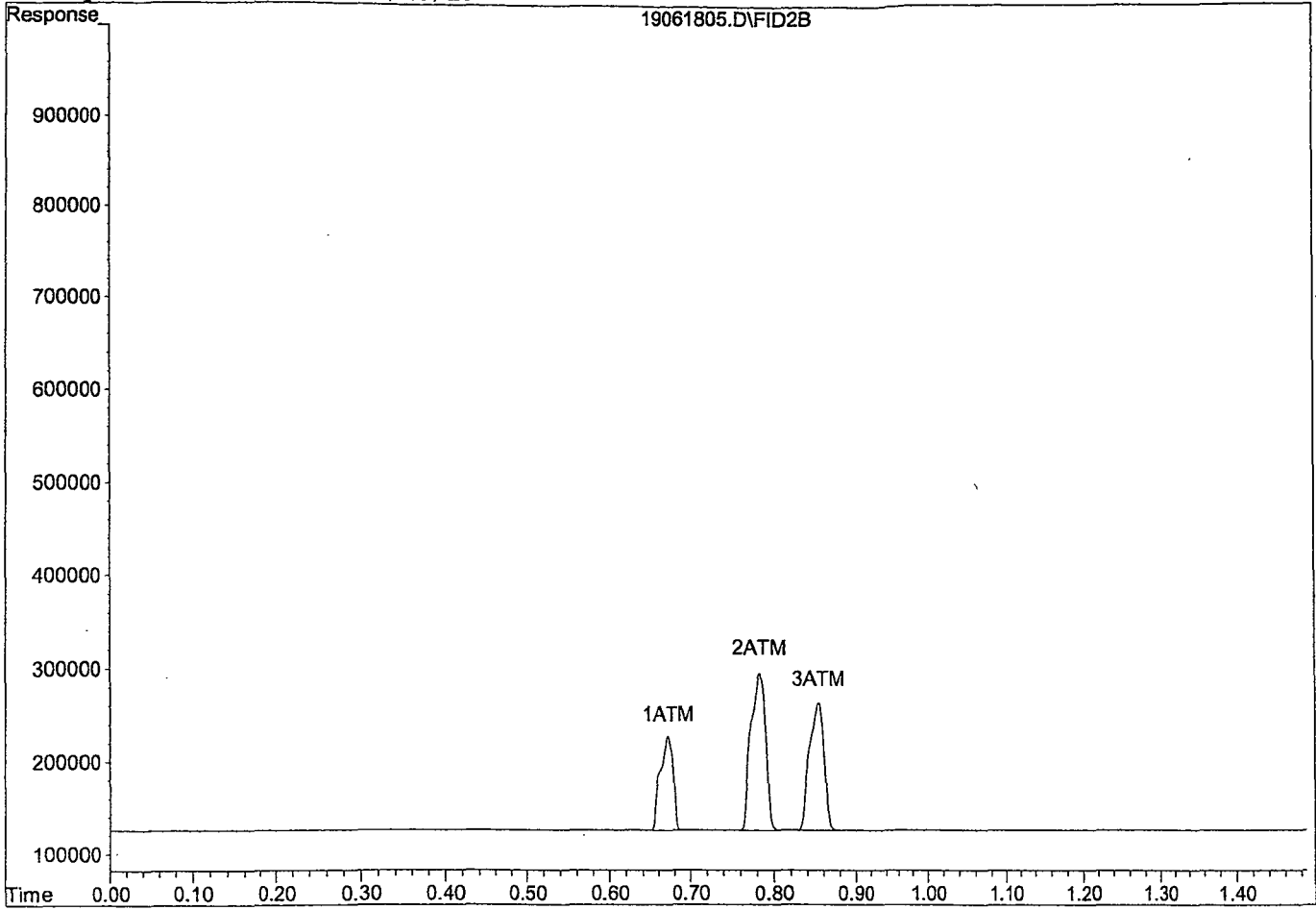
Target Compounds			
1) ATM Methane	0.67	101573	18.453 ppb
2) ATM Ethane	0.78	170046	33.032 ppb
3) ATM Ethene	0.85	138343	30.353 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19061805.D

Sample : RSK Std 4 06/18/19



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\190618RS\19061806.D Vial: 7
 Acq On : 18 Jun 19 12:44 Operator: cmm
 Sample : RSK Std 5 06/18/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jun 18 12:56 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jun 18 12:54:55 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

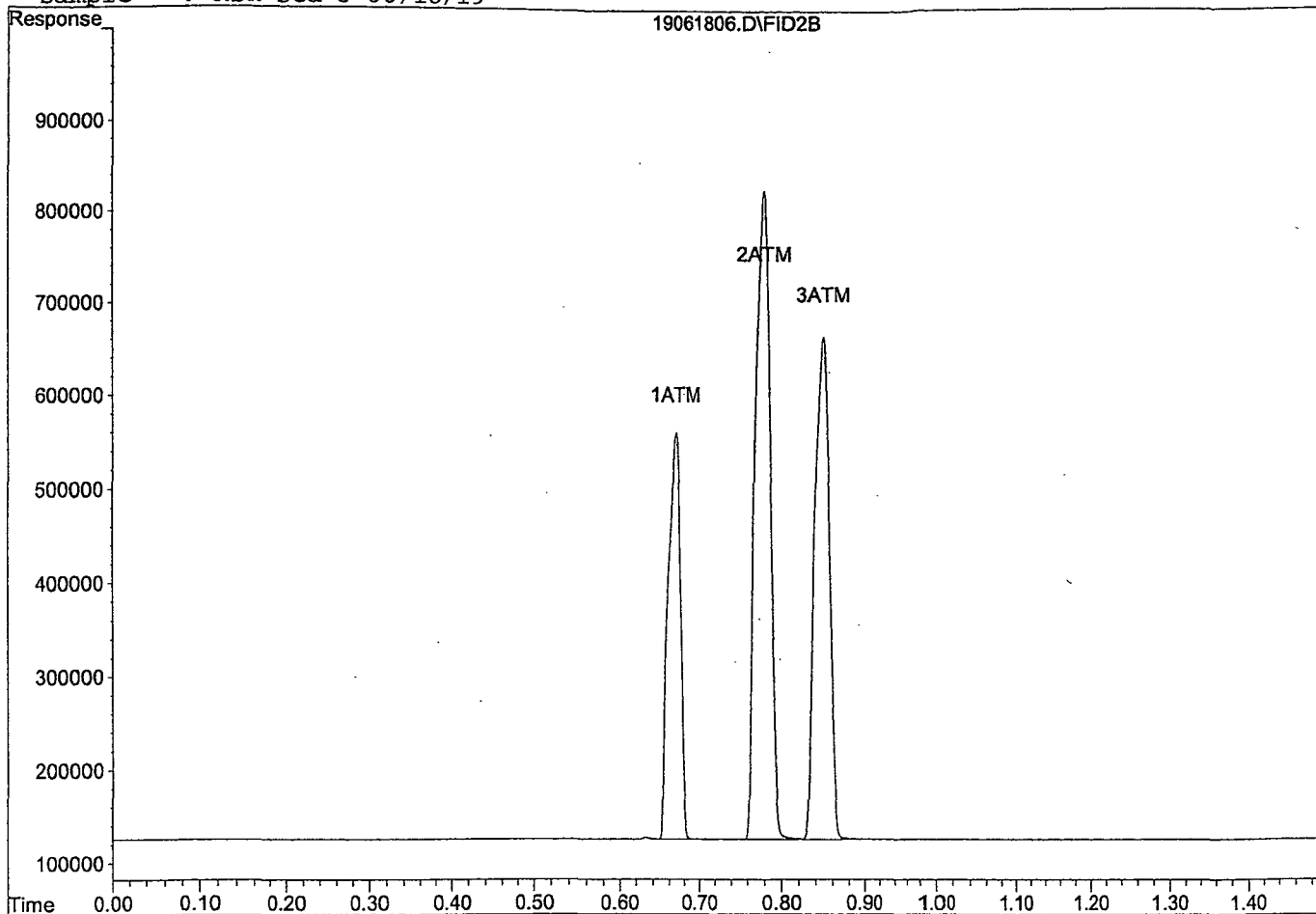
Target Compounds			
1) ATM Methane	0.67	435711	81.413 ppb
2) ATM Ethane	0.78	700049	153.731 ppb
3) ATM Ethene	0.85	540080	140.951 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19061806.D

Sample : RSK Std 5 06/18/19



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\190618RS\19061807.D Vial: 8
 Acq On : 18 Jun 19 12:47 Operator: cmm
 Sample : RSK Std 6 06/18/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jun 18 12:56 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jun 18 12:54:55 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

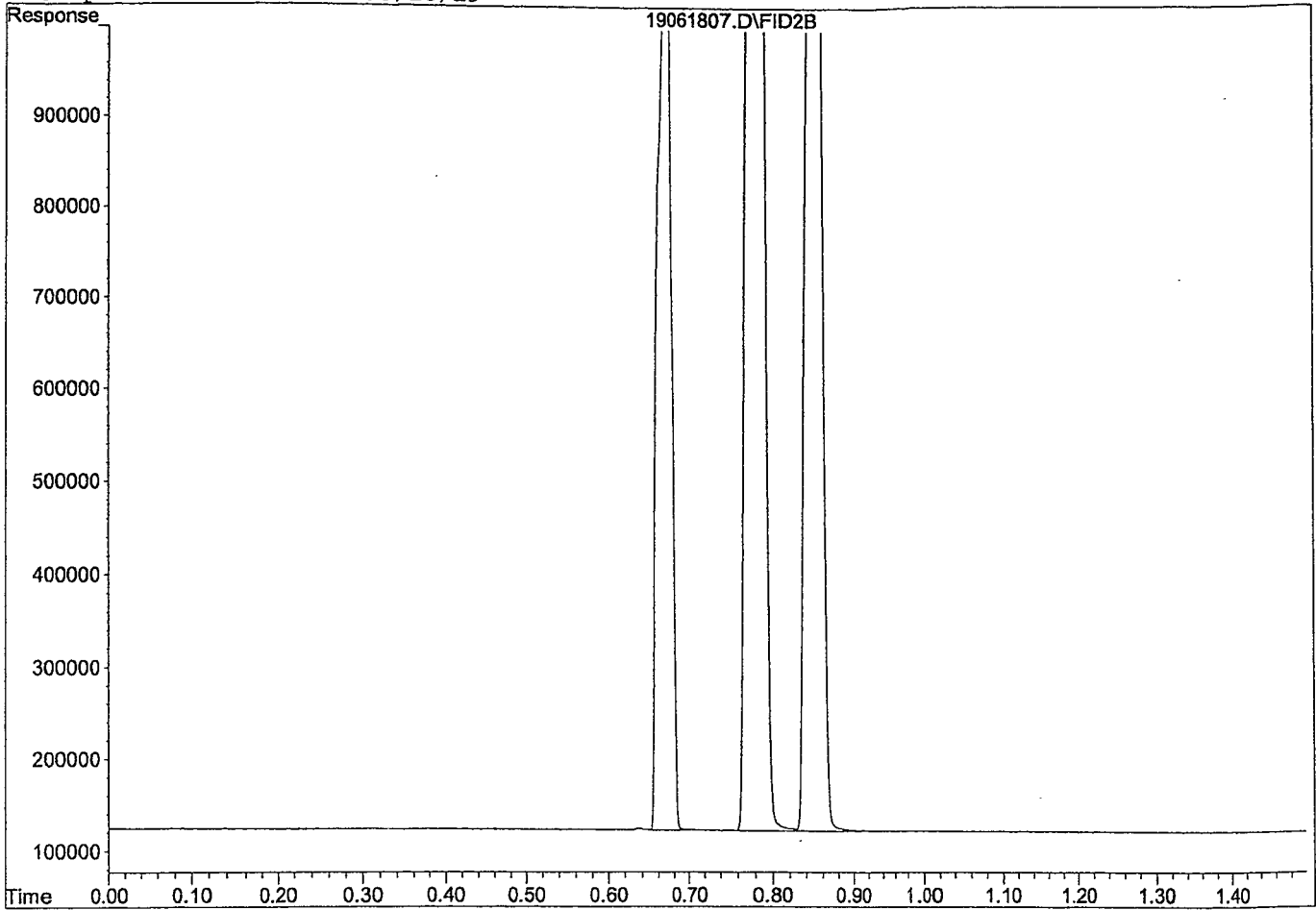
Target Compounds			
1) ATM Methane	0.67	1167694	219.338 ppb
2) ATM Ethane	0.78	1891954	425.166 ppb
3) ATM Ethene	0.85	1511420	408.362 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19061807.D

Sample : RSK Std 6 06/18/19



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\190618RS\19061808.D Vial: 9
 Acq On : 18 Jun 19 12:49 Operator: cmm
 Sample : RSK Std 7 06/18/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jun 18 12:56 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jun 18 12:54:55 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

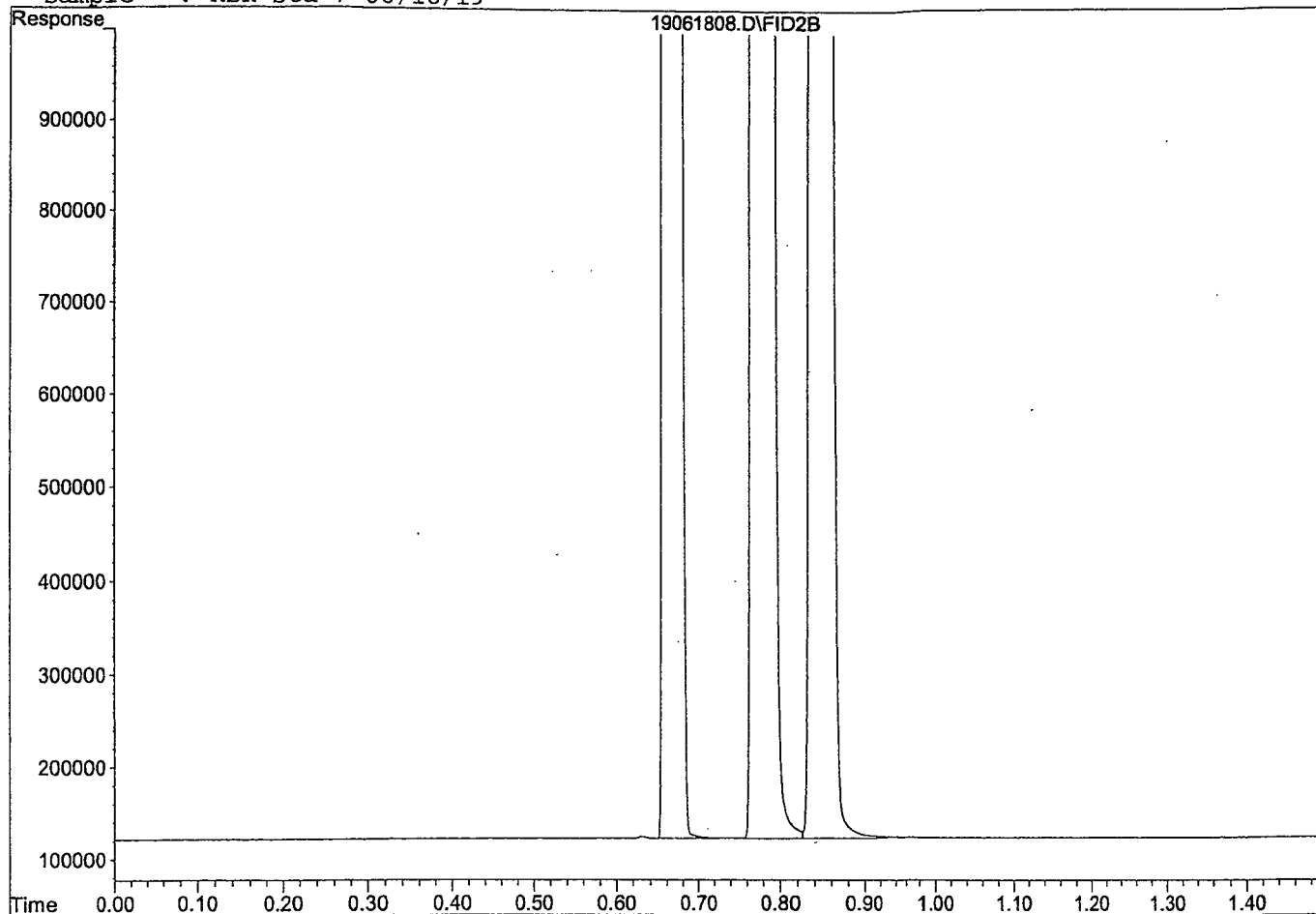
Target Compounds			
1) ATM Methane	0.67	4416985	831.587 ppb
2) ATM Ethane	0.79	6855267	1555.471 ppb
3) ATM Ethene	0.85	5288711	1448.253 ppb

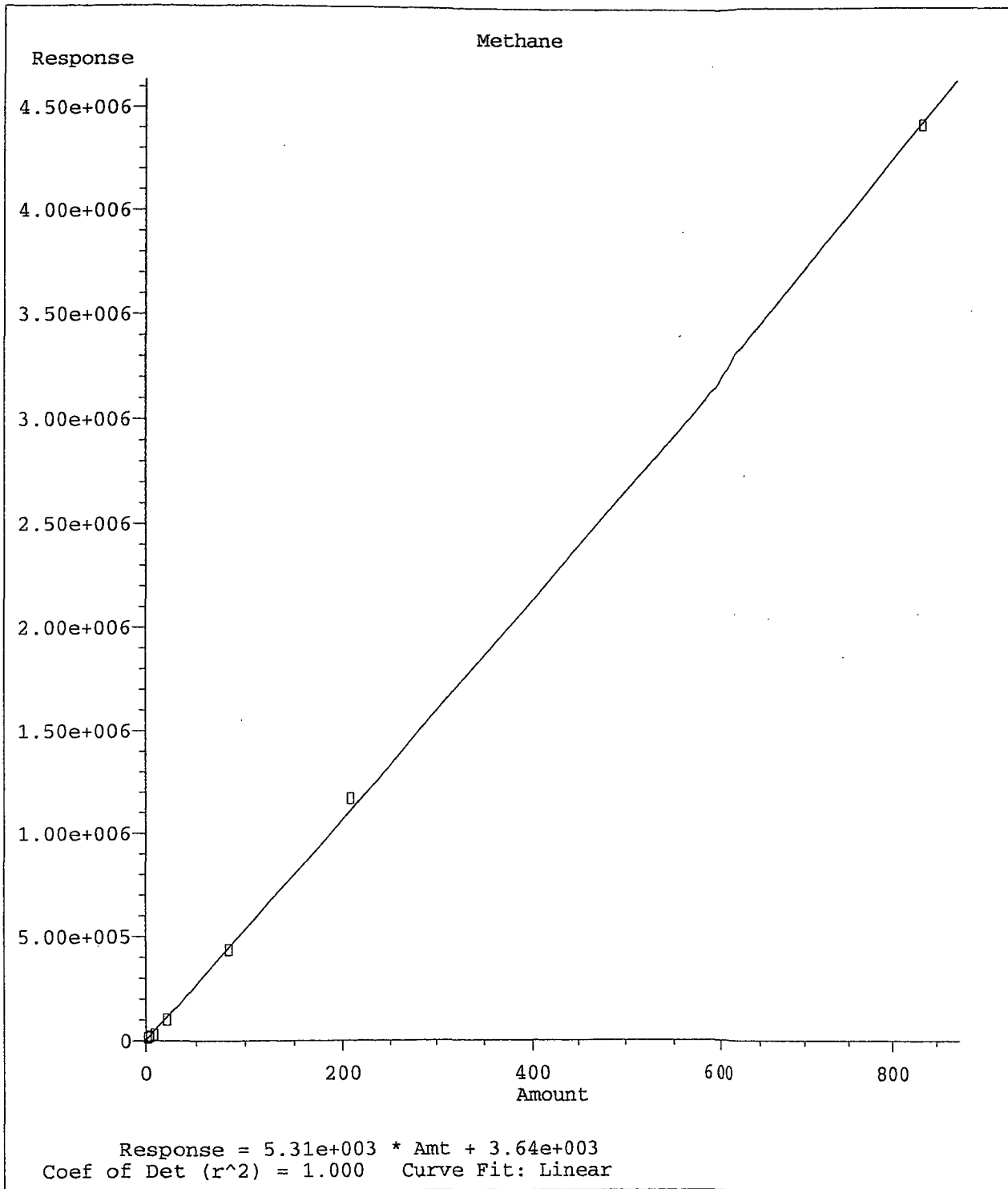
Target Compounds

Quantitation Report

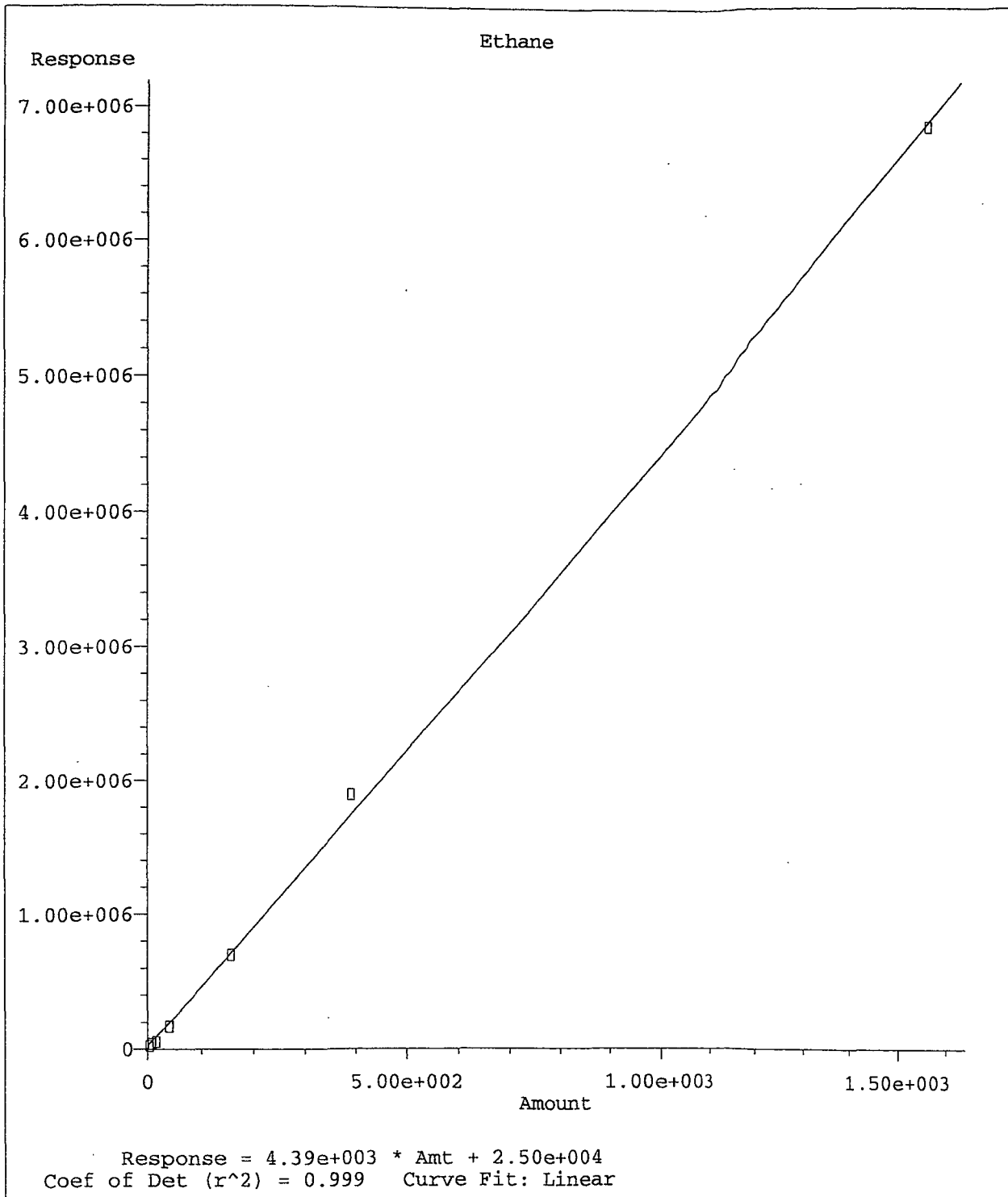
Data File: G:\ROCKY\DATA\190618RS\19061808.D

Sample : RSK Std 7 06/18/19

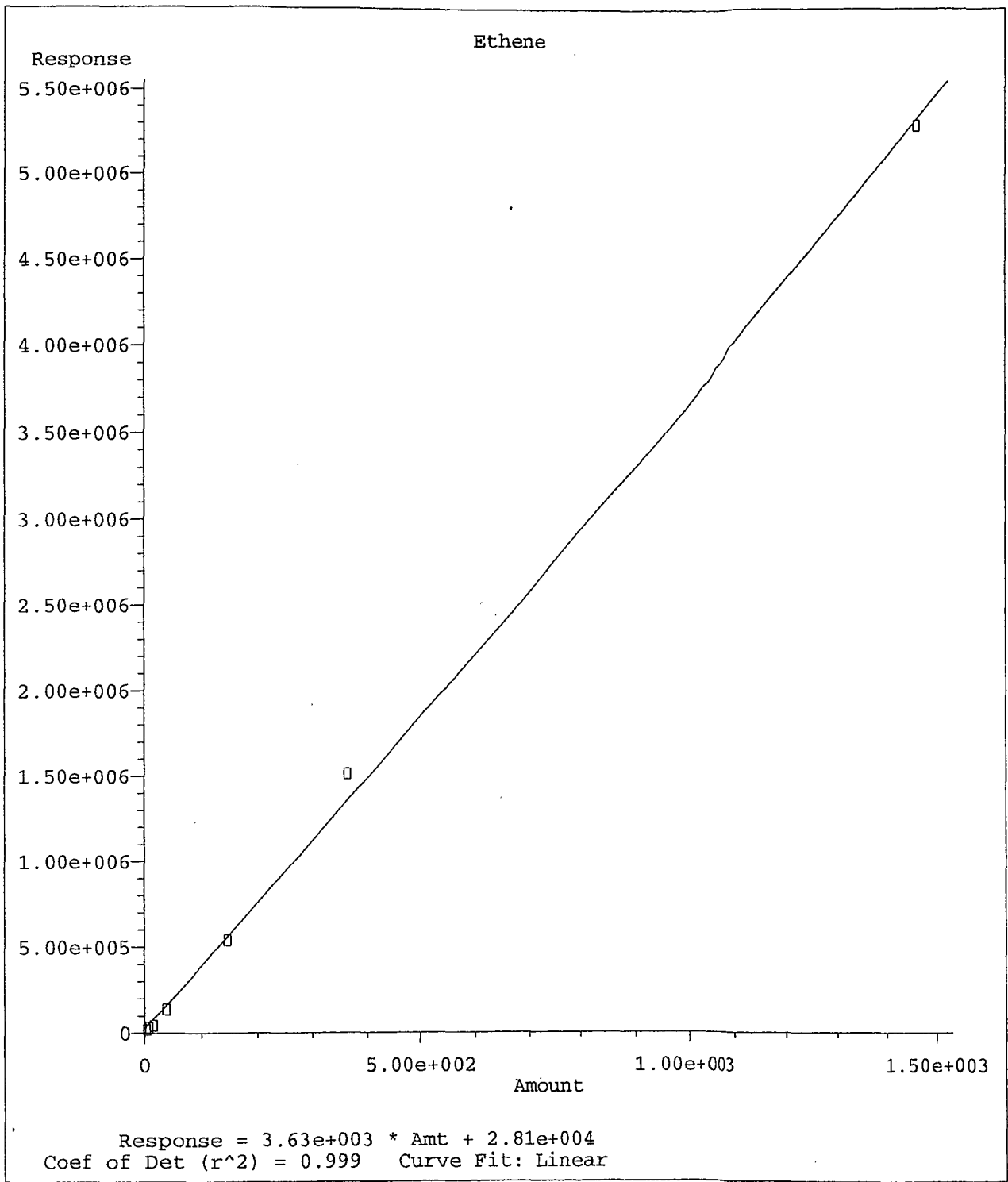




Method Name: G:\ROCKY\DATA\190618RS\RSK0618.M
Calibration Table Last Updated: Tue Jun 18 12:54:55 2019



Method Name: G:\ROCKY\DATA\190618RS\RSK0618.M
Calibration Table Last Updated: Tue Jun 18 12:54:55 2019



Method Name: G:\ROCKY\DATA\190618RS\RSK0618.M
Calibration Table Last Updated: Tue Jun 18 12:54:55 2019

RSK 175

RSK 175

Form 7

Second Source Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 06/18/19

Matrix: _____

Instrument: 7890

Initial Cal. Date: 06/18/19

Data File: 19061809.D

	Compound	MEAN	CCRF	%D	%Drift
1	ATML Methane	10618	11291	6.3	ATML 5.6
2	ATML Ethane	9445	9533	0.93	ATML 4.9
3	ATML Ethene	8042	7618	5.3	ATML 0.44
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40					

Average

4.2

Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\190618RS\19061809.D Vial: 10
 Acq On : 18 Jun 19 12:52 Operator: cmm
 Sample : SS RSK Std 5 06/18/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jun 18 12:55 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jun 18 12:54:55 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

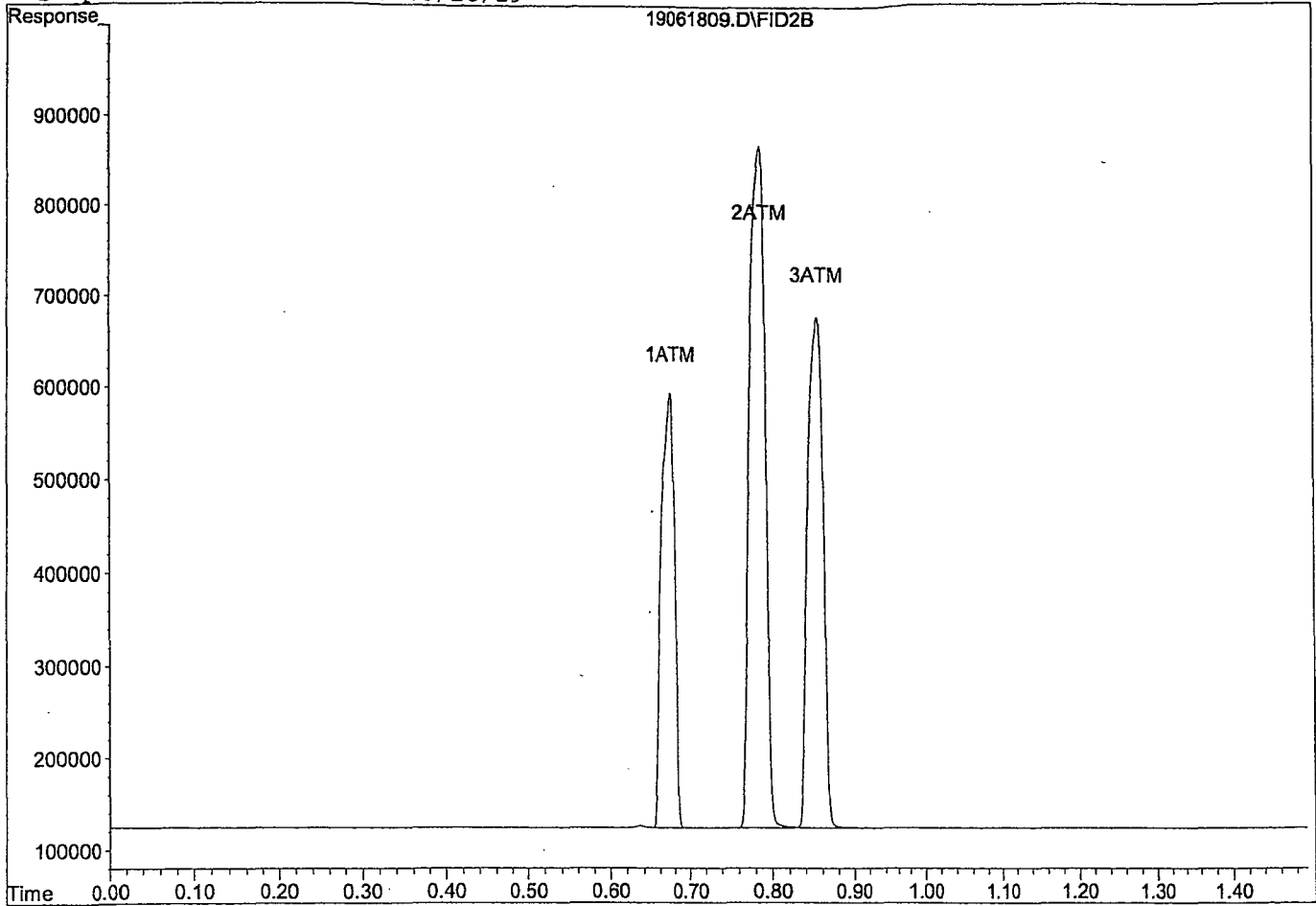
Target Compounds			
1) ATM Methane	0.67	470830	88.031 ppb
2) ATM Ethane	0.78	745250	164.024 ppb
3) ATM Ethene	0.85	555502	145.197 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19061809.D

Sample : SS RSK Std 5 06/18/19



RSK 175
RSK 175

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 07/30/19

Matrix: _____

Instrument: 7890

Initial Cal. Date: 06/18/19

Data File: 19073005.D

		Compound	MEAN	CCRF	%D		%Drift
1	ATML	Methane	10618	9933	6.5	ATML	7.2
2	ATML	Ethane	9445	8209	13	ATML	10
3	ATML	Ethene	8042	6269	22	ATML	19
4							
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39							
40							

Average

13.8

Data File : G:\ROCKY\DATA\190618RS\19073005.D Vial: 1
 Acq On : 30 Jul 19 14:53 Operator: cmm
 Sample : 190730A LCS/CCV RSK STD 5 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 30 14:56 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jul 30 14:56:38 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

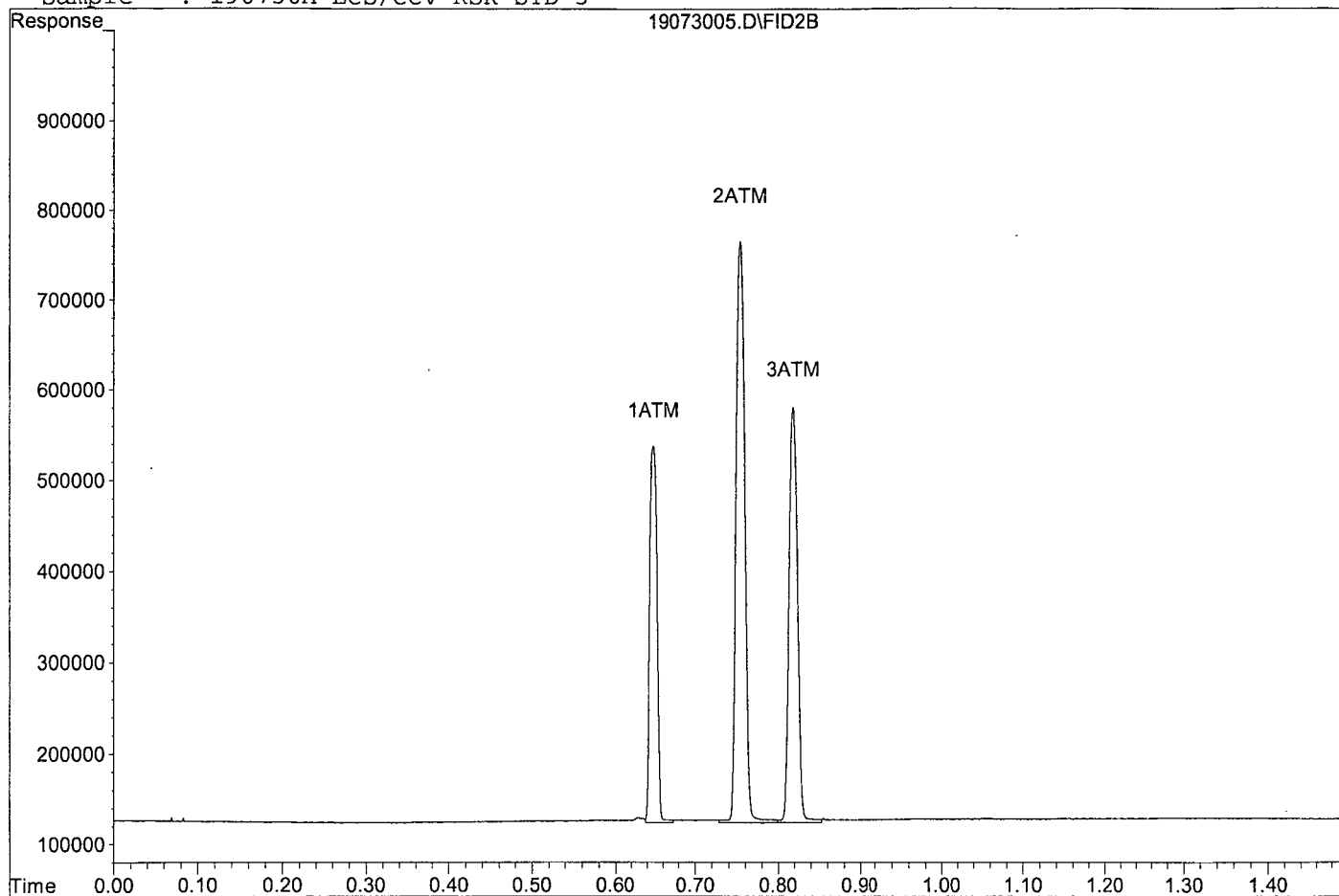
Target Compounds			
1) ATM Methane	0.65	414190	77.358 ppb
2) ATM Ethane	0.75	641748	140.454 ppb
3) ATM Ethene	0.82	457107	118.109 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19073005.D

Sample : 190730A LCS/CCV RSK STD 5



RSK 175
RSK 175

Form 7
Ending Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/30/19
Instrument: 7890
Initial Cal. Date: 06/18/19
Data File: 19073028.D

		Compound	MEAN	CCRF	%D		%Drift
1	ATML	Methane	10618	10823	1.9	ATML	1.1
2	ATML	Ethane	9445	9322	1.3	ATML	2.5
3	ATML	Ethene	8042	8400	4.5	ATML	10
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40							

Average

2.6

Data File : G:\ROCKY\DATA\190618RS\19073028.D Vial: 24
 Acq On : 30 Jul 19 15:57 Operator: cmm
 Sample : Ending CCV RSK Std 5 07/30/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 30 15:59 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jul 30 14:56:38 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

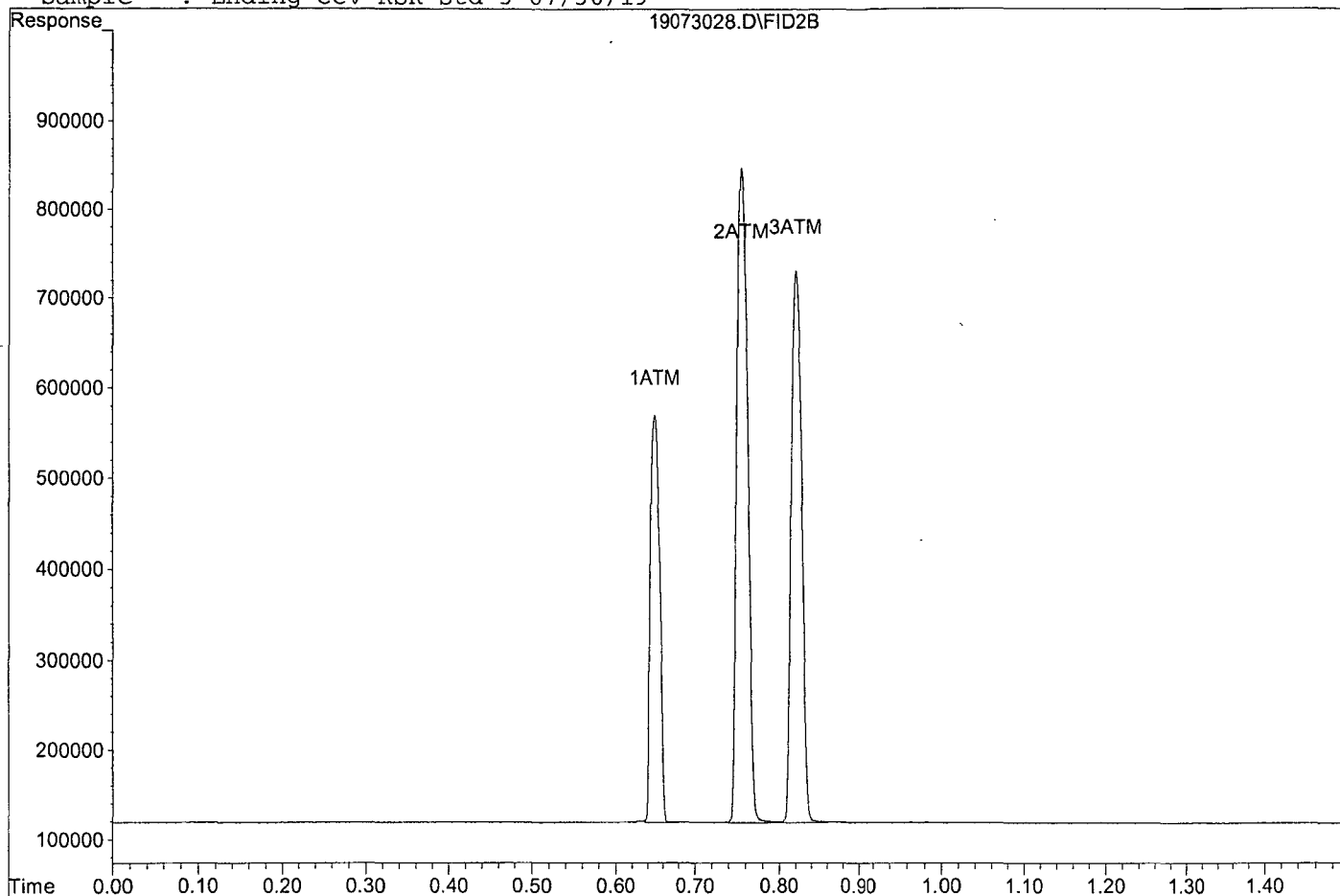
Target Compounds			
1) ATM Methane	0.65	451321	84.355 ppb
2) ATM Ethane	0.76	728720	160.260 ppb
3) ATM Ethene	0.82	612561	160.905 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19073028.D

Sample : Ending CCV RSK Std 5 07/30/19



ORGANICS
Raw Data

Data File : G:\ROCKY\DATA\190618RS\19073021.D Vial: 17
 Acq On : 30 Jul 19 15:39 Operator: cmm
 Sample : AZ95510W04 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 30 15:42 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jul 30 14:56:38 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
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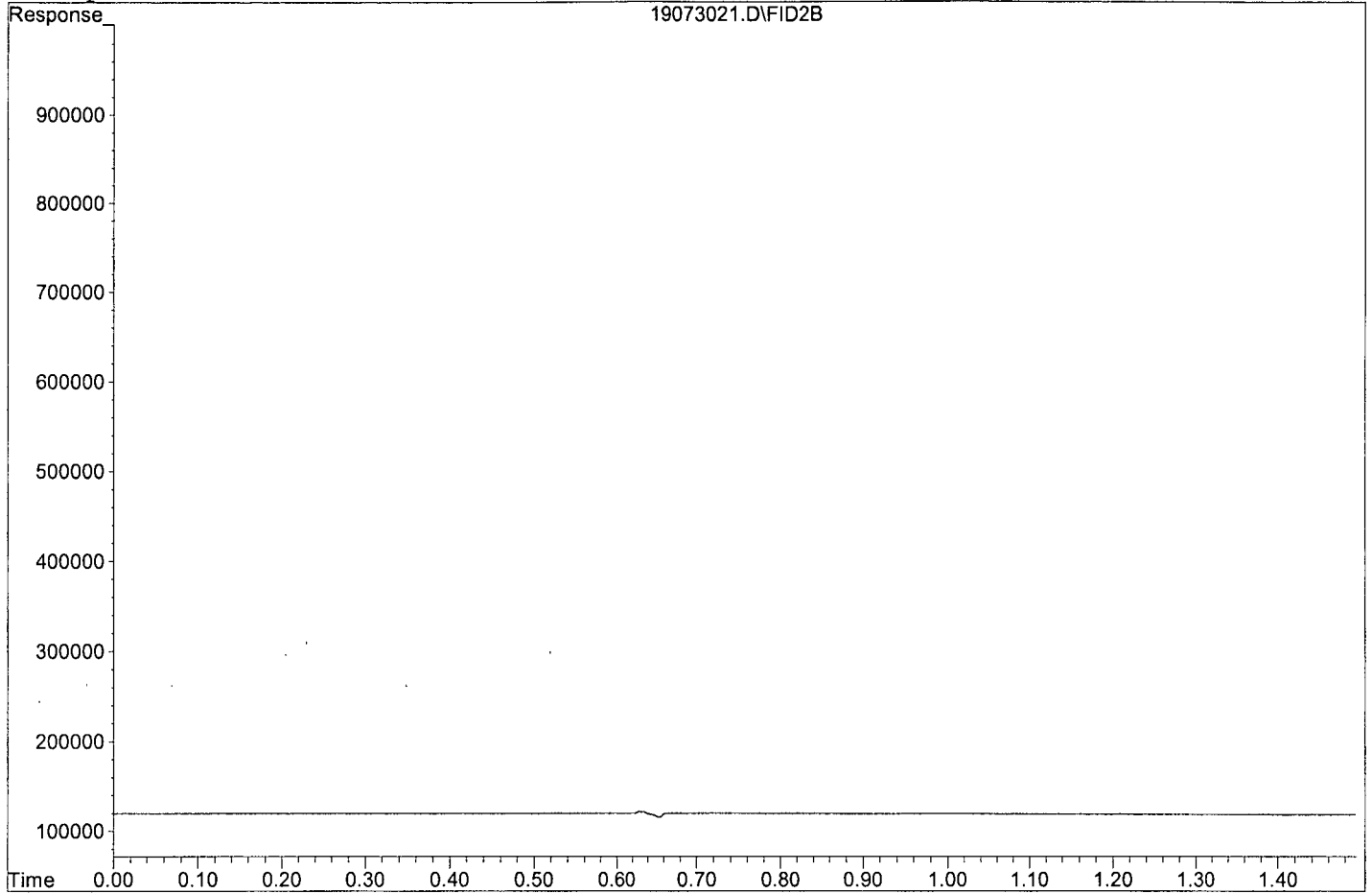
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19073021.D

Sample : AZ95510W04



Data File : G:\ROCKY\DATA\190618RS\19073022.D Vial: 18
 Acq On : 30 Jul 19 15:41 Operator: cmm
 Sample : AZ95511W04 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 30 15:44 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jul 30 14:56:38 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
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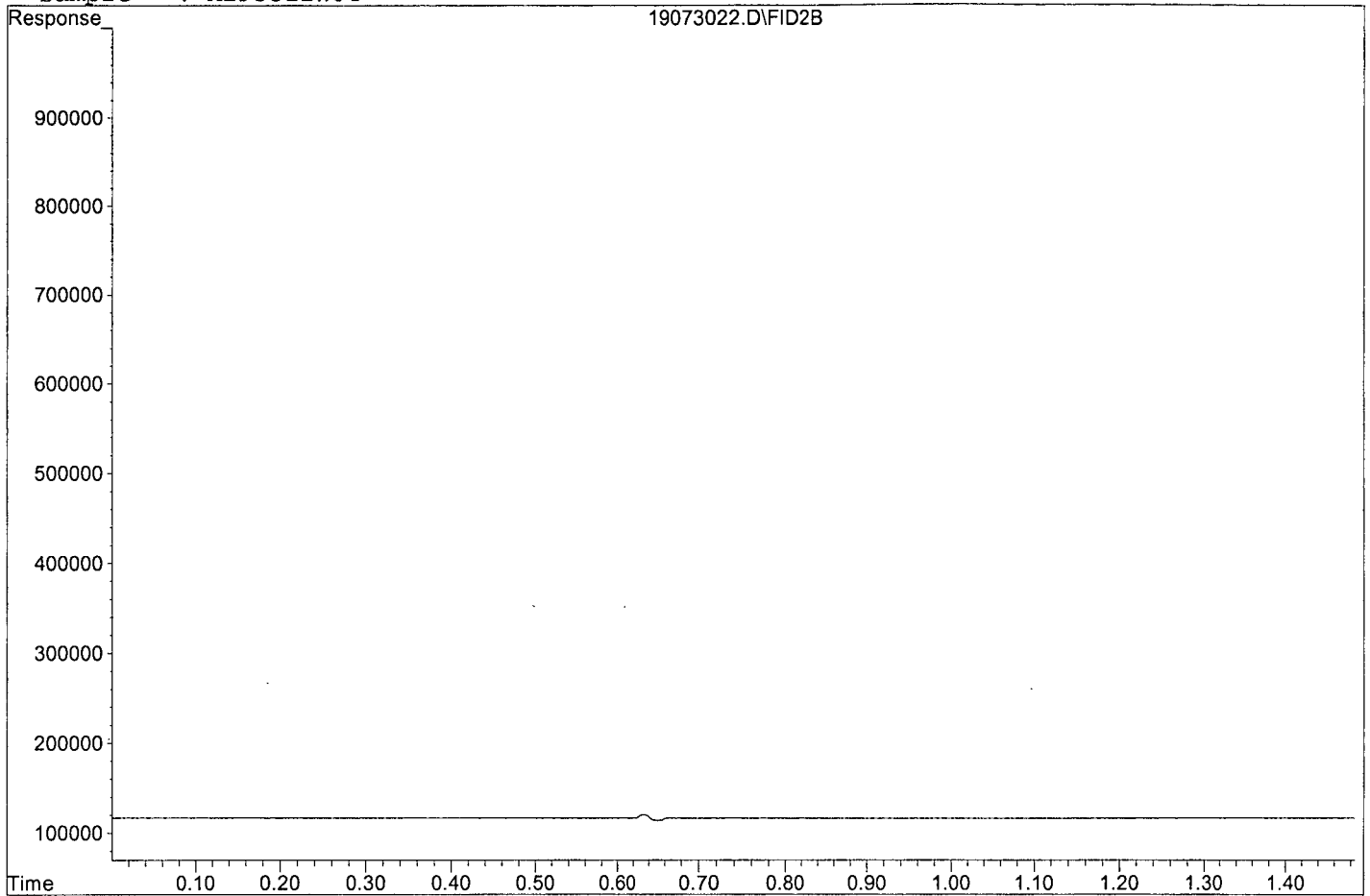
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19073022.D

Sample : AZ95511W04



Data File : G:\ROCKY\DATA\190618RS\19073023.D Vial: 19
 Acq On : 30 Jul 19 15:43 Operator: cmm
 Sample : AZ95512W04 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 30 15:46 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jul 30 14:56:38 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
----------	------	----------	------	-------

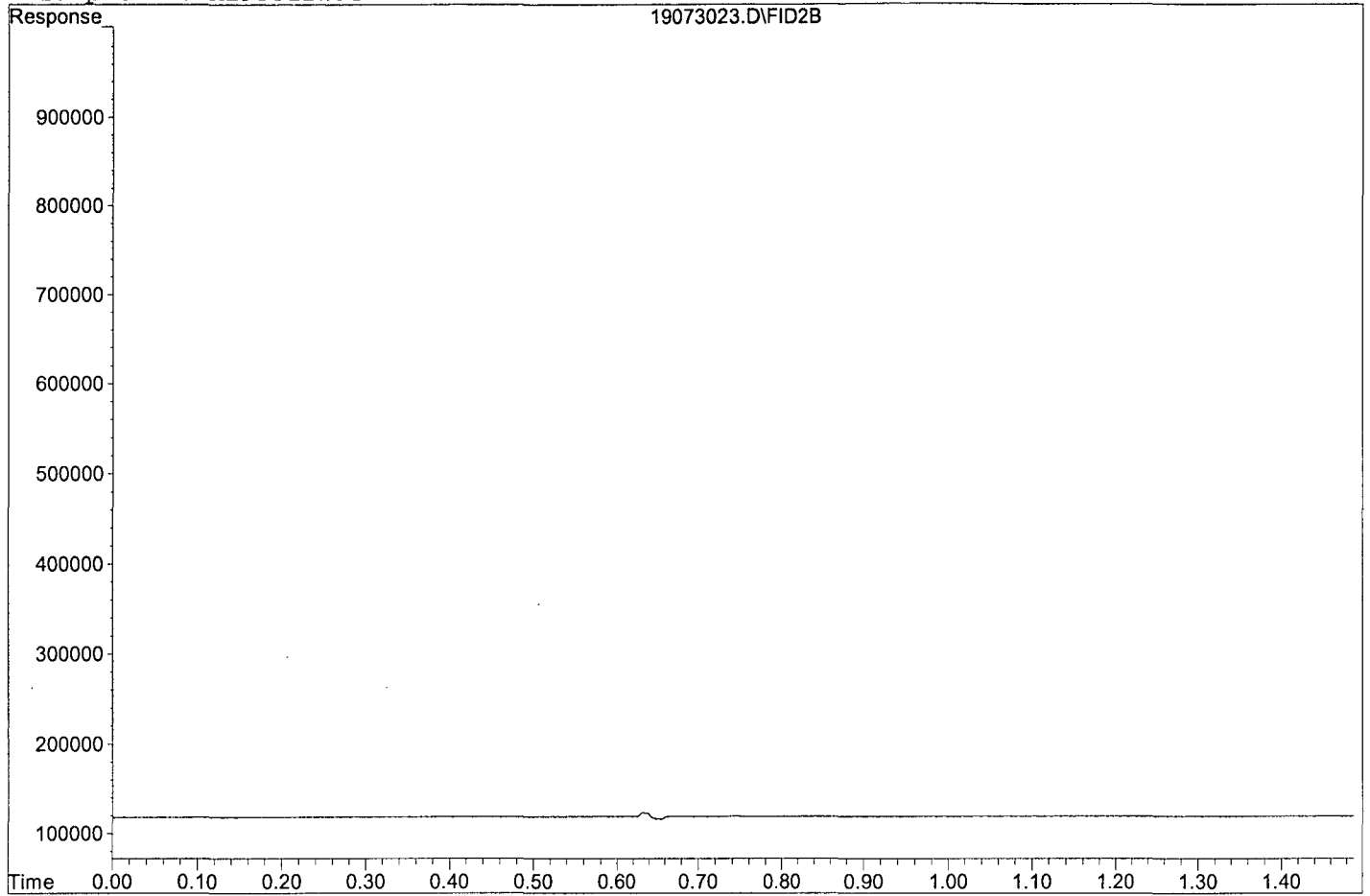
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19073023.D

Sample : AZ95512W04



Data File : G:\ROCKY\DATA\190618RS\19073024.D Vial: 20
 Acq On : 30 Jul 19 15:46 Operator: cmm
 Sample : AZ95513W04 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 30 15:48 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jul 30 14:56:38 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
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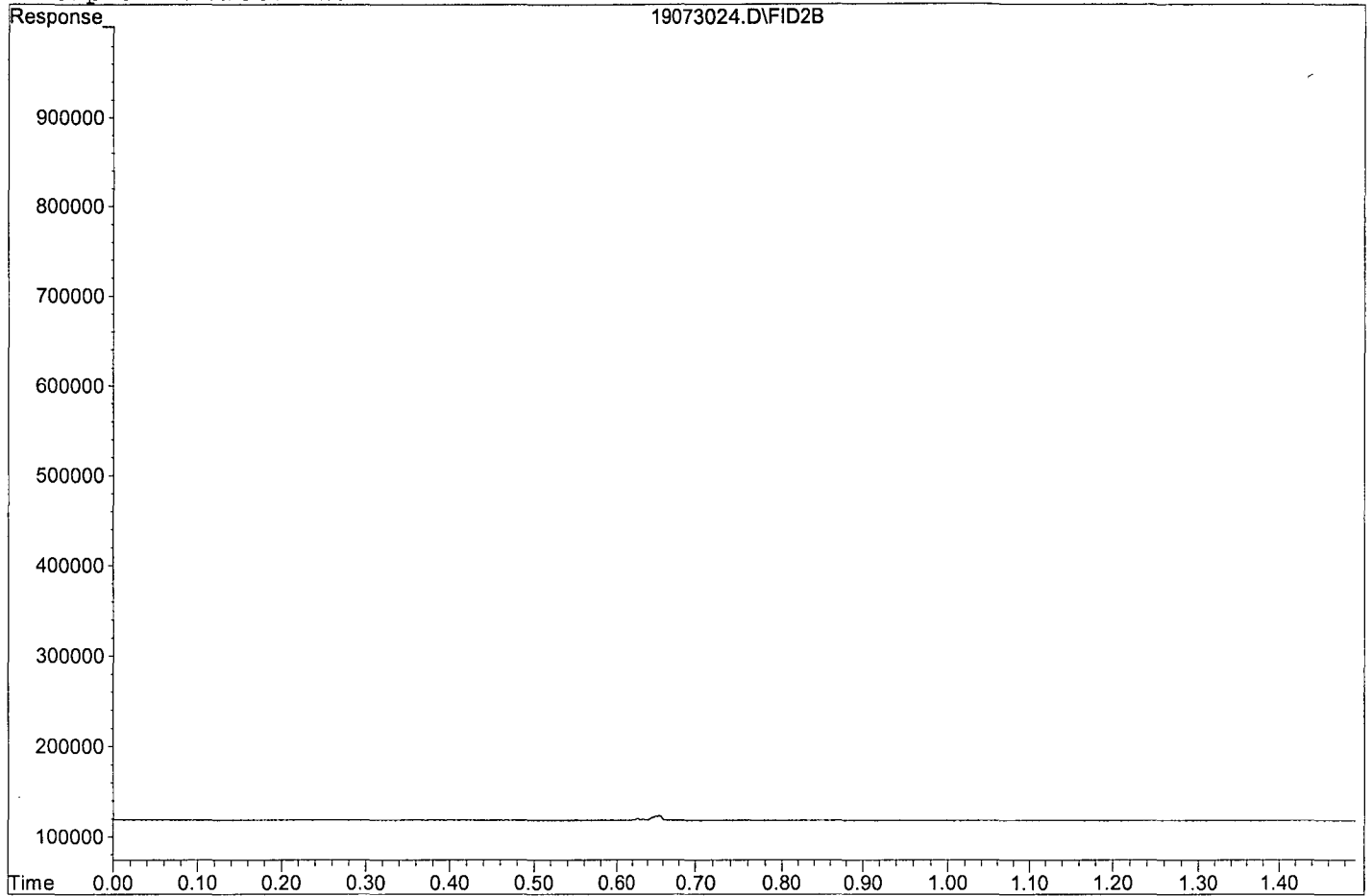
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19073024.D

Sample : AZ95513W04



Data File : G:\ROCKY\DATA\190618RS\19073007.D Vial: 3
 Acq On : 30 Jul 19 14:59 Operator: cmm
 Sample : 190730A Blk Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 30 15:02 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jul 30 14:56:38 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
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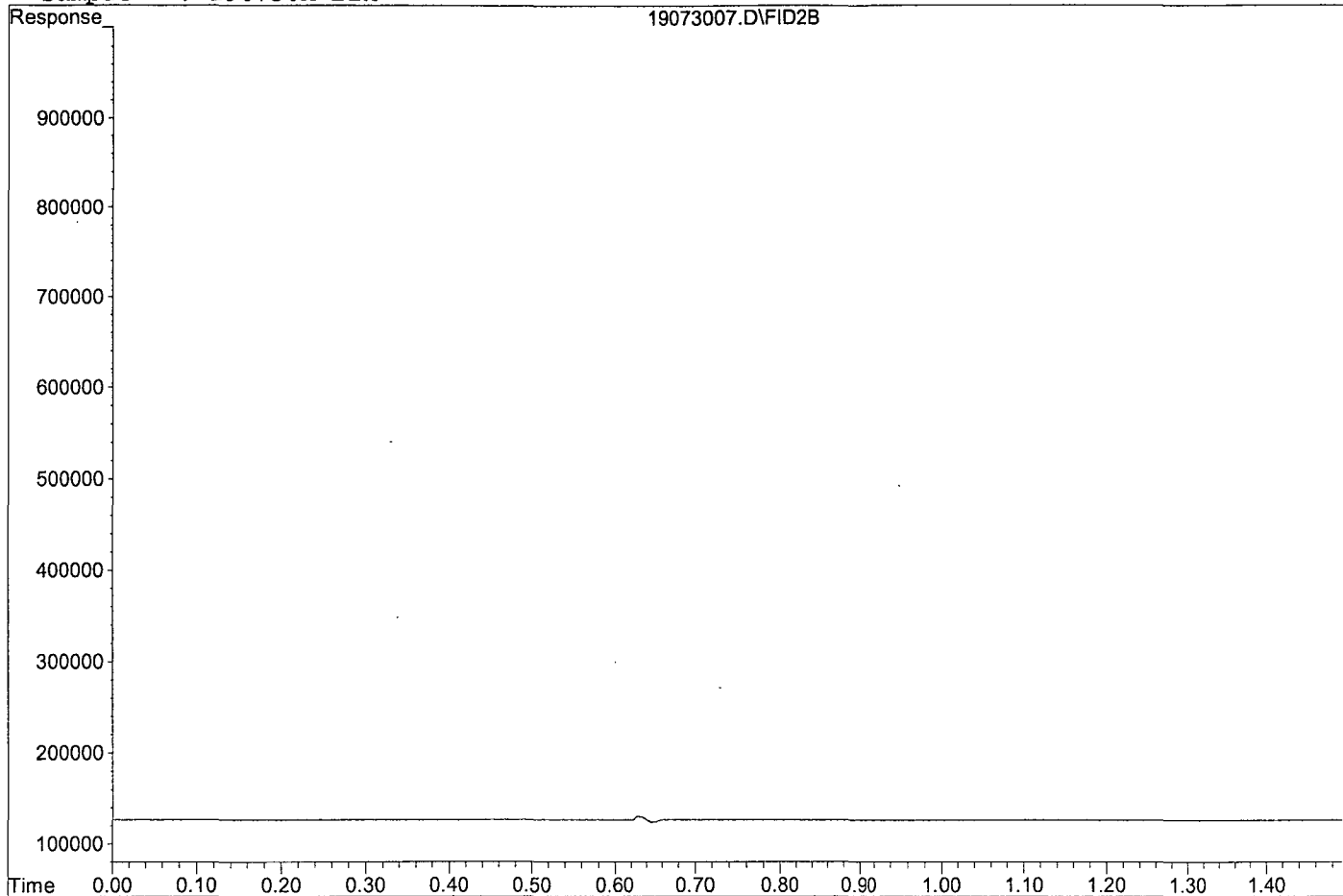
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19073007.D

Sample : 190730A Blk



Data File : G:\ROCKY\DATA\190618RS\19073005.D Vial: 1
 Acq On : 30 Jul 19 14:53 Operator: cmm
 Sample : 190730A LCS/CCV RSK STD 5 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 30 14:56 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jul 30 14:56:38 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

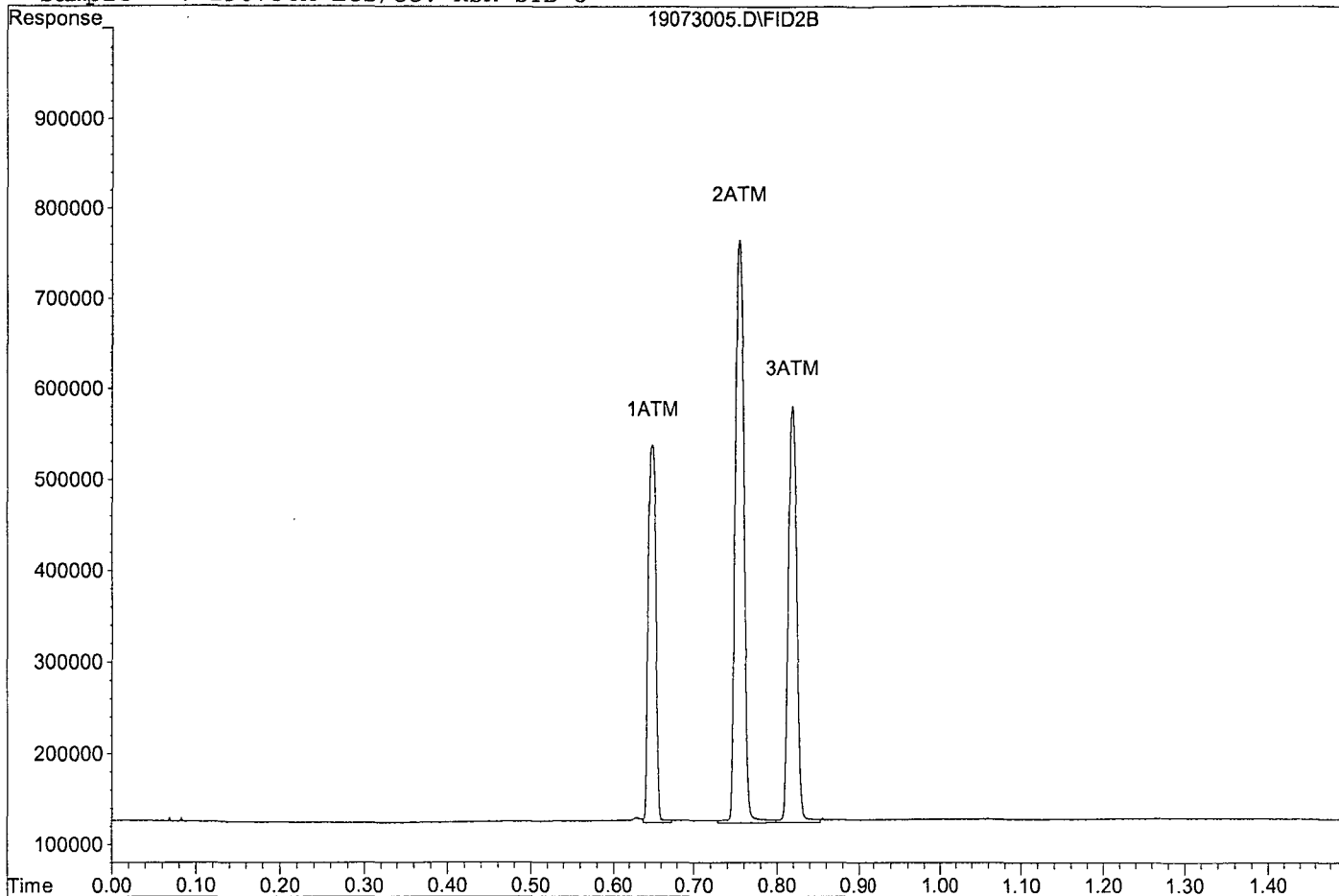
Target Compounds			
1) ATM Methane	0.65	414190	77.358 ppb
2) ATM Ethane	0.75	641748	140.454 ppb
3) ATM Ethene	0.82	457107	118.109 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19073005.D

Sample : 190730A LCS/CCV RSK STD 5



Data File : G:\ROCKY\DATA\190618RS\19073006.D Vial: 2
 Acq On : 30 Jul 19 14:56 Operator: cmm
 Sample : 190730A LCSD RSK STD 5 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jul 30 14:59 2019 Quant Results File: RSK0618.RES

Method : G:\ROCKY\DATA\190618RS\RSK0618.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Tue Jul 30 14:56:38 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

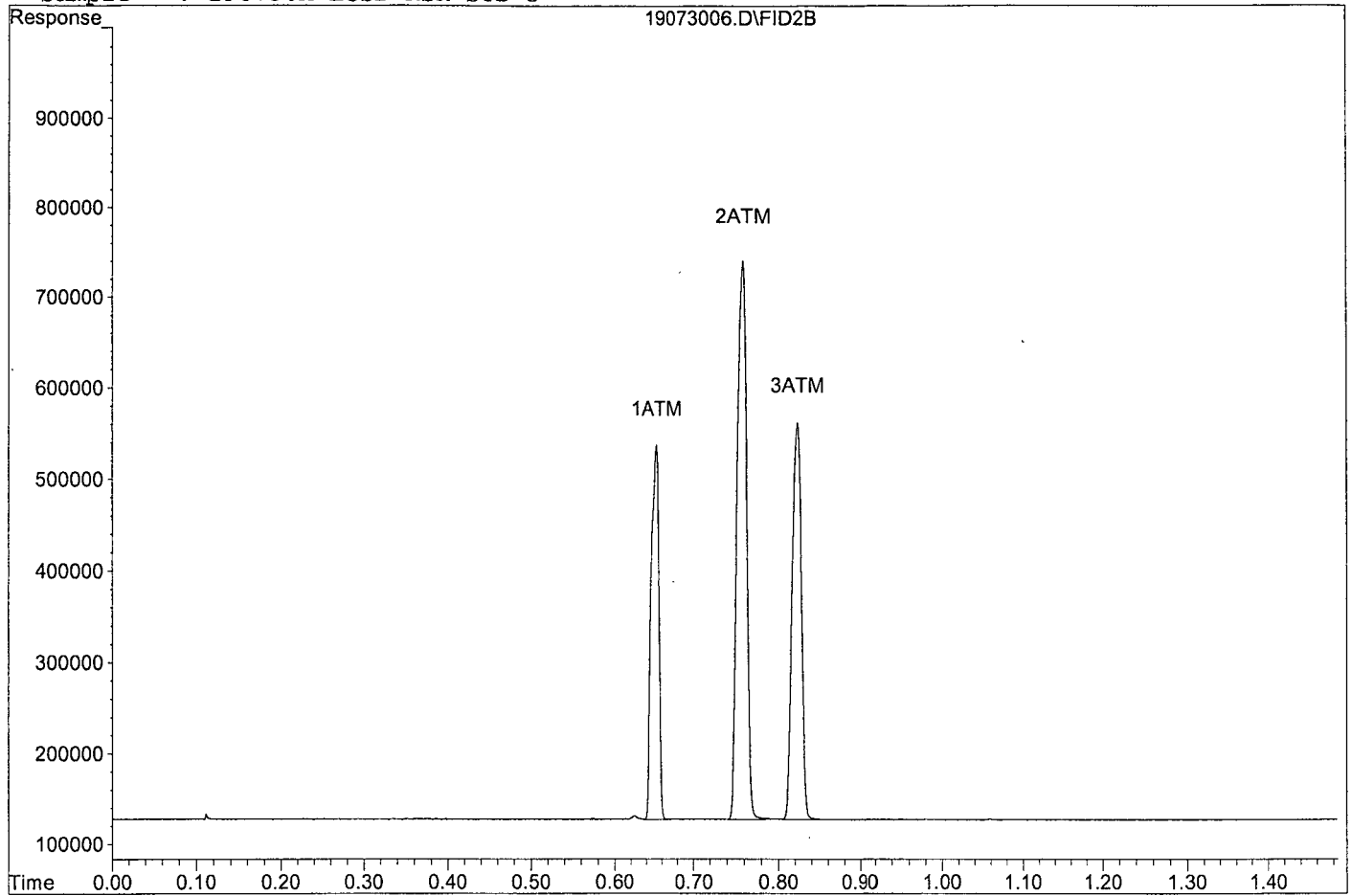
Target Compounds			
1) ATM Methane	0.65	409591	76.492 ppb
2) ATM Ethane	0.76	613680	134.062 ppb
3) ATM Ethene	0.82	435389	112.130 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\190618RS\19073006.D

Sample : 190730A LCSD RSK STD 5



Primary Source Stock Standard 10,000ppmV

Manufacturer Exp Date 9-21-21

RSK Gas Mix (Scott Specialty Gas) Cat.# 0104E40028`4, Lot # 160-401303031-39773

1% Gas Concentration Moles = 10,000ppmV Methane, Ethane, Ethene

RSK Calibration Curve (prepared in 1.0 L Tedlar Bags at room temp)**Expires 07/18/19****CMM 06/18/19**

Analyte	Conc Std 1 (1/2 = LOD) (ug/L)	Conc Std 2 (LOQ Chk) (ug/L)	Conc Std 3 (ug/L)	Conc Std 4 (ug/L)	Conc Std 5 (ug/L)	Conc Std 6 (ug/L)	Conc Std 7 (ug/L)
Methane (MW 16.04)	2.08	4.16	8.34	20.85	83.40	208.5	834.0
Ethane (MW 30.07)	3.91	7.81	15.6	39.09	156.35	390.9	1563.5
Ethene (MW 28.05)	3.65	7.30	14.6	36.46	145.84	364.6	1458.4
Stock Source	RSK Tank Lot #170PLU5SPC0 6L-35410	RSK Tank Lot #170PLU5SPC0 6L-35410	RSK Tank Lot #170PLU5SPC0 6L-35410	RSK Tank Lot #170PLU5SPC0 6L-35410	RSK Tank Lot #170PLU5SPC06L- 35410	RSK Tank Lot #170PLU5SPC0 6L-35410	RSK Tank Lot #170PLU5SPC0 6L-35410
Stock Conc (ppmv)	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV
Stock Aliquot (mL)	0.010	0.020	0.040	0.100	0.400	1.00	4.00
Final Volume P&T Water	32 mL	32 mL	32 mL	32 mL	32 mL	32 mL	32 mL

Second Source Stock Standard 10,000ppmV

Manufacturer Exp date 9-21-2021

RSK Gas Mix (Scott Specialty Gas) Cat.# 23452, Lot # 160-401303032-1-39774

1% Gas Concentration Moles = 10,000ppmV Methane, Ethane, Ethene

Second Source**Expires 06/19/19****CMM 06/18/19**

2.0mL of SS from tank into 980 mL Nitrogen

final conc: 13.3ug/L Methane, 25.0 ug/L Ethane, and 23.3 ug/L Ethene

CCV/LCS/LCSD**CMM 07/30/19**

Spike 0.400mL of 10,000ppmV into 32mL DI water, with 8mL Nitrogen headspace

final conc: 83.40ug/L Methane, 156.35ug/L Ethane, and 145.84ug/L Ethene

Injection Log

Directory: G:\ROCKY\DATA\190618RS\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	3	19061802.D	1	RSK Std 1 06/18/19	125 uL from Std 3	18 Jun 19 12:33
2	4	19061803.D	1	RSK Std 2 06/18/19	250 uL from Std 3	18 Jun 19 12:36
3	5	19061804.D	1	RSK Std 3 06/18/19		18 Jun 19 12:39
4	6	19061805.D	1	RSK Std 4 06/18/19		18 Jun 19 12:42
5	7	19061806.D	1	RSK Std 5 06/18/19		18 Jun 19 12:44
6	8	19061807.D	1	RSK Std 6 06/18/19		18 Jun 19 12:47
7	9	19061808.D	1	RSK Std 7 06/18/19		18 Jun 19 12:49
8	10	19061809.D	1	SS RSK Std 5 06/18/19		18 Jun 19 12:52
9	1	19073005.D	1	190730A LCS/CCV RSK STD 5		30 Jul 19 14:53
10	2	19073006.D	1	190730A LCSD RSK STD 5		30 Jul 19 14:56
11	3	19073007.D	1	190730A Blk		30 Jul 19 14:59
12	17	19073021.D	1	AZ95510W04		30 Jul 19 15:39
13	18	19073022.D	1	AZ95511W04		30 Jul 19 15:41
14	19	19073023.D	1	AZ95512W04		30 Jul 19 15:43
15	20	19073024.D	1	AZ95513W04		30 Jul 19 15:46
16	24	19073028.D	1	Ending CCV RSK Std 5 07/30/19		30 Jul 19 15:57

INORGANIC ANALYSIS
Calibration Data

A.P.P.L. INC.

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: AECOM

ARF No: 89624 SDG: 89624

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 08/15/19

Analyte	Calibration Verification									M
	True CCV1	Found 10:20	%R(1)	True CCV1	Found 10:34	%R(1)	True CCV1	Found 15:05	%R(1)	
chloride	25	22.672	90.7	25	23.3181	93.3	25	22.7547	91.0	

(1) Control Limits: 90-110

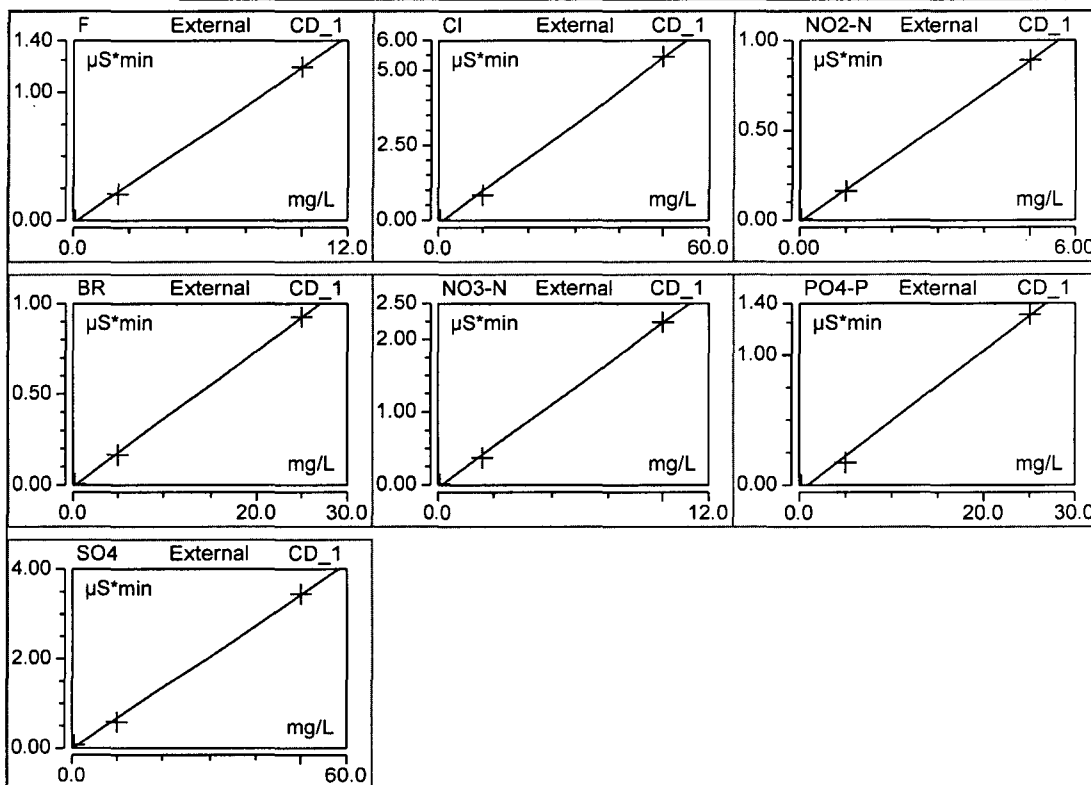
ILM02.0

Calibration Batch Report

Sequence:	190803A	Injection Volume:	25.00
Instrument Method:	Anions IM	Operator:	chemist_wetlab
Inj. Date / Time:	03-Aug-2019 / 09:29	Run Time:	5

Calibration Summary							
Peak Name	Eval.Type	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff.Det. %
F	Area	Lin, WithOffset	3.000	-0.022	0.121	0.000	99.9379
Cl	Area	Lin, WithOffset	3.000	-0.128	0.111	0.000	99.8087
NO2-N	Area	Lin, WithOffset	3.000	-0.008	0.179	0.000	99.9729
BR	Area	Lin, WithOffset	3.000	-0.011	0.037	0.000	99.9537
NO3-N	Area	Lin, WithOffset	3.000	-0.037	0.227	0.000	99.8957
PO4-P	Area	Lin, WithOffset	3.000	-0.048	0.054	0.000	99.5859
SO4	Area	Lin, WithOffset	3.000	-0.021	0.069	0.000	99.8329

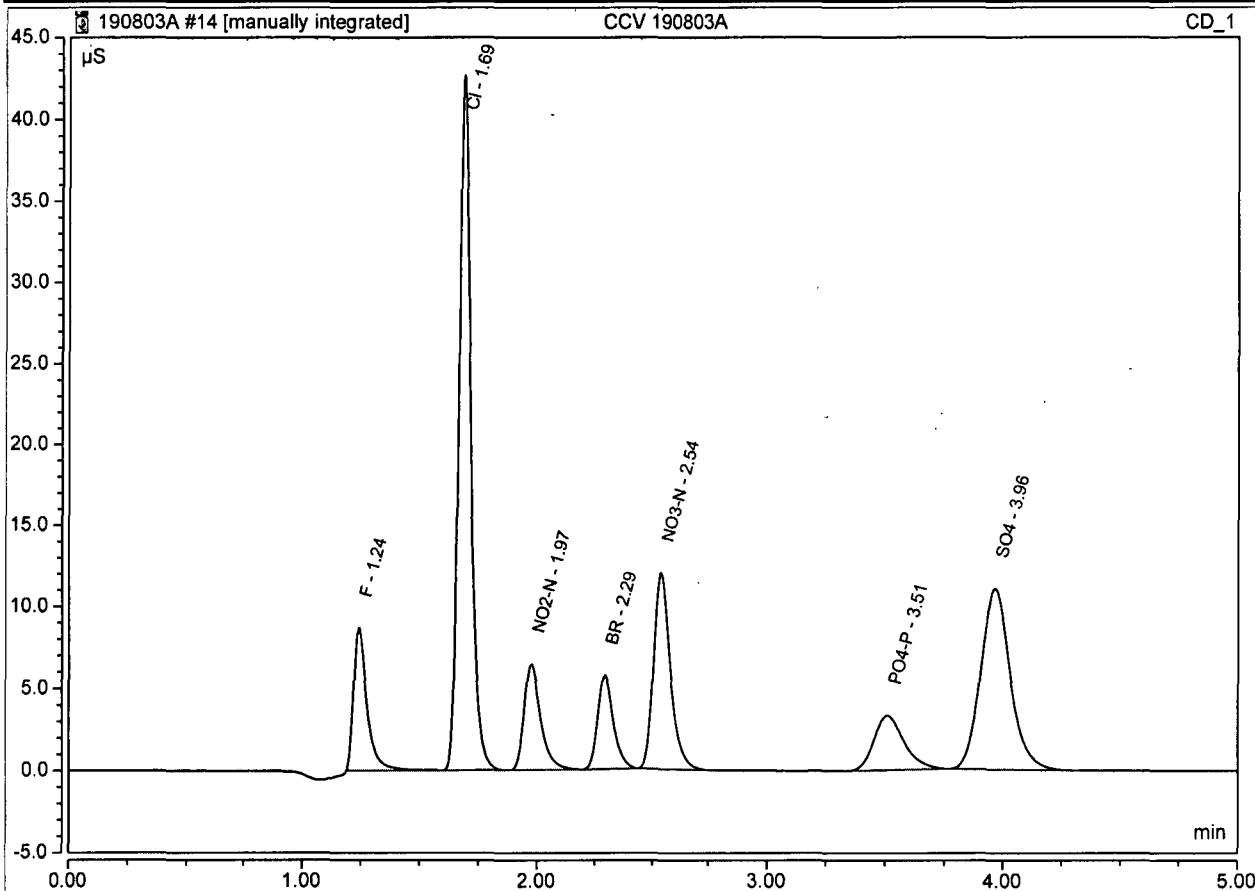
Injection Name	Amount mg/L	Amount mg/L	Amount mg/L	Amount mg/L	Amount mg/L	Amount mg/L	Amount mg/L
	CD_1	CD_1	CD_1	CD_1	CD_1	CD_1	CD_1
	F	Cl	NO2-N	BR	NO3-N	PO4-P	SO4



Peak Integration Report

Sample Name:	CCV 190803A	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.00
Program:	Anlon APM 190725	Operator:	chemist_wetlab
Inj. Date / Time:	03-Aug-2019 / 09:29	Run Time:	5.00

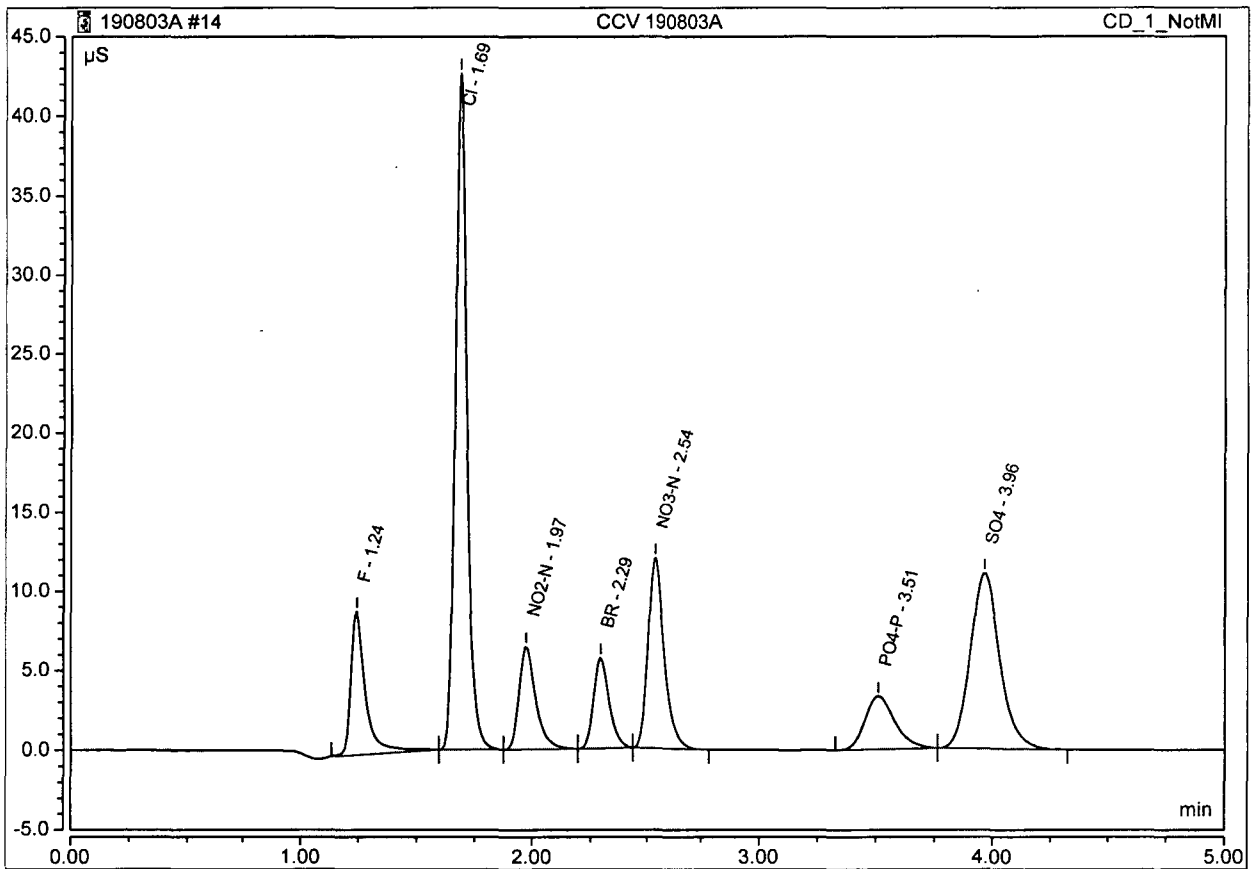
No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.24	F	BMB*	0.581	8.730	4.97	5	99.4%
2	1.69	Cl	BMB	2.483	42.677	23.46	25	93.8%
3	1.97	NO2-N	BMB	0.534	6.458	3.03	3.04	99.5%
4	2.29	BR	BMB	0.441	5.689	12.10	12.5	96.8%
5	2.54	NO3-N	BMB	1.038	11.995	4.73	5	94.6%
6	3.51	PO4-P	BMB	0.487	3.318	9.88	10	98.8%
7	3.96	SO4	BMB	1.617	11.030	23.72	25	94.9%



Not Manipulated Peak Integration Report

Sample Name:	CCV 190803A	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.0000
Program:	Anlon APM 190725	Operator:	chemist_wetlab
Inj. Date / Time:	03-Aug-2019 / 09:29	Run Time:	5.00

No.	Time min	Peak Name	Peak Type	Area uS*min	Height uS	Ammount mg/L
1	1.24	F	BMB*	0.659	9.037	5.2700
2	1.69	Cl	BMB	2.483	42.677	23.4564
3	1.97	NO2-N	BMB	0.534	6.458	3.0262
4	2.29	BR	BMB	0.441	5.689	12.1012
5	2.54	NO3-N	BMB	1.038	11.995	4.7302
6	3.51	PO4-P	BMB	0.487	3.318	10.4993
7	3.96	SO4	BMB	1.617	11.030	23.7241



A.P.P.L. INC.

3

BLANKS

Lab Name: A.P.P.L. INC.

Contract: AECOM

ARF No.: 89624

SDG: 89624

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): mg/L

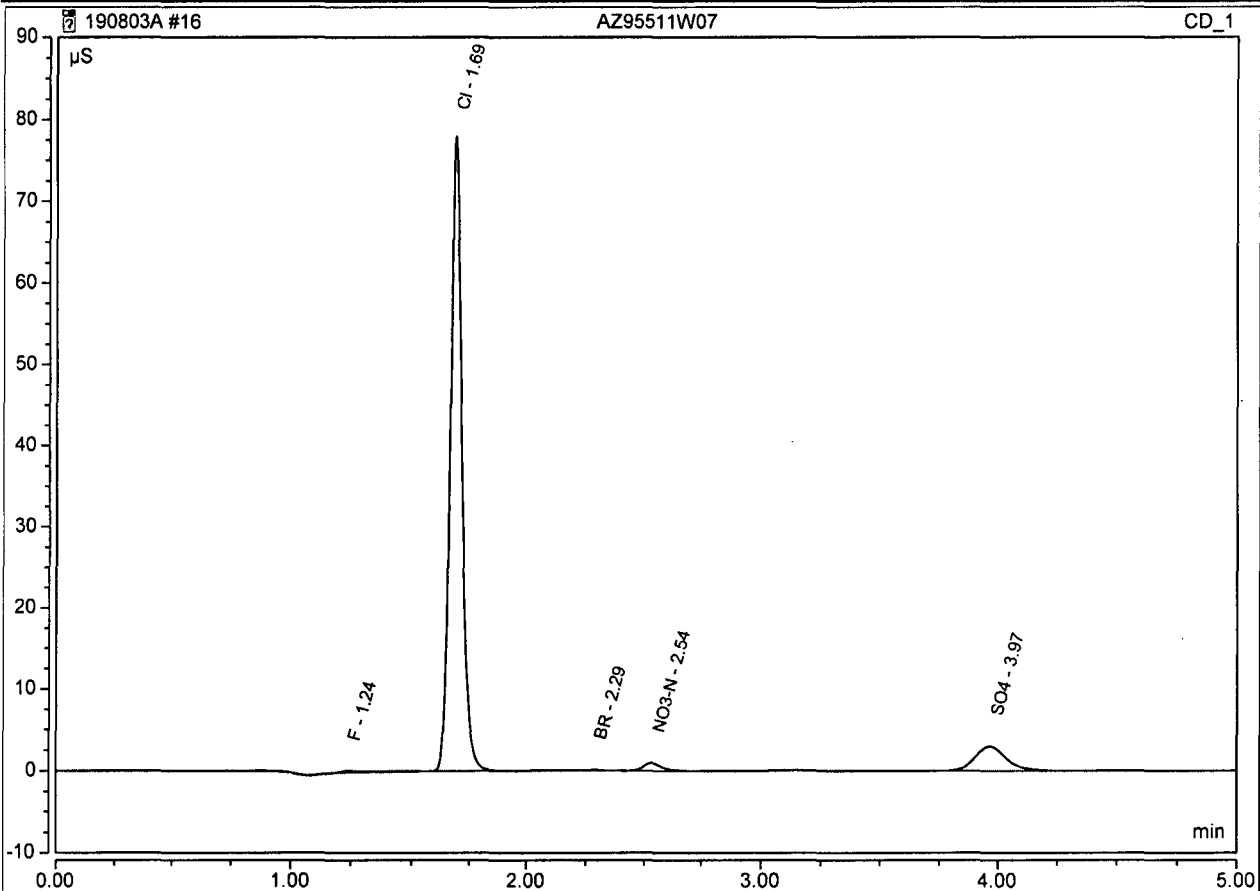
Analyte	Calibration Blanks										M
	CCB 08/15/19 10:27	C	CCB 08/15/19 15:12	C		C		C		C	
chloride	1.000	U	1.000	U							

INORGANIC ANALYSIS
Raw Data

Peak Integration Report

Sample Name:		AZ95511W07		Inj. Vol.:		25uL	
Injection Type:		Unknown		Dilution Factor:		1.00	
Program:		Anlon APM 190725		Operator:		chemist_wetlab	
Inj. Date / Time:		03-Aug-2019 / 10:00		Run Time:		5.00	

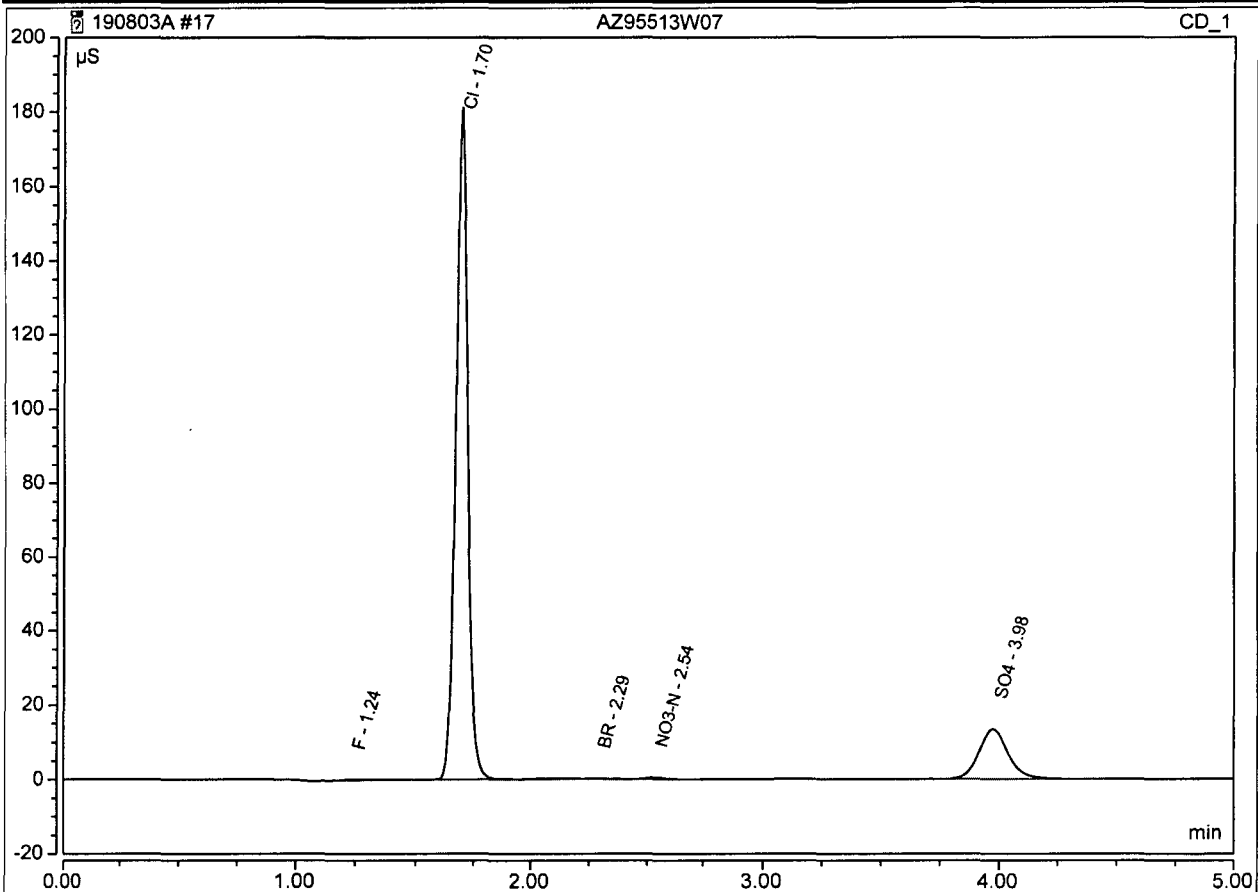
No.	Time (min)	Peak Name	Peak Type	Area (uS*min)	Height (uS)	Amount	Spike Level	Recovery
	min			uS*min	uS	mg/L	mg/L	
1	1.24	F	BMB	0.030	0.195	0.42		
2	1.69	Cl	BMB	4.525	78.015	41.79		
4	2.29	BR	BMB	0.004	0.058	0.40		
5	2.54	NO3-N	BMB	0.085	0.930	0.54		
6	3.97	SO4	BMB	0.447	2.964	6.77		



Peak Integration Report

Sample Name:	AZ95513W07	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 190725	Operator:	chemist_wetlab
Inj. Date / Time:	03-Aug-2019 / 10:07	Run Time:	5.00

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.24	F	BMB	0.029	0.210	0.42		
2	1.70	Cl	BMB	10.820	181.313	98.34		
4	2.29	BR	BMB	0.008	0.105	0.48		
5	2.54	NO3-N	BMB	0.042	0.458	0.35		
6	3.98	SO4	BMB	1.945	13.443	28.49		



EPA 300.0 Injection Log

Directory: I:\Dionex\Charlie\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
29	15 Aug 2019	10:20	CCV 190814		Anions	1.
30	15 Aug 2019	10:27	CCB 190814		Anions	1.
31	15 Aug 2019	10:34	190814 LCS		Anions	1.
32	15 Aug 2019	10:41	190814 LCSD		Anions	1.
33	15 Aug 2019	12:00	AZ95513W07 DF2		Anions	2.
58	15 Aug 2019	15:05	CCV 190814		Anions	1.
59	15 Aug 2019	15:12	CCB 190814		Anions	1.

INORGANIC ANALYSIS
Calibration Data

A.P.P.L. INC.
2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: AECOM

ARF No: 89624 SDG: 89624

Initial Calibration Source: Inorganic Ventures

Continuing Calibration Source: o2si

Analysis Date: 07/31/19

Analyte	Calibration Verification									M
	True ICV	Found 17:21	%R(1)	True CCV1	Found 18:20	%R(1)	True CCV1	Found 18:47	%R(1)	
TOXN	3	2.8764	95.9	3	2.7636	92.1	3	2.7201	90.7	

A.P.P.L. INC.

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: AECOM

ARF No: 89624 SDG: 89624

Initial Calibration Source: Inorganic Ventures

Continuing Calibration Source: o2si

Analysis Date: 07/31/19

Analyte	Calibration Verification									M
	True CCV1	Found 19:02	%R(1)	True	Found	%R(1)	True	Found	%R(1)	
TOXN	3	2.8221	94.1							

(1) Control Limits: 90-110

ILM02.0

A.P.P.L. INC.

3

BLANKS

Lab Name: A.P.P.L. INC.

Contract: AECOM

ARF No.: 89624

SDG: 89624

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): mg/L

Analyte	Calibration Blanks										M
	ICB 07/31/19 17:22	C	CCB 07/31/19 18:22	C	CCB 07/31/19 18:50	C	CCB 07/31/19 19:03	C		C	
TOXN	.100	U	.100	U	.100	U	.100	U			

INORGANIC ANALYSIS
Raw Data

AQ2 Tray Report



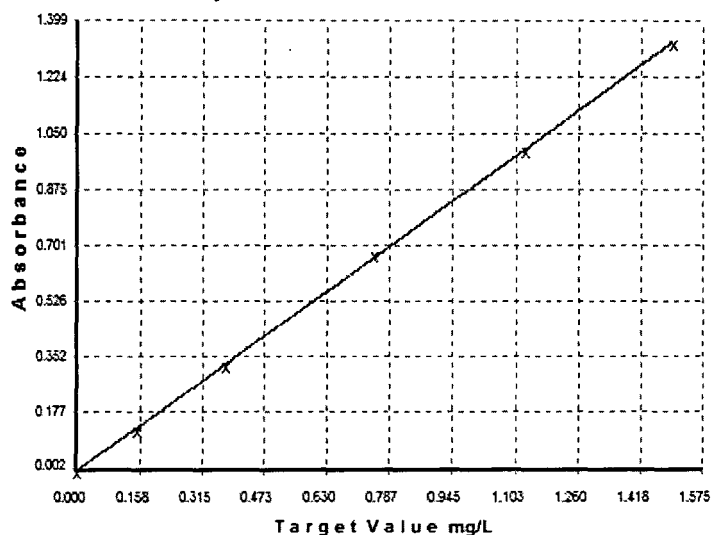
Serial Number: 190170
Software Version: 2.1.0
Report Requested By: Eve V
Date & Time: 2019-08-01 17:05:18
Tray Number: 8
Tray Name: 190731A NO2 NO3 TOXN CCV ICV

Nitrite-N

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0025	0.0009	0.0000	
S90	0.1338	0.1485	0.1500	-0.99
S91	0.3299	0.3689	0.3750	-1.62
S92	0.6766	0.7585	0.7500	1.14
S93	1.0051	1.1277	1.1250	0.24
S94	1.3322	1.4953	1.5000	-0.31
S0	0.0143	0.0142	0.0000	

Calibration Graph



Polynomial Order: 1
 Correlation Coefficient: 1.0000
 Carryover(%): 0.9
 Calibration equation: $y = bx + a$
 y =: Concentration mg/L
 x =: Measured absorbance
 a =: $-1.819091E-003$
 b =: $1.123808E+000$
 Date & Time: 2019-07-31 16:43:28

$y = 1.123808(0.647726) - 0.001819091$
 $= 0.726101$ ✓
 JDW 8/19/19

Reagents

Name	Batch	Prepared By	Expiry Date
Sulfa-NEDD		Joel	
NO2 Buffer		Joel	

Test Results

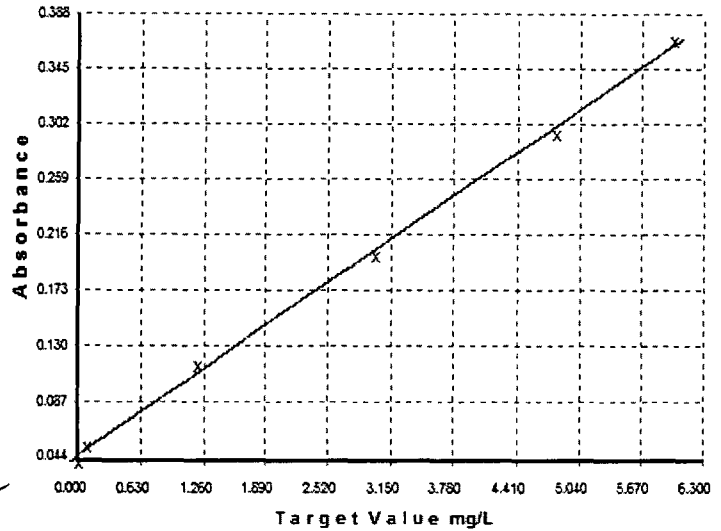
Cup Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
S1	Standard 1	0.0025			0.002451			Ev	2019-07-31 16:36:42
S90	Standard 90	0.1338			0.133773			Ev	2019-07-31 16:37:55
S91	Standard 91	0.3299			0.329910			Ev	2019-07-31 16:39:09
S92	Standard 92	0.6766			0.676576			Ev	2019-07-31 16:40:22
S93	Standard 93	1.0051			1.005118			Ev	2019-07-31 16:41:35
S94	Standard 94	1.3322			1.332225			Ev	2019-07-31 16:42:50
S0	Standard 0	0.0143			0.014288			Ev	2019-07-31 16:43:28
CCV	CCV .75	0.7265	mg/L		0.648105			Ev	2019-07-31 16:45:37
CCB	CCB	0.0081	mg/L		0.008815			Ev	2019-07-31 16:47:51
3	U1	ICV NO2	mg/L	✓	0.647726			Ev	2019-07-31 16:50:08
5	U3	ICB NO2 NO3 TOXN	mg/L		0.007844			Ev	2019-07-31 16:52:26
6	U4	1ppm NO2	mg/L		0.873402			Ev	2019-07-31 16:54:44
	CCV	CCV .75	mg/L		0.649054			Ev	2019-07-31 16:57:01
	CCB	CCB	mg/L		0.007367			Ev	2019-07-31 16:59:13

TOXN

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0441	-0.0939	0.0000	
S90	0.0573	0.1572	0.1000	57.21
S91	0.1183	1.3178	1.2000	9.81
S92	0.2030	2.9275	3.0000	-2.42
S93	0.2962	4.6982	4.8000	-2.12
S94	0.3695	6.0932	6.0000	1.55
S0	0.0455	-0.0672	0.0000	

Calibration Graph



Polynomial Order: 1
 Correlation Coefficient: 0.9992
 Carryover(%): 0.4
 Calibration equation: $y = bx + a$
 y =: Concentration mg/L
 x =: Measured absorbance
 a =: -9.320405E-001
 b =: 1.901030E+001
 Date & Time: 2019-07-31 17:18:49

$y = 19.01030(0.200333) - 0.9320405$
 $= 2.876350$ ✓
Joel 8/11/19

Reagents

Name	Batch	Prepared By	Expiry Date
NO3 W Buffer		Joel	
Sulfa-NEDD		Joel	

Test Results

Cup	Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
S1	Standard	1	0.0441			0.044090			Ev	2019-07-31 17:08:05
S90	Standard	90	0.0573			0.057298			Ev	2019-07-31 17:10:22
S91	Standard	91	0.1183			0.118347			Ev	2019-07-31 17:12:36
S92	Standard	92	0.2030			0.203024			Ev	2019-07-31 17:14:48
S93	Standard	93	0.2962			0.296168			Ev	2019-07-31 17:17:05
S94	Standard	94	0.3695			0.369548			Ev	2019-07-31 17:17:44
S0	Standard	0	0.0455			0.045492			Ev	2019-07-31 17:18:49
CCV	CCV		2.8695	mg/L		0.199973			Ev	2019-07-31 17:19:45
CCB	CCB		-0.0894	mg/L		0.044326			Ev	2019-07-31 17:20:41
4	U2	ICV NO3 TOXN	2.8764	mg/L		0.200333			Ev	2019-07-31 17:21:38
5	U3	ICB NO2 NO3 TOXN	-0.0417	mg/L		0.046836			Ev	2019-07-31 17:22:34
7	U5	1ppm NO3 TOXN	0.8475	mg/L		0.093608			Ev	2019-07-31 17:23:30
	CCV	CCV	2.7822	mg/L		0.195380			Ev	2019-07-31 17:24:27
	CCB	CCB	-0.1103	mg/L		0.043226			Ev	2019-07-31 17:25:23

Nitrate-N

Test Results

Cup	Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
5	U3	ICB NO2 NO3 TOXN	-0.0487	mg/L		0.000000			Ev	2019-07-31 17:22:34
5	U3	ICB NO2 NO3 TOXN				0.000000			Ev	2019-07-31 17:22:34

AQ2 Tray Report



Serial Number: 190170
Software Version: 2.1.0
Report Requested By: Eve V
Date & Time: 2019-08-01 17:07:31
Tray Number: 1
Tray Name: 190731B NO2 NO3 TOXN

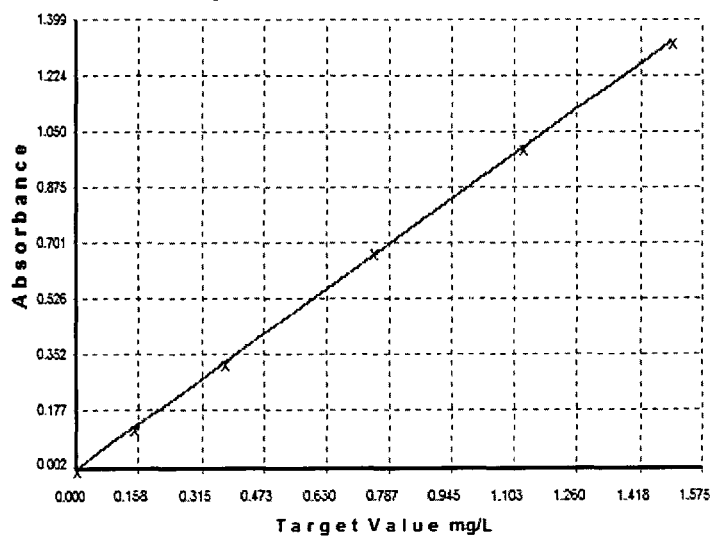
Nitrite-N

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0025	0.0009	0.0000	
S90	0.1338	0.1485	0.1500	-0.99
S91	0.3299	0.3689	0.3750	-1.62
S92	0.6766	0.7585	0.7500	1.14
S93	1.0051	1.1277	1.1250	0.24
S94	1.3322	1.4953	1.5000	-0.31
S0	0.0143	0.0142	0.0000	

Polynomial Order: 1
 Correlation Coefficient: 1.0000
 Carryover(%): 0.9
 Calibration equation: $y = bx + a$
 y =: Concentration mg/L
 x =: Measured absorbance
 a =: -1.819091E-003
 b =: 1.123808E+000
 Date & Time: 2019-07-31 16:43:28

Calibration Graph



Reagents

Name	Batch	Prepared By	Expiry Date
Sulfa-NEDD		Joel	
NO2 Buffer		Joel	

Test Results

Cup Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
CCV	CCV.75	0.7361	mg/L		0.656594			Ev	2019-07-31 17:59:53
CCB	CCB	0.0072	mg/L		0.007989			Ev	2019-07-31 18:02:10
3 U1	190730A BLK NO2 NO3 TOXN	0.0311	mg/L		0.004385		x10.0000	Ev	2019-07-31 18:04:27
4 U2	190730B BLK NO2 NO3 TOXN	0.0338	mg/L		0.004629		x10.0000	Ev	2019-07-31 18:06:42
CCV	CCV.75	0.7129	mg/L		0.635951			Ev	2019-07-31 18:08:59
CCB	CCB	0.0062	mg/L		0.007165			Ev	2019-07-31 18:11:16

$$y = 1.123808(0.656594) - 0.001819091$$

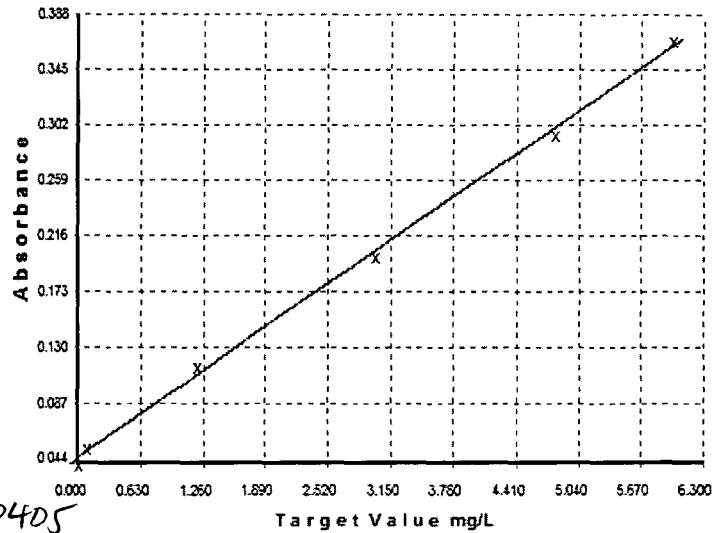
$$= 0.736066 \checkmark$$
 Raw 8/16/19

TOXN

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0441	-0.0939	0.0000	
S90	0.0573	0.1572	0.1000	57.21
S91	0.1183	1.3178	1.2000	9.81
S92	0.2030	2.9275	3.0000	-2.42
S93	0.2962	4.6982	4.8000	-2.12
S94	0.3695	6.0932	6.0000	1.55
S0	0.0455	-0.0672	0.0000	

Calibration Graph



Polynomial Order: 1
 Correlation Coefficient: 0.9992
 Carryover(%): 0.4
 Calibration equation: $y = bx + a$
 y =: Concentration mg/L
 x =: Measured absorbance
 a =: -9.320405E-001
 b =: 1.901030E+001
 Date & Time: 2019-07-31 17:18:49

$y = 19.01030(0.194245) - 0.9320405$
 $= 2.76062$ ✓ BW 8/19/19

Reagents

Name	Batch	Prepared By	Expiry Date
NO3 W Buffer		Joel	
Sulfa-NEDD		Joel	

Test Results

Cup Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
CCV	CCV	2.7636	mg/L		0.194400			Ev	2019-07-31 18:20:17
CCB	CCB	-0.1627	mg/L		0.040471			Ev	2019-07-31 18:22:33
3 U1	190730A BLK NO2 NO3 TOXN	-0.7801	mg/L		0.044925		x10.0000	Ev	2019-07-31 18:24:50
4 U2	190730B BLK NO2 NO3 TOXN	-0.6182	mg/L		0.045776		x10.0000	Ev	2019-07-31 18:27:07
5 U3	190731A BLK	-0.0124	mg/L		0.048374			Ev	2019-07-31 18:29:25
6 U4	190731A LCS TOXN	2.7606	mg/L		0.194245			Ev	2019-07-31 18:31:42
7 U5	190731A LCS TOXN	2.9137	mg/L		0.202299			Ev	2019-07-31 18:34:00
8 U6	AZ95187W07	0.8895	mg/L		0.095817			Ev	2019-07-31 18:36:18
9 U7	AZ95189W13	0.4942	mg/L		0.075023			Ev	2019-07-31 18:38:36
10 U8	AZ95189W13 MS	3.7402	mg/L		0.245775			Ev	2019-07-31 18:40:54
11 U9	AZ95189W13 MSD	3.8658	mg/L		0.252383			Ev	2019-07-31 18:43:13
12 U10	AZ95329W08	-0.0852	mg/L		0.044546			Ev	2019-07-31 18:45:31
CCV	CCV	2.7201	mg/L		0.192116			Ev	2019-07-31 18:47:50
CCB	CCB	0.0118	mg/L		0.049647			Ev	2019-07-31 18:50:09
13 U11	AZ95332W08	1.4891	mg/L		0.127362			Ev	2019-07-31 18:52:27
14 U12	AZ95334W08	0.4455	mg/L		0.072463			Ev	2019-07-31 18:54:46
15 U13	AZ95336W08	0.6697	mg/L		0.084259			Ev	2019-07-31 18:55:26
16 U14	AZ95338W08	0.4720	mg/L		0.073859			Ev	2019-07-31 18:56:31
17 U15	AZ95419W06	-0.1261	ELL mg/L		0.042394			Ev	2019-07-31 18:57:27
18 U16	AZ95421W06	0.3254	mg/L		0.066145			Ev	2019-07-31 18:58:23
19 U17	AZ95423W06	1.6689	mg/L		0.136820			Ev	2019-07-31 18:59:19
20 U18	AZ95511W08	0.3905	mg/L		0.069567			Ev	2019-07-31 19:00:16
21 U19	AZ95513W08	0.1628	mg/L		0.057590			Ev	2019-07-31 19:01:12
CCV	CCV	2.8221	mg/L		0.197480			Ev	2019-07-31 19:02:08
CCB	CCB	-0.1225	mg/L		0.042582			Ev	2019-07-31 19:03:05

Nitrate-N

Test Results

Cup Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
3	U1	190730A BLK NO2 NO3 TOXN	-0.8112	mg/L	0.000000	x10.0000	Ev	2019-07-31 18:24:50	
3	U1	190730A BLK NO2 NO3 TOXN			0.000000	x10.0000	Ev	2019-07-31 18:24:50	
4	U2	190730B BLK NO2 NO3 TOXN	-0.6520	mg/L	0.000000	x10.0000	Ev	2019-07-31 18:27:07	
4	U2	190730B BLK NO2 NO3 TOXN			0.000000	x10.0000	Ev	2019-07-31 18:27:07	

Metrohm 814/809 Titrand Data

Sample ID	Analysis Date/Time	Method	Titration Volume					Total Alk	Unit	Sample Vol	N	Batch	Initials
			(to 8.3)	(total)	OH	CO3	HCO3						
190801B LCSD	2019-08-01 19:36:34 UTC-7	Alkalinity	0.000	0.020	0.00	0.00	0.83	0.83	mg/L	25 mL	0.0208	190801B	AR
190801B LCS	2019-08-01 19:33:37 UTC-7	Alkalinity	0.000	0.022	0.00	0.00	0.92	0.92	mg/L	25 mL	0.0208	190801B	AR
190801B BLK	2019-08-01 19:30:07 UTC-7	Alkalinity	0.000	0.036	0.00	0.00	1.50	1.50	mg/L	25 mL	0.0208	190801B	AR
AZ95556W11 MSD	2019-08-01 17:59:45 UTC-7	Alkalinity	0.000	8.388	0.00	0.00	345.59	345.59	mg/L	25 mL	0.0206	190801A	AR
AZ95556W11 MS	2019-08-01 17:52:22 UTC-7	Alkalinity	0.000	8.416	0.00	0.00	346.74	346.74	mg/L	25 mL	0.0206	190801A	AR
AZ95556W11 DUP	2019-08-01 17:47:32 UTC-7	Alkalinity	0.000	2.674	0.00	0.00	110.17	110.17	mg/L	25 mL	0.0206	190801A	AR
AZ95513W07	2019-08-01 17:01:31 UTC-7	Alkalinity	0.000	1.124	0.00	0.00	46.31	46.31	mg/L	25 mL	0.0206	190801A	AR
AZ95511W07	2019-08-01 16:56:45 UTC-7	Alkalinity	0.000	1.554	0.00	0.00	64.02	64.02	mg/L	25 mL	0.0206	190801A	AR
190801A LCSD	2019-08-01 15:24:16 UTC-7	Alkalinity	0.000	5.996	0.00	0.00	247.04	247.04	mg/L	25 mL	0.0206	190801A	AR
190801A LCS	2019-08-01 15:18:30 UTC-7	Alkalinity	0.000	6.040	0.00	0.00	248.85	248.85	mg/L	25 mL	0.0206	190801A	AR
190801A BLK	2019-08-01 15:15:42 UTC-7	Alkalinity	0.000	0.008	0.00	0.00	0.33	0.33	mg/L	25 mL	0.0206	190801A	AR

Method SM3500Fe	Ferrous Iron	Rev 2, 04-05-19
Analyte Fe2+	Units mg/L	Instrument: Genesis Spectrometer
Analyst fjr	QCG: 190727	Wavelength: 510 nm
	Final Volume: 50mL	Units: mg/L

Date	Time	Appl ID	[Fe2+]	Absorbance	% Recovery
06/28/19	12:48	ICB	0.00	0.000	
06/28/19	12:49	Ical 1	1.00	0.092	95.2%
06/28/19	12:50	Ical 2	2.00	0.195	97.9%
06/28/19	12:51	Ical 3	4.00	0.408	100.9%
06/28/19	12:51	Ical 4	5.00	0.507	100.0%
06/28/19	12:52	Ical 5	10.00	1.019	100.0%
06/28/19	13:08	ICV	3.00	0.326	107.9%
06/28/19	12:53	ICB	0.00	0.002	

Slope	0.102479592	Algorithm Check: Appl ID Absorbance Result ICV/LCS 190727A 0.317 3.15 Result = (Absorbance-Raw Blk-Intercept)/ Slope Test: FJR 07/27/19 3.15
Intercept	-0.005591837	
Coefficient of Determination	0.999872044	

Date	Time	Appl ID	DF	Raw Result	SubSample Amount	Raw BLK	Calc Conc	Result	QC True	% Recovery
07/27/19	13:09	CCV 4.0 19027	1	0.389	25mL		3.85	3.85	4.00	96.3%
07/27/19	13:09	CCB 190727	1	0.000	25mL		0.05	0.05		
07/27/19	13:11	ICV/LCS 190727A	1	0.317	25mL		3.15	3.15	3.00	104.9%
07/27/19	13:11	AZ95513W09	1	0.082	25mL		0.85	0.85		
07/27/19	13:12	AZ95511W09	1	0.005	25mL		0.10	0.10		
07/27/19	13:12	AZ95551W11	1	0.006	25mL		0.11	0.11		
07/27/19	13:13	AZ95552W13	1	0.079	25mL		0.83	0.83		
07/27/19	13:14	AZ95553W13	1	0.025	25mL		0.30	0.30		
07/27/19	13:15	AZ95554W13	1	0.030	25mL		0.35	0.35		
07/27/19	13:17	AZ95555W13	1	0.123	25mL		1.25	1.25		
07/27/19	13:17	AZ95556W13	1	0.015	25mL		0.20	0.20		
07/27/19	13:18	AZ95556W13 MS	1	0.312	25mL		3.10	3.10		
07/27/19	13:18	AZ95556W13 MSD	1	0.324	25mL		3.22	3.22		
07/27/19	13:19	CCV 4.0 19027	1	0.394	25mL		3.90	3.90	4.00	97.5%
07/27/19	13:20	CCB 190727	1	0.001	25mL		0.06	0.06		

Nitrite

High Point @ 1.5 mg/L

0.2463 mL NO₂ Inorganic Ventures lot N2-NOX672889-40759 exp: 05/01/20
50 mL DI Water

CCV @ 0.75 mg/L

0.1232 mL NO₂ Inorganic Ventures lot N2-NOX672889-40759 exp: 05/01/20
50 mL DI Water

ICV/LCS @ 0.73 mg/L

0.120 mL NO₂ Inorganic Ventures lot M2-NOX660562-39802 exp: 10/23/19
50 mL DI Water

1 mg/L NO₂

400 uL of High point and 200 uL of DI made directly into a sample cup

Prep 07/26/19

Exp 08/02/19

EV

Nitrate/TOXN

High Point @ 6 mg/L

0.300 mL NO₃ O₂Si lot 880117-39577 exp: 2/21/20
50 mL DI Water

CCV @ 3.0 mg/L

0.150 mL NO₃ O₂Si lot 880117-39577 exp: 2/21/20
50 mL DI Water

ICV/LCS @ 3.0 mg/L

0.150 mL NO₃ Inorganic Ventures lot N2-NOX667147-39510 exp: 10/23/19
50 mL DI Water

1 mg/L NO₃

100 uL of High point and 500 uL of DI made directly into a sample cup

MS @ 0.73 mg/L NO₂ and 2.5 mg/L NO₃

0.120 mL NO₂ Inorganic Ventures lot M2-NOX660562-39802 exp: 10/23/19 and
0.125 mL NO₃ Inorganic Ventures lot N2-NOX667147-39510 exp: 10/23/19
Final volume 50 mL of sample

Prep 07/26/19

Exp 08/02/19

EV

Tiamo Alkalinity Standard Prep										
Prep Date:							Prep'd By (Initials): AR			
Exp Date:										
Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Unit	Conc	Lot Number - QA Number	Prep/Opened	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc
Sulfuric Acid (H ₂ SO ₄)	J.T.Baker	NA	NA	167828	NA	NA	PURCHASED	NA	NA	NA
0.10N Sulfuric Acid (H ₂ SO ₄)	J.T.Baker	Normality	0.1N	167828	05/24/19	05/24/20	3ml	1L	DI	0.10N
0.02N Sulfuric Acid (H ₂ SO ₄)	J.T.Baker	Normality	0.02N	167828	05/24/19	05/24/20	200mL	1L	DI	0.02N
Inorganic Spike(NaHCO ₃)	BDH	NA	NA	1575C510	10/18/18	08/14/20	PURCHASED	NA	NA	NA
Inorganic Spike Solution	BDH	Milligrams/Liters	250mg/L	1575C510	05/06/19	11/05/19	3.5g	500mL	DI	250mg/L
Standarizing Solution(NaCO ₃)	J.T.Baker	Normality	1N	178494	07/25/17	07/25/19	PURCHASED	NA	NA	NA

EPA 353.2 Injection Log

Directory: I:\EVE\Export\2019\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	31 Jul 2019	17:08	Standard 1 TOXN/NO3		190731B NO	1.
2	31 Jul 2019	17:10	Standard 90 TOXN/NO3		190731B NO	1.
3	31 Jul 2019	17:12	Standard 91 TOXN/NO3		190731B NO	1.
4	31 Jul 2019	17:14	Standard 92 TOXN/NO3		190731B NO	1.
5	31 Jul 2019	17:17	Standard 93 TOXN/NO3		190731B NO	1.
6	31 Jul 2019	17:17	Standard 94 TOXN/NO3		190731B NO	1.
7	31 Jul 2019	17:18	Standard 0 TOXN/NO3		190731B NO	1.
10	31 Jul 2019	17:21	ICV NO3 TOXN		190731B NO	1.
11	31 Jul 2019	17:22	ICB NO2 NO3 TOXN		190731B NO	1.

EPA 353.2 Injection Log

Directory: I:\EVE\Export\2019\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
15	31 Jul 2019	18:20	CCV TOXN/NO3		190731B NO	1.
16	31 Jul 2019	18:22	CCB TOXN/NO3		190731B NO	1.
19	31 Jul 2019	18:29	190731A BLK TOXN/NO3		190731B NO	1.
20	31 Jul 2019	18:31	190731A LCS TOXN		190731B NO	1.
21	31 Jul 2019	18:34	190731A LCSD TOXN		190731B NO	1.
27	31 Jul 2019	18:47	CCV TOXN/NO3		190731B NO	1.
28	31 Jul 2019	18:50	CCB TOXN/NO3		190731B NO	1.
36	31 Jul 2019	19:00	AZ95511W08 TOXN/NO3		190731B NO	1.
37	31 Jul 2019	19:01	AZ95513W08 TOXN/NO3		190731B NO	1.
38	31 Jul 2019	19:02	CCV TOXN/NO3		190731B NO	1.
39	31 Jul 2019	19:03	CCB TOXN/NO3		190731B NO	1.

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908 North Temperance Ave. ▽ Clovis, CA 93611 ▽ Phone 559-275-2175 ▽ Fax 559-275-4422

Certification Number: CA1312
NELAP Certification number: CA00046
DoD-ELAP Certificate number: 4064.01

Data Validatable Report

September 6, 2019

AECOM
1001 Bishop Street, Suite 1600
Honolulu, Hawaii 96813

Attn: Margie Pascua

Title: Report of Data: Case 89674

Project: 60571032 CV18F0126 Red Hill Fuel Storage. HI

Contract #: Prime contract # for DoD: NAVY CLEAN N62742-17-F-1800, CV18F0126
Subcontract: 18S-22209-HI27

Dear Ms. Pascua:

Two water samples were received July 31, 2019. Written results for the requested analyses are being provided on this September 6, 2019.

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

If you have any questions or require further information, please contact your APPL Project Manager, Libby Cheeseborough, libby@applinc.com, at your convenience. Thank you for choosing APPL, Inc.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC and DoD QSM. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

Paula McCartney, Laboratory Director
APPL, Inc.

PM/lac
Enclosure
cc: File

Data Validation Package
for
60481245 CIV 0053 Red Hill Fuel Storage
APPL SDG 89674
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CASE NARRATIVE

Case Narrative

ARF: 89674

Project: 60571032 CV18F0126 Red Hill Fuel Storage. HI

Sample Receipt Information:

Two water samples were received July 31, 2019, at 4.9°C. The sample group was assigned Analytical Request Form (ARF) number 89674.

Sample Preparation and Analysis Information:

For the EPA 8011 analysis, the samples were extracted according to APPL SOP method MWE012.

For the EPA 8015B analysis, the sample was extracted according to EPA method 3520C. The sample extracts were silica gel cleaned according to APPL's SOP CLN004 and placed on hold.

For the EPA 8270D SIM analysis, the sample was extracted according to EPA method 3520C.

For the EPA 8270D Phenol analysis, the sample was extracted according to EPA method 3520C.

For the APPL SOP ANA2MEE analysis, the sample was extracted according to EPA method 3535.

For the EPA 8260B analysis, the samples were purged according to EPA method 5030B.

For the RSK-175 analysis, the samples were allowed to equilibrate for 10 minutes at 40°C and a portion of the headspace was analyzed.

For the EPA 6010C analysis, the sample was digested according to EPA method 3010A.

For the EPA 9060A, 300.0, 353.2, SM 2320B, SM 4500-SiD and SM 3500FeB analyses, the sample was prepared according to the methods.

Only the portion of the injection log relative to these samples is included. A full sequence log is available upon request. Measurement uncertainty can be reported upon request.

Analytical Exceptions, Deviations and Abnormalities.

EPA 8015B: Manual integrations are performed in accordance with the SOP. Octacosane was manually integrated in the blank and the LCS/LCSD and the sample. Before and after chromatograms are included in the package. The Octacosane surrogate recovered high in the sample. The client was notified.

For the LCS, Oil (C24-C40) recovered above the upper control limit. The client was notified.

APPL SOP ANA2MEE: Manual integrations are performed in accordance with the SOP. 1,4-DCB was manually integrated in the ICAL and CCVs. Before and after chromatograms are included in the package.

The RPD for the LCS/LCSD recovered above the control limit. The samples were ND.

Inorganics: For EPA 9060A, the TOC recovered below the lower control limit in the LCS with a %RPD greater than the acceptance criteria. Corrective Action: None, the LCSD was acceptable.

For SM3500-Fe, the client request an LCSD, however only an LCS was preformed. Corrective Action: The lab included the results from another client's MS/MSD that was performed within the analytical batch. All recovery and precision acceptance criteria were met.

SDG	Received	Client ID	APPL ID	Collected DateTime	Matrix	Method	Method Description
89674	07/31/19	ERH881	AZ95859	07/29/19 8:45:00 AM	WATER	8011	EPA 8011
89674	07/31/19	ERH881	AZ95859	07/29/19 8:45:00 AM	WATER	EPA 8260B	EPA 8260B BTEX & 1,2-DCA WATER
89674	07/31/19	ERH881	AZ95859	07/29/19 8:45:00 AM	WATER	EPA 8260-GAS	EPA 8260 with GAS
89674	07/31/19	ERH881	AZ95859	07/29/19 8:45:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER
89674	07/31/19	ERH881	AZ95859	07/29/19 8:45:00 AM	WATER	RSK 175	METHANE BY RSK 175
89674	07/31/19	ERH880	AZ95860	07/29/19 10:40:00 AM	WATER	SM 2320B	Wetlab 2320B - Water
89674	07/31/19	ERH880	AZ95860	07/29/19 10:40:00 AM	WATER	EPA 300.0	Wetlab 300.0 - Water
89674	07/31/19	ERH880	AZ95860	07/29/19 10:40:00 AM	WATER	SM3500FeB	Ferrous Iron
89674	07/31/19	ERH880	AZ95860	07/29/19 10:40:00 AM	WATER	EPA 353.2	EPA 353.2 - WATER
89674	07/31/19	ERH880	AZ95860	07/29/19 10:40:00 AM	WATER	6010C/3010A	EPA 6010C TOTAL
89674	07/31/19	ERH880	AZ95860	07/29/19 10:40:00 AM	WATER	8011	EPA 8011
89674	07/31/19	ERH880	AZ95860	07/29/19 10:40:00 AM	WATER	EPA 8260B	EPA 8260B BTEX & 1,2-DCA WATER
89674	07/31/19	ERH880	AZ95860	07/29/19 10:40:00 AM	WATER	EPA 8270D	EPA 8270D WATER
89674	07/31/19	ERH880	AZ95860	07/29/19 10:40:00 AM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER
89674	07/31/19	ERH880	AZ95860	07/29/19 10:40:00 AM	WATER	EPA 8015B-eLL	EPA 8015B TPH LIQ-LIQ
89674	07/31/19	ERH880	AZ95860	07/29/19 10:40:00 AM	WATER	EPA 8260-GAS	EPA 8260 with GAS
89674	07/31/19	ERH880	AZ95860	07/29/19 10:40:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER
89674	07/31/19	ERH880	AZ95860	07/29/19 10:40:00 AM	WATER	RSK 175	METHANE BY RSK 175
89674	07/31/19	ERH880	AZ95860	07/29/19 10:40:00 AM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ
89674	07/31/19	ERH880	AZ95860	07/29/19 10:40:00 AM	WATER	SM 4500-Si D	Silica W
89674	07/31/19	ERH880	AZ95860	07/29/19 10:40:00 AM	WATER	SM 4500-Si D	SILICA W - DISSOLVED
89674	07/31/19	ERH880	AZ95860	07/29/19 10:40:00 AM	WATER	SW846 9060A	9060A TOC

APPL Inc.
Abbreviations and Flags


FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
MI1	Manual integration: integration does not follow baseline
MI2	Manual integration: non-target peak interference
MI3	Manual integration: to split a peak that was integrated as one peak by the computer.
MI4	Manual integration: to integrate a split peak
MI5	Manual integration: the whole peak or part of the peak was not integrated
MI6	Manual integration: computer integrated wrong peak
MI7	Manual integration: other – (See case narrative)
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, e.g. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, e.g. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, e.g. asphaltene, waste oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, e.g. asphaltene, waste oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel
U	Not detected
Y	Percent difference between primary and confirmation column > 40%

**SAMPLE RECORDS MANAGEMENT
CHAIN OF CUSTODY,
ARF, CRF, AND
CLIENT COMMUNICATION**

APPL - Analysis Request Form

89674

Client: AECOM
 Address: 1001 Bishop Street, Suite 1600
Honolulu, HI 96813
 Attn: Margie Pascua
 Phone: 808-356-5373 Fax: 808-523-8950
 Job: 60571032 CV18F0126 Red Hill Fuel Storage
 PO #: 18S-22209-HI27 PO# 102604
 Chain of Custody (Y/N): Y # 088
 RAD Screen (Y/N): Y pH (Y/N): Y
 Turn Around Type: 1 WEEK

Received by: AAR 
 Date Received: 07/31/19 Time: 10:00
 Delivered by: FEDEX
 Shuttle Custody Seals (Y/N): Y Time Zone: -10
 Chest Temp(s): 4.9°C
 Color: VOA/N-PurBlue/NM-BIT
 Samples Chilled until Placed in Refrig/Freezer: Y
 Project Manager: Libby Cheesebor
 QC Report Type: DVP4DOD/EQUIS/HI
 Due Date: 08/07/19

Comments:

PM: login and F1s to Margie.Pascua@aecom.com
AN: 7 day TAT for Form 1s; 21 day TAT for PKG STYLE 1; DOD v5.1; DOD Forms (LOQ/LOD database/DL)
8270 SIM: 1-methylnaphthalene, 2-methylnaphthalene & naphthalene only.
TPH D & O both with and w/o SGC, reverse surrogate for the SGC; analyze SGC if detections
RSK: Methane only; 8011: EDB only; \$87DC53W5: report phenol ONLY; \$87DMEEW5: 2-MEE (LCS Spk 80ppb).

FR: HC to LDC, 2 labeled CDs to Margie Pascua.
EDD: AECOM EQulS EDD 2.5.3 Red Hill 87DMEE->3535A to Margie.Pascua@aecom.com & jecklund@lab-data.com



Sample Distribution:

GC: 2-\$8011, 1-\$87DC53W5, 1-\$87DMEEW5, 1-\$DOC53W5LIQ, 1-\$SIM53LIQ51
Extractions: 2- MWE012, 1- LIQ003, 1- LIQ005, 1- MWE2MEE
VOA: 2-\$86BTOTXDCAW, 2-\$GASBL, 2-\$GRO86BW, 2-\$RSKMETH
Metals: 1-\$61CDOD5W(Ca,Mg,Mn,K,Na)
Wetlab: 1-\$232W(HCO3,CO3,ALK), 1-\$300W(BR,CL,F,SO4), 1-\$35FE, 1-\$35OF(NO3), 1-\$SIO2, 1-\$SIO2D, 1-\$TOCW53
Other: 1- M3010

Charges:

Invoice To:

ACCOUNTS PAYABLE
 1001 Bishop Street, Ste 1600
 USAPImaging@aecom.com
 mary.basano@aecom.com

Client ID	APPL ID	Sampled	Analyses Requested
1. ERH881	AZ95859W LCSD 	07/29/19 08:45	\$8011, \$86BTOTXDCAW, \$GASBL, \$GRO86BW, \$RSKMETH -- see comments
2. ERH880	AZ95860W LCSD 	07/29/19 10:40	\$232W(HCO3,CO3,ALK), \$300W(BR,CL,F,SO4), \$35FE, \$35OF(NO3), \$61CDOD5W(Ca,Mg,Mn,K,Na), \$8011, \$86BTOTXDCAW, \$87DC53W5, \$87DMEEW5, \$DOC53W5LIQ, \$GASBL, \$GRO86BW, \$RSKMETH, \$SIM53LIQ51, \$SIO2, \$SIO2D, \$TOCW53 -- see comments

APPL Sample Receipt Form

ARF# 89674

Sample	Container Type	Count	p
AZ95859	13 VOAs - HCL	4	NA
	15 VOAs - NP	3	NA
AZ95860	3 PL 250mL	2	NA
	6 PL 500mL - HNO3	2	
	10 PL 250mL - H2SO4	1	
	13 VOAs - HCL	4	NA
	15 VOAs - NP	3	NA
	17 Amber Liter	5	NA
	32 Clear VOA - H2SO4	4	NA
	38 250mL brn poly, HCl prsvd	1	NA
	40 500mL Amber, unprsvd	2	NA

Sample Container Type Count p



APPL, Inc.
908 N Temperance Ave
Clovis, CA 93611
www.applinc.com

CHAIN OF CUSTODY RECORD
Phone: (559) 275-2175
Fax: (559) 275-4422
coc@applinc.com C.O.C. **088**

69674

Report to: PLEASE PRINT Company Name: <u>AECOM</u> Phone: <u>808-356-5373</u> Address: <u>1001 Bishop St, Suite 1600</u> <u>Honolulu, HI 96813</u> Fax: <u>808-523-8950</u> Attn: <u>Margie Pascua</u> Email: <u>margie.pascua@aecom.com</u>	Invoice to: PLEASE PRINT Company Name: <u>AECOM</u> Phone: <u>808-529-7249</u> Address: <u>1001 Bishop St, Suite 1600</u> <u>Honolulu, HI 96813</u> Fax: <u>808-523-8950</u> Attn: <u>Mary Basano</u> Email: <u>mary.basano@aecom.com; usapimaging@aecom.com</u>
--	--

Project Name/Number	Sampler (Print)	Analysis Requested/Method Number													Date Shipped: <u>7/30/19</u>																		
		No. of Containers	Matrix			8260C BTEX, TPH-g	8260C DCA	8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/o w/ SGT	8270DSIM PAHs short list	8270D Phenol, PHS MS	8270D 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane		SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N	SM2320B Alkalinity	300.0 Nitrate/Sulfate Chloride	800.0 Bromide/Fluoride	8010 Total Ca, Mg, Mn, K, Na	SM4500 Total & Dissolved Silica	9060A TOC	9060B DOC	9060C TSS	9060D TSS ₂₅	Carrier: <u>FedEx</u>	Waybill No.:	Comments:				
Purchase Order Number	Sampler (Signature)		Aq	Sed.	Soil	8260C BTEX, TPH-g	8260C DCA	8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/o w/ SGT	8270DSIM PAHs short list	8270D Phenol, PHS MS	8270D 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane	SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N	SM2320B Alkalinity	300.0 Nitrate/Sulfate Chloride	800.0 Bromide/Fluoride	8010 Total Ca, Mg, Mn, K, Na	SM4500 Total & Dissolved Silica	9060A TOC	9060B DOC	9060C TSS	9060D TSS ₂₅								
<u>CV18F0126 / 60571032</u>	<u>BL, BM, EB, TV</u>																																
<u>102604</u>	<u>MP for BL, BM, EB, TV</u>																																
Sample Identification	Location	Date Collected	Time Collected	Time Zone	No. of Containers	Aq	Sed.	Soil	8260C BTEX, TPH-g	8260C DCA	8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/o w/ SGT	8270DSIM PAHs short list	8270D Phenol, PHS MS	8270D 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane	SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N	SM2320B Alkalinity	300.0 Nitrate/Sulfate Chloride	800.0 Bromide/Fluoride	8010 Total Ca, Mg, Mn, K, Na	SM4500 Total & Dissolved Silica	9060A TOC	9060B DOC	9060C TSS	9060D TSS ₂₅					
<u>ER4377 881</u> (MD, 7/30)	<u>Trip Blank</u>	<u>7/29</u>	<u>08:45</u>	<u>HST</u>	<u>7</u>	<u>X</u>			<u>X</u>	<u>X</u>							<u>X</u>																
<u>ER4880</u>	<u>RHMW14-04</u>	<u>7/29</u>	<u>10:40</u>	<u>HST</u>	<u>25</u> (MD, 7/30)	<u>X</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>Cancel POC* (MD, 7/30)</u>
<u>MD 7/30</u>																																	

Shuttle Temperature: <u>R1 @ 10.9 4.5/4.9</u>		Turnaround Requested: Check one <input type="checkbox"/> Standard 2-3 wk <input checked="" type="checkbox"/> One week <input type="checkbox"/> 3 days <input type="checkbox"/> 24/48 Hrs. <input type="checkbox"/> Other: _____						Sample Disposal: <input type="checkbox"/> Return to client <input checked="" type="checkbox"/> Disposal by Lab (30-day retention)																								
Relinquished by sampler: <u>AECOM</u>	Date: <u>7/30</u>	Time: <u>14:00</u>	Received by:	Relinquished by:	Date:	Time:	Received by:																									
Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received at lab by:																									

COOLER RECEIPT FORM

ARF: 89674

1) Project: 60571032 CV18F0126 Red Hill Fuel Storage Date Received: 07/31/19

2) Coolers: Number of Coolers: 1

3) YES Were custody seals present and intact? How many? 2 Name/Date on seal? Not salvageable(water damaged)

4) YES Was there a shipping slip? Carrier name: FEDEX

5) Type of packing in cooler: X bubble wrap popcorn foam X plastic bags other X wet ice dry ice no ice gel ice

6) YES Were cooler temperatures acceptable?

7) Serial number of certified NIST thermometer use R4 @ +0.4°C

8) Cooler temp(s): In °C. Thermometer Temp / Corrected Temp 1: 4.5°C/ 4.9°C 2: 3: 4: 5: 6: 7: 8: 9: 10: 11: 12:

Chain of custody:

9) YES Was a chain of custody received?

10) YES Were the custody papers complete/signed in the appropriate places?

Sample Labels:

11) YES Were all sample labels complete (sample ID, date/time of sampling, etc.)?

12) YES Did all container labels agree with custody papers?

Sample Containers:

13) YES Were all containers sealed in separate bags?

14) YES Did all containers arrive in good condition:(unbroken, no leakage, no cracked/broken lids)?

15) YES Were correct containers and preservatives used for the tests indicated?

16) YES Was a sufficient amount of sample sent for tests indicated?

17) YES Were bubbles present in volatile samples? If yes, the following were received with air bubbles: Larger than a pea: Smaller than a pea: AZ95859W05-7, AZ95860(ALL VOA)

Preservation Hold time:

18) Yes Was a sufficient amount of holding time remaining to analyze the samples?

19) Yes Was the pH taken of all non-VOA preserved samples and written on the sample container?

20) Yes Was the pH of acid preserved non-VOA samples < 2?

21) NA Was the pH of sodium hydroxide preserved samples for Cyanide > 12 and Sulfide >9?

22) NO Were unpreserved VOA Vials received?

23) NA Are unpreserved VOA vials noted in the ADD TEST FIELD on the ARF?

pH strip lot number: 90b2031

Lab notified if pH was not adequate:

Notes/Deficiencies:

Personnel receiving samples: ZG

Second reviewer: AA

Personnel labeling samples: ZG

Project manager notified: ZG

Date/Time of notification 07/31/19

Name of client notified:

Date/Time of notification

SAMPLE RESULTS

EPA 8011

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH881

Sample Collection Date: 07/29/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89674

APPL ID: AZ95859

QCG: #8011-190805A-243183

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8011	EDB	0.019 U	0.02	0.019	0.010	ug/L	08/05/19	08/06/19
8011	SURROGATE: 1,3-DIBROMOPROPANE	93.9	70-132			%	08/05/19	08/06/19

Quant Method: 8011806A.M
Run #: 0715202
Instrument: Herbie
Sequence: 190715
Dilution Factor: 1
Initials: GAG

Printed: 08/07/19 12:46:57 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8011

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89674
APPL ID: **AZ95860**
QCG: #8011-190805A-243183

Sample ID: ERH880

Sample Collection Date: 07/29/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8011	EDB	0.019 U	0.02	0.019	0.010	ug/L	08/05/19	08/06/19
8011	SURROGATE: 1,3-DIBROMOPROPANE	93.1	70-132			%	08/05/19	08/06/19

Quant Method: 8011806A.M
Run #: 0715203
Instrument: Herbie
Sequence: 190715
Dilution Factor: 1
Initials: GAG

Printed: 08/07/19 12:46:57 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH880

Sample Collection Date: 07/29/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89674

APPL ID: AZ95860

QCG: #DOC53-190805A-243987

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-eL	DIESEL (C10-C24)	25.00 U	40.0	25.00	13.07	ug/L	08/05/19	08/23/19
EPA 8015B-eL	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	08/05/19	08/23/19
EPA 8015B-eL	SURROGATE: OCTACOSANE (S)	156 #	60-142			%	08/05/19	08/23/19
EPA 8015B-eL	SURROGATE: ORTHO-TERPHENYL (S)	120	56-125			%	08/05/19	08/23/19

= Recovery (or RPD) is outside QC limits.

Quant Method: DOC0617.M
Run #: 814261
Instrument: Apollo
Sequence: 190814
Dilution Factor: 1
Initials: LPO

Printed: 08/27/19 5:35:05 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89674

Sample ID: ERH880

APPL ID: AZ95860

Sample Collection Date: 07/29/19

QCG: #SIM53-190805A-243437

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	08/05/19	08/13/19
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	08/05/19	08/13/19
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	08/05/19	08/13/19
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	107	39-114			%	08/05/19	08/13/19
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	105	58-120			%	08/05/19	08/13/19

Quant Method: L0810.M
Run #: 0810L108
Instrument: Linus
Sequence: L190810
Dilution Factor: 1
Initials: MA

Printed: 08/13/19 8:34:48 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH880

Sample Collection Date: 07/29/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89674

APPL ID: AZ95860

QCG: #87DC5-190805A-243623

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	08/05/19	08/09/19
EPA 8270D	SURROGATE: 2,4,6-TRIBROMOPHENO	84.0	43-140			%	08/05/19	08/09/19
EPA 8270D	SURROGATE: 2-FLUORBIPHENYL (S)	87.1	44-119			%	08/05/19	08/09/19
EPA 8270D	SURROGATE: 2-FLUOROPHENOL (S)	84.8	19-119			%	08/05/19	08/09/19
EPA 8270D	SURROGATE: NITROBENZENE-D5 (S)	106	44-120			%	08/05/19	08/09/19
EPA 8270D	SURROGATE: PHENOL-D6 (S)	85.5	10-115			%	08/05/19	08/09/19
EPA 8270D	SURROGATE: TERPHENYL-D14 (S)	77.9	50-134			%	08/05/19	08/09/19

Quant Method: Y0806NC.M
Run #: 0806Y074
Instrument: Yoda
Sequence: Y190806
Dilution Factor: 1
Initials: JPR

Printed: 08/19/19 1:36:07 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D MODIFIED WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH880

Sample Collection Date: 07/29/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89674

APPL ID: AZ95860

QCG: #87DME-190805A-243197

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	80.0 U	100	80.0	40.0	ug/L	08/05/19	08/06/19

Quant Method: LMEE0430.M
Run #: 0730L046
Instrument: Linus
Sequence: L190730M
Dilution Factor: 1
Initials: MA

Printed: 08/07/19 6:18:52 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX & 1,2-DCA WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 89674

Sample ID: ERH881

APPL ID: AZ95859

Sample Collection Date: 07/29/19

QCG: #86BTO-190803AT-243058

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	1,2-DICHLOROETHANE	0.30 U	1.0	0.30	0.14	ug/L	08/03/19	08/03/19
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	08/03/19	08/03/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	08/03/19	08/03/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	08/03/19	08/03/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	08/03/19	08/03/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	105	81-118			%	08/03/19	08/03/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	104	85-114			%	08/03/19	08/03/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	104	80-119			%	08/03/19	08/03/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	107	89-112			%	08/03/19	08/03/19

Quant Method: T0802W.M
Run #: 0803T09
Instrument: Thor
Sequence: T190802
Dilution Factor: 1
Initials: DPO

Printed: 08/05/19 12:35:17 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX & 1,2-DCA WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH880

Sample Collection Date: 07/29/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89674

APPL ID: AZ95860

QCG: #86BTO-190803AT-243058

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	1,2-DICHLOROETHANE	0.30 U	1.0	0.30	0.14	ug/L	08/03/19	08/03/19
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	08/03/19	08/03/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	08/03/19	08/03/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	08/03/19	08/03/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	08/03/19	08/03/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	88.2	81-118			%	08/03/19	08/03/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	88.5	85-114			%	08/03/19	08/03/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	90.0	80-119			%	08/03/19	08/03/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	91.0	89-112			%	08/03/19	08/03/19

Quant Method: T0802W.M
Run #: 0803T10
Instrument: Thor
Sequence: T190802
Dilution Factor: 1
Initials: DPO

Printed: 08/05/19 12:35:17 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH881

Sample Collection Date: 07/29/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89674

APPL ID: AZ95859

QCG: #GRO86-190803AT-243061

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	08/03/19	08/03/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	104	85-114			%	08/03/19	08/03/19

Quant Method: TGAS729.M
Run #: 0803T09
Instrument: Thor
Sequence: T190802
Dilution Factor: 1
Initials: DPO

Printed: 08/05/19 12:36:45 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH880

Sample Collection Date: 07/29/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89674

APPL ID: AZ95860

QCG: #GRO86-190803AT-243061

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	08/03/19	08/03/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	88.5	85-114			%	08/03/19	08/03/19

Quant Method: TGAS729.M
Run #: 0803T10
Instrument: Thor
Sequence: T190802
Dilution Factor: 1
Initials: DPO

Printed: 08/05/19 12:36:45 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH881

Sample Collection Date: 07/29/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89674

APPL ID: AZ95859

QCG: #RSKME-190806A-243274

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	08/06/19	08/06/19

Quant Method: RSK0618.M
Run #: 19080606
Instrument: Rocky
Sequence: 190731
Dilution Factor: 1
Initials: GAG

Printed: 08/12/19 10:24:30 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH880
Sample Collection Date: 07/29/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89674
APPL ID: AZ95860
QCG: #RSKME-190806A-243274

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	08/06/19	08/06/19

Quant Method: RSK0618.M
Run #: 19080607
Instrument: Rocky
Sequence: 190731
Dilution Factor: 1
Initials: GAG

Printed: 08/12/19 10:24:30 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

Metals Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH880

Sample Collection Date: 07/29/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 89674

APPL ID: AZ95860

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
6010C/3010A	CALCIUM (CA)	7780	1000	75.0	27.5	ug/L	1	08/05/19	08/07/19
6010C/3010A	MAGNESIUM (MG)	8840	500	30.0	12.9	ug/L	1	08/05/19	08/07/19
6010C/3010A	MANGANESE (MN)	4.00 U	10.0	4.00	1.23	ug/L	1	08/05/19	08/07/19
6010C/3010A	POTASSIUM (K)	1480 J	3000	500.0	220.0	ug/L	1	08/05/19	08/07/19
6010C/3010A	SODIUM (NA)	32100	5000	500.0	111.1	ug/L	1	08/05/19	08/07/19

J = Estimated value.

Printed: 08/29/19 4:44:53 PM
APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH880

Sample Collection Date: 07/29/19

APPL ID: AZ95860

ARF: 89674

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 300.0	BROMIDE	0.43 J	0.5	0.16	0.05	mg/L	1	08/01/19	08/01/19
EPA 300.0	CHLORIDE	43.3	1.0	0.20	0.08	mg/L	1	08/01/19	08/01/19
EPA 300.0	FLUORIDE	0.42	0.1	0.09	0.08	mg/L	1	08/01/19	08/01/19
EPA 300.0	NITRATE-N	0.45	0.2	0.04	0.01	mg/L	1	08/01/19	08/01/19
EPA 300.0	SULFATE	11.4	1.0	0.20	0.09	mg/L	1	08/01/19	08/01/19
EPA 353.2	NITRATE-NITRITE-N	0.33	0.10	0.090	0.028	mg/L	1	08/07/19	08/07/19
SM 2320B	BICARBONATE AS CaCO3	62.5	2.0	1.70	0.85	mg/L	1	08/11/19	08/11/19
SM 2320B	CARBONATE AS CaCO3	1.70 U	2.0	1.70	0.85	mg/L	1	08/11/19	08/11/19
SM 2320B	TOTAL ALKALINITY AS CaCO3	62.5	2.0	1.70	0.85	mg/L	1	08/11/19	08/11/19
SM 4500-Si D	SILICA W	56.6	5.0	4.00	2.65	mg/L	5	08/16/19	08/16/19
SM 4500-Si D	DISSOLVED SILICA	55.3	5.0	4.00	2.65	mg/L	5	08/16/19	08/16/19
SM3500FeB	FERROUS IRON	0.32 U	1.0	0.32	0.16	mg/L	1	07/31/19	07/31/19
SW846 9060A	TOTAL ORGANIC CARBON	0.47 J	0.93	0.350	0.130	mg/L	1	08/05/19	08/06/19

J = Estimated value.

Printed: 09/11/19 1:00:02 PM

APPL-F1-SC-NoMC-REG MDLs

QC FORMS

8011

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/06/19

Matrix: WATER

Instrument: Herbie

APPL ID.	Client Sample No.	SURROGATE: 1,3-DIBROMOPROPANE (S)			Limits	Result	Qualifier
		Limits	Result	Qualifier			
190805A-BLK	Blank	70-132	94.2				
190805A-LCS	Lab Control Spike	70-132	101				
190805A-LCSD	Lab Control SpikeD	70-132	105				
AZ95859	ERH881	70-132	93.9				
AZ95860	ERH880	70-132	93.1				

Comments: Batch: #8011-190805A

Printed: 08/07/19 12:47:17 PM
Form 2 & 8, Surrogate Recovery Summary

8011

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/06/19

Matrix: WATER

Instrument: Herbie

Blank ID: 190805A-BLK

Time Analyzed: 1852

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190805A-BLK	Blank	0715196	08/06/19 1852
190805A-LCS	Lab Control Spike	0715197	08/06/19 1912
190805A-LCSD	Lab Control Spiked	0715198	08/06/19 1933
AZ95859	ERH881	0715202	08/06/19 2054
AZ95860	ERH880	0715203	08/06/19 2114

Comments: Batch: #8011-190805A

Printed: 08/07/19 12:47:17 PM
Form 4, Blank Summary

Method Blank
EPA 8011

Blank Name/QCG: **190805W-95987 - 243183**
Batch ID: #8011-190805A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	EDB	0.019 U	0.02	0.019	0.010	ug/L	08/05/19	08/06/19
BLANK	SURROGATE: 1,3-DIBROMOPRO	94.2	70-132			%	08/05/19	08/06/19

Quant Method: 8011806A.M
Run #: 0715196
Instrument: Herbie
Sequence: 190715
Initials: GAG

GC SC-Blank-REG MDLs-DOD
Printed: 08/07/19 12:46:56 PM

8011

Form 4

LCS Summary

Lab Name: APPL, Inc.
Case No: 89674
Matrix: WATER
LCS ID: 190805A-LCS

SDG No: 89674
Date Analyzed: 08/06/19
Instrument: Herbie
Time Analyzed: 1912

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190805A-BLK	Blank	0715196	08/06/19 1852
190805A-LCS	Lab Control Spike	0715197	08/06/19 1912
190805A-LCSD	Lab Control Spiked	0715198	08/06/19 1933
AZ95859	ERH881	0715202	08/06/19 2054
AZ95860	ERH880	0715203	08/06/19 2114

Comments: Batch: #8011-190805A

Laboratory Control Spike Recoveries

EPA 8011

APPL ID: 190805W-95987 LCS - 243183

Batch ID: #8011-190805A

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
EDB	0.250	0.243	0.229	97.2	91.6	60-140	5.9	25
SURROGATE: 1,3-DIBROMOPROPANE (	0.250	0.253	0.263	101	105	70-132		

Comments: _____

	<u>SPK</u>	<u>DUP</u>
Quant Method :	8011806A.M	8011806A.M
Extraction Date :	08/05/19	08/05/19
Analysis Date :	08/06/19	08/06/19
Instrument :	Herbie	Herbie
Run :	0715197	0715198
Initials :	GAG	

EPA 8015B-eLL

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/23/19

Matrix: WATER

Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: OCTACOSANE (S)			SURROGATE: ORTHO-TERPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190805A-BLK	Blank	60-142	107		56-125	114	
190805A-LCS	Lab Control Spike	60-142	113		56-125	98.9	
190805A-LCSD	Lab Control SpikeD	60-142	110		56-125	108	
AZ95860	ERH880	60-142	156	#	56-125	120	

Comments: Batch: #DOC53-190805A

= Recovery outside of Control Limits on Sample.

Printed: 08/27/19 5:35:07 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8015B-eL

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/23/19

Matrix: WATER

Instrument: Apollo

Blank ID: 190805A-BLK

Time Analyzed: 1255

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190805A-BLK	Blank	814257	08/23/19 1255
190805A-LCS	Lab Control Spike	814258	08/23/19 1315
190805A-LCSD	Lab Control SpikeD	814259	08/23/19 1335
AZ95860	ERH880	814261	08/23/19 1415

Comments: Batch: #DOC53-190805A

Method Blank
EPA 8015B TPH LIQ-LIQ

Blank Name/QCG: **190805W-95987 - 243987**
Batch ID: #DOC53-190805A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	DIESEL (C10-C24)	25.00 U	40.0	25.00	13.07	ug/L	08/05/19	08/23/19
BLANK	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	08/05/19	08/23/19
BLANK	SURROGATE: OCTACOSANE (S)	107	60-142			%	08/05/19	08/23/19
BLANK	SURROGATE: ORTHO-TERPHEN	114	56-125			%	08/05/19	08/23/19

Quant Method: DOC0617.M
Run #: 814257
Instrument: Apollo
Sequence: 190814
Initials: LPO

GC SC-Blank-REG MDLs-DOD
Printed: 08/27/19 5:35:04 PM

EPA 8015B-eL

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/23/19

Matrix: WATER

Instrument: Apollo

LCS ID: 190805A-LCS

Time Analyzed: 1315

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190805A-BLK	Blank	814257	08/23/19 1255
190805A-LCS	Lab Control Spike	814258	08/23/19 1315
190805A-LCSD	Lab Control SpikeD	814259	08/23/19 1335
AZ95860	ERH880	814261	08/23/19 1415

Comments: Batch: #DOC53-190805A

Printed: 08/27/19 5:35:07 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8015B TPH LIQ-LIQ

APPL ID: **190805W-95987 LCS - 243987**
 Batch ID: #DOC53-190805A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
DIESEL (C10-C24)	1250	1170	1310	93.6	105	36-132	11.3	30
OIL (C24-C40)	1250	1230	1540	98.4	123 #	41-113	22.4	30
SURROGATE: OCTACOSANE (S)	75.0	84.7	82.8	113	110	60-142		
SURROGATE: ORTHO-TERPHENYL (S)	75.0	74.2	80.7	98.9	108	56-125		

= Recovery is outside QC limits.

Comments: _____

Primary	SPK	DUP
Quant Method :	DOC0617.M	DOC0617.M
Extraction Date :	08/05/19	08/05/19
Analysis Date :	08/23/19	08/23/19
Instrument :	Apollo	Apollo
Run :	814258	814259
Initials :	LPO	

8270D-SIM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/13/19

Matrix: WATER

Instrument: Linus

APPL ID.	Client Sample No.	SURROGATE: 2-METHYLNAPHTHALENE-D10 (S)			SURROGATE: FLUORANTHENE-D10 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190805A-BLK	Blank	39-114	104		58-120	101	
190805A-LCS	Lab Control Spike	39-114	87.5		58-120	103	
190805A-LCSD	Lab Control SpikeD	39-114	83.4		58-120	101	
AZ95860	ERH880	39-114	107		58-120	105	

Comments: Batch: #SIM53-190805A

Printed: 08/13/19 8:34:20 PM
Form 2 & 8, Surrogate Recovery Summary

8270D-SIM

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 89674
Case No: 89674 Date Analyzed: 08/13/19
Matrix: WATER Instrument: Linus
Blank ID: 190805A-BLK Time Analyzed: 1514

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190805A-BLK	Blank	0810L105	08/13/19 1514
190805A-LCS	Lab Control Spike	0810L106	08/13/19 1550
190805A-LCSD	Lab Control Spiked	0810L107	08/13/19 1613
AZ95860	ERH880	0810L108	08/13/19 1635

Comments: Batch: #SIM53-190805A

Method Blank
EPA 8270D SIM LIQ-LIQ

Blank Name/QCG: **190805W-95987 - 243437**
Batch ID: #SIM53-190805A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	08/05/19	08/13/19
BLANK	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	08/05/19	08/13/19
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	08/05/19	08/13/19
BLANK	SURROGATE: 2-METHYLNAPHT	104	39-114			%	08/05/19	08/13/19
BLANK	SURROGATE: FLUORANTHENE-	101	58-120			%	08/05/19	08/13/19

Quant Method:L0810.M
Run #:0810L105
Instrument:Linus
Sequence:L190810
Initials:MA

GC SC-Blank-REG MDLs-DOD
Printed: 08/13/19 8:34:19 PM

8270D-SIM

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/13/19

Matrix: WATER

Instrument: Linus

LCS ID: 190805A-LCS

Time Analyzed: 1550

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190805A-BLK	Blank	0810L105	08/13/19 1514
190805A-LCS	Lab Control Spike	0810L106	08/13/19 1550
190805A-LCSD	Lab Control Spiked	0810L107	08/13/19 1613
AZ95860	ERH880	0810L108	08/13/19 1635

Comments: Batch: #SIM53-190805A

Printed: 08/13/19 8:34:47 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries
EPA 8270D SIM LIQ-LIQ

APPL ID: 190805W-95987 LCS - 243437
 Batch ID: #SIM53-190805A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1-METHYLNAPHTHALENE	6.25	4.73	4.50	75.7	72.0	41-115	5.0	20
2-METHYLNAPHTHALENE	6.25	4.99	4.74	79.8	75.8	39-114	5.1	20
NAPHTHALENE	6.25	4.83	4.63	77.3	74.1	43-114	4.2	20

SURROGATE: 2-METHYLNAPHTHALEN	6.25	5.47	5.21	87.5	83.4	39-114		
SURROGATE: FLUORANTHENE-D10 (S)	6.25	6.45	6.33	103	101	58-120		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	L0810.M	L0810.M
Extraction Date :	08/05/19	08/05/19
Analysis Date :	08/13/19	08/13/19
Instrument :	Linus	Linus
Run :	0810L106	0810L107
Initials :	MA	

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: _____
Matrix: Water
ID: 0810L002.D

SDG No: _____
Date Analyzed: 08/10/19
Instrument: Linus
Time Analyzed: 10:13

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	0.1 SIM 08/10/19	0810L003.D	08/10/19 10:29
2	0.2 SIM 08/10/19	0810L004.D	08/10/19 10:52
3	0.5 SIM 08/10/19	0810L005.D	08/10/19 11:14
4	1 SIM 08/10/19	0810L006.D	08/10/19 11:36
5	5 SIM 08/10/19	0810L007.D	08/10/19 11:59
6	10 SIM 08/10/19	0810L008.D	08/10/19 12:21
7	50 SIM 08/10/19	0810L009.D	08/10/19 12:44
8	100 SIM 08/10/19	0810L010.D	08/10/19 13:33
9	SS SIM 08/10/19	0810L011.D	08/10/19 13:57
10			
11			
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13			
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16			
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19			
20			
21			
22			

m/e

51 9.95 - 80% of mass 198	64.0
68 0 - 2.05% of mass 69	0.0
70 0 - 2% of mass 69	0.6
127 10 - 80% of mass 198	67.8
197 0 - 2% of mass 198	0.0
198 100 - 100% of mass 198	100.0
199 5 - 9% of mass 198	6.5
275 10 - 60% of mass 198	22.3
365 1 - 100% of mass 198	2.8
441 0.01 - 24% of mass 442	17.3
442 50 - 500% of mass 198	80.1
443 15 - 24% of mass 442	18.8

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: 89674
 Matrix: Water
 ID: 0810L093.D

SDG No: 89674
 Date Analyzed: 08/13/19
 Instrument: Linus
 Time Analyzed: 10:45

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		5 SIM 08/10/19 (1)	0810L094.D	08/13/19 11:01
2	Blank	190805A BLK 1/800	0810L105.D	08/13/19 15:14
3	Lab Control Spike	190805A LCS-2 1/800	0810L106.D	08/13/19 15:50
4	Lab Control SpikeD	190805A LCSD-2 1/800	0810L107.D	08/13/19 16:13
5	ERH880	AZ95860W19 1/800	0810L108.D	08/13/19 16:35
6		5 SIM 08/10/19 (2)	0810L115.D	08/13/19 19:12
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21				
22				

m/e

51 9.95 - 80% of mass 198	<u>65.3</u>
68 0 - 2.05% of mass 69	<u>0.0</u>
70 0 - 2% of mass 69	<u>0.3</u>
127 10 - 80% of mass 198	<u>63.7</u>
197 0 - 2% of mass 198	<u>0.0</u>
198 100 - 100% of mass 198	<u>100.0</u>
199 5 - 9% of mass 198	<u>6.3</u>
275 10 - 60% of mass 198	<u>23.3</u>
365 1 - 100% of mass 198	<u>2.7</u>
441 0.01 - 24% of mass 442	<u>16.0</u>
442 50 - 500% of mass 198	<u>91.9</u>
443 15 - 24% of mass 442	<u>17.8</u>

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89674
 Lab File ID (Standard): 0810L094.D Date Analyzed: 08/13/19
 Instrument ID: Linus Time Analyzed: 11:01
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

		Napthalene-D8(IS)		Acenaphthene-D10(IS)		Phenanthrene-D10(IS)			
		AREA	#	RT	#	AREA	#	RT	#
	12 HOUR STD	86542		3.63		35267		5.67	
	UPPER LIMIT	173084		3.80		70534		5.84	
	LOWER LIMIT	43271		3.46		17634		5.50	
	SAMPLE NO.								
01	190805A BLK 1/800	75440		3.63		22791		5.67	
02	190805A LCS-2 1/800	91440		3.63		33026		5.67	
03	190805A LCSD-2 1/800	89545		3.63		32424		5.67	
04	AZ95860W19 1/800	78071		3.63		33668		5.67	
05	5 SIM 08/10/19 (2)	94624		3.63		37340		5.67	
06									
07									
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89674
 Lab File ID (Standard): 0810L094.D Date Analyzed: 08/13/19
 Instrument ID: Linus Time Analyzed: 11:01
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

		Chrysene-D12(IS)		Perylene-D12(IS)			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		80406	10.45	89779	12.59		
UPPER LIMIT		160812	10.62	179558	12.76		
LOWER LIMIT		40203	10.28	44890	12.42		
SAMPLE NO.							
01	190805A BLK 1/800	62234	10.45	12549 *	12.60		
02	190805A LCS-2 1/800	73746	10.45	74036	12.59		
03	190805A LCSD-2 1/800	72748	10.45	76384	12.59		
04	AZ95860W19 1/800	79789	10.43	79257	12.59		
05	5 SIM 08/10/19 (2)	85676	10.43	85723	12.59		
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits. Not used for quantitation of target compounds

EPA 8270D

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/09/19

Matrix: WATER

Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: 2,4,6-TRIBROMOPHENOL (S)			SURROGATE: 2-FLUORBIPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190805A-LCS	Lab Control Spike	43-140	85.2		44-119	85.6	
190805A-LCSD	Lab Control SpikeD	43-140	88.0		44-119	88.0	
AZ95860	ERH880	43-140	84.0		44-119	87.1	
190805A-BLK	Blank	43-140	96.5		44-119	97.8	

Comments: Batch: #87DC5-190805A

Printed: 08/27/19 12:47:48 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8270D

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.
Case No: 89674
Matrix: WATER

SDG No: 89674
Date Analyzed: 08/09/19
Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: 2-FLUOROPHENOL (S)			SURROGATE: NITROBENZENE-D5 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190805A-LCS	Lab Control Spike	19-119	81.2		44-120	93.6	
190805A-LCSD	Lab Control SpikeD	19-119	84.4		44-120	95.2	
AZ95860	ERH880	19-119	84.8		44-120	106	
190805A-BLK	Blank	19-119	80.2		44-120	96.8	

Comments: Batch: #87DC5-190805A

EPA 8270D

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/09/19

Matrix: WATER

Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: PHENOL-D6 (S)			SURROGATE: TERPHENYL-D14 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190805A-LCS	Lab Control Spike	10-115	79.2		50-134	84.0	
190805A-LCSD	Lab Control Spiked	10-115	83.2		50-134	84.8	
AZ95860	ERH880	10-115	85.5		50-134	77.9	
190805A-BLK	Blank	10-115	70.2		50-134	79.8	

Comments: Batch: #87DC5-190805A

Printed: 08/27/19 12:47:48 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8270D

Form 4

Blank Summary

Lab Name: APPL, Inc.
Case No: 89674
Matrix: WATER
Blank ID: 190805A-BLK

SDG No: 89674
Date Analyzed: 08/11/19
Instrument: Yoda
Time Analyzed: 1910

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190805A-LCS	Lab Control Spike	0806Y070	08/09/19 1750
190805A-LCSD	Lab Control Spiked	0806Y071	08/09/19 1818
AZ95860	ERH880	0806Y074	08/09/19 1942
190805A-BLK	Blank	0806Y110	08/11/19 1910

Comments: Batch: #87DC5-190805A

Method Blank
EPA 8270D WATER

Blank Name/QCG: **190805W-95987 - 243623**
Batch ID: #87DC5-190805A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	08/05/19	08/11/19
BLANK	SURROGATE: 2,4,6-TRIBROMOP	96.5	43-140			%	08/05/19	08/11/19
BLANK	SURROGATE: 2-FLUORBIPHENY	97.8	44-119			%	08/05/19	08/11/19
BLANK	SURROGATE: 2-FLUOROPHENO	80.2	19-119			%	08/05/19	08/11/19
BLANK	SURROGATE: NITROBENZENE-	96.8	44-120			%	08/05/19	08/11/19
BLANK	SURROGATE: PHENOL-D6 (S)	70.2	10-115			%	08/05/19	08/11/19
BLANK	SURROGATE: TERPHENYL-D14 (	79.8	50-134			%	08/05/19	08/11/19

Quant Method: Y0806NC.M
Run #: 0806Y110
Instrument: Yoda
Sequence: Y190806
Initials: JPR

GC SC-Blank-REG.MDLs-DOD
Printed: 08/19/19 1:36:11 PM

EPA 8270D

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/09/19

Matrix: WATER

Instrument: Yoda

LCS ID: 190805A-LCS

Time Analyzed: 1750

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190805A-LCS	Lab Control Spike	0806Y070	08/09/19 1750
190805A-LCSD	Lab Control Spiked	0806Y071	08/09/19 1818
AZ95860	ERH880	0806Y074	08/09/19 1942
190805A-BLK	Blank	0806Y110	08/11/19 1910

Comments: Batch: #87DC5-190805A

Printed: 08/27/19 12:47:28 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8270D WATER

APPL ID: 190805W-95987 LCS - 243623
 Batch ID: #87DC5-190805A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
PHENOL	62.5	50.8	53.0	81.3	84.8	10-115	4.2	20
SURROGATE: 2,4,6-TRIBROMOPHENOL	250	213	220	85.2	88.0	43-140		
SURROGATE: 2-FLUORBIPHENYL (S)	125	107	110	85.6	88.0	44-119		
SURROGATE: 2-FLUOROPHENOL (S)	250	203	211	81.2	84.4	19-119		
SURROGATE: NITROBENZENE-D5 (S)	125	117	119	93.6	95.2	44-120		
SURROGATE: PHENOL-D6 (S)	250	198	208	79.2	83.2	10-115		
SURROGATE: TERPHENYL-D14 (S)	125	105	106	84.0	84.8	50-134		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	Y0806NC.M	Y0806NC.M
Extraction Date :	08/05/19	08/05/19
Analysis Date :	08/09/19	08/09/19
Instrument :	Yoda	Yoda
Run :	0806Y070	0806Y071
Initials :	JPR	

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: _____
 Matrix: Soil
 ID: 0806Y002.D

SDG No: _____
 Date Analyzed: 08/06/19
 Instrument: Yoda
 Time Analyzed: 10:07

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	50ug/ml 8270 08/06/1	0806Y003.D	08/06/19 10:53
2	4ug/ml 8270 08/06/19	0806Y004.D	08/06/19 11:45
3	5ug/ml 8270 08/06/19	0806Y005.D	08/06/19 12:13
4	10ug/ml 8270 08/06/1	0806Y006.D	08/06/19 12:41
5	20ug/ml 8270 08/06/1	0806Y007.D	08/06/19 13:09
6	40ug/ml 8270 08/06/1	0806Y008.D	08/06/19 13:37
7	60ug/ml 8270 08/06/1	0806Y009.D	08/06/19 14:05
8	80ug/ml 8270 08/06/1	0806Y010.D	08/06/19 14:33
9	100ug/ml 8270 08/06/1	0806Y011.D	08/06/19 15:00
10	SS 8270 08/06/19	0806Y012.D	08/06/19 16:50
11			
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20			
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22			

m/e

51 9.95 - 80.04% of mass 198	<u>25.9</u>
68 0 - 2% of mass 69	<u>0.0</u>
70 0 - 2% of mass 69	<u>0.9</u>
127 10 - 80% of mass 198	<u>43.8</u>
197 0 - 2% of mass 198	<u>0.0</u>
198 100 - 100% of mass 198	<u>100.0</u>
199 5 - 9% of mass 198	<u>6.8</u>
275 10 - 60% of mass 198	<u>31.9</u>
365 1 - 100% of mass 198	<u>4.0</u>
441 0.01 - 24% of mass 442	<u>15.7</u>
442 50 - 500% of mass 198	<u>180.1</u>
443 15 - 24% of mass 442	<u>19.3</u>

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: 89674
 Matrix: Water
 ID: 0806Y067.D

SDG No: 89674
 Date Analyzed: 08/09/19
 Instrument: Yoda
 Time Analyzed: 16:07

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	50ug/ml 8270 08/06/1	0806Y068.D	08/09/19 16:40
2	Lab Control Spike	190805A LCS-1 1/800	0806Y070.D
3	Lab Control SpikeD	190805A LCSD-1 1/800	0806Y071.D
4	ERH880	AZ95860W19 1/800	0806Y074.D
5	50ug/ml 8270 08/06/1	0806Y092.D	08/10/19 4:04
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17			
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21			
22			

m/e

51 9.95 - 80.04% of mass 198	<u>24.0</u>
68 0 - 2% of mass 69	<u>0.0</u>
70 0 - 2% of mass 69	<u>0.2</u>
127 10 - 80% of mass 198	<u>41.7</u>
197 0 - 2% of mass 198	<u>0.0</u>
198 100 - 100% of mass 198	<u>100.0</u>
199 5 - 9% of mass 198	<u>6.9</u>
275 10 - 60% of mass 198	<u>32.9</u>
365 1 - 100% of mass 198	<u>4.5</u>
441 0.01 - 24% of mass 442	<u>16.6</u>
442 50 - 500% of mass 198	<u>197.0</u>
443 15 - 24% of mass 442	<u>19.6</u>

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: _____
 Matrix: Water
 ID: 0806Y096.D

SDG No: _____
 Date Analyzed: 08/11/19
 Instrument: Yoda
 Time Analyzed: 12:47

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	50ug/ml 8270 08/06/1	0806Y097.D	08/11/19 13:02
2	Blank	190805A BLK 1/800	08/11/19 19:10
3	50ug/ml 8270 08/06/1	0806Y122.D	08/12/19 0:46
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19			
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21			
22			

m/e	
51 9.95 - 80.04% of mass 198	<u>23.9</u>
68 0 - 2% of mass 69	<u>0.0</u>
70 0 - 2% of mass 69	<u>0.2</u>
127 10 - 80% of mass 198	<u>41.8</u>
197 0 - 2% of mass 198	<u>0.0</u>
198 100 - 100% of mass 198	<u>100.0</u>
199 5 - 9% of mass 198	<u>6.7</u>
275 10 - 60% of mass 198	<u>32.0</u>
365 1 - 100% of mass 198	<u>4.0</u>
441 0.01 - 24% of mass 442	<u>16.5</u>
442 50 - 500% of mass 198	<u>174.8</u>
443 15 - 24% of mass 442	<u>20.4</u>

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89674
 Lab File ID (Standard): 0806Y068.D Date Analyzed: 9 Aug 19 16:40
 Instrument ID: Yoda Time Analyzed: 9 Aug 19 16:40
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

		1,4-dichlorobenzene-D4(IS)		Napthalene-D8(IS)		Acenaphthene-D10(IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	224381	4.97	928483	6.43	528294	8.47
	UPPER LIMIT	448762	5.14	1856966	6.60	1056588	8.64
	LOWER LIMIT	112191	4.80	464242	6.26	264147	8.30
	SAMPLE NO.						
01	190805A LCS-1 1/800	252923	4.96	1013270	6.42	596989	8.46
02	190805A LCSD-1 1/800	243064	4.96	987334	6.42	574558	8.46
03	AZ95860W19 1/800	217894	4.96	896567	6.42	568934	8.46
04	50ug/ml 8270 08/06/19	227727	4.96	976863	6.42	593536	8.46
05							
06							
07							
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AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89674
 Lab File ID (Standard): 0806Y068.D Date Analyzed: 9 Aug 19 16:40
 Instrument ID: Yoda Time Analyzed: 9 Aug 19 16:40
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

		Phenanthrene-D10(IS)		Chrysene-D12(IS)		Perylene-D12(IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		1104340	10.22	977761	13.33	1193140	15.07
UPPER LIMIT		2208680	10.39	1955522	13.50	2386280	15.24
LOWER LIMIT		552170	10.05	488881	13.16	596570	14.90
SAMPLE NO.							
01	190805A LCS-1 1/800	1218160	10.21	1103460	13.33	1316440	15.05
02	190805A LCSD-1 1/800	1175210	10.21	1064710	13.32	1261830	15.05
03	AZ95860W19 1/800	1162560	10.21	1101930	13.32	1257010	15.05
04	50ug/ml 8270 08/06/19	1218090	10.21	1076370	13.32	1303380	15.05
05							
06							
07							
08							
09							
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AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: _____
 Lab Code: _____ SDG No.: _____
 Lab File ID (Standard): 0806Y097.D Date Analyzed: 08/11/19
 Instrument ID: Yoda Time Analyzed: 13:02
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

		1,4-dichlorobenzene-D4(IS)		Napthalene-D8(IS)		Acenaphthene-D10(IS)			
		AREA	#	RT	#	AREA	#	RT	#
	12 HOUR STD	225604		4.96		928988		6.42	
	UPPER LIMIT	451208		5.13		1857976		6.59	
	LOWER LIMIT	112802		4.79		464494		6.25	
	SAMPLE NO.								
01	190805A BLK 1/800	239413		4.95		988590		6.42	
02	50ug/ml 8270 08/06/19 (304246		4.96		1293200		6.42	
03									
04									
05									
06									
07									
08									
09									
10									
11									
12									
13									
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15									
16									
17									
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19									
20									
21									
22									

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: _____
 Lab Code: _____ SDG No.: _____
 Lab File ID (Standard): 0806Y097.D Date Analyzed: 08/11/19
 Instrument ID: Yoda Time Analyzed: 13:02
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

		Phenanthrene-D10(IS)		Chrysene-D12(IS)		Perylene-D12(IS)			
		AREA	#	RT	#	AREA	#	RT	#
	12 HOUR STD	1103180		10.21		1000990		13.32	
	UPPER LIMIT	2206360		10.38		2001980		13.49	
	LOWER LIMIT	551590		10.04		500495		13.15	
	SAMPLE NO.								
01	190805A BLK 1/800	1166370		10.21		1094790		13.32	
02	50ug/ml 8270 08/06/19 (1659790		10.21		1441400		13.33	
03									
04									
05									
06									
07									
08									
09									
10									
11									
12									
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22									

Perylene does not pertain to target analytes

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

EPA 8270D

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/06/19

Matrix: WATER

Instrument: Linus

Blank ID: 190805A-BLK

Time Analyzed: 1542

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190805A-BLK	Blank	0730L043	08/06/19 1542
190805A-LCS	Lab Control Spike	0730L044	08/06/19 1605
190805A-LCSD	Lab Control Spiked	0730L045	08/06/19 1628
AZ95860	ERH880	0730L046	08/06/19 1652

Comments: Batch: #87DME-190805A

Printed: 08/07/19 6:19:22 PM
Form 4, Blank Summary

Method Blank
EPA 8270D MODIFIED WATER

Blank Name/QCG: **190805W-95987 - 243197**
Batch ID: #87DME-190805A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	2-(2-METHOXYETHOXY)-ETHAN	80.0 U	100	80.0	40.0	ug/L	08/05/19	08/06/19

Quant Method: LMEE0430.M
Run #: 0730L043
Instrument: Linus
Sequence: L190730M
Initials: MA

GC SC-Blank-REG MDLs-DOD
Printed: 08/07/19 6:18:50 PM

EPA 8270D

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/06/19

Matrix: WATER

Instrument: Linus

LCS ID: 190805A-LCS

Time Analyzed: 1605

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190805A-BLK	Blank	0730L043	08/06/19 1542
190805A-LCS	Lab Control Spike	0730L044	08/06/19 1605
190805A-LCSD	Lab Control Spiked	0730L045	08/06/19 1628
AZ95860	ERH880	0730L046	08/06/19 1652

Comments: Batch: #87DME-190805A

Laboratory Control Spike Recoveries

EPA 8270D MODIFIED WATER

APPL ID: 190805W-95987 LCS - 243197
 Batch ID: #87DME-190805A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
2-(2-METHOXYETHOXY)-ETHANOL	80.0	57.5	72.4	71.9	90.5	30-130	22.9 #	20

= Recovery is outside QC limits.

Comments: _____

	<u>SPK</u>	<u>DUP</u>
Quant Method :	LMEE0430.M	LMEE0430.M
Extraction Date :	08/05/19	08/05/19
Analysis Date :	08/06/19	08/06/19
Instrument :	Linus	Linus
Run :	0730L044	0730L045
Initials :	MA	

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 89674
Matrix: Water
ID: 0730L041.D

SDG No: 89674
Date Analyzed: 8/6/2019
Instrument: Linus
Time Analyzed: 10:30

Client Sample No.	APPL ID.	File ID.	Date Analyzed	
1	500ug/ml MEE 04/30/1	0730L042.D	8/6/2019 15:01	
2	Blank	190805A BLK 2/500	0730L043.D	8/6/2019 15:42
3	Lab Control Spike	190805A LCS-1 2/500	0730L044.D	8/6/2019 16:05
4	Lab Control Spiked	190805A LCSD-1 2/500	0730L045.D	8/6/2019 16:28
5	ERH880	AZ95860W17 2/500	0730L046.D	8/6/2019 16:52
6	500ug/ml MEE 04/30/1	0730L053.D	8/6/2019 19:35	
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22				

m/e

51 10 - 80% of mass 198	11.5
68 0 - 2% of mass 69	0.0
69 100 - 100% of mass 69	100.0
70 0 - 2% of mass 69	0.6
127 10 - 80% of mass 198	32.5
197 0 - 2% of mass 198	0.0
198 100 - 100% of mass 198	100.0
199 5 - 9% of mass 198	6.4
275 10 - 60% of mass 198	34.6
365 1 - 100% of mass 198	4.3
441 0.01 - 24% of mass 442	15.8
442 50 - 500% of mass 198	235.0
443 15 - 24% of mass 442	19.3

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89674
 Lab File ID (Standard): 0730L007.D Date Analyzed: 07/30/19
 Instrument ID: Linus Time Analyzed: 14:04
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

		1,4-dichlorobenzene-D4(IS)		Napthalene-D8(IS)		Acenaphthene-D10(IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		1382830	6.13	4970140	7.05	3606290	8.42
UPPER LIMIT		2765660	6.30	9940280	7.22	7212580	8.59
LOWER LIMIT		691415	5.96	2485070	6.88	1803145	8.25
SAMPLE							
NO.							
01	500ug/ml MEE 04/30/19	1513090	6.12	4815310	7.05	4004380	8.41
02	190805A BLK 2/500	1925990	6.14	7179460	7.05	4452670	8.42
03	190805A LCS-1 2/500	1863630	6.12	7185960	7.05	4365450	8.41
04	190805A LCSD-1 2/500	1841760	6.14	7141980	7.05	4500670	8.41
05	AZ95860W17 2/500	1526010	6.14	5605570	7.05	3431070	8.41
06							
07							
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AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89674
 Lab File ID (Standard): 0730L007.D Date Analyzed: 07/30/19
 Instrument ID: Linus Time Analyzed: 14:04
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

		Phenanthrene-D10(IS)		Chrysene-D12(IS)		Perylene-D12(IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		7424400	9.59	7867430	11.88	7875030	13.64
UPPER LIMIT		14848800	9.76	15734860	12.05	15750060	13.81
LOWER LIMIT		3712200	9.42	3933715	11.71	3937515	13.47
SAMPLE							
NO.							
01	500ug/ml MEE 04/30/19	7825660	9.59	8304900	11.91	8843380	13.68
02	190805A BLK 2/500	9681200	9.59	10463500	11.95	11742500	13.74
03	190805A LCS-1 2/500	9559900	9.59	10256300	11.90	11544100	13.67
04	190805A LCSD-1 2/500	9772900	9.58	10448500	11.89	11906500	13.66
05	AZ95860W17 2/500	7491240	9.58	7033530	11.90	8159090	13.67
06							
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AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/03/19

Matrix: WATER

Instrument: Thor

APPL ID.	Client Sample No.	SURROGATE: 1,2-DICHLOROETHANE-D4 (S)			SURROGATE: 4-BROMOFLUOROBENZENE (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190803AT-LCS	Lab Control Spike	81-118	94.4		85-114	94.0	
190803AT-LCSD	Lab Control SpikeD	81-118	94.8		85-114	96.0	
190803AT-BLK	Blank	81-118	104		85-114	98.4	
AZ95859	ERH881	81-118	105		85-114	104	
AZ95860	ERH880	81-118	88.2		85-114	88.5	

Comments: Batch: #86BTO-190803AT

Printed: 08/05/19 12:34:55 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/03/19

Matrix: WATER

Instrument: Thor

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
190803AT-LCS	Lab Control Spike	80-119	94.8		89-112	97.2	
190803AT-LCSD	Lab Control Spiked	80-119	96.0		89-112	95.6	
190803AT-BLK	Blank	80-119	103		89-112	102	
AZ95859	ERH881	80-119	104		89-112	107	
AZ95860	ERH880	80-119	90.0		89-112	91.0	

Comments: Batch: #86BTO-190803AT

Printed: 08/05/19 12:34:55 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/03/19

Matrix: WATER

Instrument: Thor

Blank ID: 190803AT-BLK

Time Analyzed: 1506

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190803AT-LCS	Lab Control Spike	0803T03	08/03/19 1244
190803AT-LCSD	Lab Control SpikeD	0803T04	08/03/19 1312
190803AT-BLK	Blank	0803T08	08/03/19 1506
AZ95859	ERH881	0803T09	08/03/19 1534
AZ95860	ERH880	0803T10	08/03/19 1603

Comments: Batch: #86BTO-190803AT

Printed: 08/05/19 12:35:15 PM
Form 4, Blank Summary

Method Blank
EPA 8260B BTEX & 1,2-DCA WATER

Blank Name/QCG: **190803W-95859 - 243058**
 Batch ID: #86BTO-190803AT

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1,2-DICHLOROETHANE	0.30 U	1.0	0.30	0.14	ug/L	08/03/19	08/03/19
BLANK	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	08/03/19	08/03/19
BLANK	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	08/03/19	08/03/19
BLANK	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	08/03/19	08/03/19
BLANK	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	08/03/19	08/03/19
BLANK	SURROGATE: 1,2-DICHLOROET	104	81-118			%	08/03/19	08/03/19
BLANK	SURROGATE: 4-BROMOFLUORO	98.4	85-114			%	08/03/19	08/03/19
BLANK	SURROGATE: DIBROMOFLUOR	103	80-119			%	08/03/19	08/03/19
BLANK	SURROGATE: TOLUENE-D8 (S)	102	89-112			%	08/03/19	08/03/19

Quant Method: T0802W.M
 Run #: 0803T08
 Instrument: Thor
 Sequence: T190802
 Initials: DPO

GC SC-Blank-REG MDLs-DOD
 Printed: 08/05/19 12:34:54 PM

EPA 8260B

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/03/19

Matrix: WATER

Instrument: Thor

LCS ID: 190803AT-LCS

Time Analyzed: 1244

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190803AT-LCS	Lab Control Spike	0803T03	08/03/19 1244
190803AT-LCSD	Lab Control SpikeD	0803T04	08/03/19 1312
190803AT-BLK	Blank	0803T08	08/03/19 1506
AZ95859	ERH881	0803T09	08/03/19 1534
AZ95860	ERH880	0803T10	08/03/19 1603

Comments: Batch: #86BTO-190803AT

Printed: 08/05/19 12:35:16 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8260B BTEX & 1,2-DCA WATER

APPL ID: 190803W-95859 LCS - 243058
 Batch ID: #86BTO-190803AT

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1,2-DICHLOROETHANE	10.00	9.08	9.11	90.8	91.1	73-128	0.33	20
BENZENE	10.00	9.55	9.96	95.5	99.6	79-120	4.2	20
ETHYLBENZENE	10.00	10.4	10.3	104	103	79-121	0.97	20
TOLUENE	10.00	9.83	10.1	98.3	101	80-121	2.7	20
XYLENES (TOTAL)	30.0	30.8	31.1	103	104	79-121	0.97	20

SURROGATE: 1,2-DICHLOROETHANE-D	25.0	23.6	23.7	94.4	94.8	81-118		
SURROGATE: 4-BROMOFLUOROBENZE	25.0	23.5	24.0	94.0	96.0	85-114		
SURROGATE: DIBROMOFLUOROMETH	25.0	23.7	24.0	94.8	96.0	80-119		
SURROGATE: TOLUENE-D8 (S)	25.0	24.3	23.9	97.2	95.6	89-112		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	T0802W.M	T0802W.M
Extraction Date :	08/03/19	08/03/19
Analysis Date :	08/03/19	08/03/19
Instrument :	Thor	Thor
Run :	0803T03	0803T04
Initials :	DPO	

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: _____
 Matrix: Water
 ID: 0802T00.D

SDG No: _____
 Date Analyzed: 8/2/2019
 Instrument: Thor
 Time Analyzed: 9:48

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	0.3ug/L VOC STD 08/0	0802T03.D	8/2/2019 11:07
2	0.5ug/L VOC STD 08/0	0802T04.D	8/2/2019 11:35
3	1.0ug/L VOC STD 08/0	0802T05.D	8/2/2019 12:03
4	5.0ug/L VOC STD 08/0	0802T07.D	8/2/2019 13:00
5	10ug/L VOC STD 08/02	0802T08.D	8/2/2019 13:29
6	20ug/L VOC STD 08/02	0802T09.D	8/2/2019 13:57
7	40ug/L VOC STD 08/02	0802T10.D	8/2/2019 14:26
8	100ug/L VOC STD 08/0	0802T11.D	8/2/2019 14:54
9	SS 10ug/L VOC STD 08	0802T14.D	8/2/2019 16:20
10			
11			
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17			
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19			
20			
21			
22			

m/e

50 15 - 40% of mass 95	<u>16.2</u>
75 30 - 60% of mass 95	<u>49.0</u>
95 100 - 100% of mass 95	<u>100.0</u>
96 5 - 9% of mass 95	<u>6.9</u>
173 0 - 2% of mass 174	<u>0.0</u>
174 50 - 200% of mass 95	<u>104.1</u>
175 5 - 9% of mass 174	<u>7.9</u>
176 95 - 101% of mass 174	<u>99.2</u>
177 5 - 9% of mass 176	<u>6.4</u>

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: 89674
 Matrix: Water
 ID: 0803T00.D

SDG No: 89674
 Date Analyzed: 8/3/2019
 Instrument: Thor
 Time Analyzed: 11:26

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	190803A CCV 10ug/L	0803T02.D	8/3/2019 12:15
2	Lab Control Spike	190803A LCS 10ug/L	0803T03.D
3	Lab Control SpikeD	190803A LCSD 10ug/L	0803T04.D
4	Blank	190803A BLK	0803T08.D
5	ERH881	AZ95859W01	0803T09.D
6	ERH880	AZ95860W01	0803T10.D
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

m/e

50 15 - 40% of mass 95	<u>15.2</u>
75 30 - 60% of mass 95	<u>46.7</u>
95 100 - 100% of mass 95	<u>100.0</u>
96 5 - 9% of mass 95	<u>6.6</u>
173 0 - 2% of mass 174	<u>0.0</u>
174 50 - 200% of mass 95	<u>105.2</u>
175 5 - 9% of mass 174	<u>7.7</u>
176 95 - 101% of mass 174	<u>96.8</u>
177 5 - 9% of mass 176	<u>6.5</u>

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 89674
 Lab File ID (Standard): 0802T09.D Date Analyzed: 2 Aug 19 13:57
 Instrument ID: Thor Time Analyzed: 2 Aug 19 13:57
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

		Fluorobenzene (IS)		Chlorobenzene-D5 (IS)		1,4-Dichlorobenzene-D (IS)	
		AREA	#	RT	#	AREA	#
	12 HOUR STD	447360		5.50		420544	8.79
	UPPER LIMIT	894720		5.67		841088	8.96
	LOWER LIMIT	223680		5.33		210272	8.62
	SAMPLE NO.						
01	190803A CCV 10ug/L	487040		5.50		475520	8.79
02	190803A LCS 10ug/L	486208		5.50		471616	8.79
03	190803A LCSD 10ug/L	481856		5.50		476096	8.79
04	190803A BLK	443776		5.50		436160	8.79
05	AZ95859W01	455296		5.50		433856	8.79
06	AZ95860W01	465792		5.50		444480	8.79
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/03/19

Matrix: WATER

Instrument: Thor

APPL ID.	Client Sample No.	SURROGATE: 4-BROMOFLUOROBENZENE (S)			Limits	Result	Qualifier
		Limits	Result	Qualifier			
190803AT-LCS	Lab Control Spike	85-114	108				
190803AT-LCSD	Lab Control Spiked	85-114	92.4				
190803AT-BLK	Blank	85-114	98.4				
AZ95859	ERH881	85-114	104				
AZ95860	ERH880	85-114	88.5				

Comments: Batch: #GRO86-190803AT

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/03/19

Matrix: WATER

Instrument: Thor

Blank ID: 190803AT-BLK

Time Analyzed: 1506

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190803AT-LCS	Lab Control Spike	0803T06	08/03/19 1409
190803AT-LCSD	Lab Control SpikeD	0803T07	08/03/19 1437
190803AT-BLK	Blank	0803T08	08/03/19 1506
AZ95859	ERH881	0803T09	08/03/19 1534
AZ95860	ERH880	0803T10	08/03/19 1603

Comments: Batch: #GRO86-190803AT

Printed: 08/05/19 12:36:43 PM
Form 4, Blank Summary

Method Blank
EPA 8260B GRO WATER

Blank Name/QCG: **190803W-95859 - 243061**
Batch ID: #GRO86-190803AT

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	08/03/19	08/03/19
BLANK	SURROGATE: 4-BROMOFLUORO	98.4	85-114			%	08/03/19	08/03/19

Quant Method: TGAS729.M
Run #: 0803T08
Instrument: Thor
Sequence: T190802
Initials: DPO

GC SC-Blank-REG MDLs-DOD
Printed: 08/05/19 12:36:22 PM

EPA 8260B

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/03/19

Matrix: WATER

Instrument: Thor

LCS ID: 190803AT-LCS

Time Analyzed: 1409

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190803AT-LCS	Lab Control Spike	0803T06	08/03/19 1409
190803AT-LCSD	Lab Control SpikeD	0803T07	08/03/19 1437
190803AT-BLK	Blank	0803T08	08/03/19 1506
AZ95859	ERH881	0803T09	08/03/19 1534
AZ95860	ERH880	0803T10	08/03/19 1603

Comments: Batch: #GRO86-190803AT

Printed: 08/05/19 12:36:44 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8260B GRO WATER

APPL ID: 190803W-95859 LCS - 243061
 Batch ID: #GRO86-190803AT

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
GASOLINE RANGE ORGANICS	300	359	331	120	110	78-122	8.1	20
SURROGATE: 4-BROMOFLUOROBENZE	25.0	26.9	23.1	108	92.4	85-114		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	TGAS729.M	TGAS729.M
Extraction Date :	08/03/19	08/03/19
Analysis Date :	08/03/19	08/03/19
Instrument :	Thor	Thor
Run :	0803T06	0803T07
Initials :	DPO	

RSK 175

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/06/19

Matrix: WATER

Instrument: Rocky

Blank ID: 190806A-BLK

Time Analyzed: 1349

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190806A-LCS	Lab Control Spike	19080602	08/06/19 1309
190806A-LCSD	Lab Control SpikeD	19080604	08/06/19 1338
190806A-BLK	Blank	19080605	08/06/19 1349
AZ95859	ERH881	19080606	08/06/19 1354
AZ95860	ERH880	19080607	08/06/19 1400

Comments: Batch: #RSKME-190806A

Printed: 08/12/19 10:24:51 AM
Form 4, Blank Summary

Method Blank
METHANE

Blank Name/QCG: **190806W-95859 - 243274**
Batch ID: #RSKME-190806A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	METHANE	1.00 U	5.0	1.00	0.25	ug/L	08/06/19	08/06/19

Quant Method: RSK0618.M
Run #: 19080605
Instrument: Rocky
Sequence: 190731
Initials: GAG

GC SC-Blank-REG MDLs-DOD
Printed: 08/12/19 10:24:30 AM

RSK 175

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/06/19

Matrix: WATER

Instrument: Rocky

LCS ID: 190806A-LCS

Time Analyzed: 1309

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
190806A-LCS	Lab Control Spike	19080602	08/06/19 1309
190806A-LCSD	Lab Control SpikeD	19080604	08/06/19 1338
190806A-BLK	Blank	19080605	08/06/19 1349
AZ95859	ERH881	19080606	08/06/19 1354
AZ95860	ERH880	19080607	08/06/19 1400

Comments: Batch: #RSKME-190806A

Printed: 08/12/19 10:24:51 AM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

METHANE

APPL ID: 190806W-95859 LCS - 243274
 Batch ID: #RSKME-190806A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
METHANE	83.4	97.5	95.2	117	114	72-125	2.4	30

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	RSK0618.M	RSK0618.M
Extraction Date :	08/06/19	08/06/19
Analysis Date :	08/06/19	08/06/19
Instrument :	Rocky	Rocky
Run :	19080602	19080604
Initials :	GAG	

6010C/3010A

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/07/19

Matrix: WATER

Instrument: Phoebe

Blank ID: 190805A-BLK

Time Analyzed: 1411

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190805A-LCSD	Lab Control SpikeD	190807A	08/07/19 1420
190805A-LCS	Lab Control Spike	190807A	08/07/19 1416
190805A-BLK	Blank	190807A	08/07/19 1411
AZ95860	ERH880	190807A	08/07/19 1440

Comments: Batch: #61CDO-190805A

Printed: 08/29/19 4:45:00 PM
Form 4, Blank Summary

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
6010C	CALCIUM (CA)	75.0 U	1000	75.0	27.5	ug/L	08/05/19	08/07/19	#61CDO-190805A-AZ95860
6010C	MAGNESIUM (MG)	30.0 U	500	30.0	12.9	ug/L	08/05/19	08/07/19	#61CDO-190805A-AZ95860
6010C	MANGANESE (MN)	4.00 U	10.0	4.00	1.23	ug/L	08/05/19	08/07/19	#61CDO-190805A-AZ95860
6010C	POTASSIUM (K)	500.0 U	3000	500.0	220.0	ug/L	08/05/19	08/07/19	#61CDO-190805A-AZ95860
6010C	SODIUM (NA)	500.0 U	5000	500.0	111.1	ug/L	08/05/19	08/07/19	#61CDO-190805A-AZ95860

Metals SC-Blank-REG MDLs
Printed: 08/29/19 4:45:04 PM

6010C/3010A

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/07/19

Matrix: WATER

Instrument: Phoebe

LCS ID: 190805A-LCS

Time Analyzed: 1416

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190805A-LCSD	Lab Control SpikeD	190807A	08/07/19 1420
190805A-LCS	Lab Control Spike	190807A	08/07/19 1416
190805A-BLK	Blank	190807A	08/07/19 1411
AZ95860	ERH880	190807A	08/07/19 1440

Comments: Batch: #61CDO-190805A

Laboratory Control Spike Recoveries

METALS

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Method	Compound Name	Spike Lvl ug/L	SPK Res ug/L	DUP Res ug/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
EPA 6010C	CALCIUM (CA)	25000	24500	25300	98.0	101	3.2	20	87-113	08/05/19	08/07/19	08/05/19	08/07/19	#61CDO-190805A-AZ9586
EPA 6010C	MAGNESIUM (MG)	25000	24500	25300	98.0	101	3.2	20	85-113	08/05/19	08/07/19	08/05/19	08/07/19	#61CDO-190805A-AZ9586
EPA 6010C	MANGANESE (MN)	250	252	256	101	102	1.6	20	90-114	08/05/19	08/07/19	08/05/19	08/07/19	#61CDO-190805A-AZ9586
EPA 6010C	POTASSIUM (K)	5000	4890	5110	97.8	102	4.4	20	86-114	08/05/19	08/07/19	08/05/19	08/07/19	#61CDO-190805A-AZ9586
EPA 6010C	SODIUM (NA)	25000	24900	25700	99.6	103	3.2	20	87-115	08/05/19	08/07/19	08/05/19	08/07/19	#61CDO-190805A-AZ9586

Comments: _____

EPA 300.0

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/01/19

Matrix: WATER

Instrument: Charlie

Blank ID: 190801B1-BLK

Time Analyzed: 1731

APPL ID.	Client Sample No.	File ID.	Date Analyzed
AZ95860	ERH880	16	08/01/19 1847
190801B1-LCS	Lab Control Spike	3	08/01/19 1709
190801B1-LCSD	Lab Control SpikeD	4	08/01/19 1716
190801B1-BLK	Blank	6	08/01/19 1731

Comments: Batch: #300W-190801B1

Printed: 08/26/19 12:00:33 PM
Form 4, Blank Summary

EPA 300.0

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/01/19

Matrix: WATER

Instrument: Charlie

Blank ID: 190801B1-BLK

Time Analyzed: 1731

APPL ID.	Client Sample No.	File ID.	Date Analyzed
AZ95860	ERH880	16	08/01/19 1847
190801B1-LCS	Lab Control Spike	3	08/01/19 1709
190801B1-LCSD	Lab Control Spiked	4	08/01/19 1716
190801B1-BLK	Blank	6	08/01/19 1731

Comments: Batch: #300W-190801B1

Printed: 09/04/19 8:57:07 AM
Form 4, Blank Summary

EPA 353.2

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/07/19

Matrix: WATER

Instrument: EVE

Blank ID: 190807A-BLK

Time Analyzed: 2020

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190807A-BLK	Blank	13	08/07/19 2020
190807A-LCS	Lab Control Spike	14	08/07/19 2023
190807A-LCSD	Lab Control Spiked	15	08/07/19 2025
AZ95860	ERH880	16	08/07/19 2027

Comments: Batch: #35OF-190807A

Printed: 09/04/19 8:57:07 AM
Form 4, Blank Summary

SM 2320B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/11/19

Matrix: WATER

Instrument: Tiamo

Blank ID: 190811A1-BLK

Time Analyzed: 2118

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190811A1-BLK	Blank	1	08/11/19 2118
190811A1-LCS	Lab Control Spike	2	08/11/19 2122
190811A1-LCSD	Lab Control SpikeD	3	08/11/19 2128
AZ95860	ERH880	7	08/11/19 2147

Comments: Batch: #232W-190811A1

Printed: 09/04/19 8:57:07 AM
Form 4, Blank Summary

SM 4500-Si D

Form 4

Blank Summary

Lab Name: APPL, Inc.
Case No: 89674
Matrix: WATER
Blank ID: 190816A-BLK

SDG No: 89674
Date Analyzed: 08/16/19
Instrument: Manual Spec
Time Analyzed: 1035

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190816A-BLK	Blank	56	08/16/19 1035
190816A-LCS	Lab Control Spike	57	08/16/19 1036
190816A-LCSD	Lab Control Spiked	58	08/16/19 1037
AZ95860	ERH880	59	08/16/19 1038

Comments: Batch: #SIO2-190816A

Printed: 09/04/19 8:57:07 AM
Form 4, Blank Summary

SM 4500-Si D

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/16/19

Matrix: WATER

Instrument: Manual Spec

Blank ID: 190816B-BLK

Time Analyzed: 1035

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190816B-BLK	Blank	56	08/16/19 1035
190816B-LCS	Lab Control Spike	57	08/16/19 1036
190816B-LCSD	Lab Control Spiked	58	08/16/19 1037
AZ95860	ERH880	67	08/16/19 1046

Comments: Batch: #SIO2D-190816B

Printed: 09/04/19 8:57:07 AM
Form 4, Blank Summary

SM3500FeB

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 07/31/19

Matrix: WATER

Instrument: Manual Spec

Blank ID: A190731-BLK

Time Analyzed: 1601

APPL ID.	Client Sample No.	File ID.	Date Analyzed
A190731-LCS	Lab Control Spike	31	07/31/19 1601
A190731-BLK	Blank	32	07/31/19 1601
AZ95860	ERH880	38	07/31/19 1608

Comments: Batch: #35FE-A190731

Printed: 09/04/19 8:57:07 AM
Form 4, Blank Summary

SW846 9060A

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/06/19

Matrix: WATER

Instrument: TICTOC

Blank ID: 190805B-BLK

Time Analyzed: 1209

APPL ID.	Client Sample No.	File ID.	Date Analyzed
AZ95860	ERH880	24	08/06/19 2255
190805B-BLK	Blank	6	08/06/19 1209
190805B-LCS	Lab Control Spike	7	08/06/19 1343
190805B-LCSD	Lab Control Spiked	8	08/06/19 1415

Comments: Batch: #TOCW5-190805B

Printed: 09/04/19 8:57:07 AM
Form 4, Blank Summary

WETLAB BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
SM 2320B	BICARBONATE AS	3.6	2.0	1.70	0.85	mg/L	08/11/19	08/11/19	#232W-190811A1-AZ95987
SM 2320B	CARBONATE AS C	1.70 U	2.0	1.70	0.85	mg/L	08/11/19	08/11/19	#232W-190811A1-AZ95987
SM 2320B	HYDROXIDE AS CA	1.70 U	2.0	1.70	0.85	mg/L	08/11/19	08/11/19	#232W-190811A1-AZ95987
SM 2320B	TOTAL ALKALINITY	3.6	2.0	1.70	0.85	mg/L	08/11/19	08/11/19	#232W-190811A1-AZ95987
EPA 300.0	BROMIDE	0.16 U	0.5	0.16	0.05	mg/L	08/01/19	08/01/19	#300W-190801B1-AZ95860
EPA 300.0	CHLORIDE	0.20 U	1.0	0.20	0.08	mg/L	08/01/19	08/01/19	#300W-190801B1-AZ95860
EPA 300.0	FLUORIDE	0.09 U	0.1	0.09	0.08	mg/L	08/01/19	08/01/19	#300W-190801B1-AZ95860
EPA 300.0	SULFATE	0.20 U	1.0	0.20	0.09	mg/L	08/01/19	08/01/19	#300W-190801B1-AZ95860
SM3500Fe	FERROUS IRON	0.32 U	1.0	0.32	0.16	mg/L	07/31/19	07/31/19	#35FE-A190731-AZ95838
EPA 353.2	NITRATE-NITRITE-	0.090 U	0.10	0.090	0.028	mg/L	08/07/19	08/07/19	#35OF-190807A-AZ95987
SM 4500-S	SILICA W	0.80 U	1.0	0.80	0.53	mg/L	08/16/19	08/16/19	#SIO2-190816A-AZ95987
SM 4500-S	DISSOLVED SILICA	0.80 U	1.0	0.80	0.53	mg/L	08/16/19	08/16/19	#SIO2D-190816B-AZ95987
SW846 90	TOTAL ORGANIC C	0.18 J	0.93	0.350	0.130	mg/L	08/05/19	08/06/19	#TOCW5-190805B-AZ95987

J = Estimated value.

Wetlab SC-Blank-REG MDLs
Printed: 09/04/19 8:57:05 AM

EPA 300.0

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/01/19

Matrix: WATER

Instrument: Charlie

LCS ID: 190801B1-LCS

Time Analyzed: 1709

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
AZ95860	ERH880	16	08/01/19 1847
190801B1-LCS	Lab Control Spike	3	08/01/19 1709
190801B1-LCSD	Lab Control Spiked	4	08/01/19 1716
190801B1-BLK	Blank	6	08/01/19 1731

Comments: Batch: #300W-190801B1

Printed: 09/04/19 8:57:08 AM
Form 4, LCS Summary

EPA 353.2

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/07/19

Matrix: WATER

Instrument: EVE

LCS ID: 190807A-LCS

Time Analyzed: 2023

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190807A-BLK	Blank	13	08/07/19 2020
190807A-LCS	Lab Control Spike	14	08/07/19 2023
190807A-LCSD	Lab Control Spiked	15	08/07/19 2025
AZ95860	ERH880	16	08/07/19 2027

Comments: Batch: #35OF-190807A

Printed: 09/04/19 8:57:08 AM
Form 4, LCS Summary

SM 2320B

Form 4

LCS Summary

Lab Name: APPL, Inc.
Case No: 89674
Matrix: WATER
LCS ID: 190811A1-LCS

SDG No: 89674
Date Analyzed: 08/11/19
Instrument: Tiamo
Time Analyzed: 2122

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190811A1-BLK	Blank	1	08/11/19 2118
190811A1-LCS	Lab Control Spike	2	08/11/19 2122
190811A1-LCSD	Lab Control SpikeD	3	08/11/19 2128
AZ95860	ERH880	7	08/11/19 2147

Comments: Batch: #232W-190811A1

Printed: 09/04/19 8:57:08 AM
Form 4, LCS Summary

SM 4500-Si D

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/16/19

Matrix: WATER

Instrument: Manual Spec

LCS ID: 190816A-LCS

Time Analyzed: 1036

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190816A-BLK	Blank	56	08/16/19 1035
190816A-LCS	Lab Control Spike	57	08/16/19 1036
190816A-LCSD	Lab Control Spiked	58	08/16/19 1037
AZ95860	ERH880	59	08/16/19 1038

Comments: Batch: #SIO2-190816A

Printed: 09/04/19 8:57:08 AM
Form 4, LCS Summary

SM 4500-Si D

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/16/19

Matrix: WATER

Instrument: Manual Spec

LCS ID: 190816B-LCS

Time Analyzed: 1036

APPL ID.	Client Sample No.	File ID.	Date Analyzed
190816B-BLK	Blank	56	08/16/19 1035
190816B-LCS	Lab Control Spike	57	08/16/19 1036
190816B-LCSD	Lab Control Spiked	58	08/16/19 1037
AZ95860	ERH880	67	08/16/19 1046

Comments: Batch: #SIO2D-190816B

Printed: 09/04/19 8:57:08 AM
Form 4, LCS Summary

SW846 9060A

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 08/06/19

Matrix: WATER

Instrument: TICTOC

LCS ID: 190805B-LCS

Time Analyzed: 1343

APPL ID.	Client Sample No.	File ID.	Date Analyzed
AZ95860	ERH880	24	08/06/19 2255
190805B-BLK	Blank	6	08/06/19 1209
190805B-LCS	Lab Control Spike	7	08/06/19 1343
190805B-LCSD	Lab Control Spiked	8	08/06/19 1415

Comments: Batch: #TOCW5-190805B

Printed: 09/04/19 8:57:08 AM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

WETLAB

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
EPA 300.0	BROMIDE	12.5	12.8	12.8	102	102	0.0	20	90-110	08/01/19	08/01/19	08/01/19	08/01/19	#300W-190801B1-AZ9586
EPA 300.0	CHLORIDE	25.0	24.1	24.1	96.4	96.4	0.0	20	90-110	08/01/19	08/01/19	08/01/19	08/01/19	#300W-190801B1-AZ9586
EPA 300.0	FLUORIDE	5.00	5.12	5.06	102	101	1.2	20	90-110	08/01/19	08/01/19	08/01/19	08/01/19	#300W-190801B1-AZ9586
EPA 300.0	SULFATE	25.0	24.4	24.4	97.6	97.6	0.0	20	90-110	08/01/19	08/01/19	08/01/19	08/01/19	#300W-190801B1-AZ9586
EPA 353.2	NITRATE-NITRITE-N	3.00	3.05	3.18	102	106	4.2	20	90-110	08/07/19	08/07/19	08/07/19	08/07/19	#35OF-190807A-AZ95987
SM 2320B	BICARBONATE AS CaCO3	250	242	244	96.8	97.6	0.82	20	90-110	08/11/19	08/11/19	08/11/19	08/11/19	#232W-190811A1-AZ9598
SM 2320B	TOTAL ALKALINITY AS CA	250	242	244	96.8	97.6	0.82	20	90-110	08/11/19	08/11/19	08/11/19	08/11/19	#232W-190811A1-AZ9598
SM 4500-Si	SILICA W	4.00	3.66	3.71	91.5	92.8	1.4	20	80-120	08/16/19	08/16/19	08/16/19	08/16/19	#SIO2-190816A-AZ95987
SM 4500-Si	DISSOLVED SILICA	4.00	3.66	3.71	91.5	92.8	1.4	20	80-120	08/16/19	08/16/19	08/16/19	08/16/19	#SIO2D-190816B-AZ95987
SW846 90	TOTAL ORGANIC CARBO	2.50	1.64	2.87	65.6 #	115	54.5 #	20	80-120	08/05/19	08/06/19	08/05/19	08/06/19	#TOCW5-190805B-AZ959

= Recovery is outside QC limits.

Comments:

SM3500FeB

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 89674

Case No: 89674

Date Analyzed: 07/31/19

Matrix: WATER

Instrument: Manual Spec

LCS ID: A190731-LCS

Time Analyzed: 1601

APPL ID.	Client Sample No.	File ID.	Date Analyzed
A190731-LCS	Lab Control Spike	31	07/31/19 1601
A190731-BLK	Blank	32	07/31/19 1601
AZ95860	ERH880	38	07/31/19 1608

Comments: Batch: #35FE-A190731

Printed: 09/04/19 8:57:08 AM
Form 4, LCS Summary

Laboratory Control Spike Recovery
WETLAB

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/L	SPK Result mg/L	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
SM3500Fe	FERROUS IRON	3.00	3.03	101	80-120	07/31/19	07/31/19	#35FE-A190731-AZ95838

Comments:

Matrix Spike Recoveries

WETLAB

APPL ID: 190731W-95838 MS - 242962

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample ID: AZ95838

Client ID: ND113GW03S009

Method	Compound Name	Spike Lvl mg/L	Matrix Res mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recovery	DUP % Recovery	RPD	RPD Max	RPD Limits	RPD Recovery	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group	QC Sample
SM3500Fe	FERROUS IRON	3.00	0.68	3.33	3.66	88.3	99.3	9.4	20	80-120		07/31/19	07/31/19	07/31/19	07/31/19	242962	AZ95838

Comments:

ORGANICS
Calibration Data

DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 6
Initial Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Initial Cal. Date: 08/06/19

Matrix: _____

Instrument: Herbie

Initials: GAMA

0715189.D 0715190.D 0715191.D 0715192.D 0715193.D 0715194.D

		Compound	1	2	3	4	5	6				Avg	%RSD	Type	r ²	Q
1	TM	EDB	678250	751495	625330	601070	641160	665846				660525	7.9	TM		
2	TM	1,2,3-TCP	297700	241185	245610	231460	228771	226072				245133	11	TM		
3	S	1,3-DIBROMOPROPANE(S)		1031650	985254	928683	928520	921124				959046	5.0	S		
4	TM	DBCP	3958875	3172505	3180064	3105020	3186745	3111519				3285788	10	TM		
5		Signal #2										0	0			
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0.971231

DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 08/06/19
Instrument: Herbie

Initials: _____

0715189.D 0715190.D 0715191.D 0715192.D 0715193.D 0715194.D

		Compound	1	2	3	4	5	6				Avg	%RSD	Type	r ²	Q
36	TM	EDB #2	3737250	3305235	2994864	2742826	2927664	3008236				3119346	11	TM		
37	TM	1,2,3-TCP #2	643225	634375	584544	452822	552968	535329				567211	12	TM		
38	S	1,3-DIBROMOPROPANE(S) #2		2417045	2162648	1601716	2063161	2059437				2060801	14	S		
39	TM	DBCP #2	8970625	8195890	8520086	8683575	9049861	9127008				8757841	4.1	TM		
40																
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1.204774

Signal #1 : G:\HERBIE\DATA\190715\0715189.D\ECD1A.CH Vial: 89
 Signal #2 : G:\HERBIE\DATA\190715\0715189.D\ECD2B.CH
 Acq On : 08-06-19 16:29:55 Operator: MA,SS
 Sample : 8011 1 8/6/19 Inst : Herbie
 Misc : Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Aug 7 9:06 2019 Quant Results File: 8011806A.RES

Quant Method : G:\HERBIE\DATA\190402\8011806A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Wed Aug 07 09:05:22 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

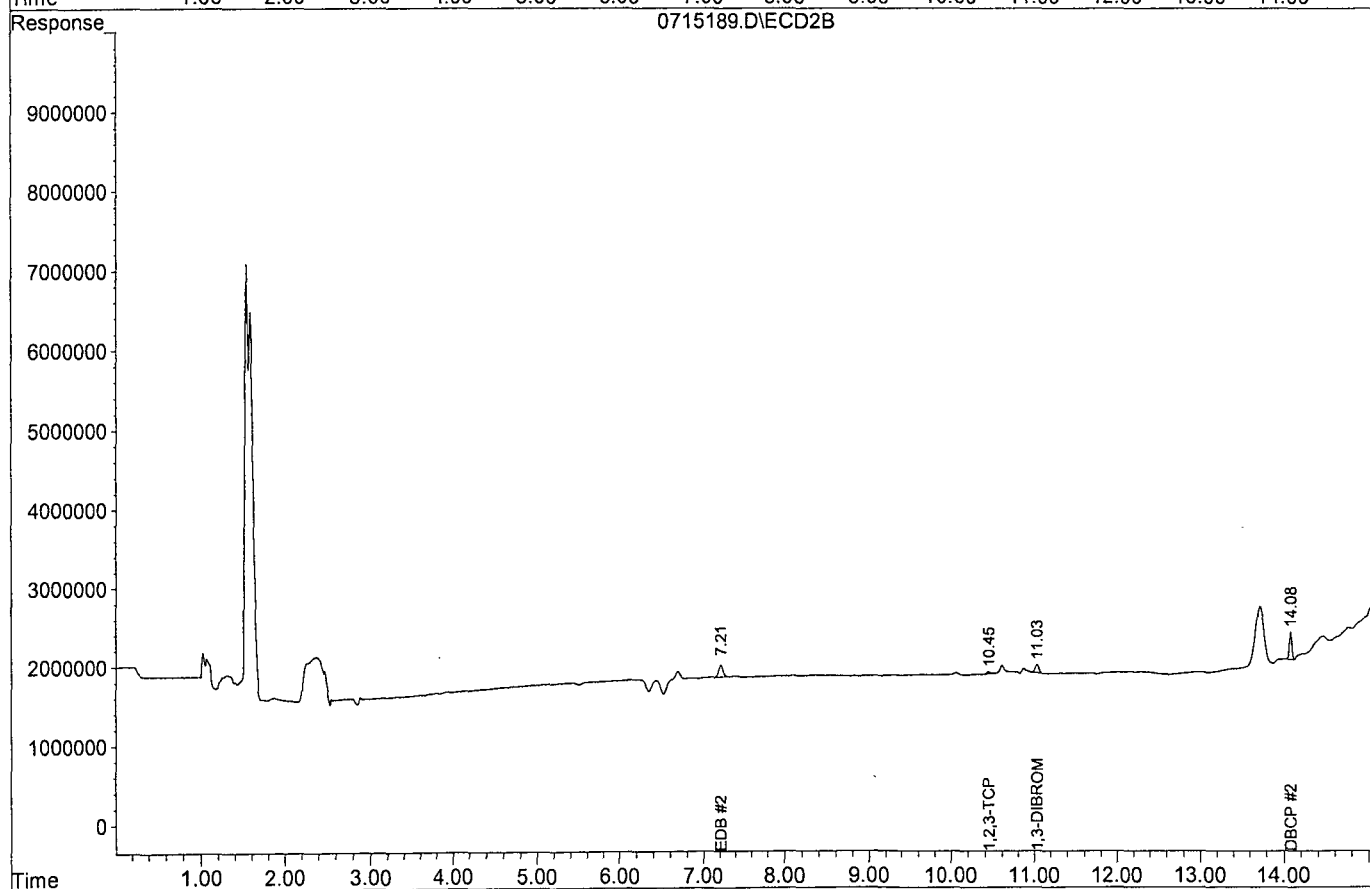
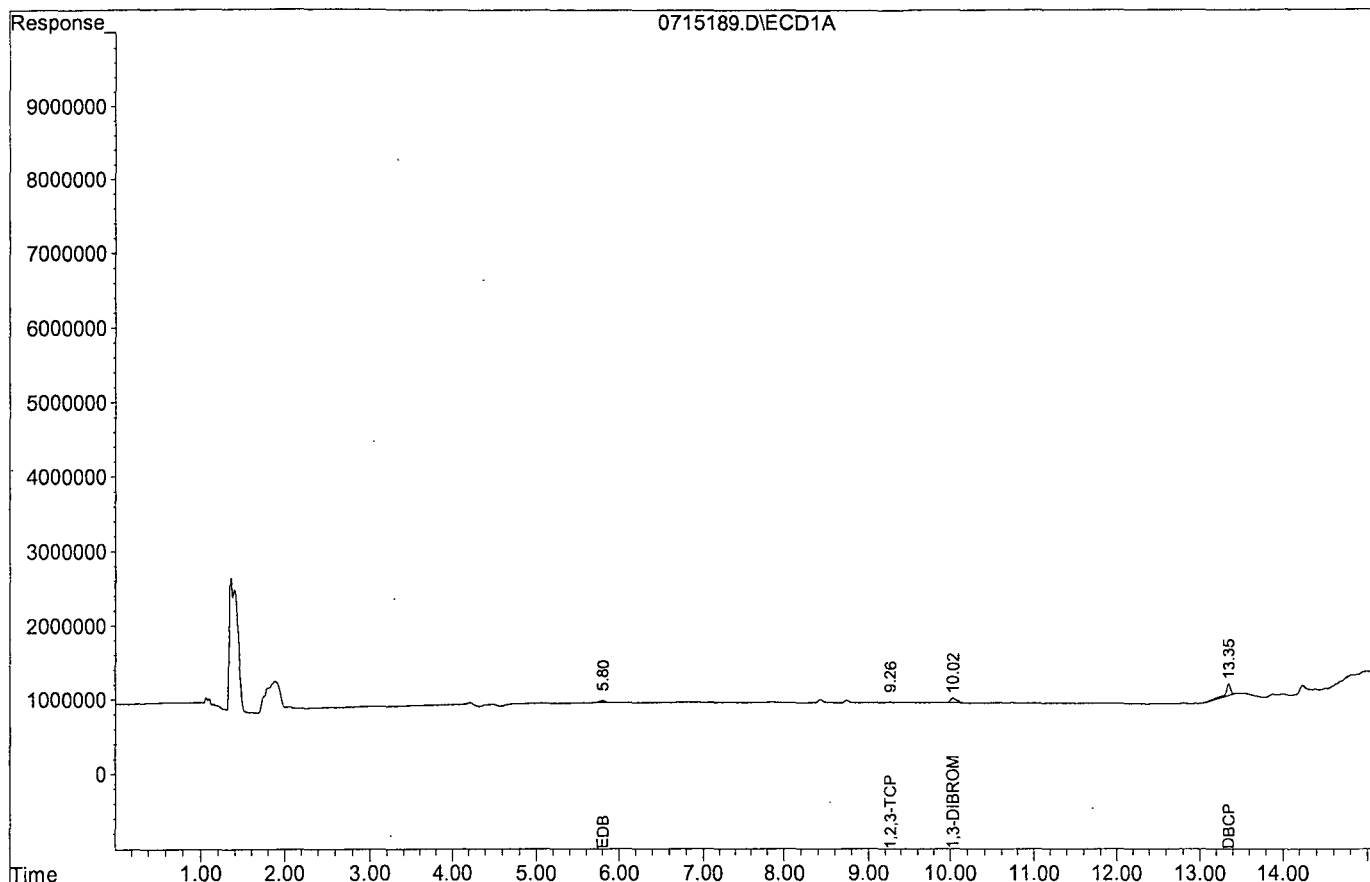
Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
3) S 1,3-DIBROMOPROPA	10.02	11.03	60265	103422	0.031	0.024
Spiked Amount	0.350		Recovery	=	8.86%	6.86%
Target Compounds						
1) TM EDB	5.80	7.21	27130	149490	0.021	0.024
2) TM 1,2,3-TCP	9.26	10.45	11908	25729	0.024	0.023
4) TM DBCP	13.35	14.08	158355	358825	0.024	0.020

Target Compounds

Data File : G:\HERBIE\DATA\190715\0715189.D
Acq On : 08-06-19 16:29:55
Sample : 8011 1 8/6/19
Misc :
Quant Method : G:\HERBIE\DATA\190402\8011806A.M

Vial: 89
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



Signal #1 : G:\HERBIE\DATA\190715\0715190.D\ECD1A.CH Vial: 90
 Signal #2 : G:\HERBIE\DATA\190715\0715190.D\ECD2B.CH
 Acq On : 08-06-19 16:50:15 Operator: MA,SS
 Sample : 8011 2 8/6/19 Inst : Herbie
 Misc : Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Aug 7 9:06 2019 Quant Results File: 8011806A.RES

Quant Method : G:\HERBIE\DATA\190402\8011806A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Wed Aug 07 09:05:22 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

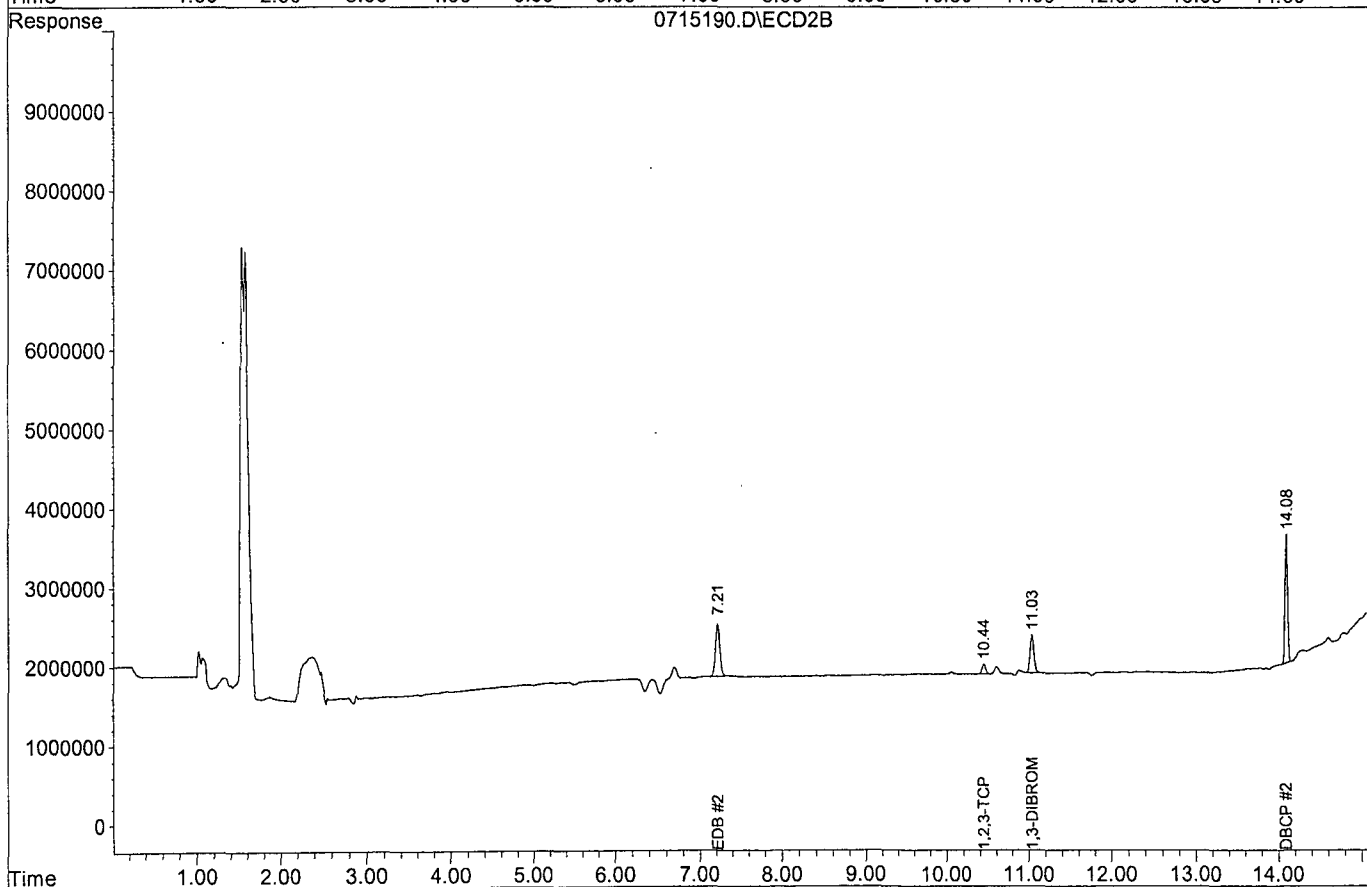
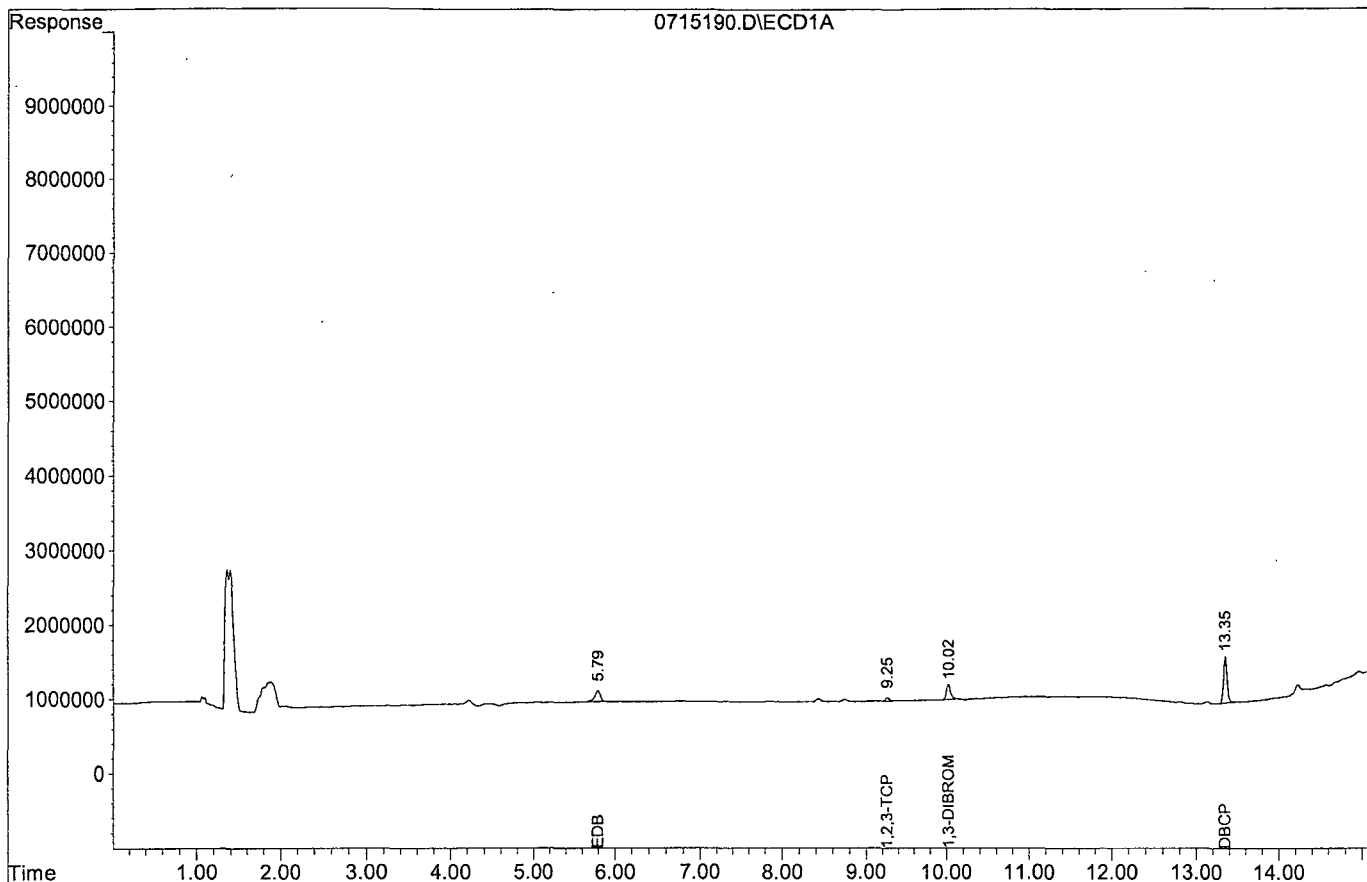
Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
3) S 1,3-DIBROMOPROPA	10.02	11.03	206330	483409	0.108	0.113
Spiked Amount	0.350		Recovery	=	30.86%	32.29%
Target Compounds						
1) TM EDB	5.79	7.21	150299	661047	0.114	0.106
2) TM 1,2,3-TCP	9.25	10.44	48237	126875	0.098	0.112
4) TM DBCP	13.35	14.08	634501	1639178	0.097	0.094

Target Compounds

Data File : G:\HERBIE\DATA\190715\0715190.D
Acq On : 08-06-19 16:50:15
Sample : 8011 2 8/6/19
Misc :
Quant Method : G:\HERBIE\DATA\190402\8011806A.M

Vial: 90
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



Signal #1 : G:\HERBIE\DATA\190715\0715191.D\ECD1A.CH Vial: 91
 Signal #2 : G:\HERBIE\DATA\190715\0715191.D\ECD2B.CH
 Acq On : 08-06-19 17:10:43 Operator: MA,SS
 Sample : 8011 3 8/6/19 Inst : Herbie
 Misc : Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Aug 7 9:06 2019 Quant Results File: 8011806A.RES

Quant Method : G:\HERBIE\DATA\190402\8011806A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Wed Aug 07 09:05:22 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

3) S 1,3-DIBROMOPROPA	10.02	11.03	492627	1081324	0.257	0.252
Spiked Amount	0.350		Recovery	=	73.43%	72.00%

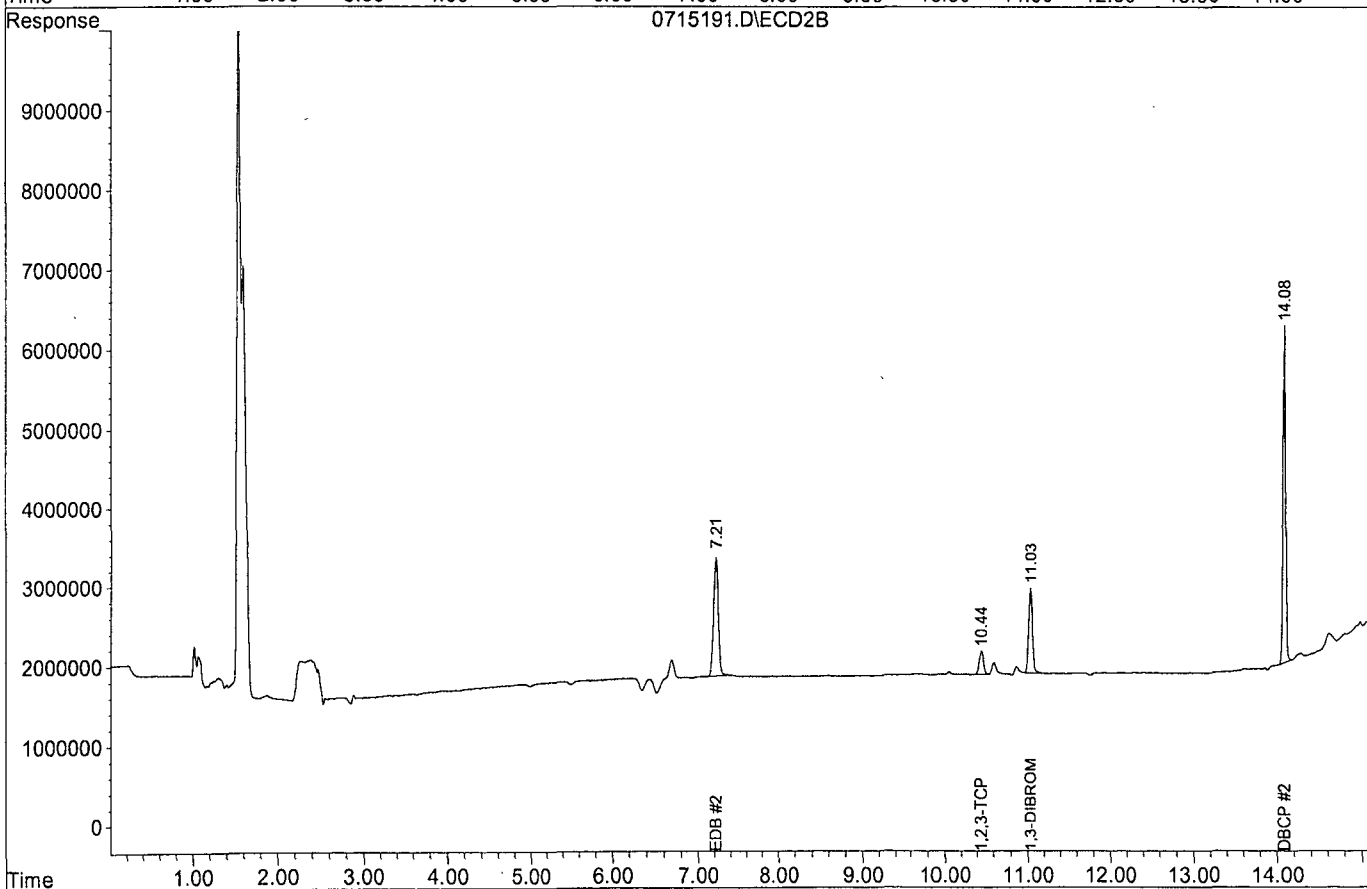
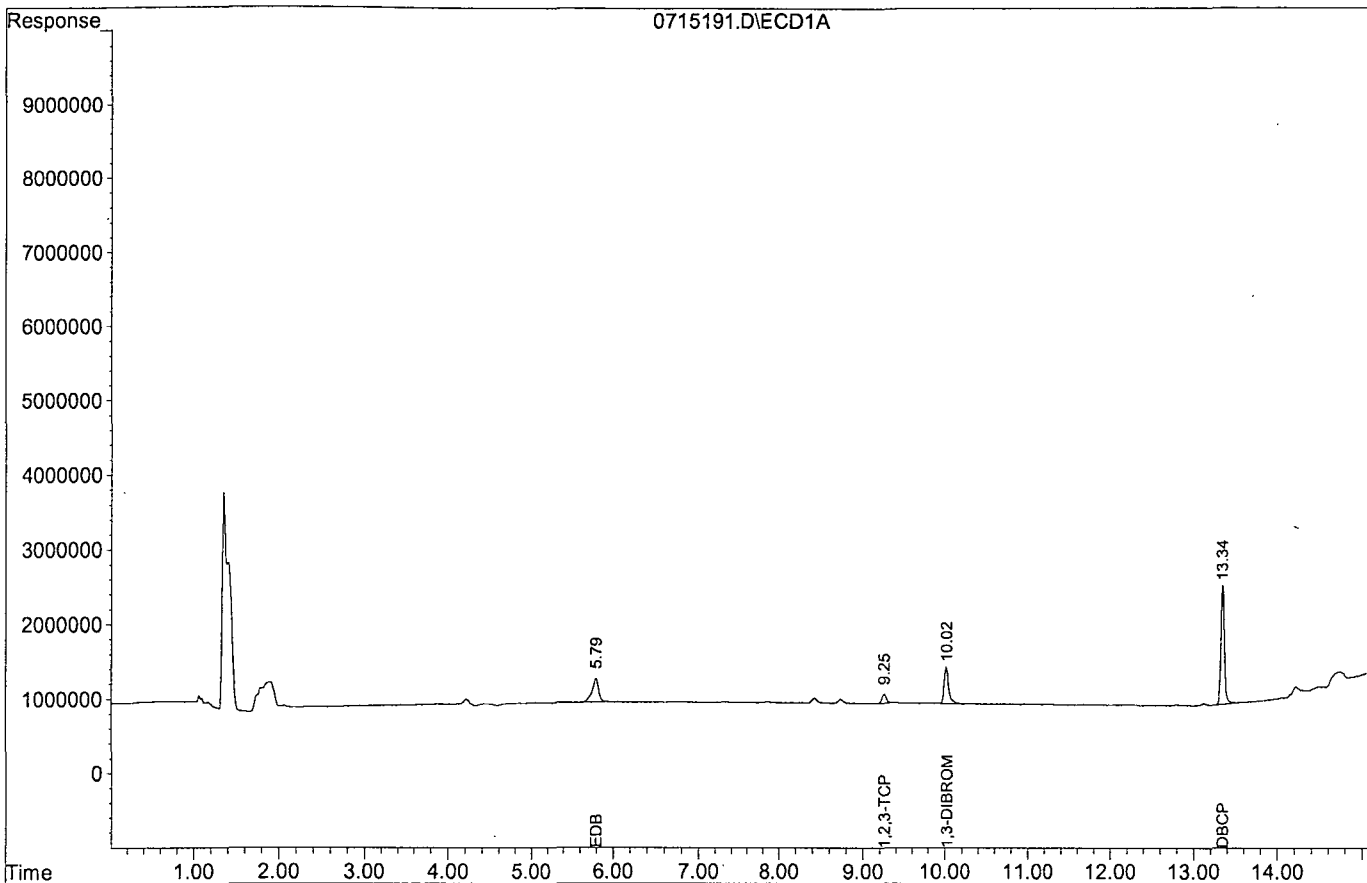
Target Compounds

1) TM EDB	5.79	7.21	312665	1497432	0.237	0.240
2) TM 1,2,3-TCP	9.25	10.44	122805	292272	0.250	0.258
4) TM DBCP	13.34	14.08	1590032	4260043	0.242	0.243

Target Compounds

Data File : G:\HERBIE\DATA\190715\0715191.D
Acq On : 08-06-19 17:10:43
Sample : 8011 3 8/6/19
Misc :
Quant Method : G:\HERBIE\DATA\190402\8011806A.M

Vial: 91
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



Signal #1 : G:\HERBIE\DATA\190715\0715192.D\ECD1A.CH Vial: 92
 Signal #2 : G:\HERBIE\DATA\190715\0715192.D\ECD2B.CH
 Acq On : 08-06-19 17:31:06 Operator: MA,SS
 Sample : 8011 4 8/6/19 Inst : Herbie
 Misc : Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Aug 7 9:06 2019 Quant Results File: 8011806A.RES

Quant Method : G:\HERBIE\DATA\190402\8011806A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Wed Aug 07 09:05:22 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

3) S 1,3-DIBROMOPROPA	10.02	11.03	928683	1601716	0.484	0.373
Spiked Amount	0.350		Recovery	=	138.29%	106.57%

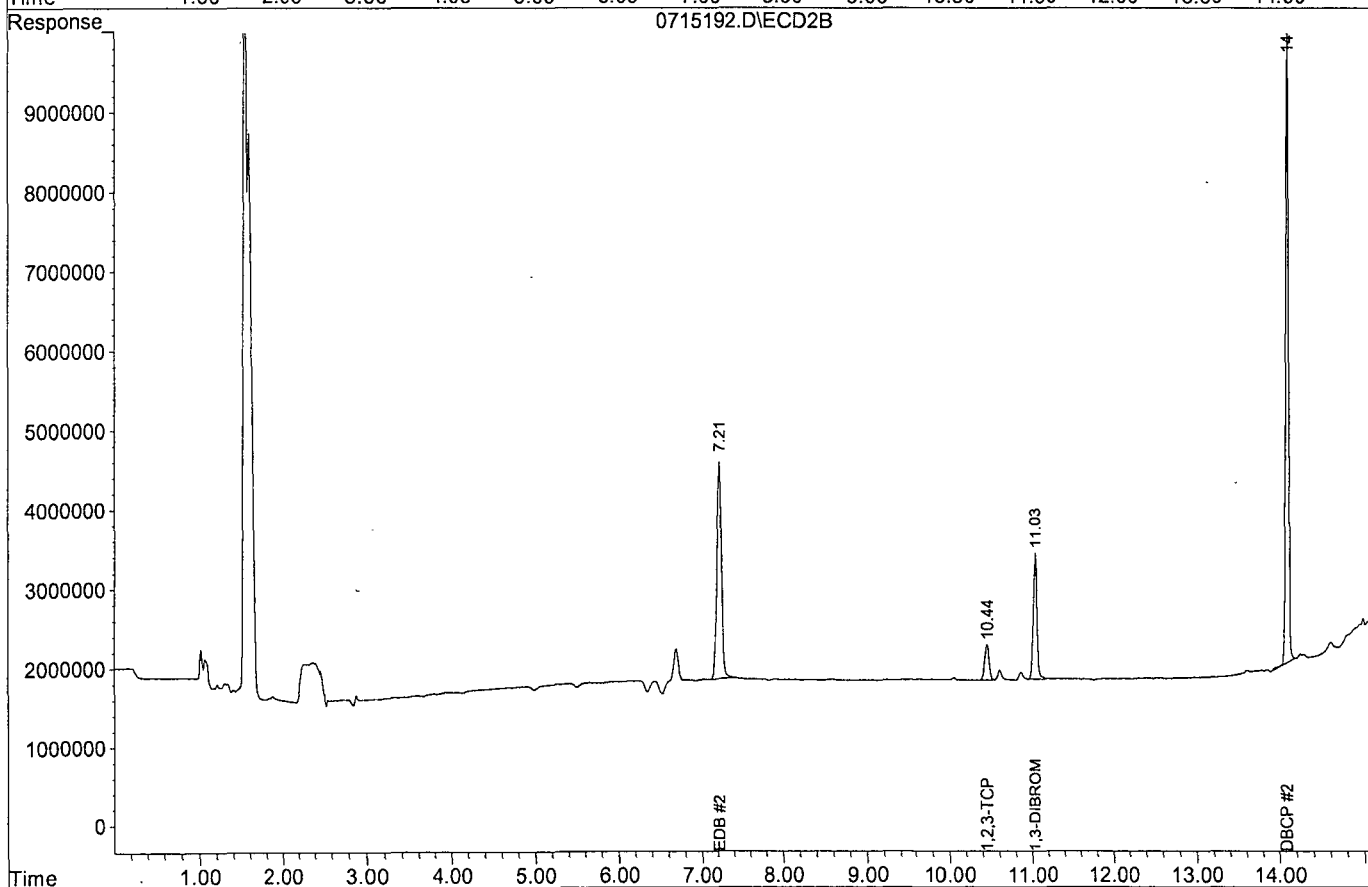
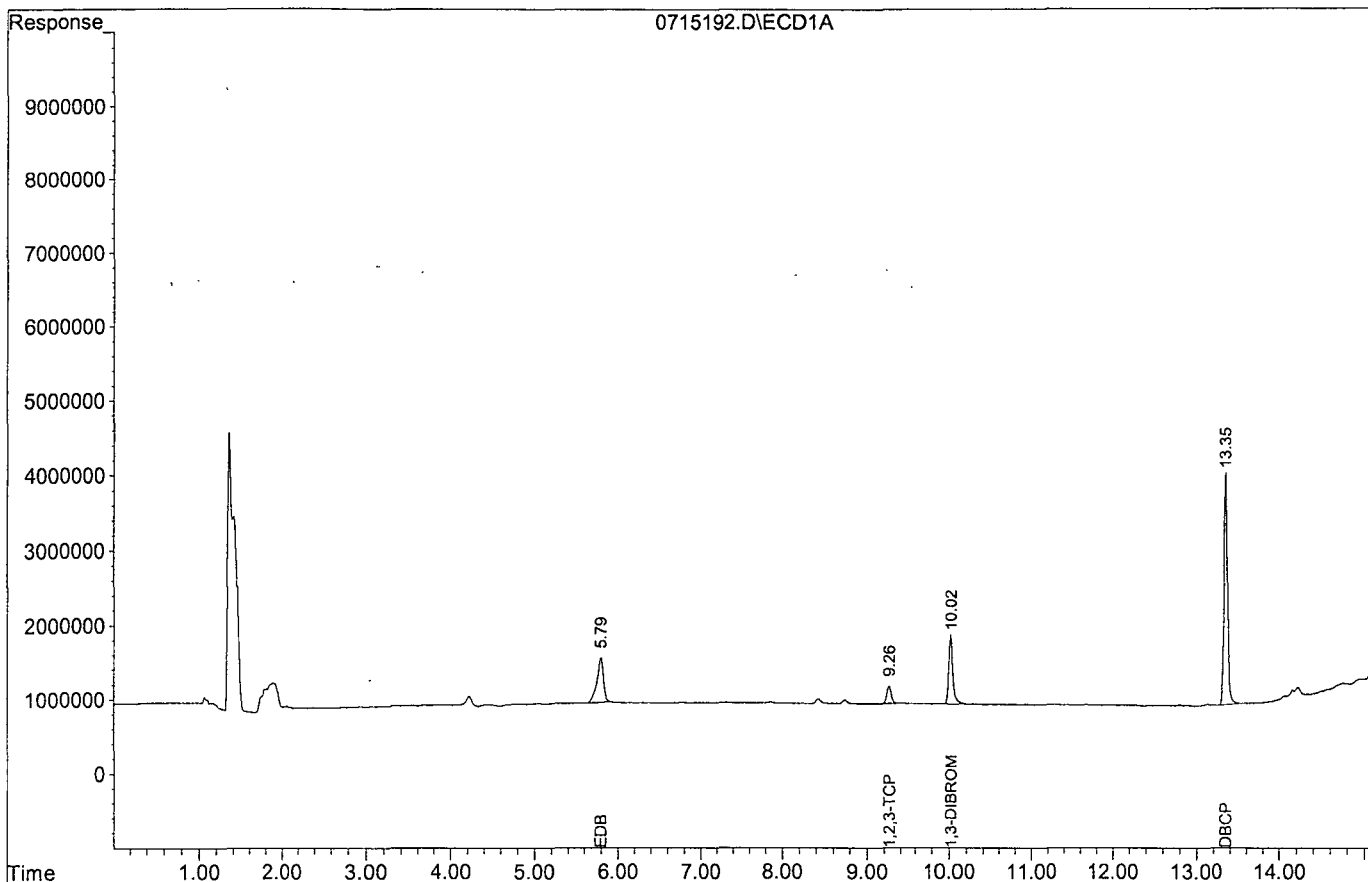
Target Compounds

1) TM EDB	5.79	7.21	601070	2742826	0.455	0.440
2) TM 1,2,3-TCP	9.26	10.44	231460	452822	0.472	0.399
4) TM DBCP	13.35	14.08	3105020	8683575	0.472	0.496

Target Compounds

Data File : G:\HERBIE\DATA\190715\0715192.D
Acq On : 08-06-19 17:31:06
Sample : 8011 4 8/6/19
Misc :
Quant Method : G:\HERBIE\DATA\190402\8011806A.M

Vial: 92
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



Signal #1 : G:\HERBIE\DATA\190715\0715193.D\ECD1A.CH Vial: 93
 Signal #2 : G:\HERBIE\DATA\190715\0715193.D\ECD2B.CH
 Acq On : 08-06-19 17:51:25 Operator: MA,SS
 Sample : 8011 5 8/6/19 Inst : Herbie
 Misc : Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Aug 7 9:06 2019 Quant Results File: 8011806A.RES

Quant Method : G:\HERBIE\DATA\190402\8011806A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Wed Aug 07 09:05:22 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

3) S 1,3-DIBROMOPROPA	10.02	11.03	1392780	3094742	0.726	0.720
Spiked Amount	0.350		Recovery	=	207.43%	205.71%

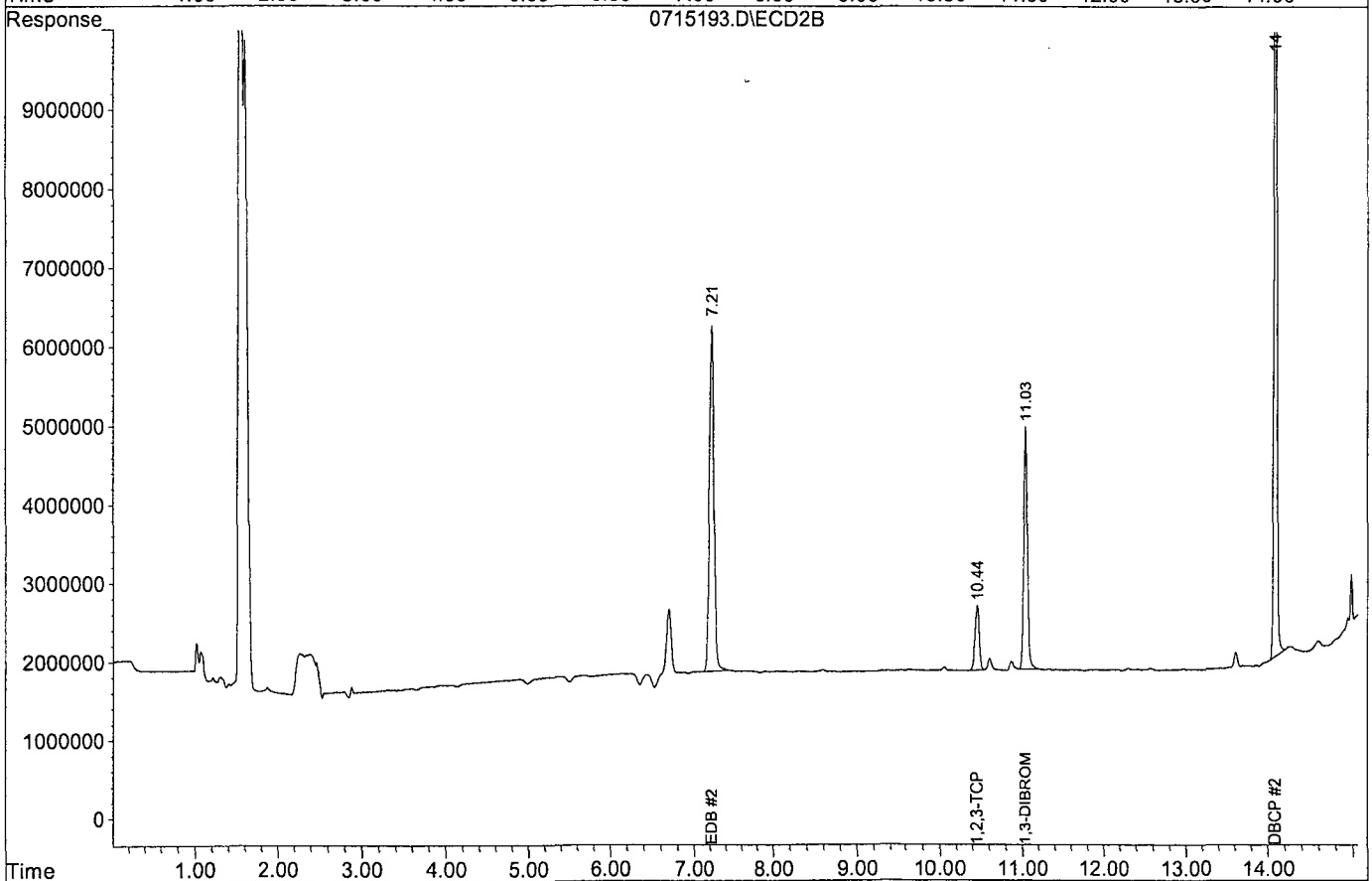
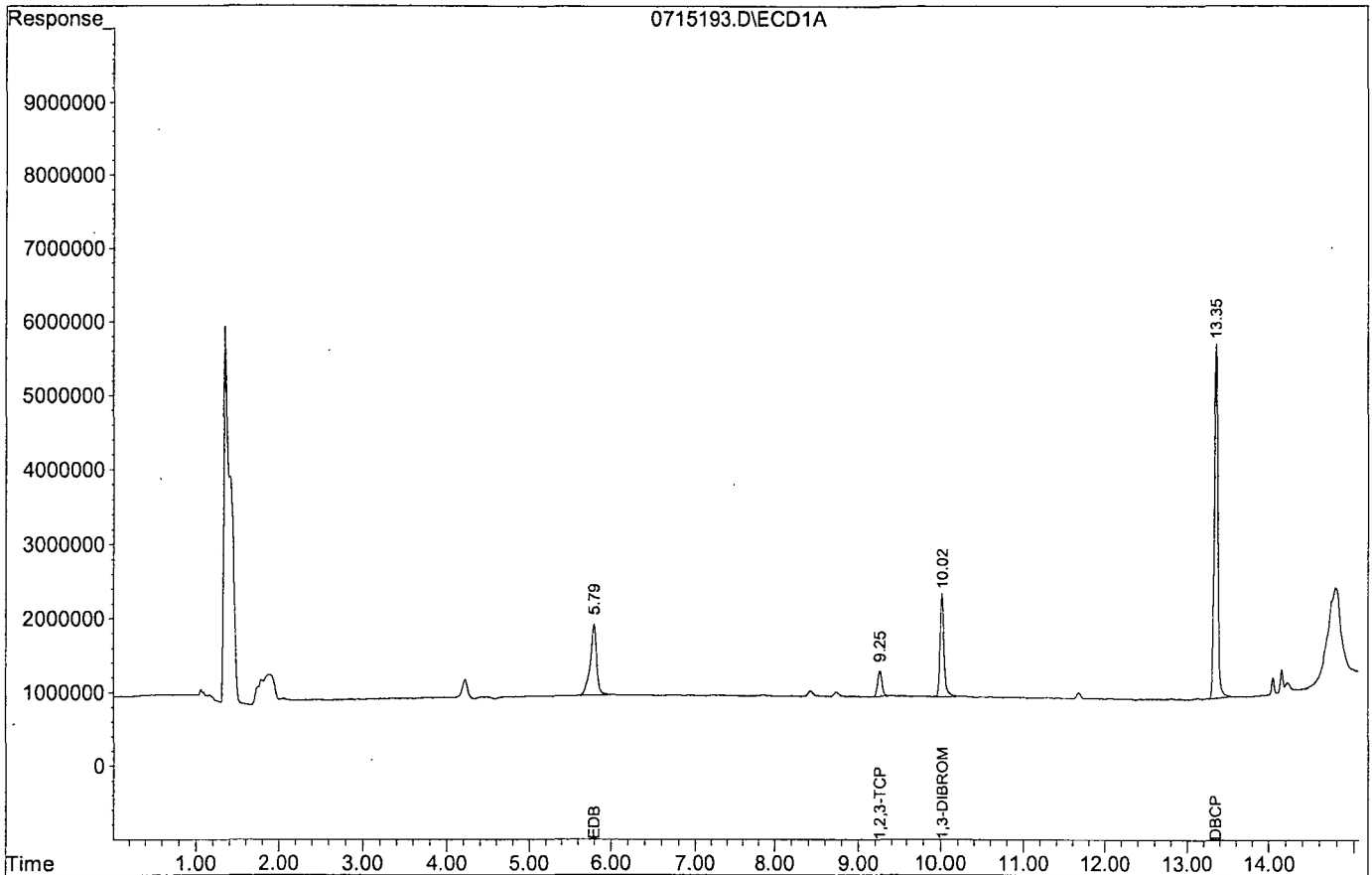
Target Compounds

1) TM EDB	5.79	7.21	961740	4391496	0.728	0.704
2) TM 1,2,3-TCP	9.25	10.44	343157	829452	0.700	0.731
4) TM DBCP	13.35	14.08	4780117	13574791	0.727	0.775

Target Compounds

Data File : G:\HERBIE\DATA\190715\0715193.D
Acq On : 08-06-19 17:51:25
Sample : 8011 5 8/6/19
Misc :
Quant Method : G:\HERBIE\DATA\190402\8011806A.M

Vial: 93
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



Signal #1 : G:\HERBIE\DATA\190715\0715194.D\ECD1A.CH Vial: 94
 Signal #2 : G:\HERBIE\DATA\190715\0715194.D\ECD2B.CH
 Acq On : 08-06-19 18:11:47 Operator: MA,SS
 Sample : 8011 6 8/6/19 Inst : Herbie
 Misc : Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Aug 7 9:06 2019 Quant Results File: 8011806A.RES

Quant Method : G:\HERBIE\DATA\190402\8011806A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Wed Aug 07 09:05:22 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

3) S 1,3-DIBROMOPROPA	10.02	11.04	1842248	4118874	0.960	0.959
Spiked Amount	0.350		Recovery	=	274.29%	274.00%

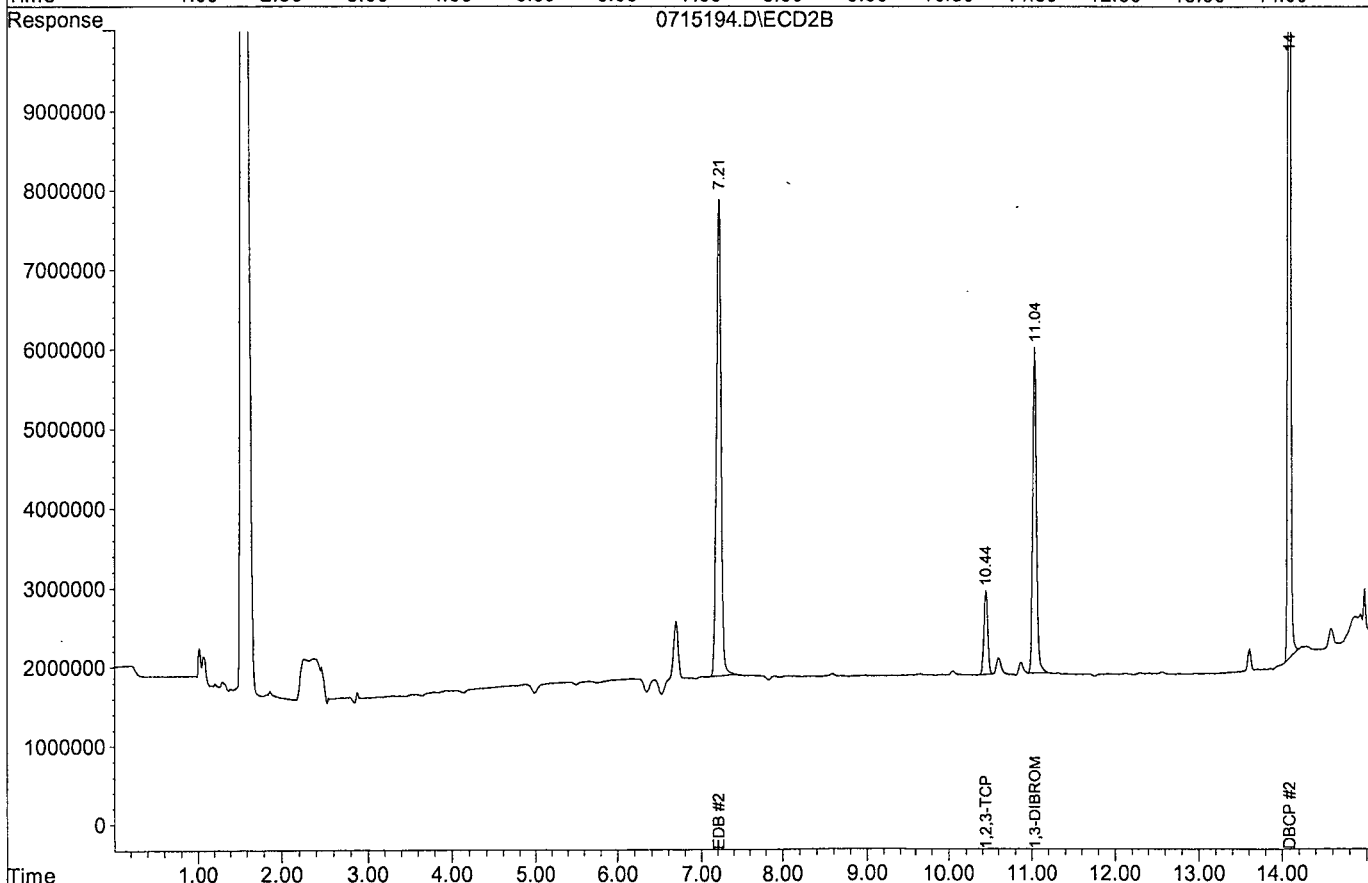
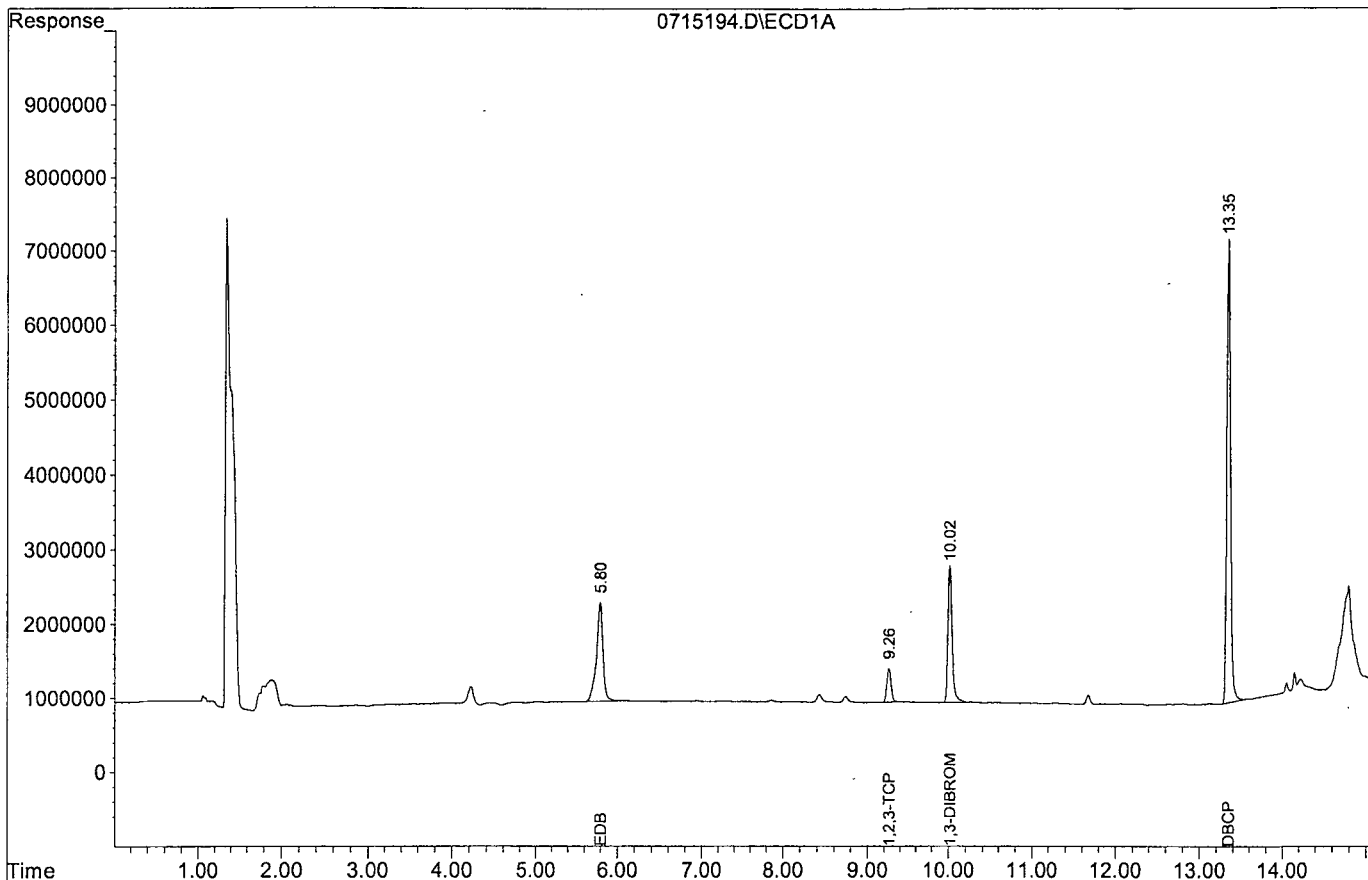
Target Compounds

1) TM EDB	5.80	7.21	1331692	6016472	1.008	0.964
2) TM 1,2,3-TCP	9.26	10.44	452143	1070658	0.922	0.944
4) TM DBCP	13.35	14.09	6223038	18254016	0.947	1.042

Target Compounds

Data File : G:\HERBIE\DATA\190715\0715194.D
Acq On : 08-06-19 18:11:47
Sample : 8011 6 8/6/19
Misc :
Quant Method : G:\HERBIE\DATA\190402\8011806A.M

Vial: 94
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 7

Second Source Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 08/06/19

Matrix: _____

Instrument: Herbie

Initial Cal. Date: 08/06/19

Data File: 0715195.D

		Compound	MEAN	CCRF	%D	%Drift
1	TM	EDB	660525	788870	19	TM
2	TM	1,2,3-TCP	245133	290495	19	TM
3	TM	DBCP	3285790	4003020	22	TM
4						
5						
6						
7						
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37						
38						
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40						

Average

20.0

DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 08/06/19
Instrument: Herbie
Cal. Date: 08/06/19
Data File: 0715195.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	EDB	3119350	3679580	18	TM
42	TM	1,2,3-TCP	567211	718070	27	TM *
43	TM	DBCP	8757840	10873900	24	TM *
44						
45						
46						
47						
48						
49						
50						
51						
52						
53						
54						
55						
56						
57						
58						
59						
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63						
64						
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						
75						
76						
77						
78						
79						
80						

Average

23.0

Signal #1 : G:\HERBIE\DATA\190715\0715195.D\ECD1A.CH Vial: 95
 Signal #2 : G:\HERBIE\DATA\190715\0715195.D\ECD2B.CH
 Acq On : 08-06-19 18:32:03 Operator: MA,SS
 Sample : 8011 SS 8/6/19 Inst : Herbie
 Misc : Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Aug 7 9:06 2019 Quant Results File: 8011806A.RES

Quant Method : G:\HERBIE\DATA\190402\8011806A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Wed Aug 07 09:05:22 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

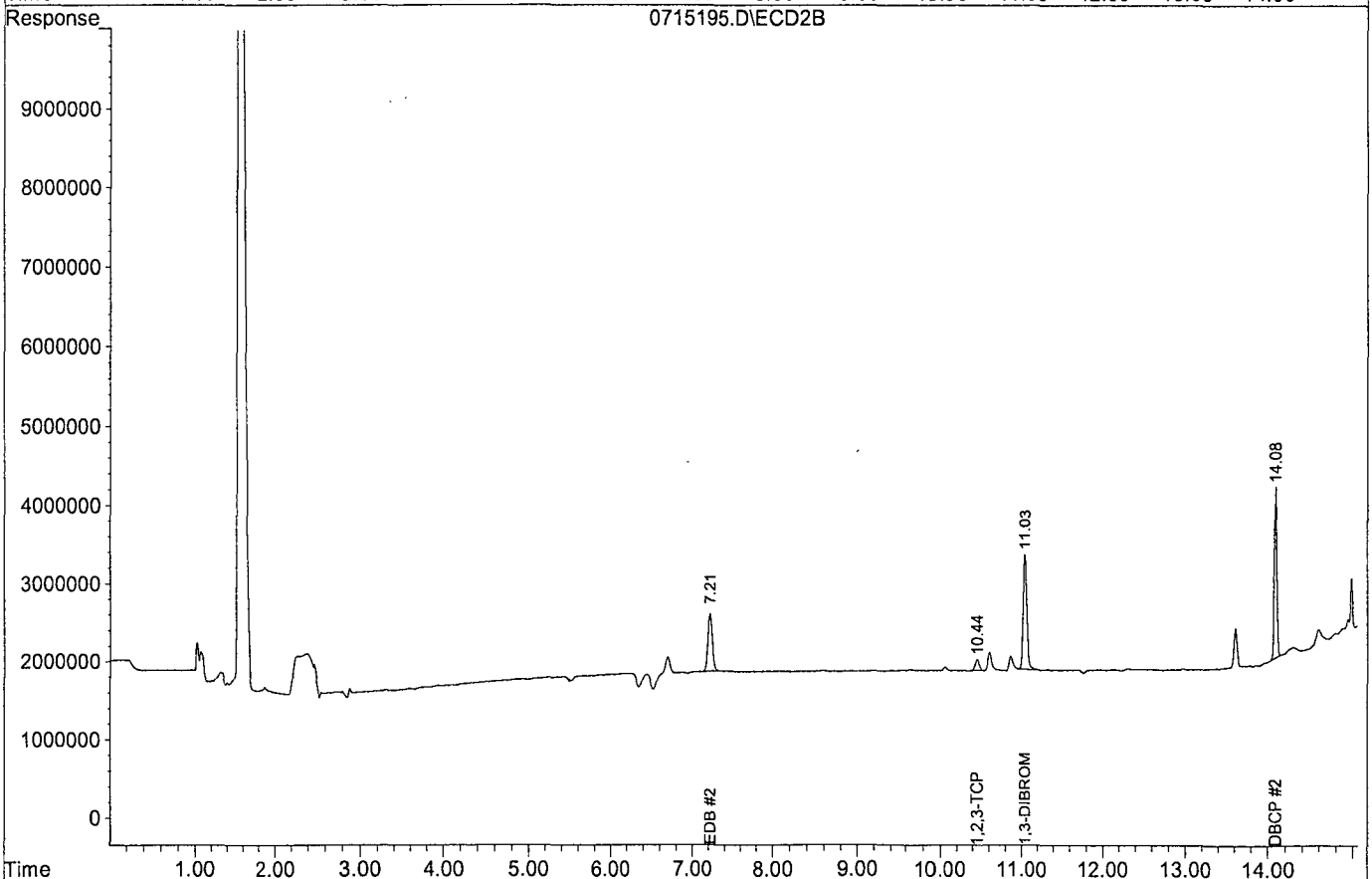
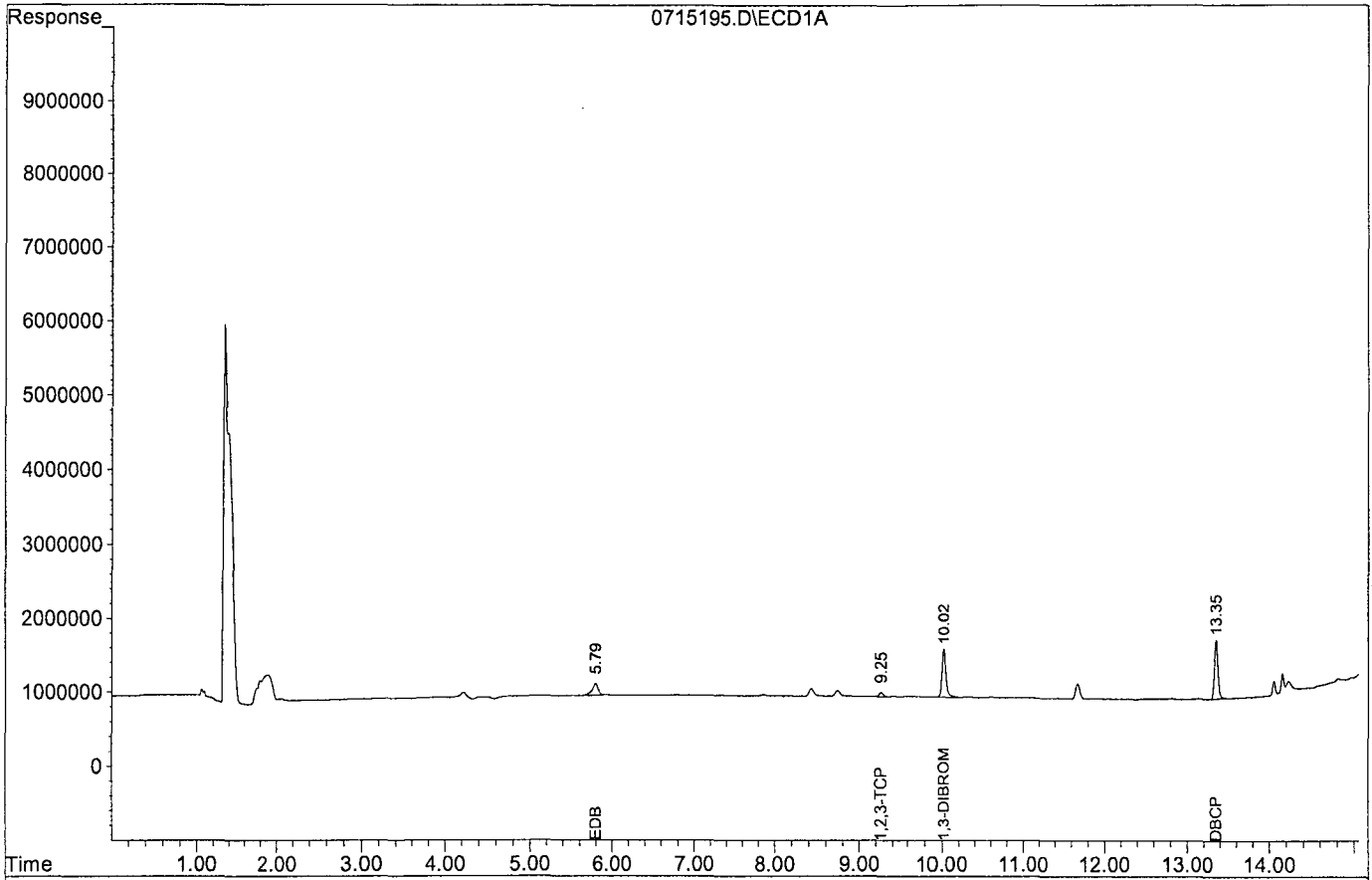
System Monitoring Compounds						
3) S 1,3-DIBROMOPROPA	10.02	11.03	652193	1468449	0.340	0.342
Spiked Amount	0.350		Recovery	=	97.14%	97.71%
Target Compounds						
1) TM EDB	5.79	7.21	157774	735915	0.119	0.118
2) TM 1,2,3-TCP	9.25	10.44	58099	143614	0.119	0.127
4) TM DBCP	13.35	14.08	800604	2174786	0.122	0.124

Target Compounds

Quantitation Report (QT Reviewed)

Data File : G:\HERBIE\DATA\190715\0715195.D
Acq On : 08-06-19 18:32:03
Sample : 8011 SS 8/6/19
Misc :
Quant Method : G:\HERBIE\DATA\190402\8011806A.M

Vial: 95
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 08/06/19
Instrument: Herbie
Initial Cal. Date: 08/06/19
Data File: 0715209.D

		Compound	MEAN	CCRF	%D	%Drift
1	TM	EDB	660525	639906	3.1	TM
2	TM	1,2,3-TCP	245133	248478	1.4	TM
3	S	1,3-DIBROMOPROPANE(S)	959046	1010620	5.4	S
4	TM	DBCP	3285790	3312810	0.82	TM
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
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21						
22						
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24						
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26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						

Average

2.7

DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 08/06/19

Matrix: 0

Instrument: Herbie

Cal. Date: 08/06/19

Data File: 0715209.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	EDB	3119350	3087920	1.0	TM
42	TM	1,2,3-TCP	567211	602888	6.3	TM
43	S	1,3-DIBROMOPROPANE(S)	2060800	2238070	8.6	S
44	TM	DBCP	8757840	9334120	6.6	TM
45						
46						
47						
48						
49						
50						
51						
52						
53						
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65						
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67						
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69						
70						
71						
72						
73						
74						
75						
76						
77						
78						
79						
80		Average			5.6	

Signal #1 : G:\HERBIE\DATA\190715\0715209.D\ECD1A.CH Vial: 9
 Signal #2 : G:\HERBIE\DATA\190715\0715209.D\ECD2B.CH
 Acq On : 08-06-19 23:15:30 Operator: MA,SS
 Sample : 8011 3 8/6/19 Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Aug 7 9:13 2019 Quant Results File: 8011806A.RES

Quant Method : G:\HERBIE\DATA\190402\8011806A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Wed Aug 07 09:05:22 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

3) S 1,3-DIBROMOPROPA	10.02	11.03	505311	1119033	0.263	0.260
Spiked Amount	0.350		Recovery	=	75.14%	74.29%

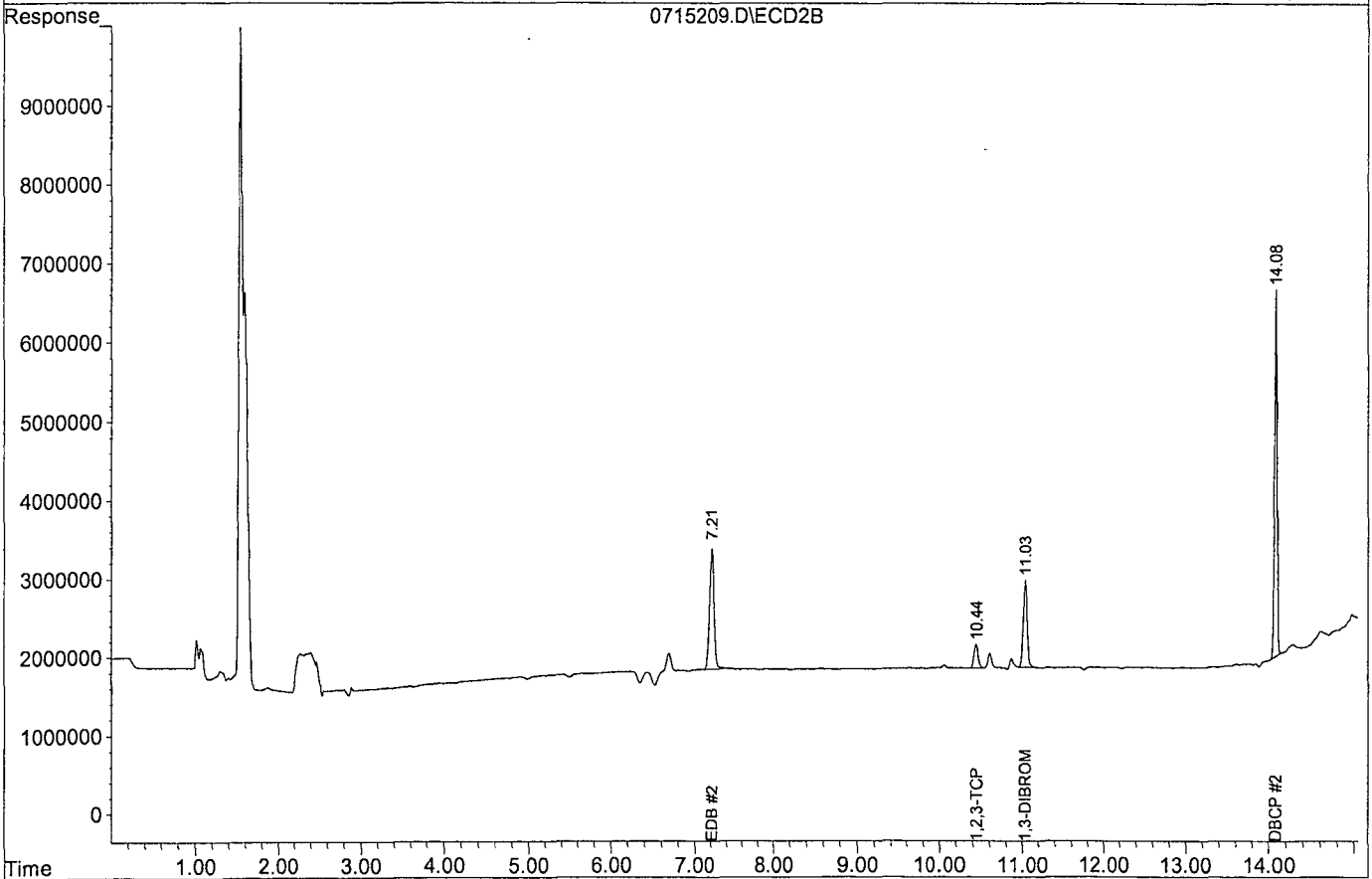
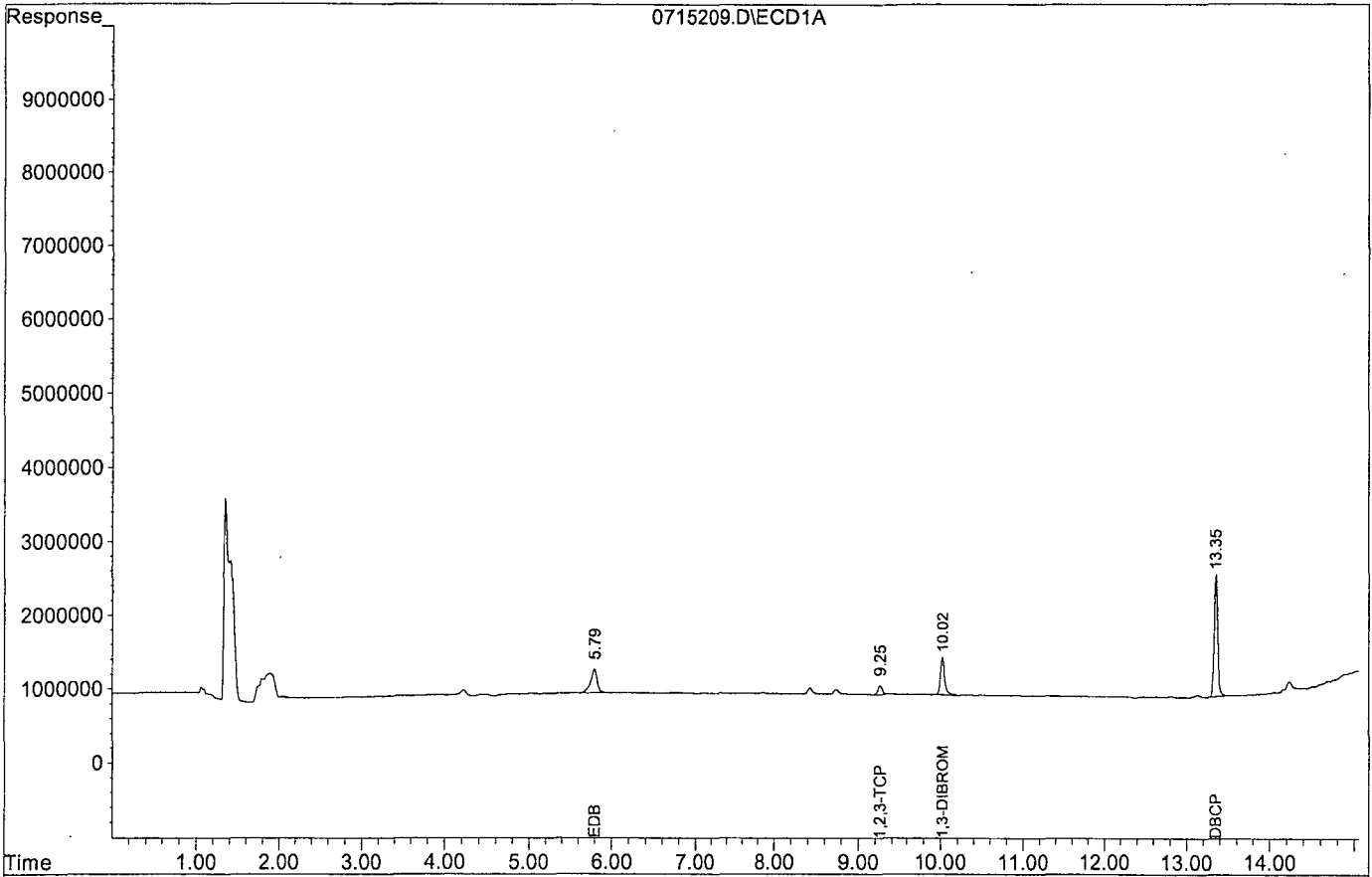
Target Compounds

1) TM EDB	5.79	7.21	319953	1543958	0.242	0.247
2) TM 1,2,3-TCP	9.25	10.44	124239	301444	0.253	0.266
4) TM DBCP	13.35	14.08	1656407	4667060	0.252	0.266

Target Compounds

Data File : G:\HERBIE\DATA\190715\0715209.D
Acq On : 08-06-19 23:15:30
Sample : 8011 3 8/6/19
Misc : water
Quant Method : G:\HERBIE\DATA\190402\8011806A.M

Vial: 9
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



ORGANICS
Raw Data

Signal #1 : G:\HERBIE\DATA\190715\0715202.D\ECD1A.CH Vial: 2
 Signal #2 : G:\HERBIE\DATA\190715\0715202.D\ECD2B.CH
 Acq On : 08-06-19 20:54:04 Operator: MA,SS
 Sample : AZ95859S01 2/35.16G Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Aug 19 18:29 2019 Quant Results File: 8011806A.RES

Quant Method : G:\HERBIE\DATA\190402\8011806A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Wed Aug 07 09:05:22 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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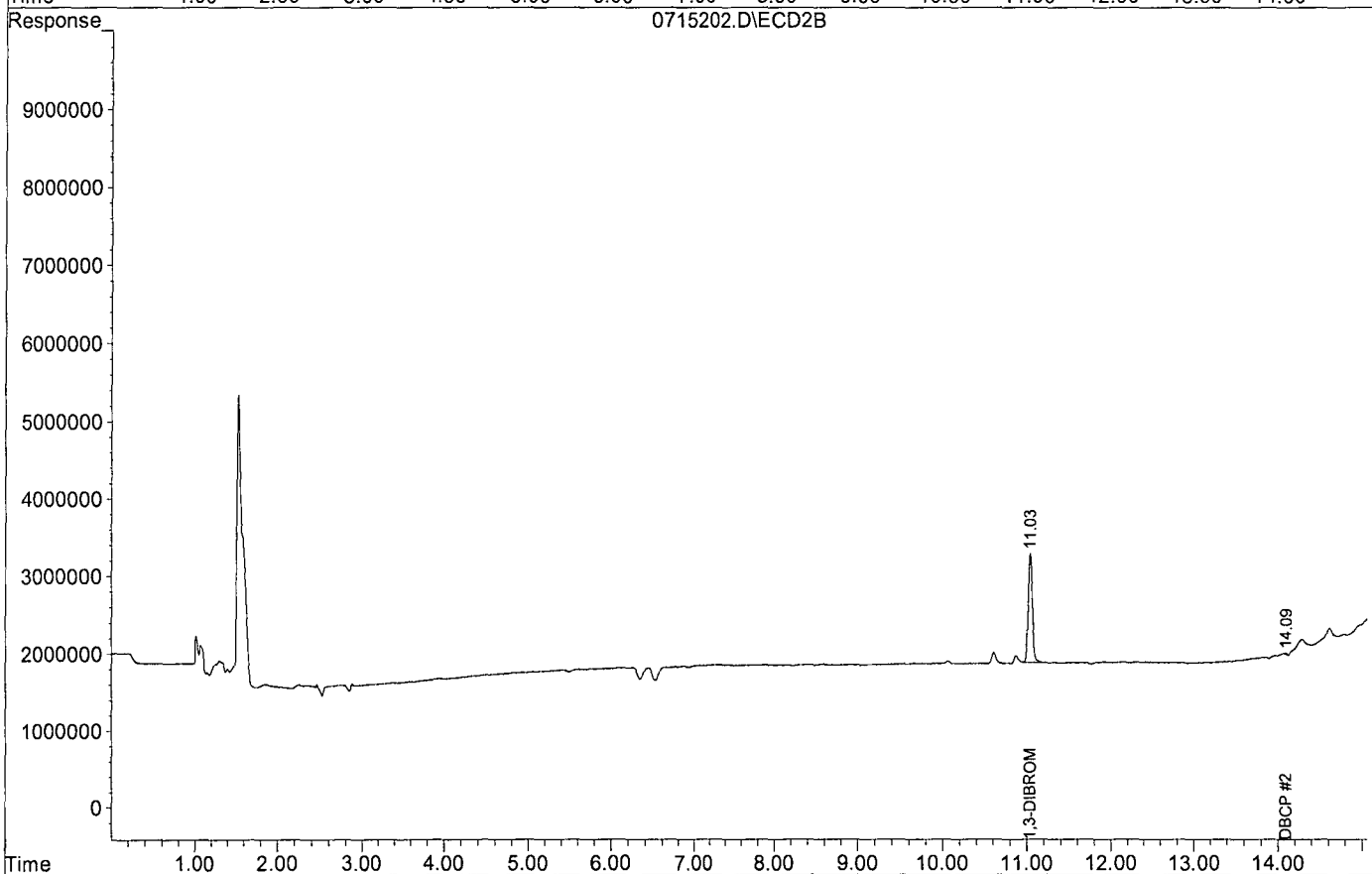
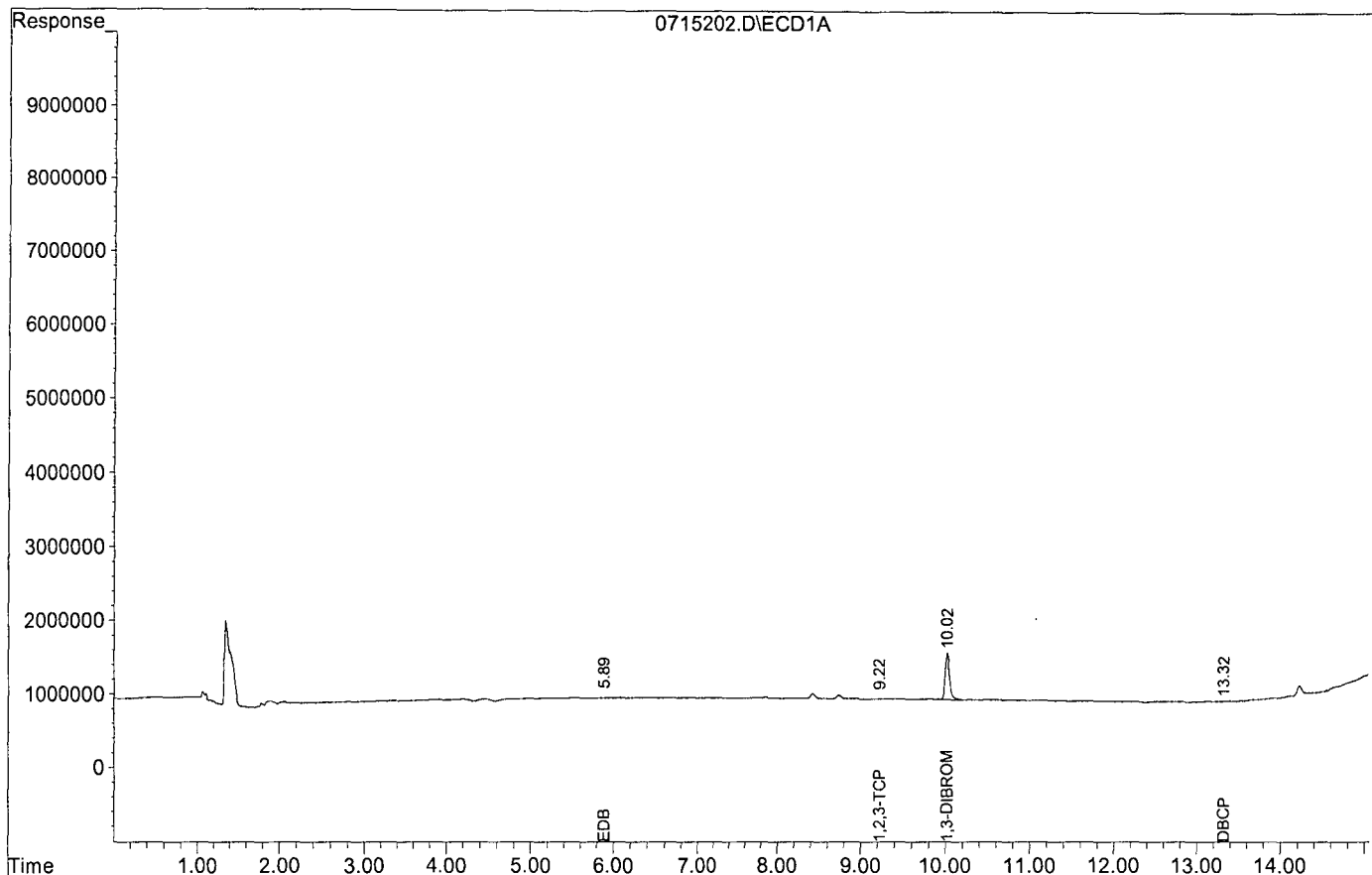
System Monitoring Compounds						
3) S 1,3-DIBROMOPROPA	10.02	11.03	629837	1410902	0.327	0.327
Spiked Amount	0.348		Recovery	=	93.86%	93.86%

Target Compounds						
1) TM EDB	5.89f	0.00	725	0	0.001	N.D. #
2) TM 1,2,3-TCP	9.22	0.00	3125	0	0.006	N.D. #
4) TM DBCP	13.32	14.09	623	17499	0.000	0.001 #

Target Compounds

Data File : G:\HERBIE\DATA\190715\0715202.D
Acq On : 08-06-19 20:54:04
Sample : AZ95859S01 2/35.16G
Misc : water
Quant Method : G:\HERBIE\DATA\190402\8011806A.M

Vial: 2
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



Signal #1 : G:\HERBIE\DATA\190715\0715203.D\ECD1A.CH Vial: 3
 Signal #2 : G:\HERBIE\DATA\190715\0715203.D\ECD2B.CH
 Acq On : 08-06-19 21:14:21 Operator: MA,SS
 Sample : AZ95860S01 2/35.09G Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Aug 19 18:29 2019 Quant Results File: 8011806A.RES

Quant Method : G:\HERBIE\DATA\190402\8011806A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Wed Aug 07 09:05:22 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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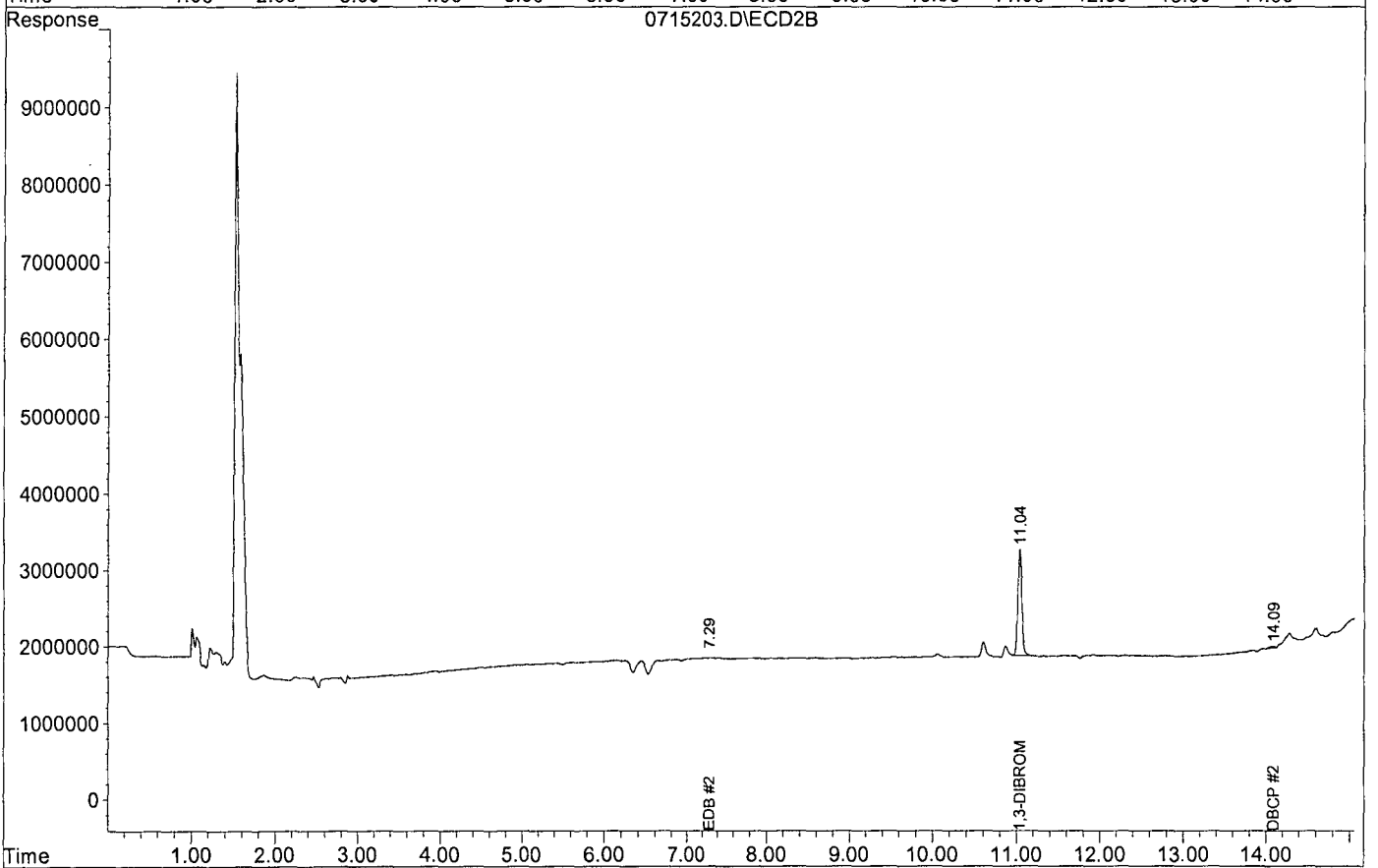
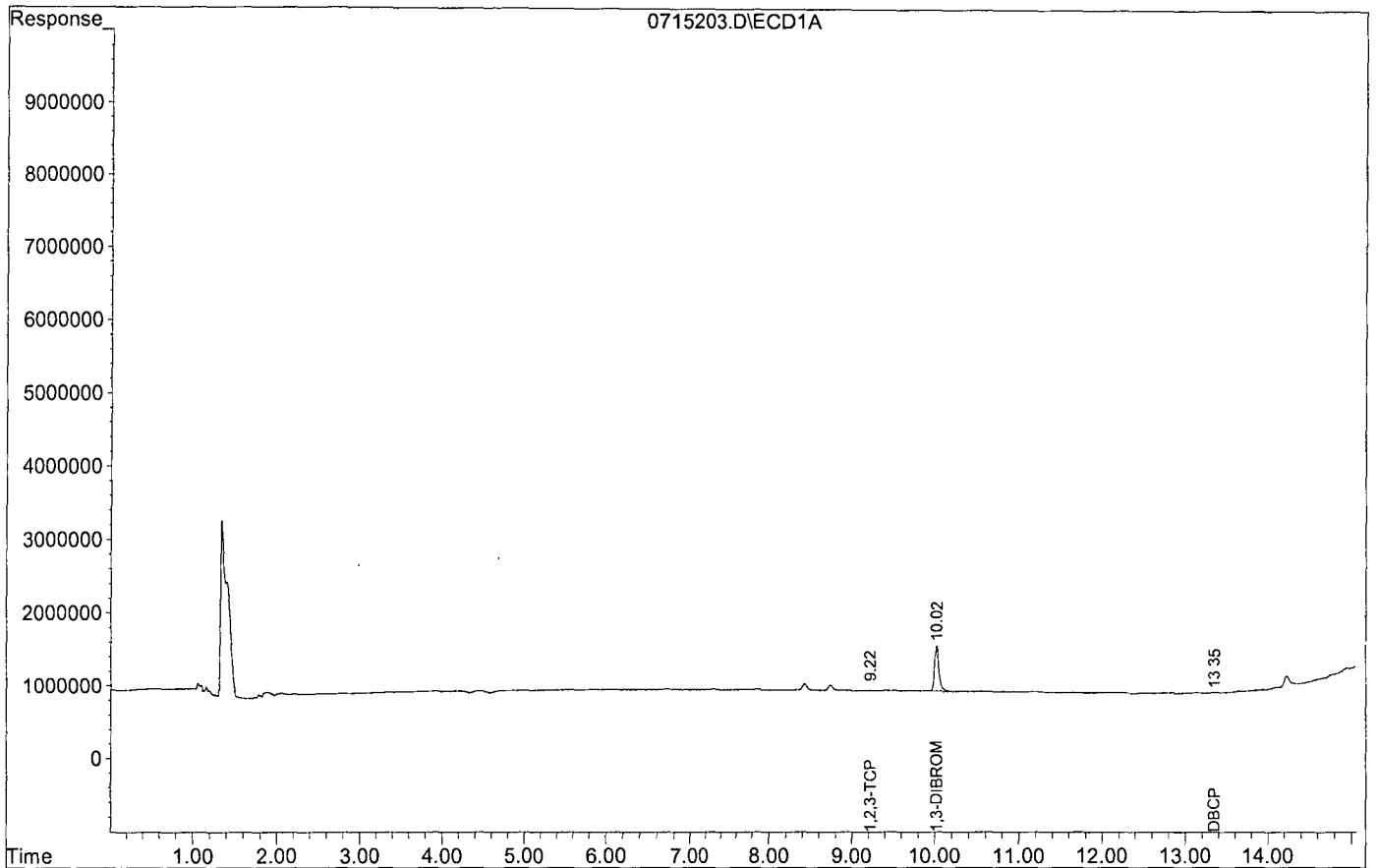
System Monitoring Compounds							
3) S	1,3-DIBROMOPROPA	10.02	11.04	625156	1393427	0.325	0.323
	Spiked Amount	0.349		Recovery	=	93.10%	92.52%

Target Compounds							
1) TM	EDB	0.00	7.29f	0	2976	N.D.	0.000 #
2) TM	1,2,3-TCP	9.22	0.00	2395	0	0.005	N.D. #
4) TM	DBCP	13.35	14.09	1018	25408	0.000	0.001 #

Target Compounds

Data File : G:\HERBIE\DATA\190715\0715203.D
Acq On : 08-06-19 21:14:21
Sample : AZ95860S01 2/35.09G
Misc : water
Quant Method : G:\HERBIE\DATA\190402\8011806A.M

Vial: 3
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



Signal #1 : G:\HERBIE\DATA\190715\0715196.D\ECD1A.CH Vial: 96
 Signal #2 : G:\HERBIE\DATA\190715\0715196.D\ECD2B.CH
 Acq On : 08-06-19 18:52:22 Operator: MA,SS
 Sample : 190805A BLK 2/35.73G Inst : Herbie
 Misc : water Multiplr: 0.98
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Aug 19 18:33 2019 Quant Results File: 8011806A.RES

Quant Method : G:\HERBIE\DATA\190402\8011806A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Wed Aug 07 09:05:22 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
----------	------	------	--------	--------	------	------

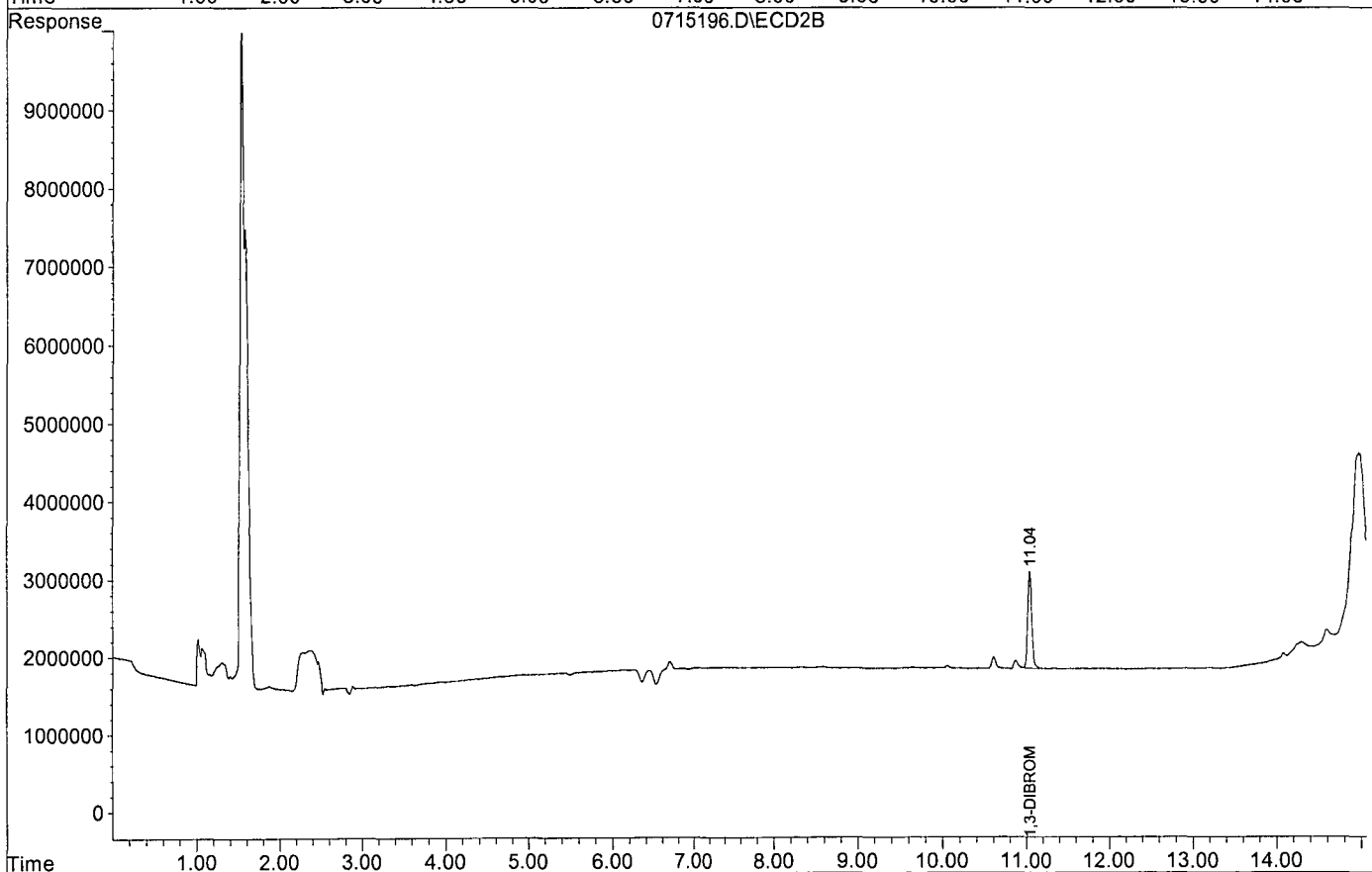
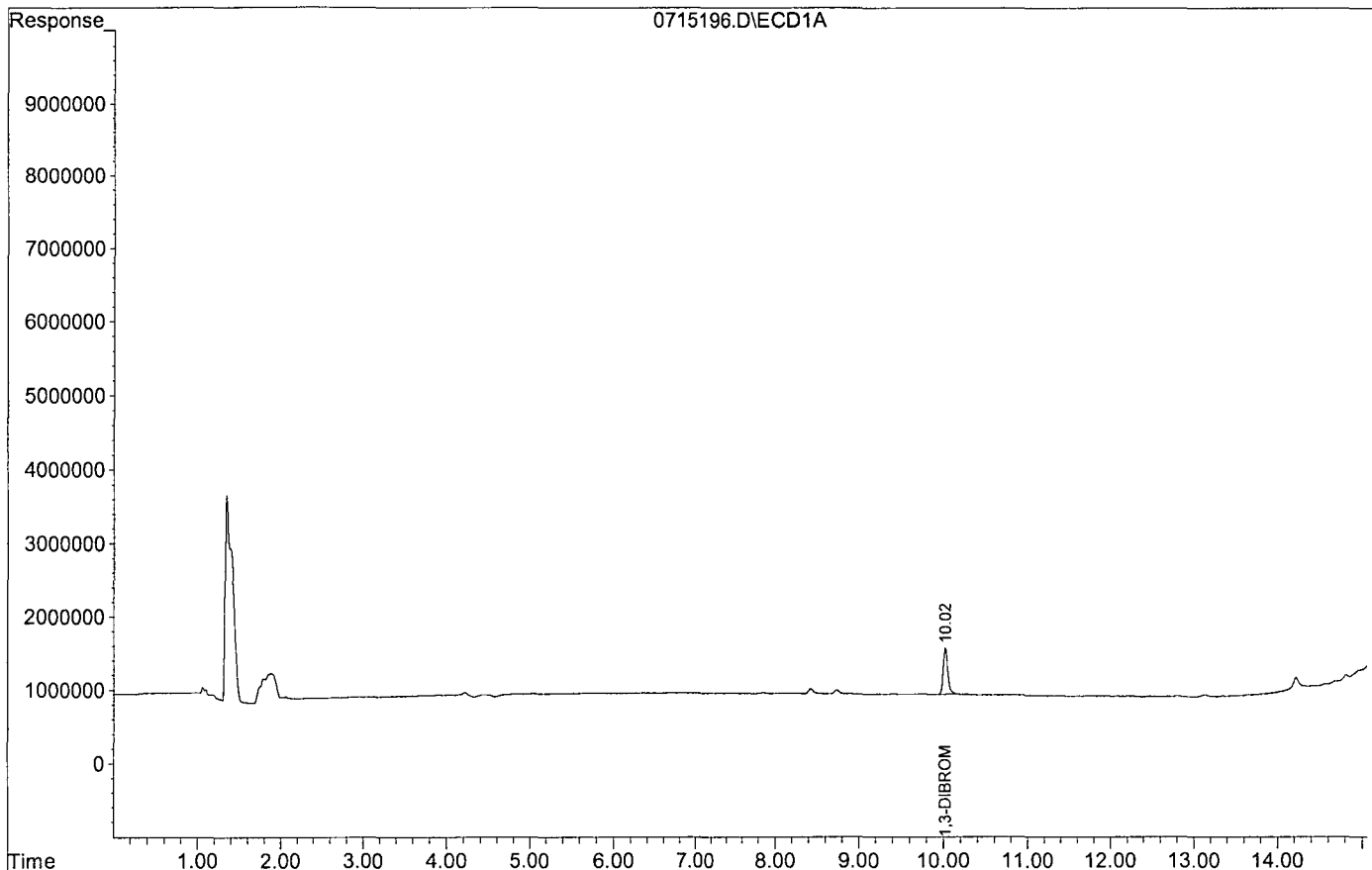
System Monitoring Compounds							
3) S	1,3-DIBROMOPROPA	10.02	11.04	631672	1260131	0.323	0.287
	Spiked Amount	0.343		Recovery	=	94.21%	83.71%

Target Compounds

Target Compounds							
		RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
1) TM	EDB	0.00	0.00	0	0	N.D. d	N.D. d
2) TM	1,2,3-TCP	0.00	0.00	0	0	N.D. d	N.D. d
4) TM	DBCP	0.00	0.00	0	0	N.D. d	N.D. d

Data File : G:\HERBIE\DATA\190715\0715196.D
Acq On : 08-06-19 18:52:22
Sample : 190805A BLK 2/35.73G
Misc : water
Quant Method : G:\HERBIE\DATA\190402\8011806A.M

Vial: 96
Operator: MA,SS
Inst : Herbie
Multiplr: 0.98



Data File : G:\HERBIE\DATA\190715\0715197.D\ECD1A.CH Vial: 97
 Acq On : 08-06-19 19:12:46 Operator: MA,SS
 Sample : 190805A LCS-1 2/35.20G Inst : Herbie
 Misc : water Multiplr: 0.99
 IntFile : rteint.p

Data File : G:\HERBIE\DATA\190715\0715197.D\ECD2B.CH Vial: 97
 Acq On : 08-06-19 19:12:45 Operator: MA,SS
 Sample : 190805A LCS-1 2/35.20G Inst : Herbie
 Misc : Multiplr: 0.99
 IntFile : rteint2.p

Quant Time: Aug 19 18:29 2019 Quant Results File: 8011806A.RES

Quant Method : G:\HERBIE\DATA\190402\8011806A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Wed Aug 07 09:05:22 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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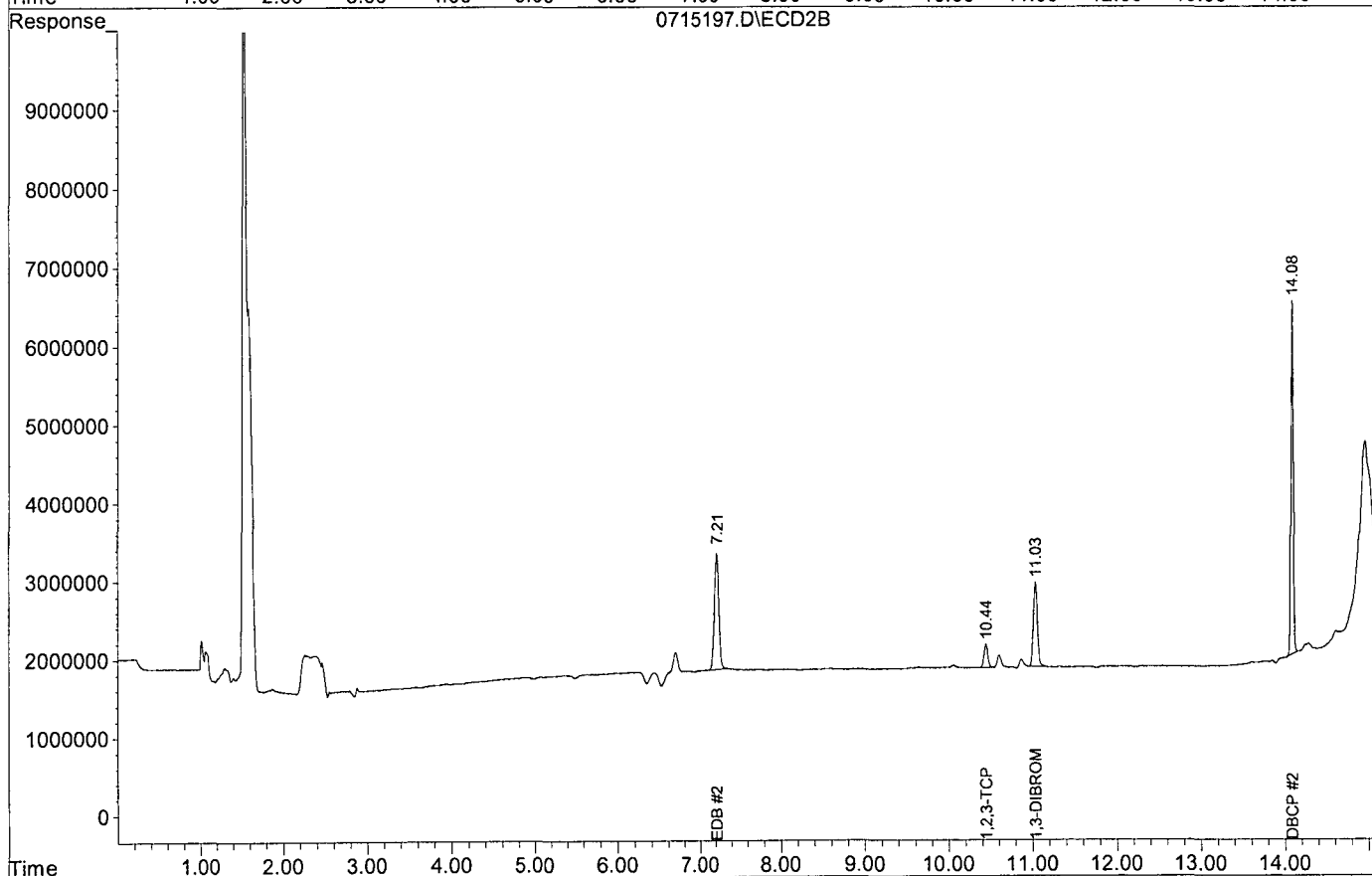
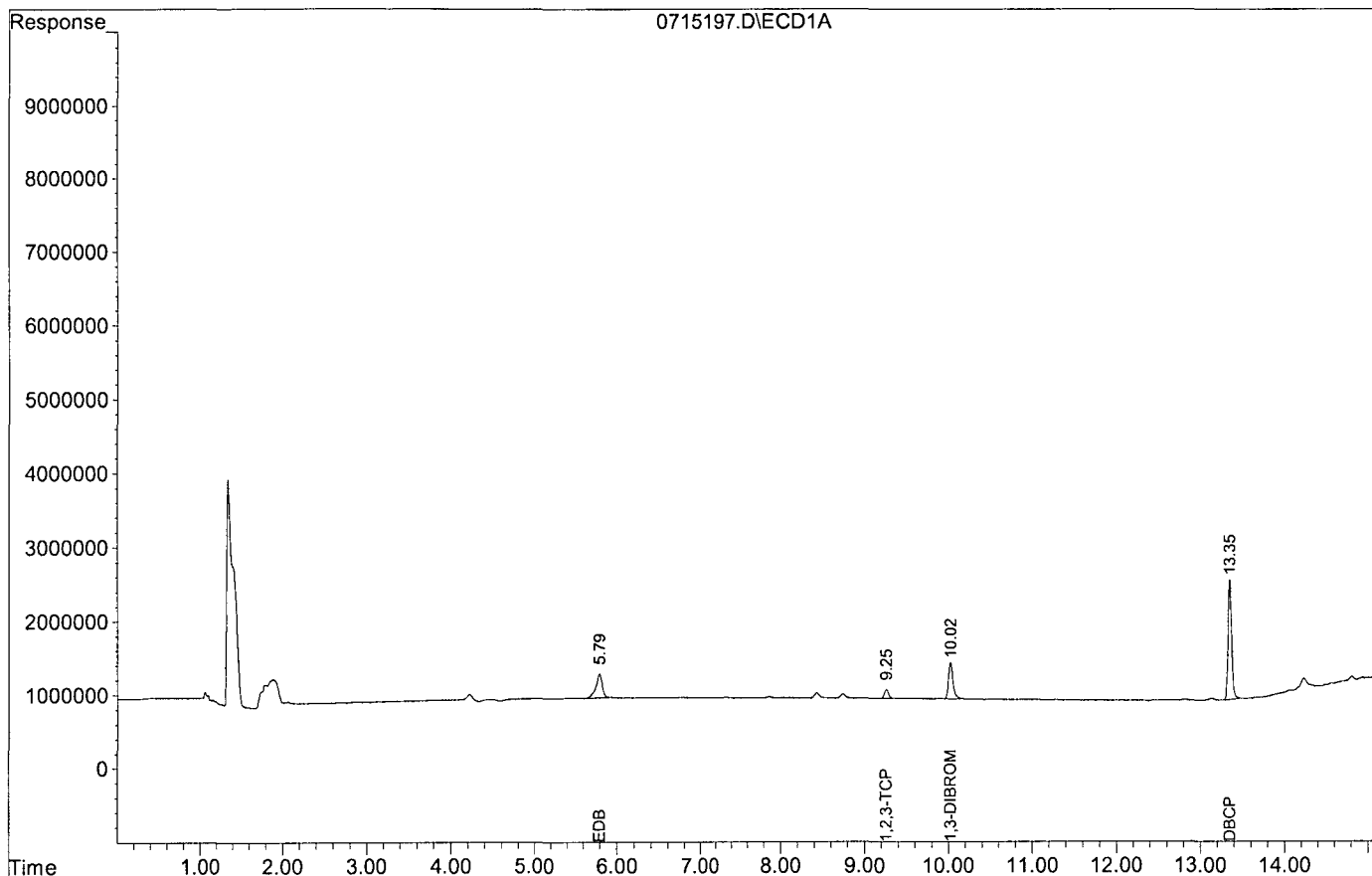
System Monitoring Compounds
 3) S 1,3-DIBROMOPROPA 10.02 11.03 487969 1086359 0.253 0.251
 Spiked Amount 0.348 Recovery = 72.70% 72.12%

Target Compounds
 1) TM EDB 5.79 7.21 323067 1489539 0.243 0.237
 2) TM 1,2,3-TCP 9.25 10.44 121854 300140 0.247 0.263
 4) TM DBCP 13.35 14.08 1623561 4516107 0.246 0.256

Target Compounds

Data File : G:\HERBIE\DATA\190715\0715197.D
Acq On : 08-06-19 19:12:46
Sample : 190805A LCS-1 2/35.20G
Misc : water
Quant Method : G:\HERBIE\DATA\190402\8011806A.M

Vial: 97
Operator: MA,SS
Inst : Herbie
Multiplr: 0.99



Signal #1 : G:\HERBIE\DATA\190715\0715198.D\ECD1A.CH Vial: 98
 Signal #2 : G:\HERBIE\DATA\190715\0715198.D\ECD2B.CH
 Acq On : 08-06-19 19:33:00 Operator: MA,SS
 Sample : 190805A LCSD-1 2/35.34G Inst : Herbie
 Misc : water Multiplr: 0.99
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Aug 19 18:29 2019 Quant Results File: 8011806A.RES

Quant Method : G:\HERBIE\DATA\190402\8011806A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Wed Aug 07 09:05:22 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
----------	------	------	--------	--------	------	------

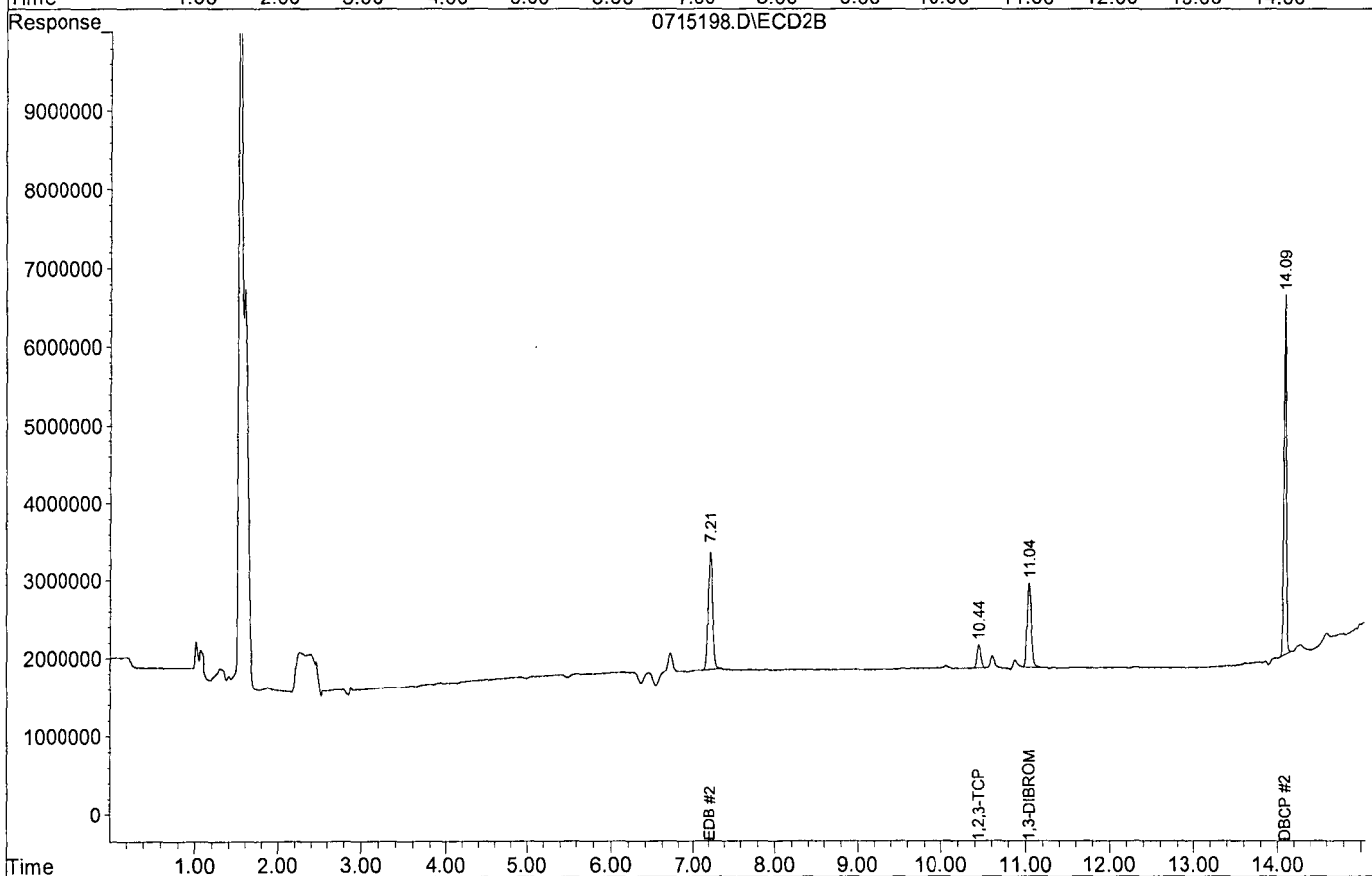
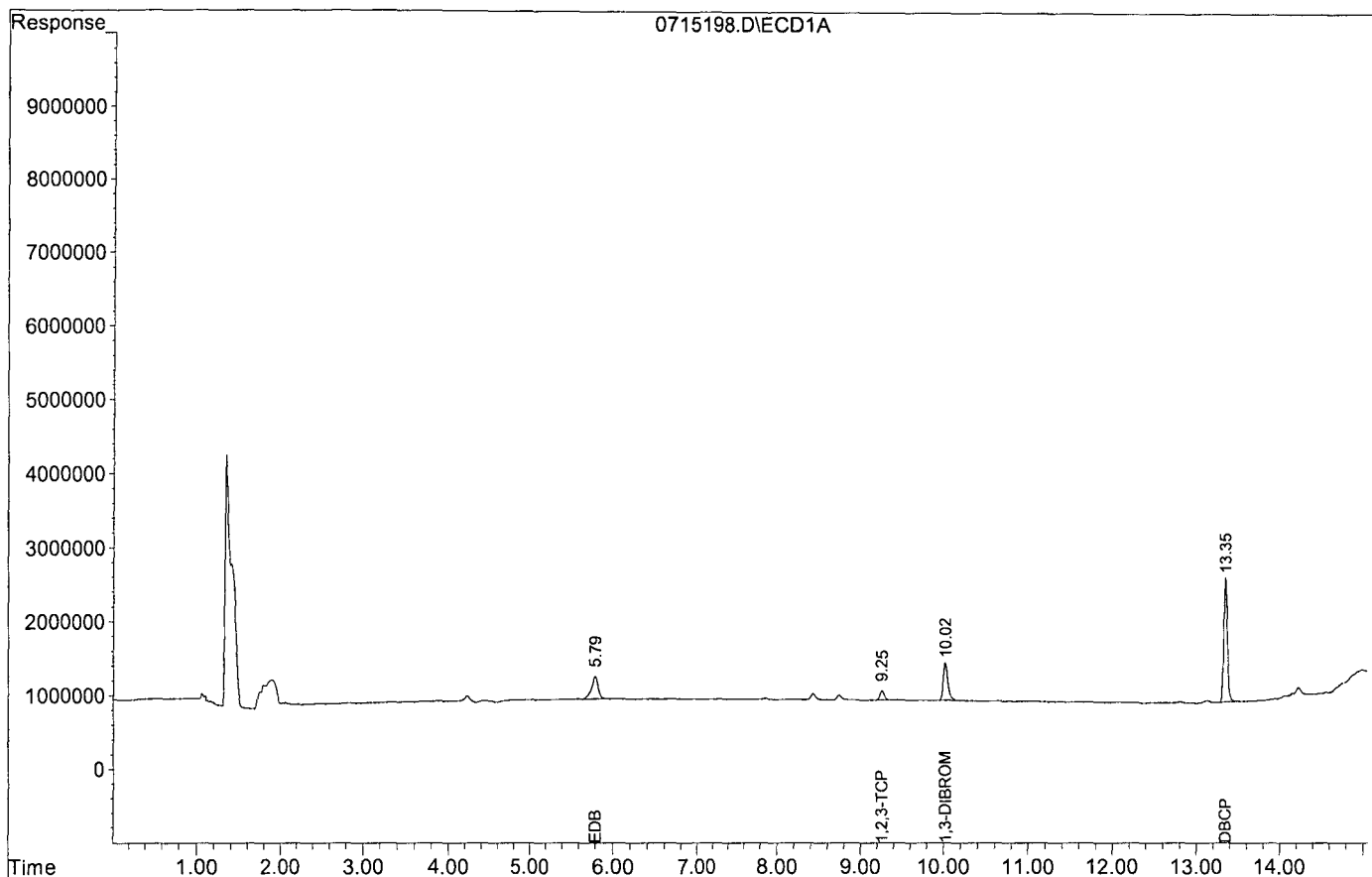
System Monitoring Compounds						
3) S 1,3-DIBROMOPROPA	10.02	11.04	509952	1076370	0.263	0.248
Spiked Amount	0.347		Recovery	=	75.87%	71.55%

Target Compounds						
1) TM EDB	5.79	7.21	305860	1514131	0.229	0.240
2) TM 1,2,3-TCP	9.25	10.44	127448	296050	0.257	0.258
4) TM DBCP	13.35	14.09	1686934	4604910	0.254	0.260

Target Compounds

Data File : G:\HERBIE\DATA\190715\0715198.D
Acq On : 08-06-19 19:33:00
Sample : 190805A LCSD-1 2/35.34G
Misc : water
Quant Method : G:\HERBIE\DATA\190402\8011806A.M

Vial: 98
Operator: MA,SS
Inst : Herbie
Multiplr: 0.99



Name of Final Standard 504/8011 Spike Prep'd By (Initials) GA
 Prep Date 06/19/19
 Exp Date 09/17/19

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
504/8011 Stock	APPL	504/8011 Stock	0.35 ug/mL	05/17/19	09/17/19	1000 uL	10 mL	Methanol #208858	0.035 ug/mL

Name of Final Standard 504/8011 SS SPK Prep'd By (Initials) OA
 Prep Date 01/22/19
 Exp Date 01/06/20

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
504/8011 SS Stock	APPL	Stock	0.35 ug/mL	01/22/19	01/06/20	1000 uL	10 mL	Methanol #042317C	0.035 ug/mL

Name of Final Standard 504/8011 Surrogate Prep'd By (Initials) GA
 Prep Date 06/05/19
 Exp Date 10/05/19

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
1,3 DBP	APPL	1,3 DBP Stock	100 ug/mL	05/07/19	01/06/20	35 uL	10 mL	Methanol #208858	0.35ug/ml

Name of Final Standard 504/8011 Spike Prep'd By (Initials) GA
 Prep Date 08/06/19
 Exp Date 09/17/19

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
504/8011 Stock	APPL	504/8011 Stock	0.35 ug/mL	05/17/19	09/17/19	1000 uL	10 mL	Methanol #208858	0.035 ug/mL

Organic Extraction Worksheet

Method	EPA Method 8011 DBCP/EDB	Extraction Set	190805A	Extraction Method	MWE012	Units	mL
Spiked ID 1	504.1 Spike 6/19/19-9/17/19	Surrogate ID 1	504.1	Surrogate 6/5/19-10/5/19			
Spiked ID 2	504.1 SS 1/22/19-1/6/20	Surrogate ID 2					
Spiked ID 3	504.1 Spike 8/6/19-9/17/19	Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:		yes			
Spiked ID 7		Ext. Start Time:		08/05/19 13:30			
Spiked ID 8		Ext. End Time:		08/06/19 10:20			
				GC Requires Extract By:		08/05/19 0:00	
				pH1		Water Bath Temp 1 °C	
				pH2		Water Bath Temp 2 °C	
				pH3		Water Bath Temp 3 °C	

Spiked By: DL

Date 08/05/19

Witnessed By: CFM

Date 08/05/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1 190805A Bk				0.035	1	35.73g	2	7	08/05/19 13:30	
						equip				
2 190805A LCS-1		0.250	1	NA	NA	35.20g	2	7	08/05/19 13:30	
						equip				
3 190805A LCSD-1		0.250	1	NA	NA	35.34g	2	7	08/05/19 13:30	
						equip				
4 AZ95796	AZ95796W04			0.035	1	35.25g	2	7	08/05/19 13:30	89661
						equip				
5 AZ95797	AZ95797W05			0.035	1	35.32g	2	7	08/05/19 13:30	89661
						equip				
6 AZ95800	AZ95800W05			0.035	1	35.44g	2	7	08/05/19 13:30	89661
						equip				
7 AZ95859	AZ95859W06			0.035	1	35.16g	2	7	08/05/19 13:30	89674
						equip				
8 AZ95860	AZ95860W05			0.035	1	35.09g	2	7	08/05/19 13:30	89674
						equip				
9 AZ95986	AZ95986W07			0.035	1	35.26g	2	7	08/05/19 13:30	89682
						equip				
10 AZ95987 MS-1	AZ95987W17	0.250	1	NA	NA	35.10g	2	7	08/05/19 13:30	
						equip				
11 AZ95987 MSD-1	AZ95987W10	0.250	1	NA	NA	35.25g	2	7	08/05/19 13:30	
						equip				
12 AZ95987	AZ95987W09			0.035	1	35.10g	2	7	08/05/19 13:30	89682
						equip				
13 AZ95988	AZ95988W05			0.035	1	35.48g	2	7	08/05/19 13:30	89682
						equip				
14 AZ96033	AZ96033W08			0.035	1	35.04g	2	7	08/05/19 13:30	89689
						equip				
15 AZ96034	AZ96034W08			0.035	1	35.50g	2	7	08/05/19 13:30	89689
						equip				
16 AZ96035	AZ96035W19			0.035	1	35.50g	2	7	08/05/19 13:30	89689
						equip				

Solvent and Lot#	
ph strip	HC863463
Sod. Thiosulfate	24050
NaCL	17G215202
GC2 Hexane (2mLs)	DT947

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	GA
Date	8/6/19
Time	15:30
Refrigerator	Hobart

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	08/12/19 2:22:13 PM

Reviewed By: *SS* Page 146 of 745 Date 8/12/19

Organic Extraction Worksheet

Method	EPA Method 8011 DBCP/EDB	Extraction Set	190805A	Extraction Method	MWE012	Units	mL
Spiked ID 1	504.1 Spike 6/19/19-9/17-19	Surrogate ID 1	504.1 Surrogate 6/5/19-10/5/19				
Spiked ID 2	504.1 SS 1/22/19-1/6/20	Surrogate ID 2					
Spiked ID 3	504.1 Spike 8/6/19-9/17/19	Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:		yes			
Spiked ID 7		Ext. Start Time:		08/05/19 13:30			
Spiked ID 8		Ext. End Time:		08/06/19 10:20			
		GC Requires Extract By:		08/05/19 0:00			
		pH1				Water Bath Temp 1 °C	
		pH2				Water Bath Temp 2 °C	
		pH3				Water Bath Temp 3 °C	

Spiked By: DL

Date 08/05/19

Witnessed By: CFM

Date 08/05/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
17 AZ96036	AZ96036W08			0.035	1	35.35g	2	7	08/05/19 13:30	89689
					equip					
18 AZ96149	AZ96149W06			0.035	1	35.04g	2	7	08/05/19 13:30	89702
					equip					
19 LOD		0.019	3	NA	NA		2	7	08/05/19 13:30	
					equip					
20 M STD 1		0.020	1	NA	NA	35.03g	2	7	08/05/19 13:30	
					equip					
21 M STD 2		0.100	1	NA	NA	35.26g	2	7	08/05/19 13:30	
					equip					
22 M STD 3		0.250	1	NA	NA	35.18g	2	7	08/05/19 13:30	
					equip					
23 M STD 4		0.500	1	NA	NA	35.11g	2	7	08/05/19 13:30	
					equip					
24 M STD 5		0.750	1	NA	NA	35.20g	2	7	08/05/19 13:30	
					equip					
25 M STD 6		1	3	NA	NA	35.09g	2	7	08/05/19 13:30	
					equip					
26 SS		0.100	2	0.035	1	35.40g	2	7	08/05/19 13:30	
					equip					

SS 8/12/19

Solvent and Lot#	
ph strip	HC863463
Sod. Thiosulfate	24050
NaCL	17G215202
GC2 Hexane (2mLs)	DT947

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	
Date	
Time	
Refrigerator	

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	08/12/19 2:22:13 PM

Reviewed By: Date
 Page 147 of 745
 Ext_ID 63783

Injection Log

Directory: G:\HERBIE\DATA\190715\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	89	0715189.D	1	8011 1 8/6/19		08-06-19 16:29:55
2	90	0715190.D	1	8011 2 8/6/19		08-06-19 16:50:15
3	91	0715191.D	1	8011 3 8/6/19		08-06-19 17:10:43
4	92	0715192.D	1	8011 4 8/6/19		08-06-19 17:31:06
5	93	0715193.D	1	8011 5 8/6/19		08-06-19 17:51:25
6	94	0715194.D	1	8011 6 8/6/19		08-06-19 18:11:47
7	95	0715195.D	1	8011 SS 8/6/19		08-06-19 18:32:03
8	96	0715196.D	0.979569	190805A BLK 2/35.73G	water	08-06-19 18:52:22
9	97	0715197.D	0.994318	190805A LCS-1 2/35.20G	water	08-06-19 19:12:46
10	98	0715198.D	0.990379	190805A LCSD-1 2/35.34G	water	08-06-19 19:33:00
11	2	0715202.D	0.995449	AZ95859S01 2/35.16G	water	08-06-19 20:54:04
12	3	0715203.D	0.997435	AZ95860S01 2/35.09G	water	08-06-19 21:14:21
13	9	0715209.D	1	8011 3 8/6/19	water	08-06-19 23:15:30

ORGANICS
Calibration Data

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: Water

SDG No: _____
Initial Cal. Date: 06/17/19
Instrument: Apollo

Initials: AT

617003.D 617004.D 617005.D 617006.D 617007.D 617008.D

	Compound	1	2	3	4	5	6						Avg	%RSD	Type	r ²
1	HATML Diesel (C10-C24)	2690303	1116857	1087632	1051285	1058686	1101324						1351015	49	HATM	0.999
2	HBTM Motor Oil (C24-C40)	1266274	913149	865251	811199	794482	848774						916522	19	HBTM	
3	SA Ortho-Terphenyl(S)	2130750	1828574	1896892	1721330	1622234	1705036						1817469	10.0	SA	
4	SCL Decanoic Acid(S)	150177	314603	492479	537134	542867	560663						432987	38	SC	0.999
5	SA Octacosane(S)	2220335	1730219	1828557	1673992	1654539	1933989						1840272	12	SA	
6																
7																
8																
9																
10																
11																
12																
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35																

3.64617

Data File : G:\APOLLO\DATA\190617\617003.D Vial: 3
 Acq On : 6-17-19 16:40:59 Operator: DP
 Sample : Diesel/Motor Oil - 1 6/17/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:02 2019 Quant Results File: DOC0617.RES

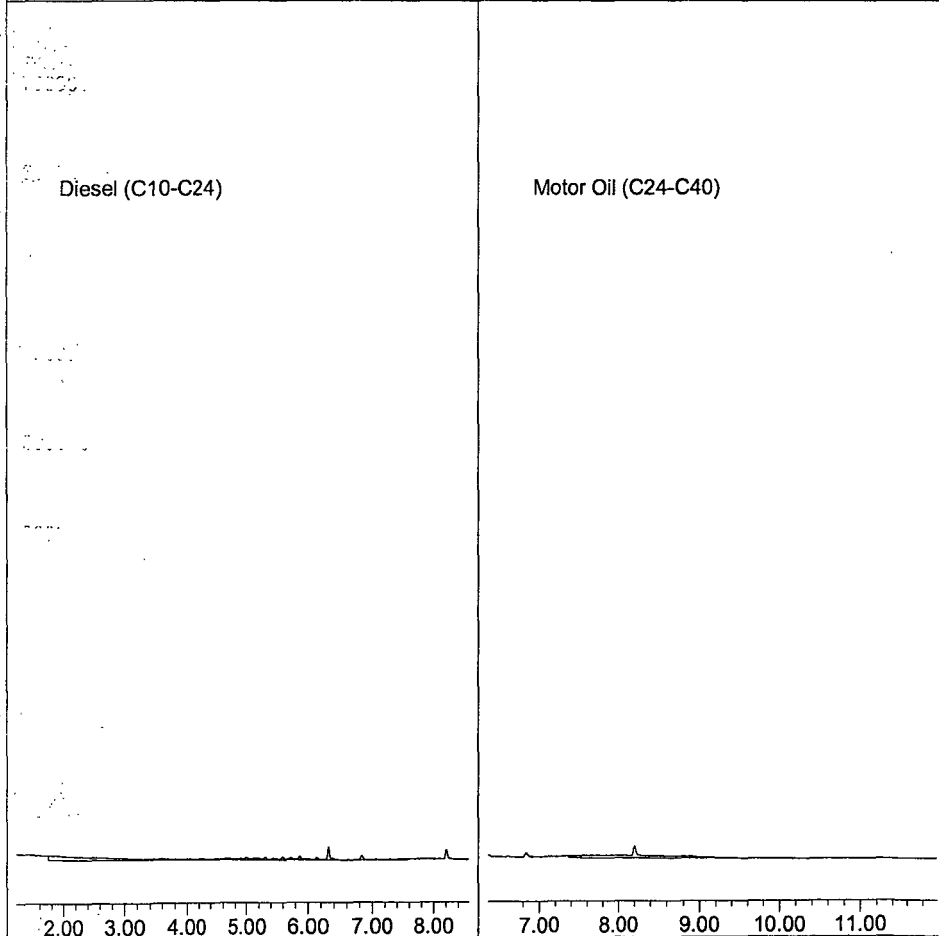
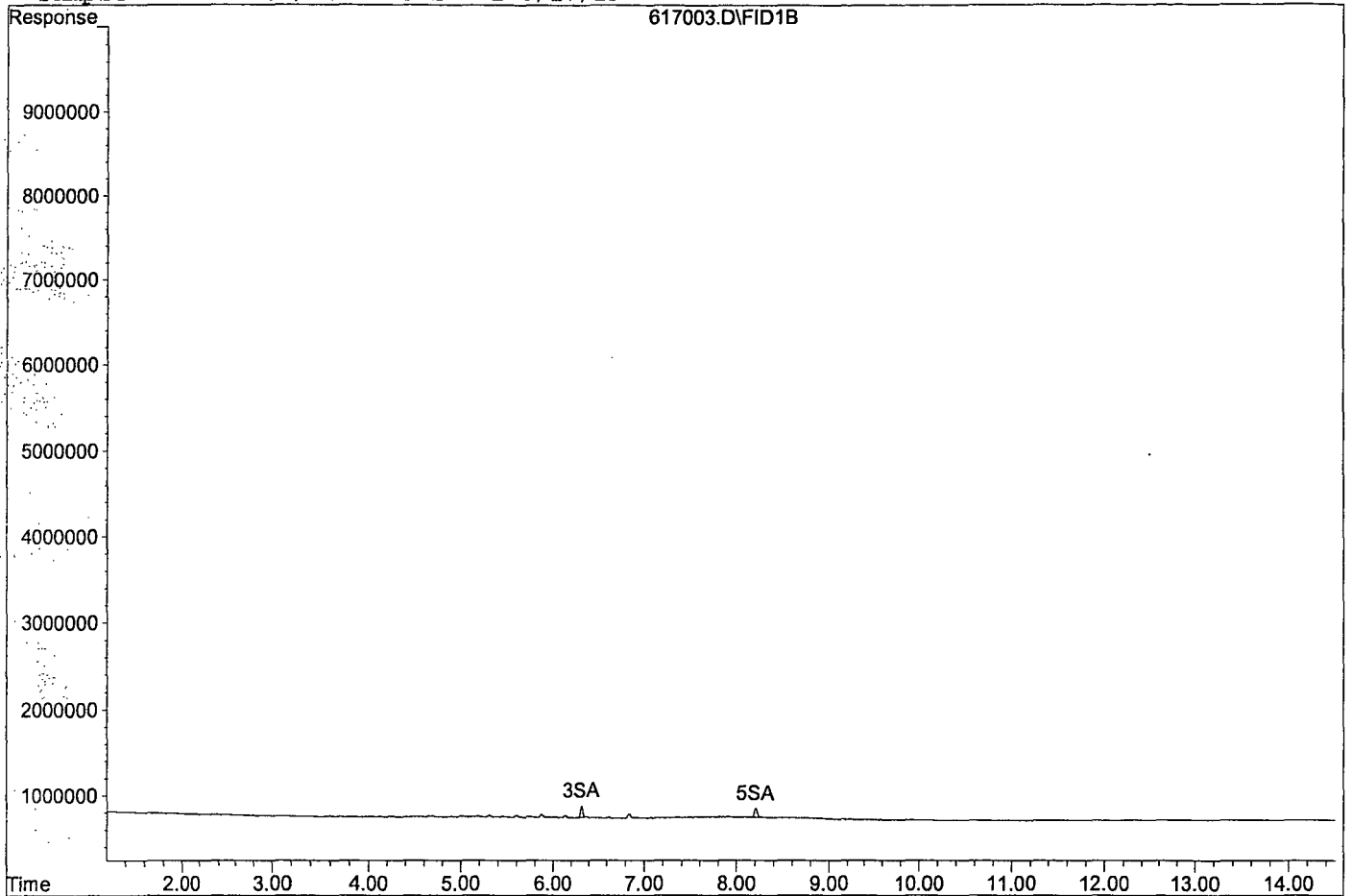
Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.32	2130750	0.586 ppb
Surrogate Spike 37.500		Recovery =	1.56%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.21	2220335	0.603 ppb
Surrogate Spike 37.500		Recovery =	1.61%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	53806066	26.270 ppb
2) HBTM Motor Oil (C24-C40)	9.16	25325476	13.816 ppb

Target Compounds

Sample : Diesel/Motor Oil - 1 6/17/19



Data File : G:\APOLLO\DATA\190617\617004.D
 Acq On : 6-17-19 17:00:17
 Sample : Diesel/Motor Oil - 2 6/17/19
 Misc : water
 IntFile : events.e
 Quant Time: Jul 17 10:02 2019 Quant Results File: DOC0617.RES

Vial: 4
 Operator: DP
 Inst : Apollo
 Multiplr: 1.00

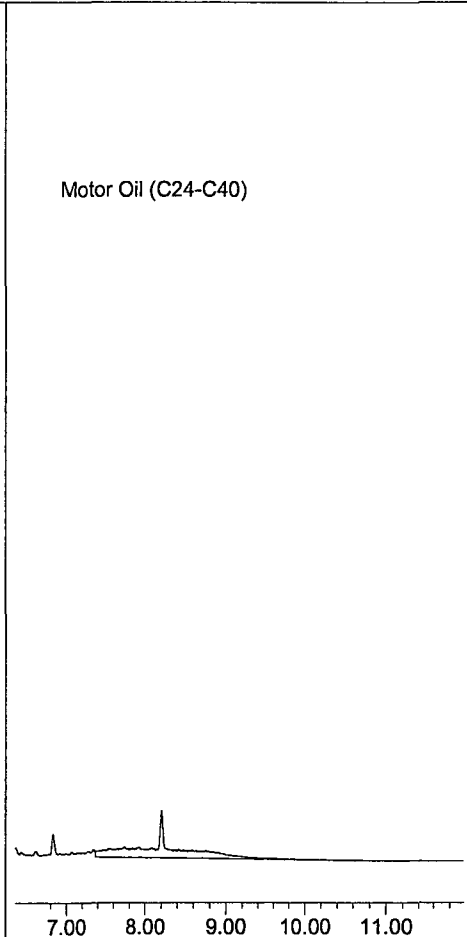
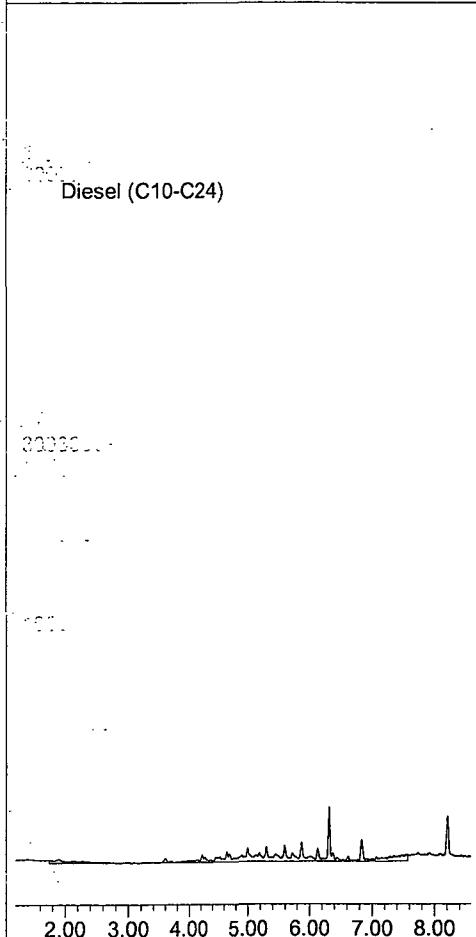
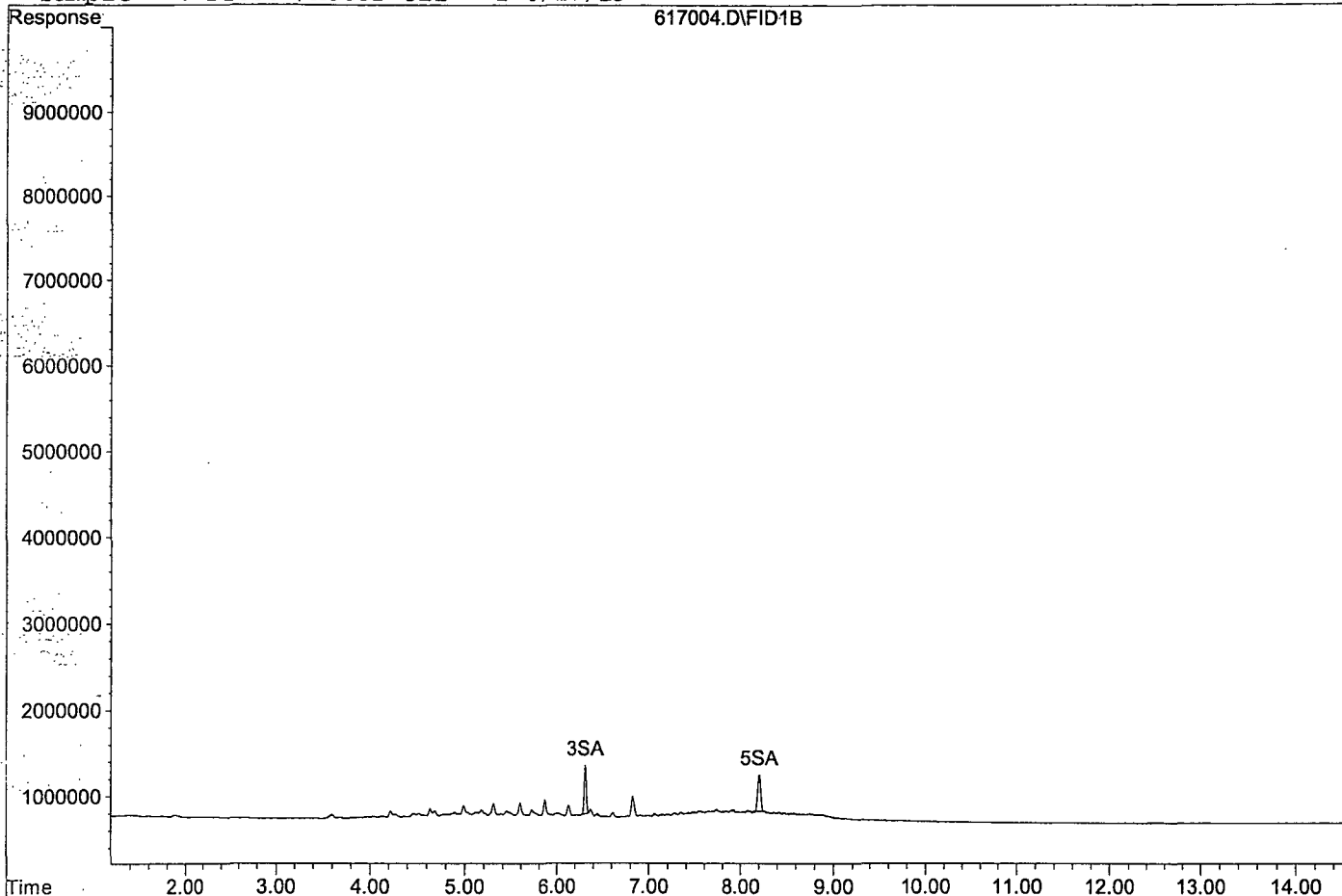
Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.32	9142868	2.515 ppb
Surrogate Spike 37.500		Recovery =	6.71%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.21	8651097	2.350 ppb
Surrogate Spike 37.500		Recovery =	6.27%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	111685733	53.009 ppb
2) HBTM Motor Oil (C24-C40)	9.16	91314932	49.816 ppb

Target Compounds



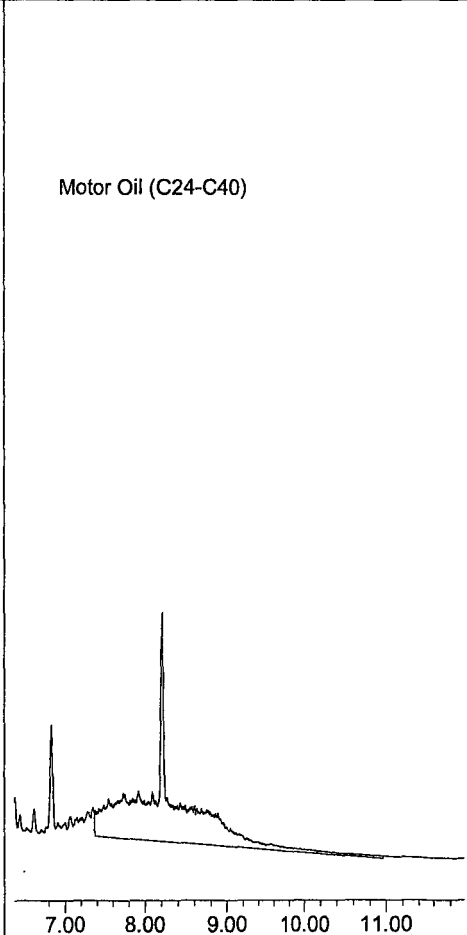
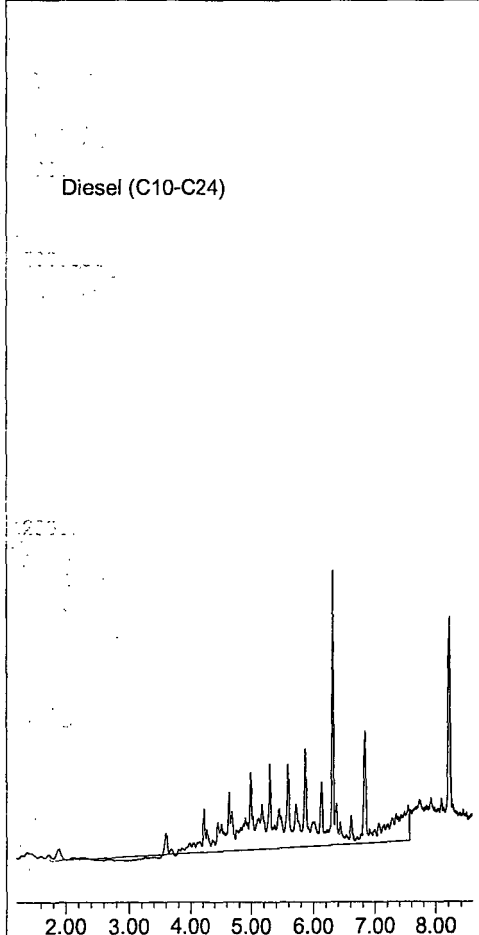
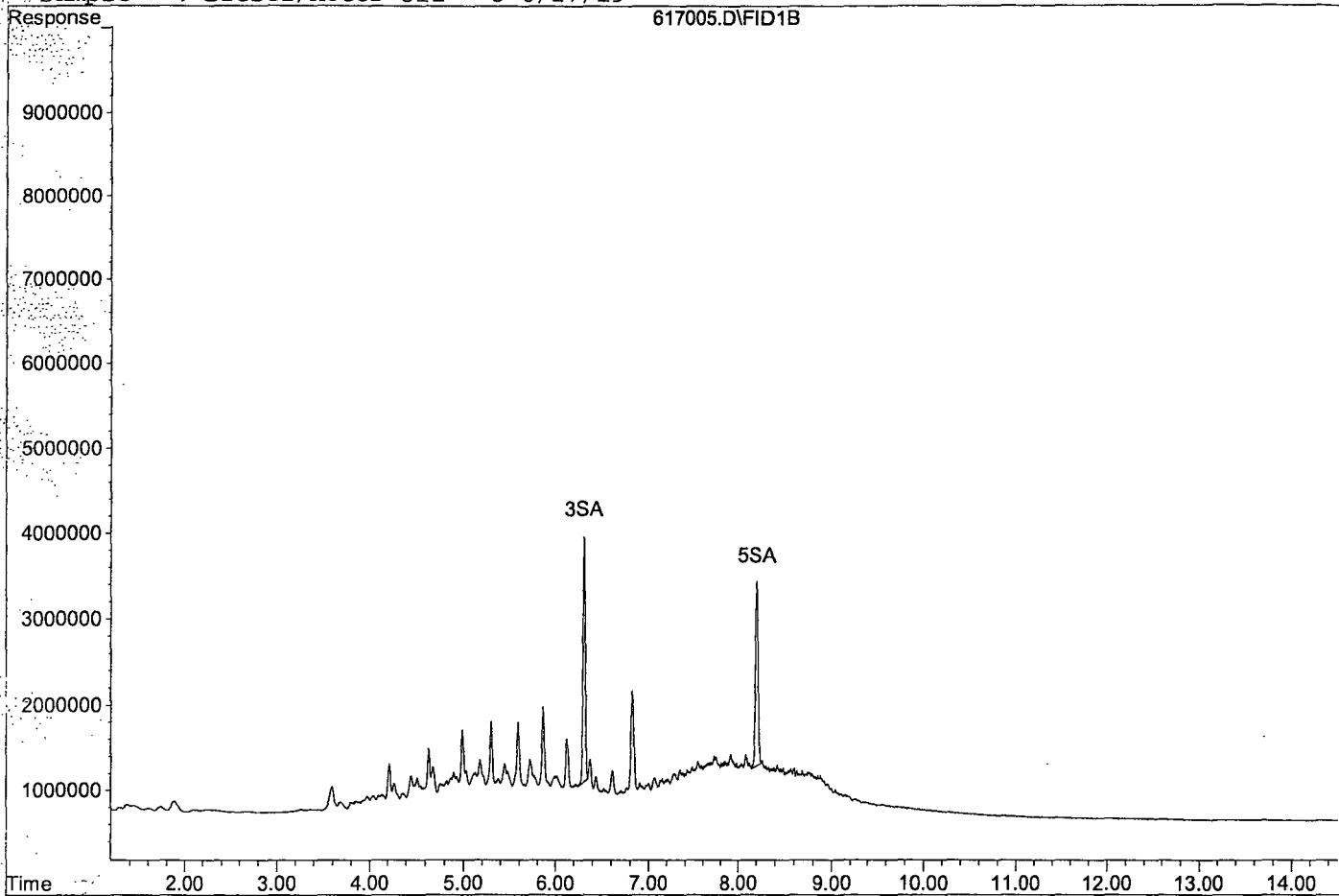
Data File : G:\APOLLO\DATA\190617\617005.D Vial: 5
 Acq On : 6-17-19 17:20:24 Operator: DP
 Sample : Diesel/Motor Oil - 3 6/17/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:02 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.32	47422311	13.046 ppb
Surrogate Spike 37.500		Recovery =	34.79%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.21	45713919	12.420 ppb
Surrogate Spike 37.500		Recovery =	33.12%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	543816041	252.647 ppb
2) HBTM Motor Oil (C24-C40)	9.16	432625605	236.015 ppb

Target Compounds



Data File : G:\APOLLO\DATA\190617\617006.D
 Acq On : 6-17-19 17:40:33
 Sample : Diesel/Motor Oil - 4 6/17/19
 Misc : water
 IntFile : events.e
 Quant Time: Jul 17 10:03 2019 Quant Results File: DOC0617.RES

Vial: 6
 Operator: DP
 Inst : Apollo
 Multiplr: 1.00

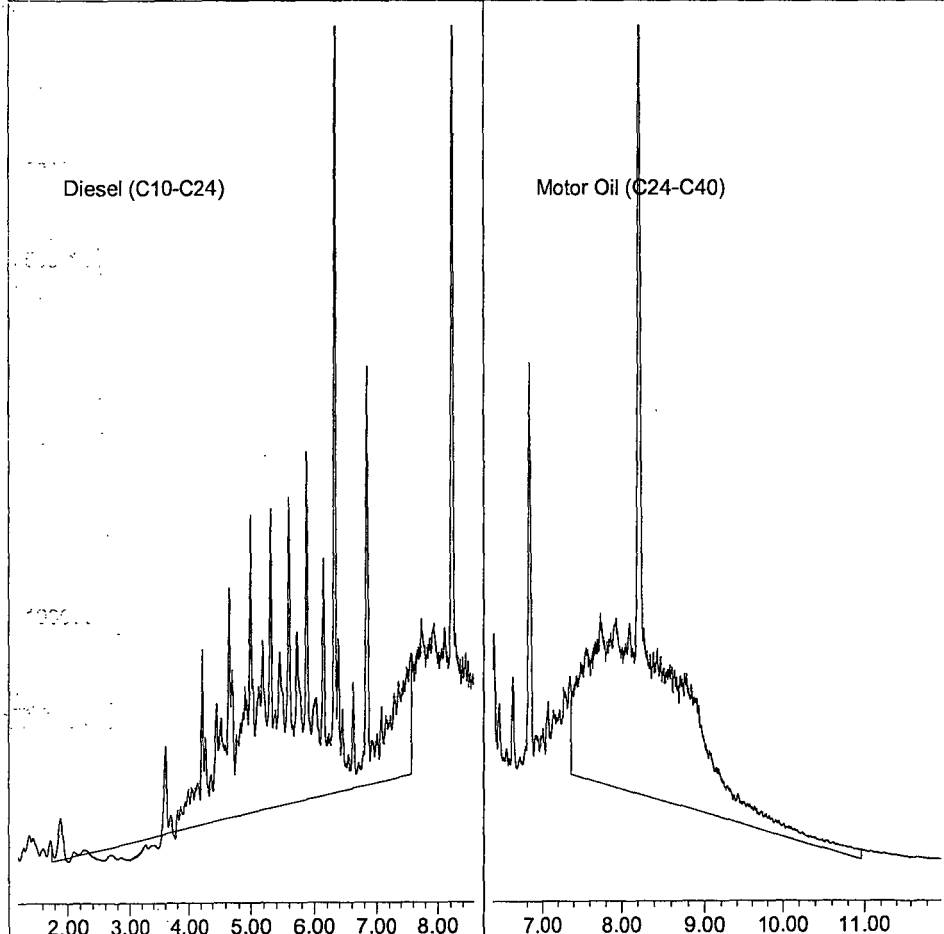
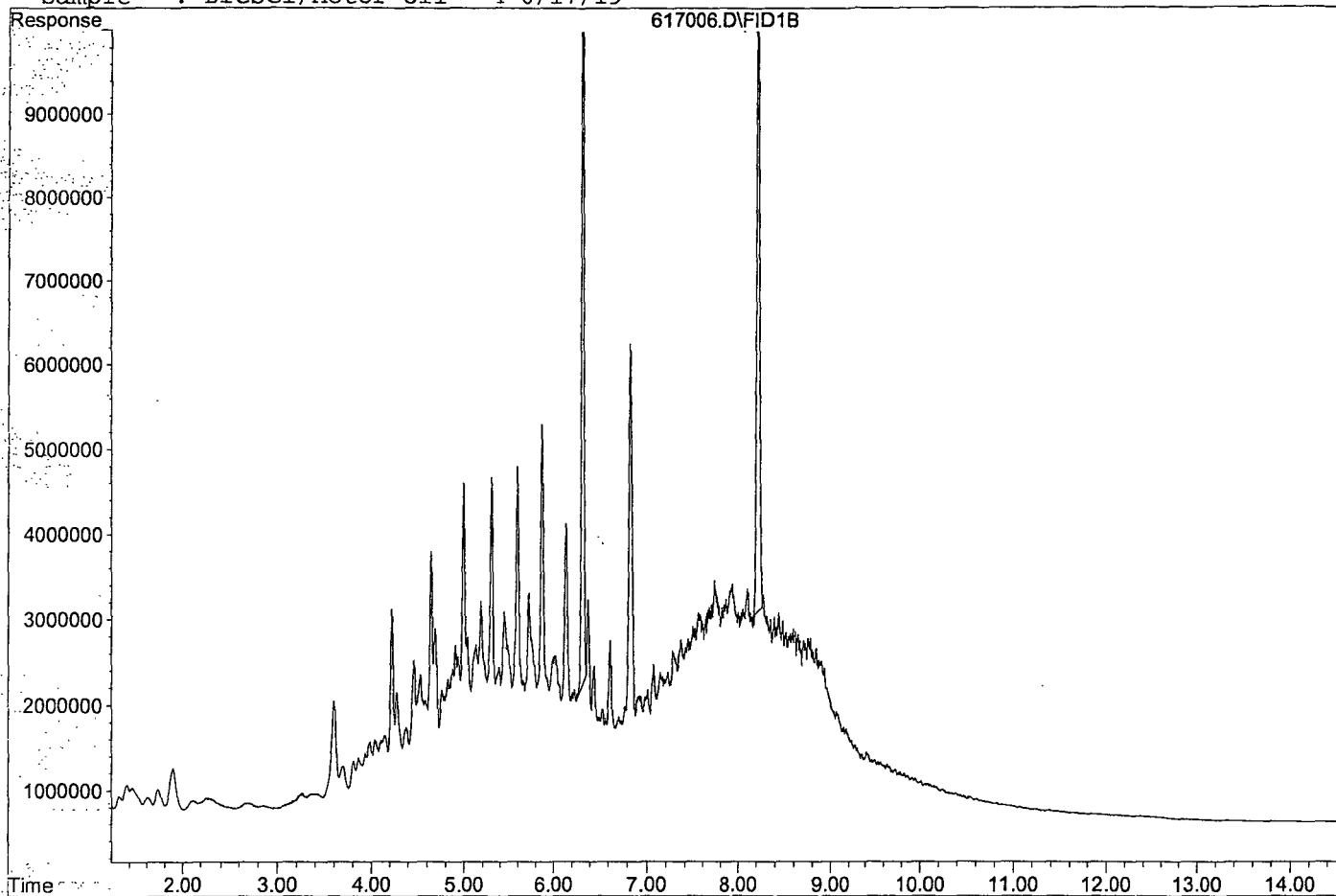
Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration
 Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.33	172133037	47.355 ppb
Surrogate Spike 37.500		Recovery =	126.28%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.22	167399224	45.482 ppb
Surrogate Spike 37.500		Recovery =	121.29%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	2102569494	972.770 ppb
2) HBTM-Motor Oil (C24-C40)	9.16	1622398534	885.085 ppb

Target Compounds

Data File: G:\APOLLO\DATA\190617\617006.D

Sample : Diesel/Motor Oil - 4 6/17/19



Data File : G:\APOLLO\DATA\190617\617007.D Vial: 7
 Acq On : 6-17-19 18:00:01 Operator: DP
 Sample : Diesel/Motor Oil - 5 6/17/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:03 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

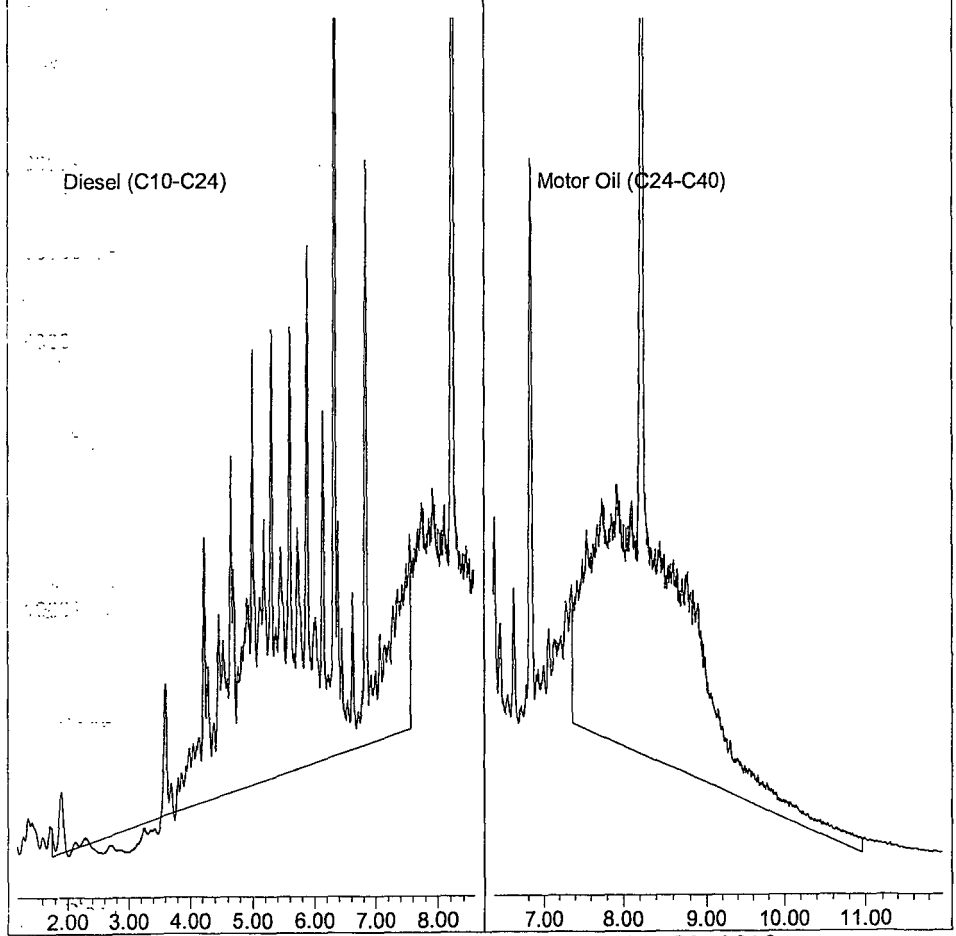
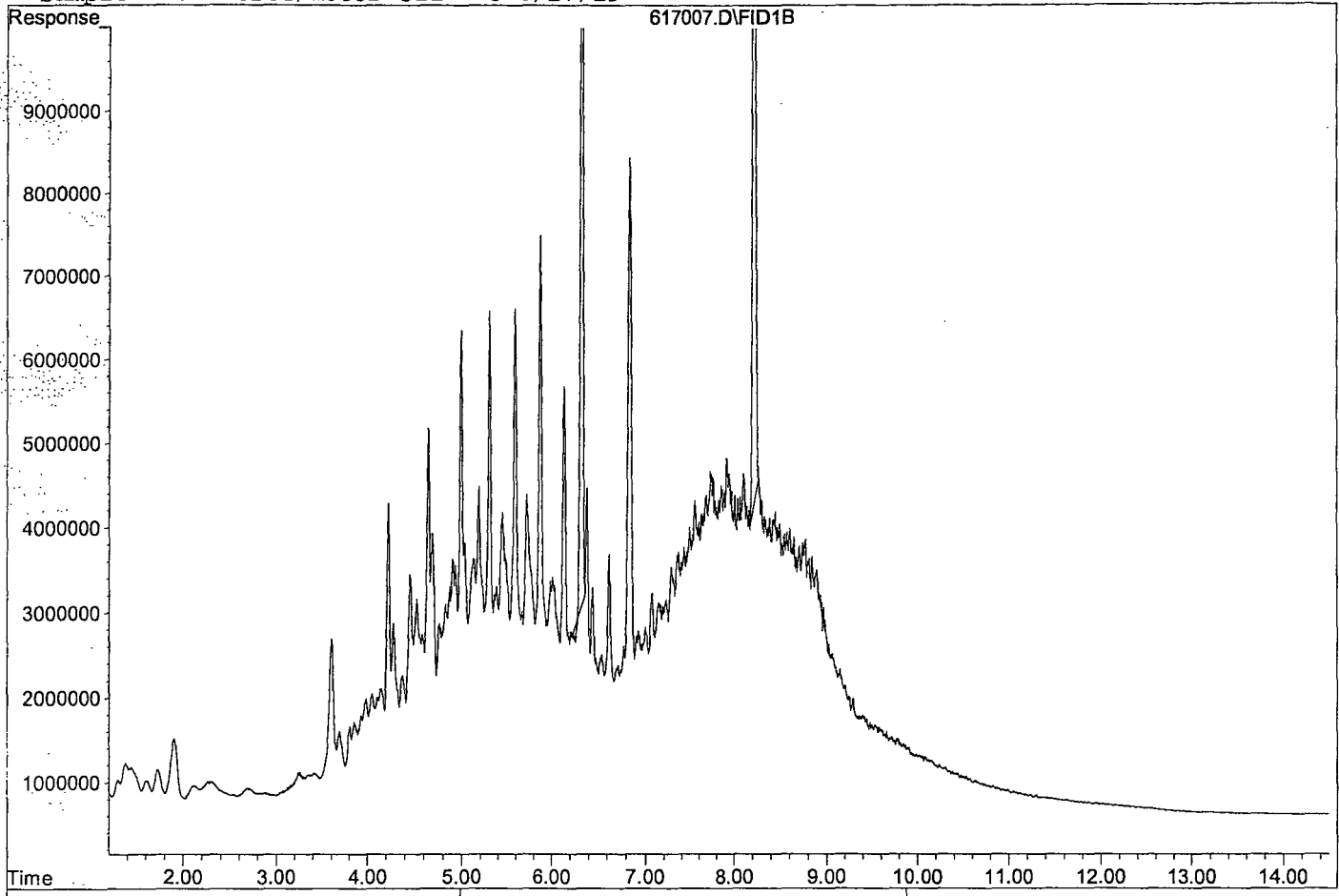
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.33	243335035	66.943 ppb
Surrogate Spike 37.500		Recovery =	178.51%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.23	248180866	67.430 ppb
Surrogate Spike 37.500		Recovery =	179.81%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	3176057733	1468.706 ppb
2) HBTM Motor Oil (C24-C40)	9.16	2383445329	1300.267 ppb

Target Compounds

Data File: G:\APOLLO\DATA\190617\617007.D

Sample : Diesel/Motor Oil - 5 6/17/19



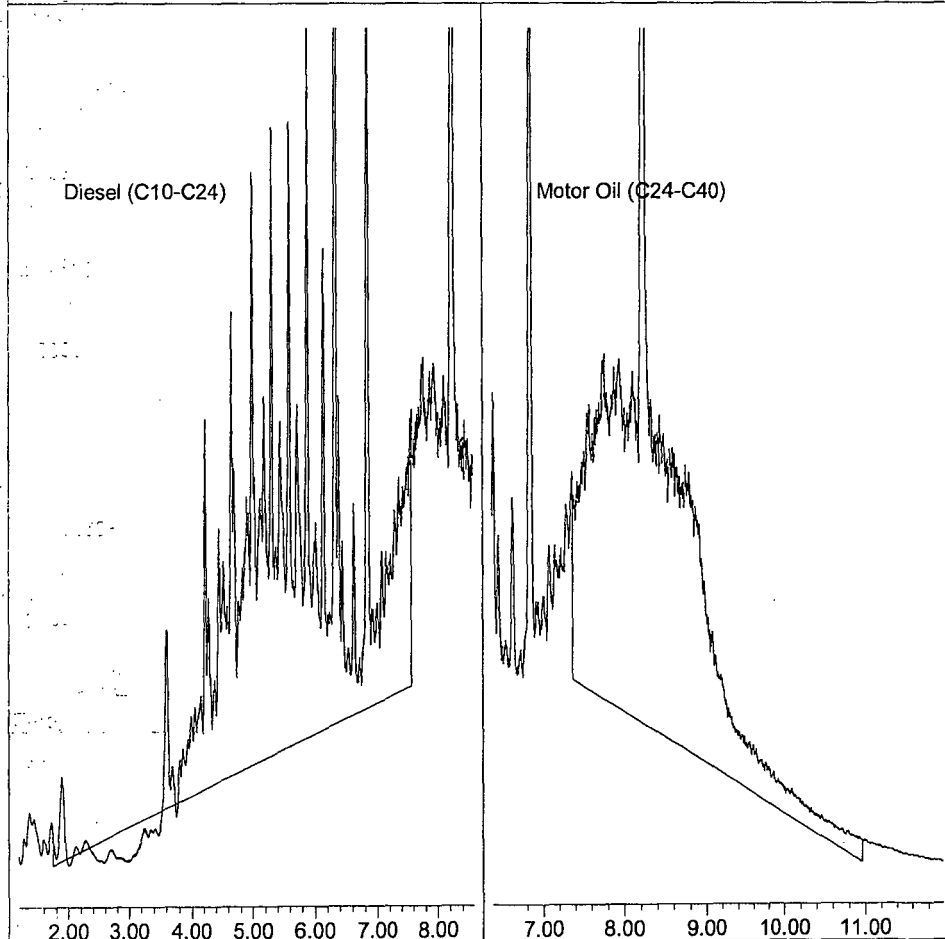
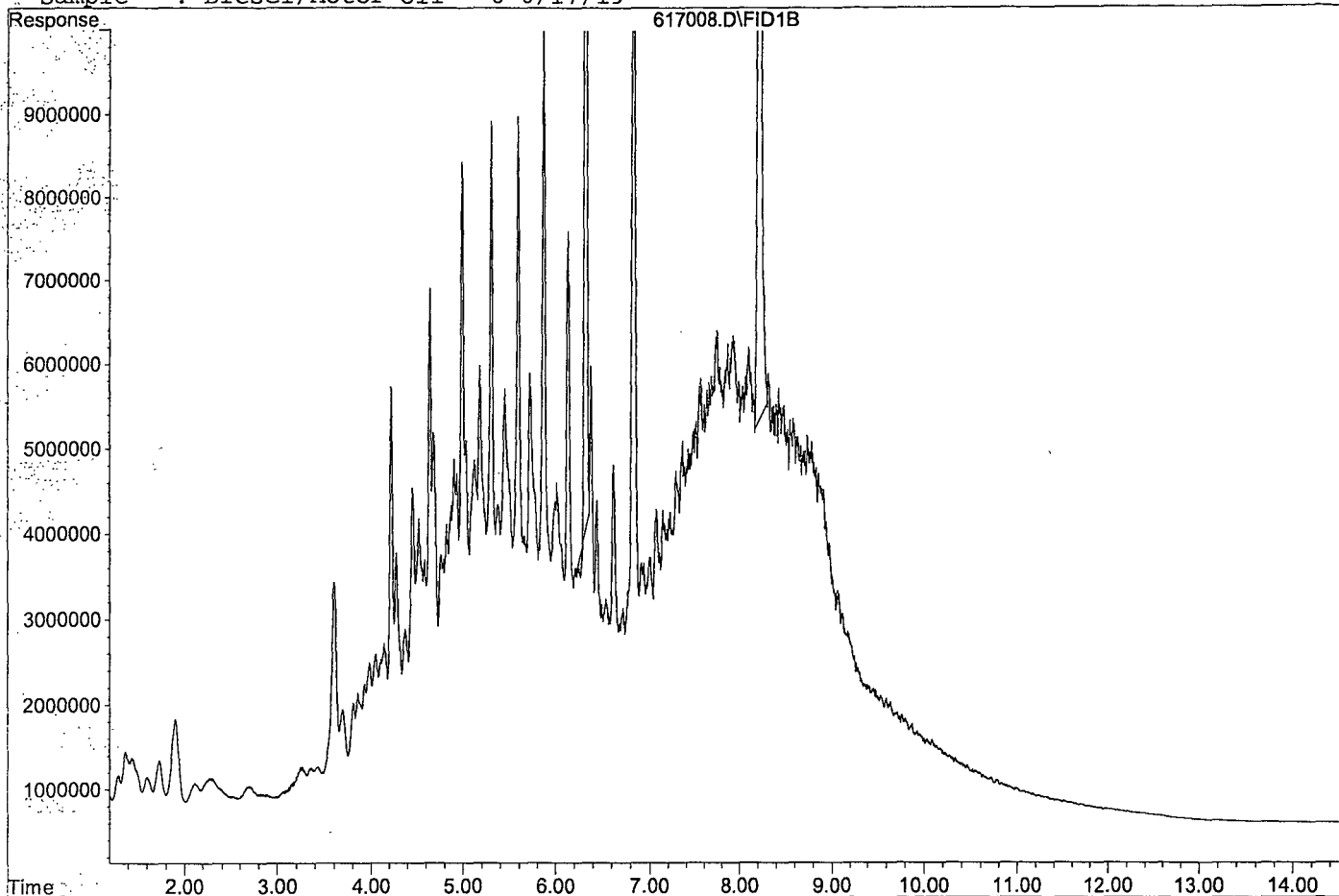
Data File : G:\APOLLO\DATA\190617\617008.D Vial: 8
 Acq On : 6-17-19 18:20:06 Operator: DP
 Sample : Diesel/Motor Oil - 6 6/17/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:02 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.34	341007115	93.814 ppb
Surrogate Spike 37.500		Recovery =	250.17%
4) SC Decanoic Acid(S)	0.00	0	N.D. ppb d
Surrogate Spike 24.000		Recovery =	0.00%
5) SA Octacosane(S)	8.23	386797753	105.093 ppb
Surrogate Spike 37.500		Recovery =	280.25%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	4405297136	2036.598 ppb
2) HBTM-Motor Oil (C24-C40)	9.16	3395096242	1852.164 ppb

Target Compounds



TPH Extractables
DOC0617

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: Water

SDG No: _____
Date Analyzed: 06/17/19
Instrument: Apollo
Initial Cal. Date: 06/17/19
Data File: 617009.D

	Compound	MEAN	CCRF	%D	%Drift	
1	HATM Diesel (C10-C24)	1351010	1018430	25	HATML	5.3
2	HBTM Motor Oil (C24-C40)	916522	873901	4.7	HBTM	
3						
4						
5						
6						
7						
8						
9						
10						
11						
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39						
40						

Average

14.9

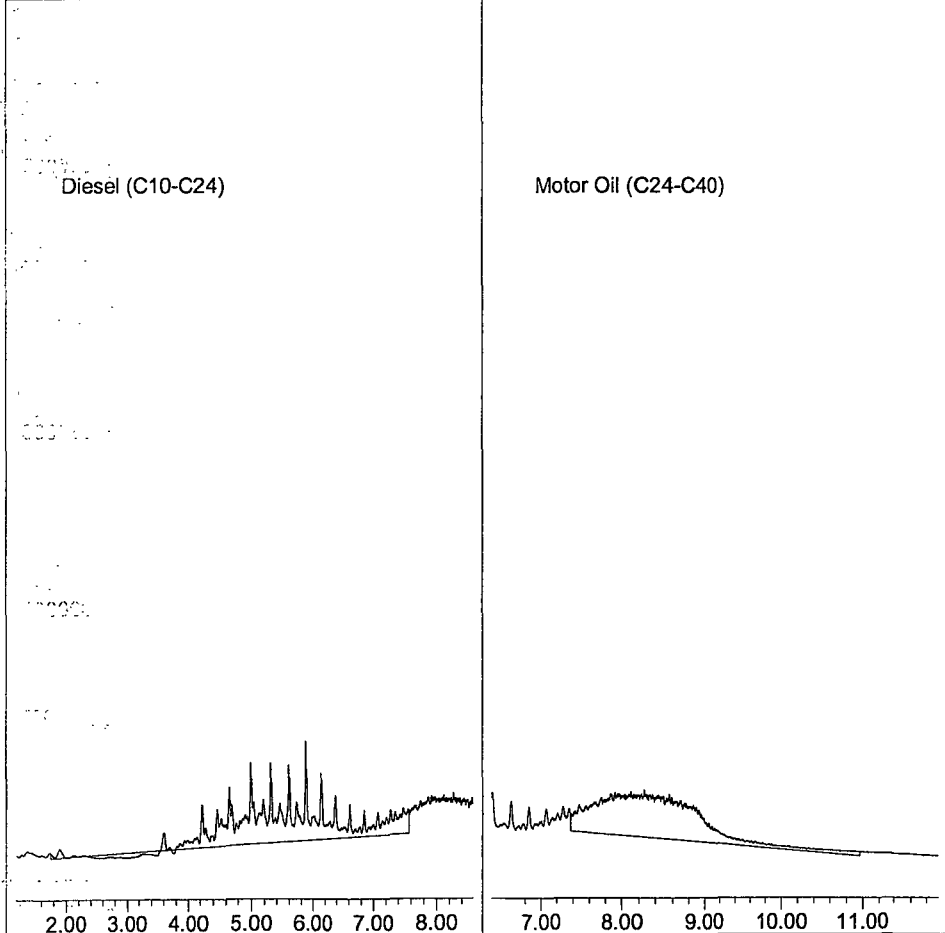
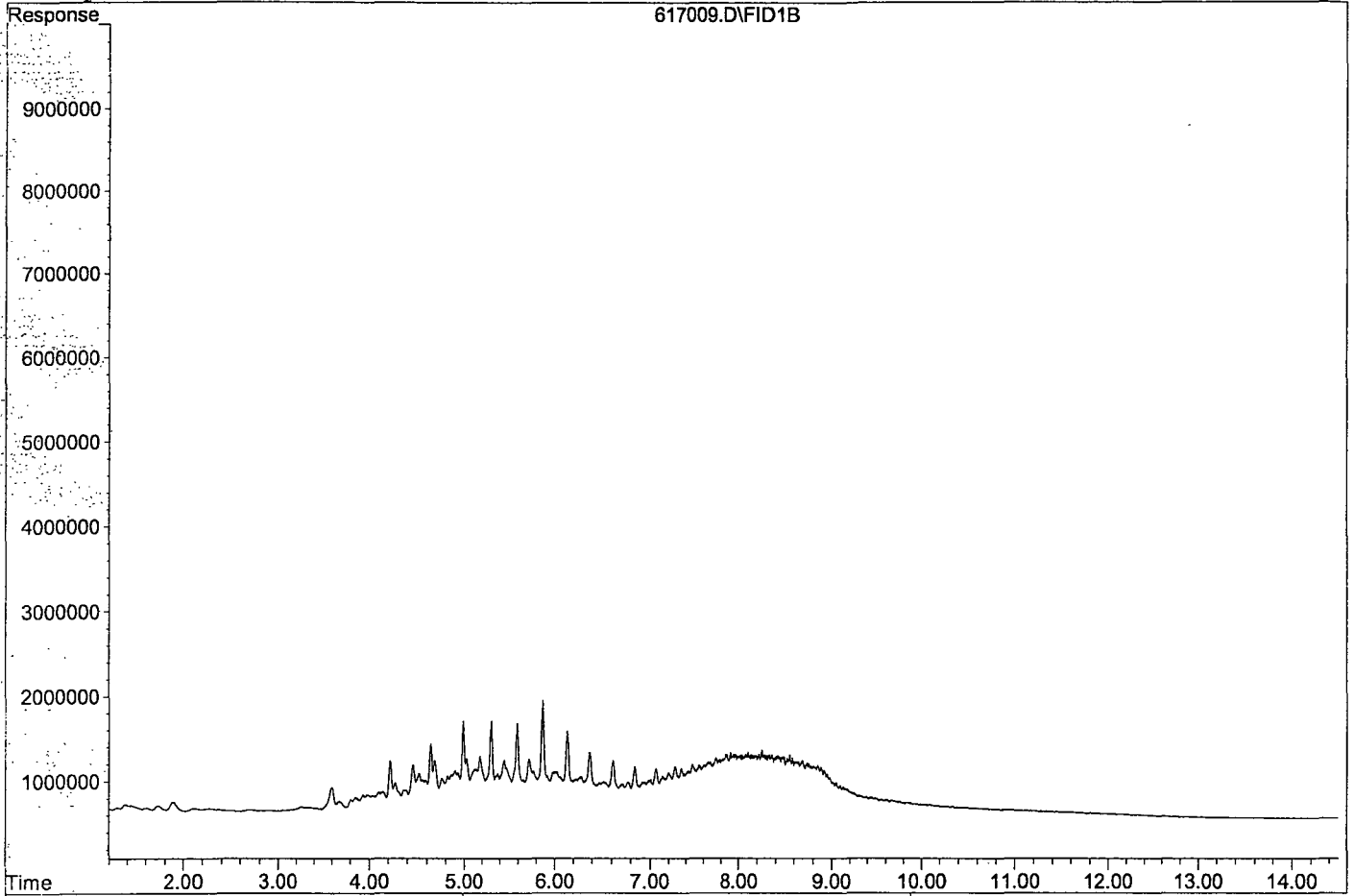
Data File : G:\APOLLO\DATA\190617\617009.D Vial: 9
 Acq On : 6-17-19 18:39:28 Operator: DP
 Sample : Diesel/Motor Oil Second Source 1/15/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:21 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
4) SC Decanoic Acid(S)	0.00	0	N.D.	ppb d
Surrogate Spike 24.000		Recovery =	0.00%	
5) SA Octacosane(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
Target Compounds				
1) HATM Diesel (C10-C24)	4.66	509215791	236.663	ppb
2) HBTM Motor Oil (C24-C40)	9.16	436950596	238.374	ppb

Target Compounds



Data File : G:\APOLLO\DATA\190411\411009.D Vial: 9
 Acq On : 4-11-19 15:57:31 Operator: DP
 Sample : Decanoic Acid - 1 4/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:04 2019 Quant Results File: DOC0617.RES

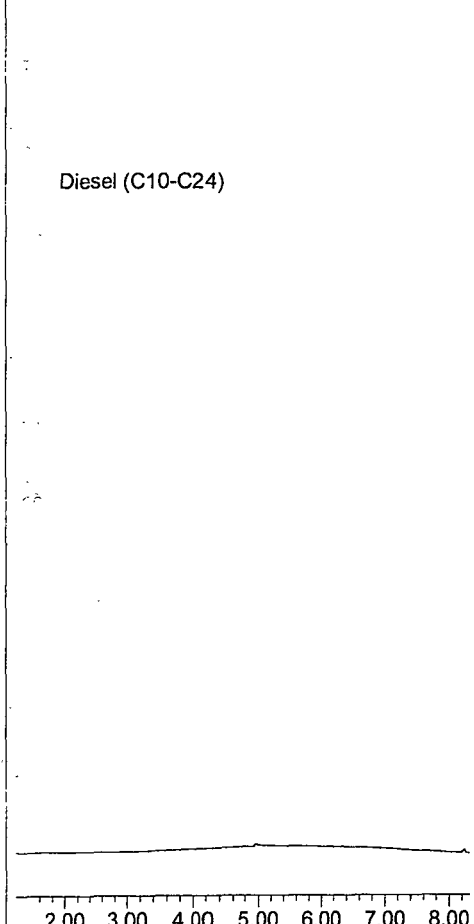
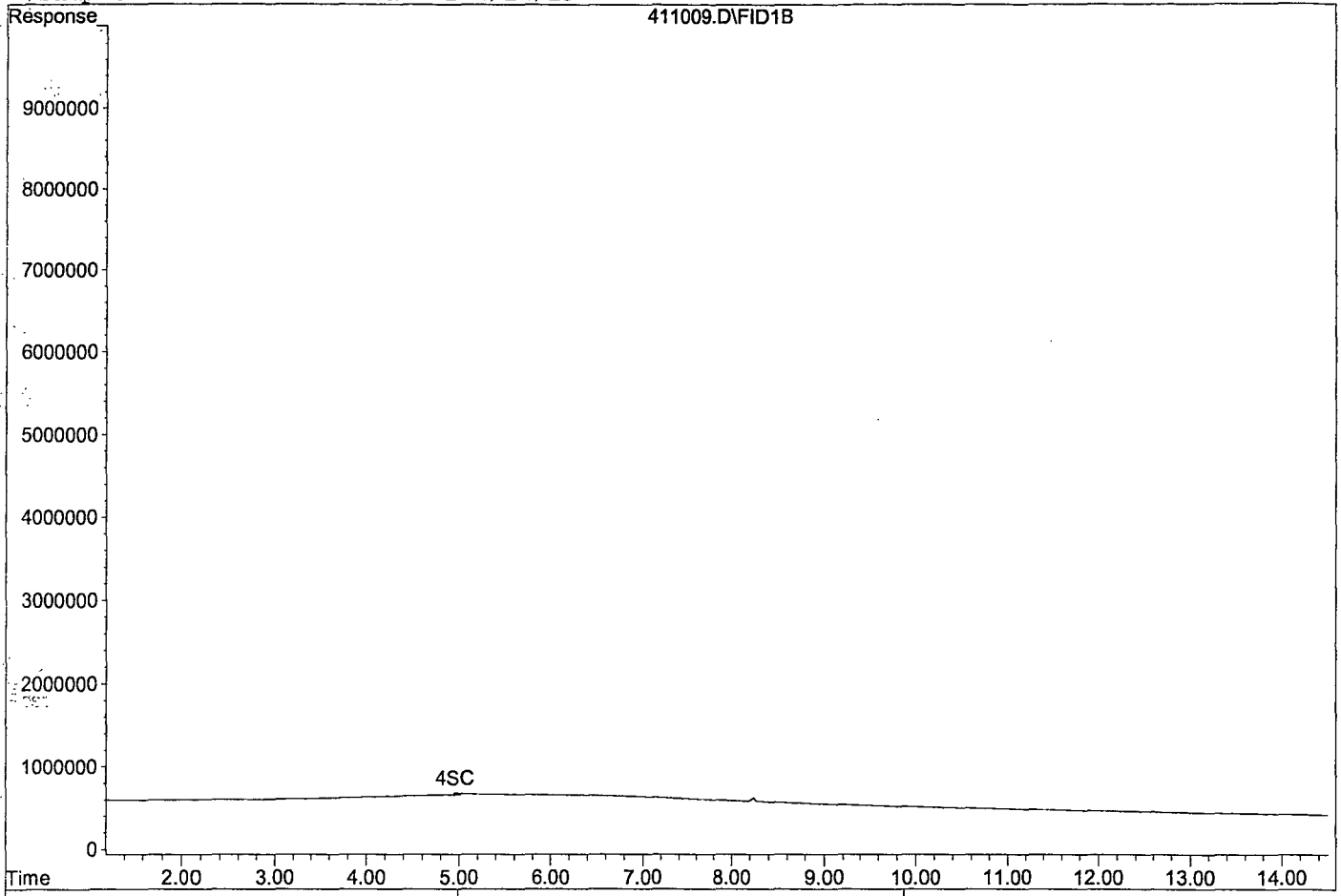
Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
4) SC Decanoic Acid(S)	4.95	901062	3.555	ppb m
Surrogate Spike 24.000		Recovery =	14.81%	
5) SA Octacosane(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
Target Compounds				
Target Compounds				
1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb

Data File: G:\APOLLO\DATA\190411\411009.D

Sample : Decanoic Acid - 1 4/11/19



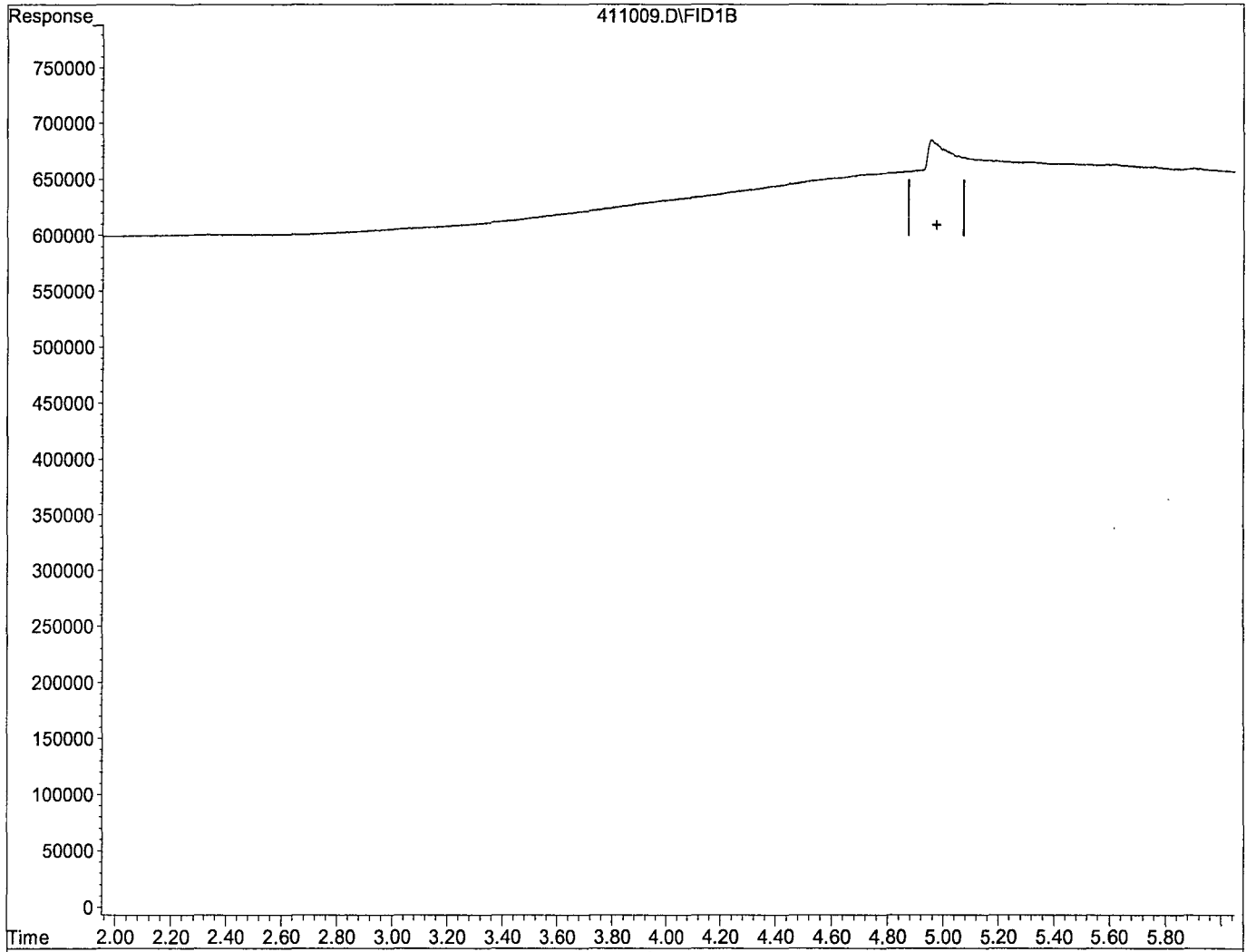
Quantitation Report

Data File : G:\APOLLO\DATA\190411\411009.D
Acq On : 4-11-19 15:57:31
Sample : Decanoic Acid - 1 4/11/19
Misc : water
IntFile : events.e
Quant Time: Jul 17 10:01 2019

Vial: 9
Operator: DP
Inst : Apollo
Multiplr: 1.00

Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Jul 17 09:56:49 2019
Response via : Multiple Level Calibration



(4) Decanoic Acid(S) (SC)

4.96min -2.682ppb

response -6352807

(+) = Expected Retention Time

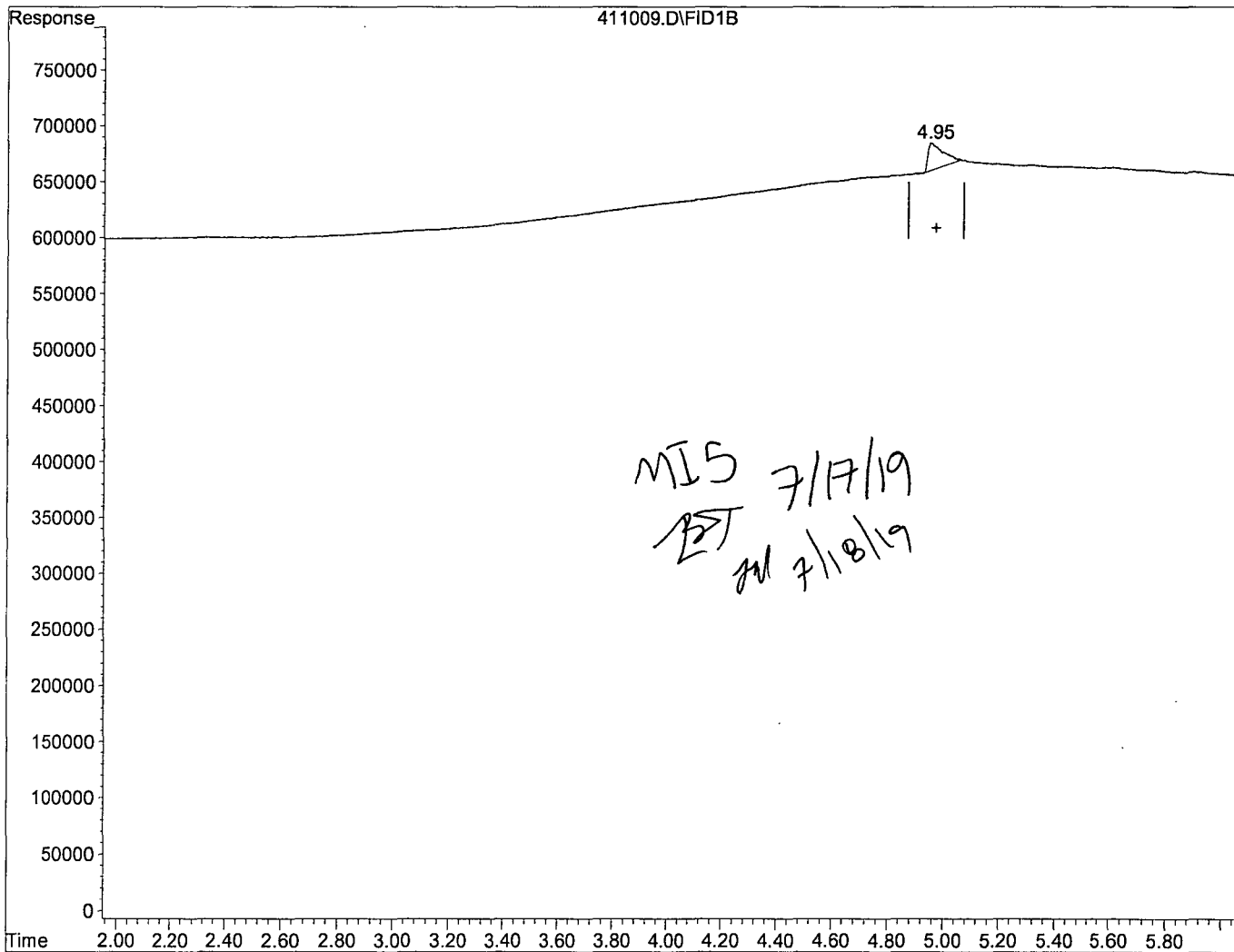
411009.D DOC0617.M

Wed Jul 17 10:03:57 2019

Quantitation Report

Data File : G:\APOLLO\DATA\190411\411009.D Vial: 9
Acq On : 4-11-19 15:57:31 Operator: DP
Sample : Decanoic Acid - 1 4/11/19 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Jul 17 10:01 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Jul 17 09:56:49 2019
Response via : Multiple Level Calibration



QEdit

(4) Decanoic Acid(S) (SC)
4.95min 3.555ppb m
response 901062

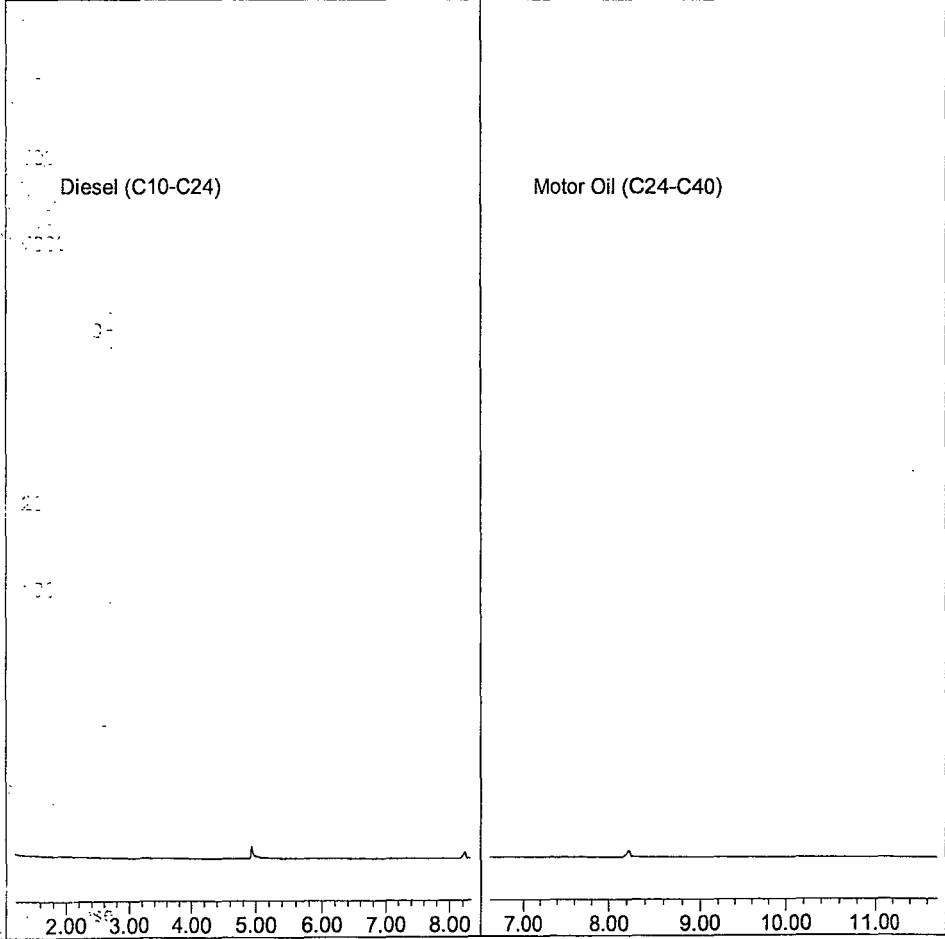
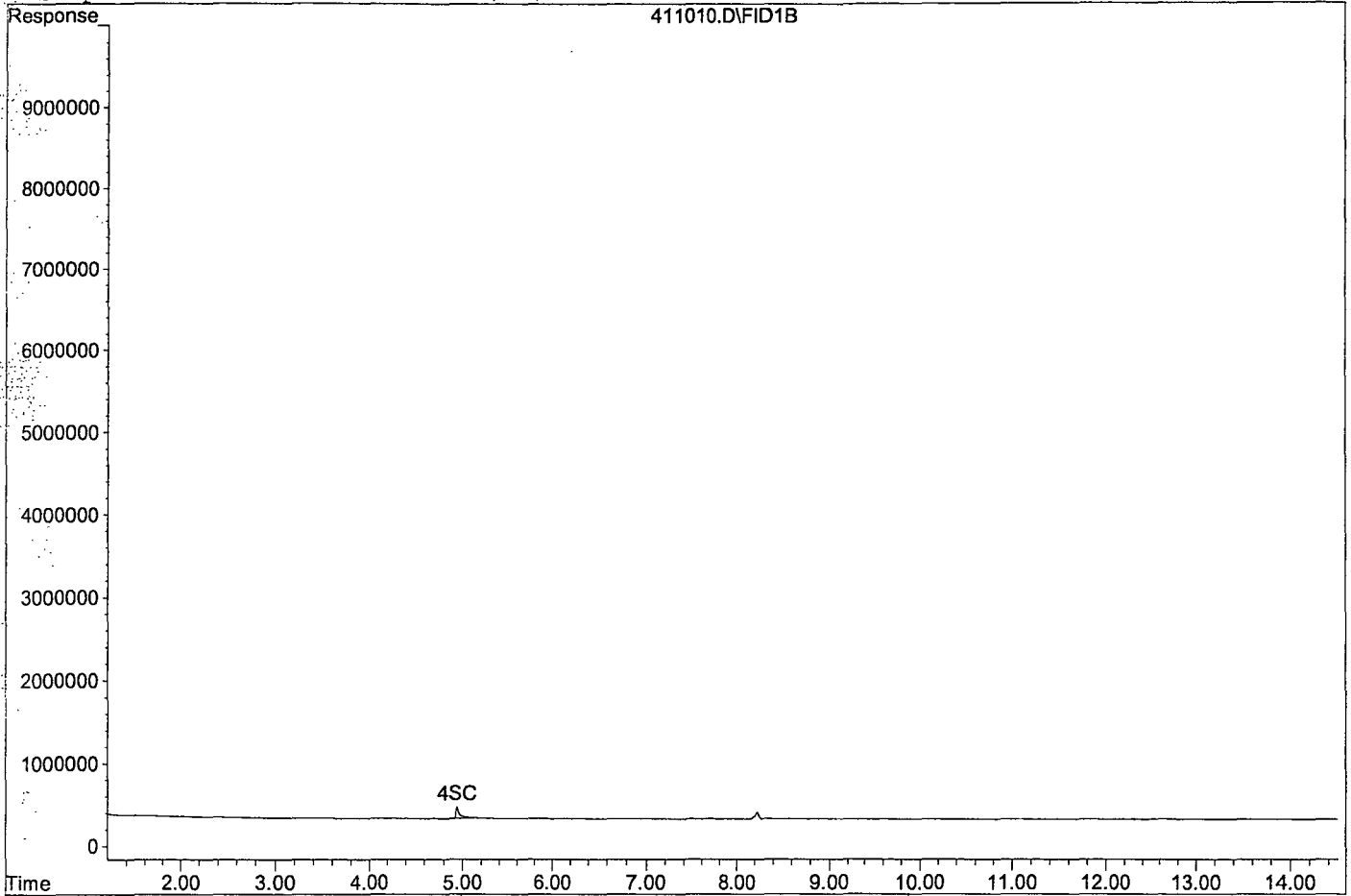
Data File : G:\APOLLO\DATA\190411\411010.D Vial: 10
 Acq On : 4-11-19 16:16:26 Operator: DP
 Sample : Decanoic Acid - 2 4/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:04 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl (S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
4) SC Decanoic Acid(S)	4.94	3775239	6.027	ppb
Surrogate Spike 24.000		Recovery =	25.11%	
5) SA Octacosane(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
Target Compounds				
Target Compounds				
1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb

Sample : Decanoic Acid - 2 4/11/19

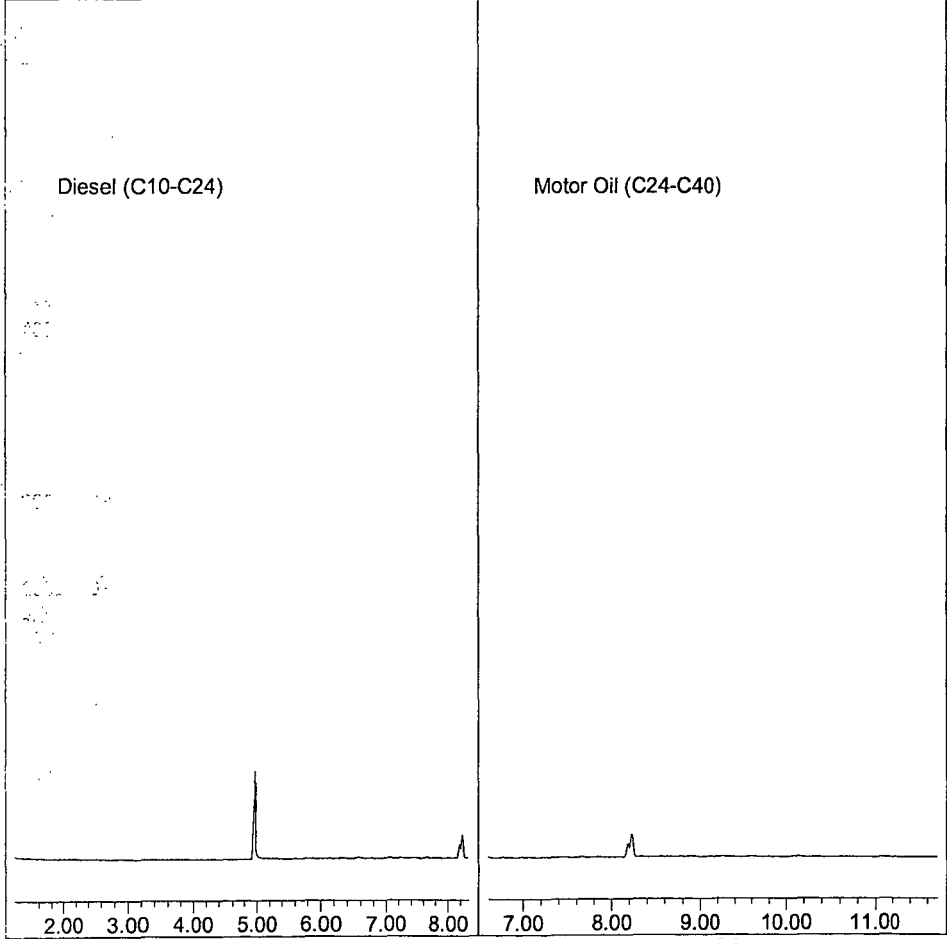
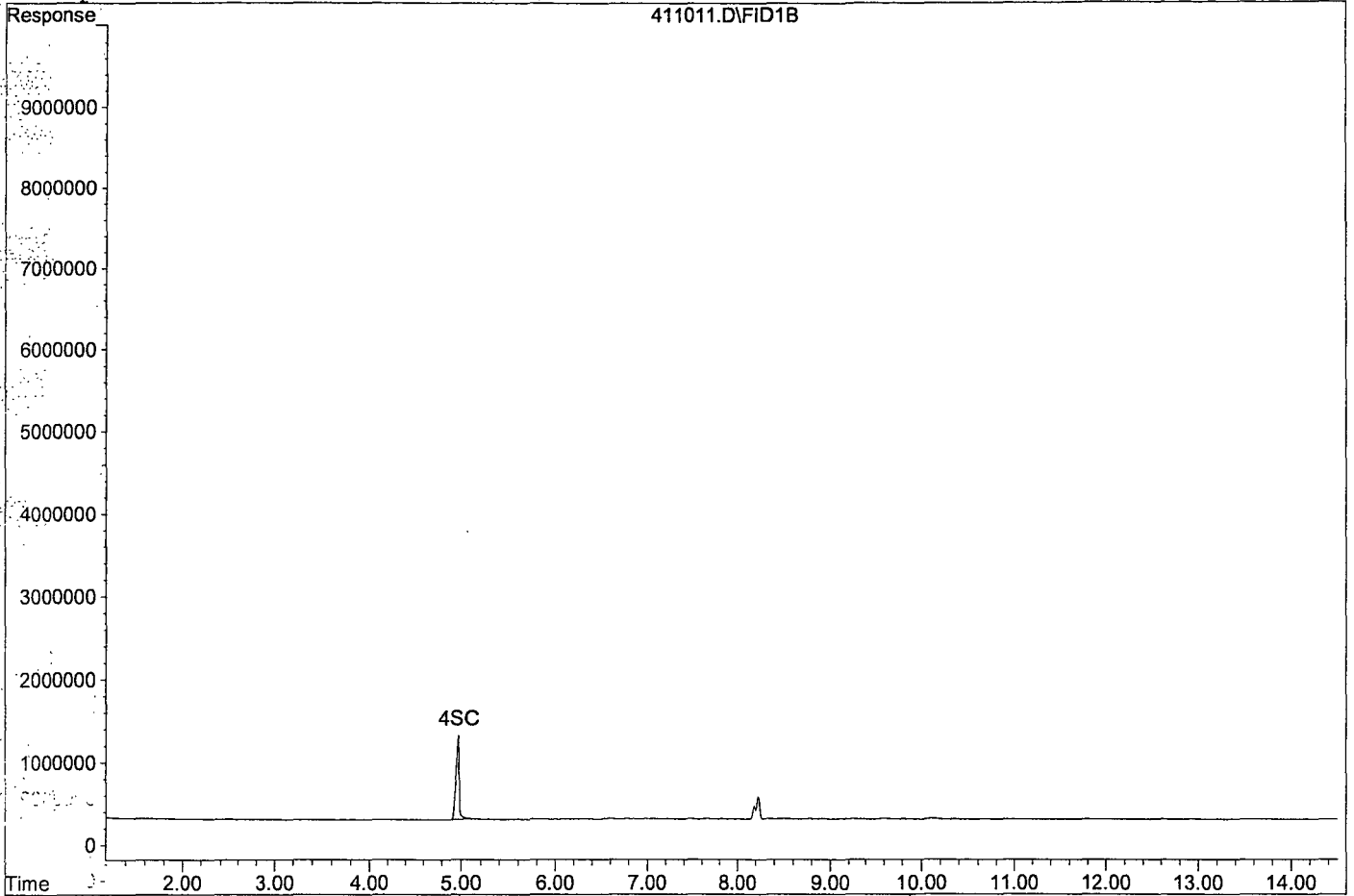


Data File : G:\APOLLO\DATA\190411\411011.D Vial: 11
 Acq On : 4-11-19 16:36:04 Operator: DP
 Sample : Decanoic Acid - 3 4/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:04 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
4) SC Decanoic Acid(S)	4.97	23638982	23.106	ppb
Surrogate Spike 24.000		Recovery =	96.28%	
5) SA Octacosane(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
Target Compounds				
Target Compounds				
1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb

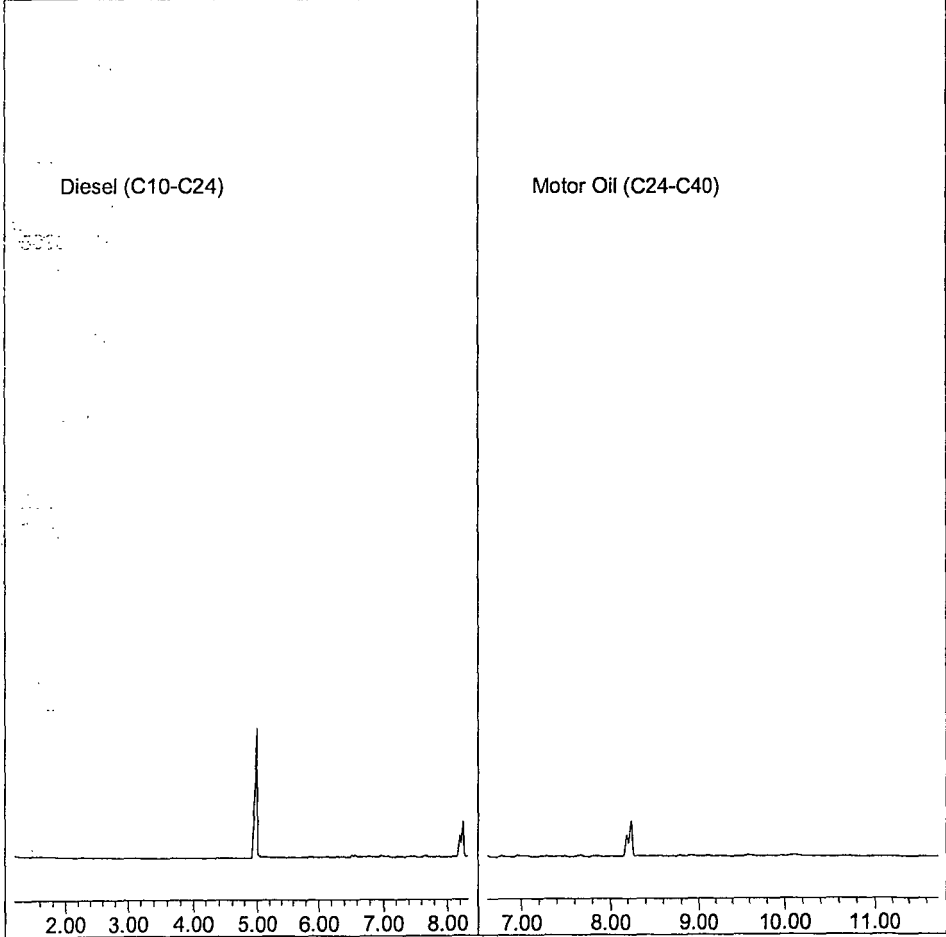
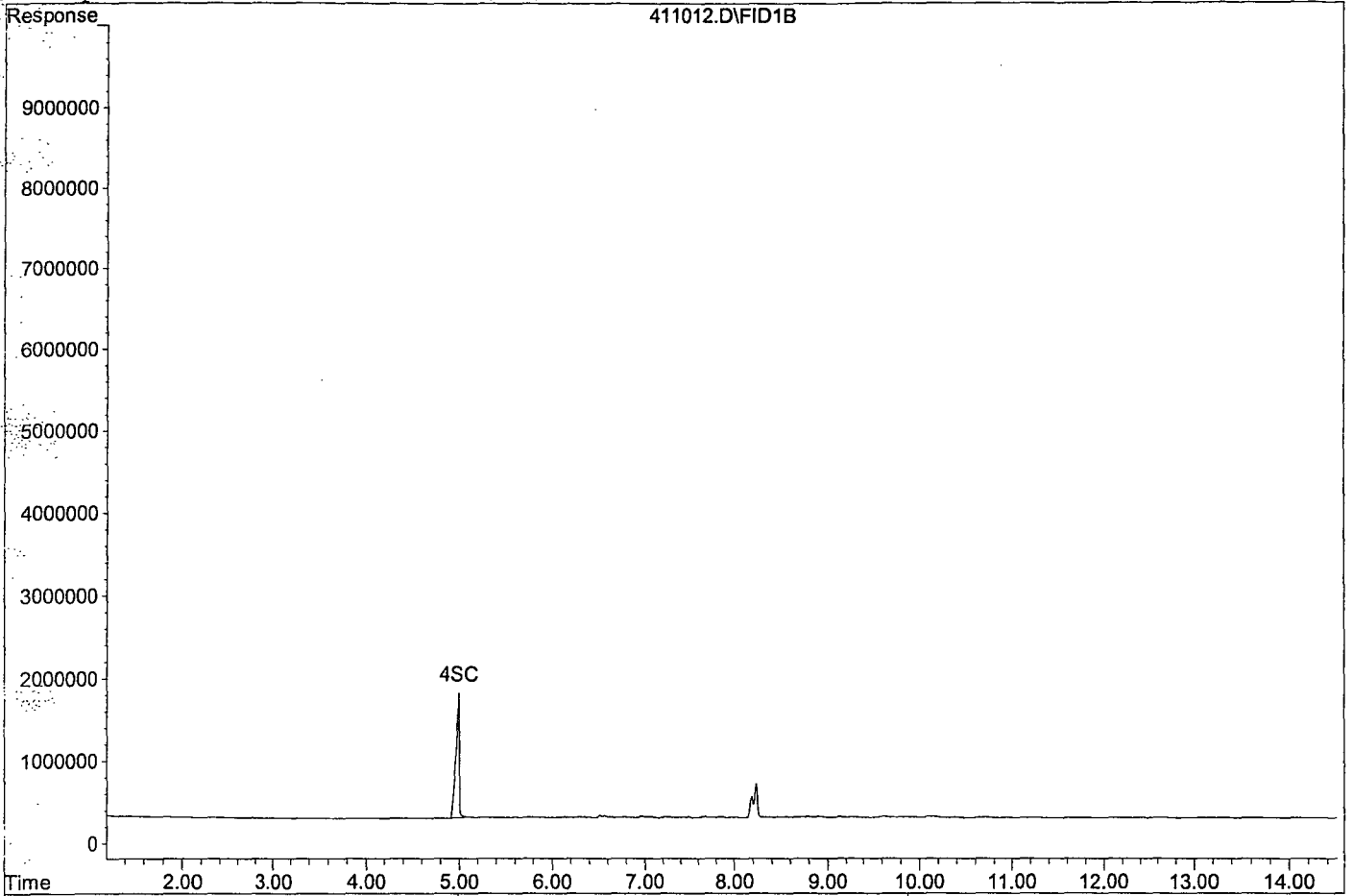


Data File : G:\APOLLO\DATA\190411\411012.D Vial: 12
 Acq On : 4-11-19 16:55:47 Operator: DP
 Sample : Decanoic Acid - 4 4/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:04 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
4) SC Decanoic Acid(S)	4.99	38673628	36.034	ppb
Surrogate Spike 24.000		Recovery =	150.14%	
5) SA Octacosane(S)	0.00	0	N.D.	ppb d
Surrogate Spike 37.500		Recovery =	0.00%	
Target Compounds				
Target Compounds				
1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb

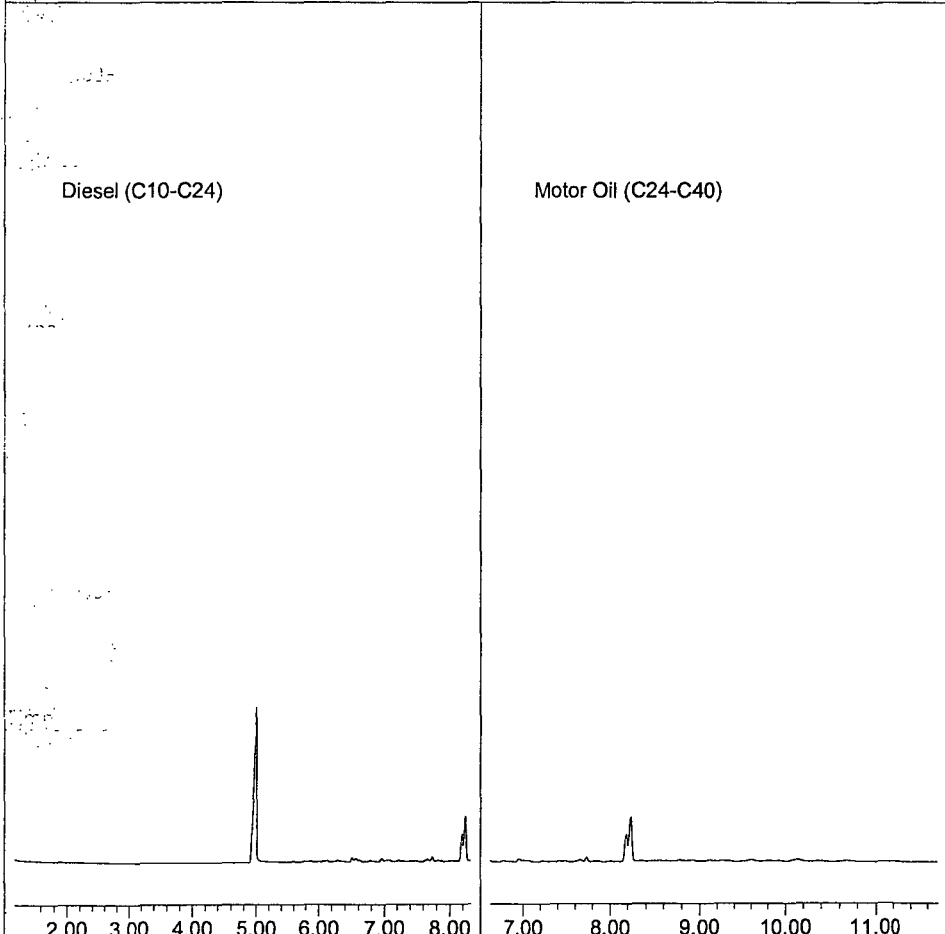
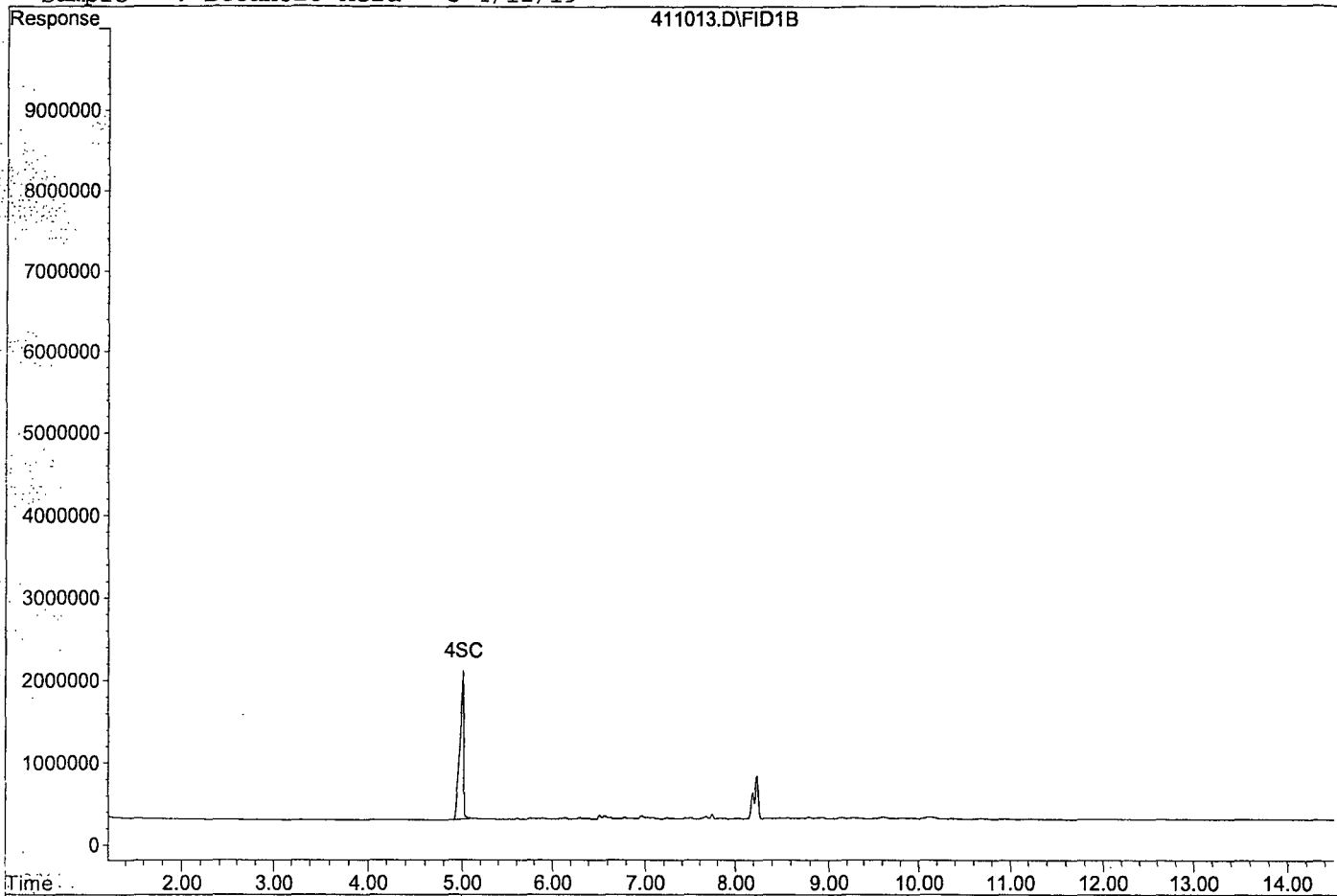


Data File : G:\APOLLO\DATA\190411\411013.D Vial: 13
 Acq On : 4-11-19 17:15:26 Operator: DP
 Sample : Decanoic Acid - 5 4/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:04 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	0.00	0	N.D. ppb d
Surrogate Spike 37.500		Recovery =	0.00%
4) SC Decanoic Acid(S)	5.00	52115206	47.592 ppb
Surrogate Spike 24.000		Recovery =	198.30%
5) SA Octacosane(S)	0.00	0	N.D. ppb d
Surrogate Spike 37.500		Recovery =	0.00%
Target Compounds			
Target Compounds			
1) HATM Diesel (C10-C24)	0.00	0	N.D. ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D. ppb

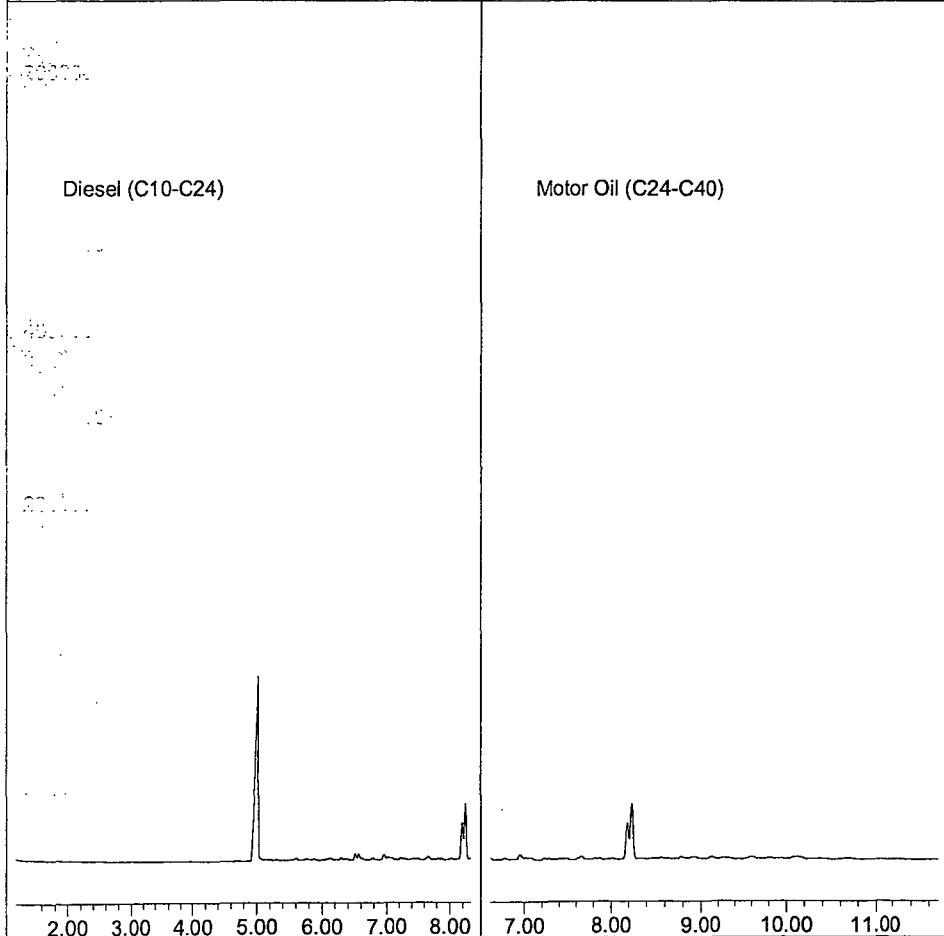
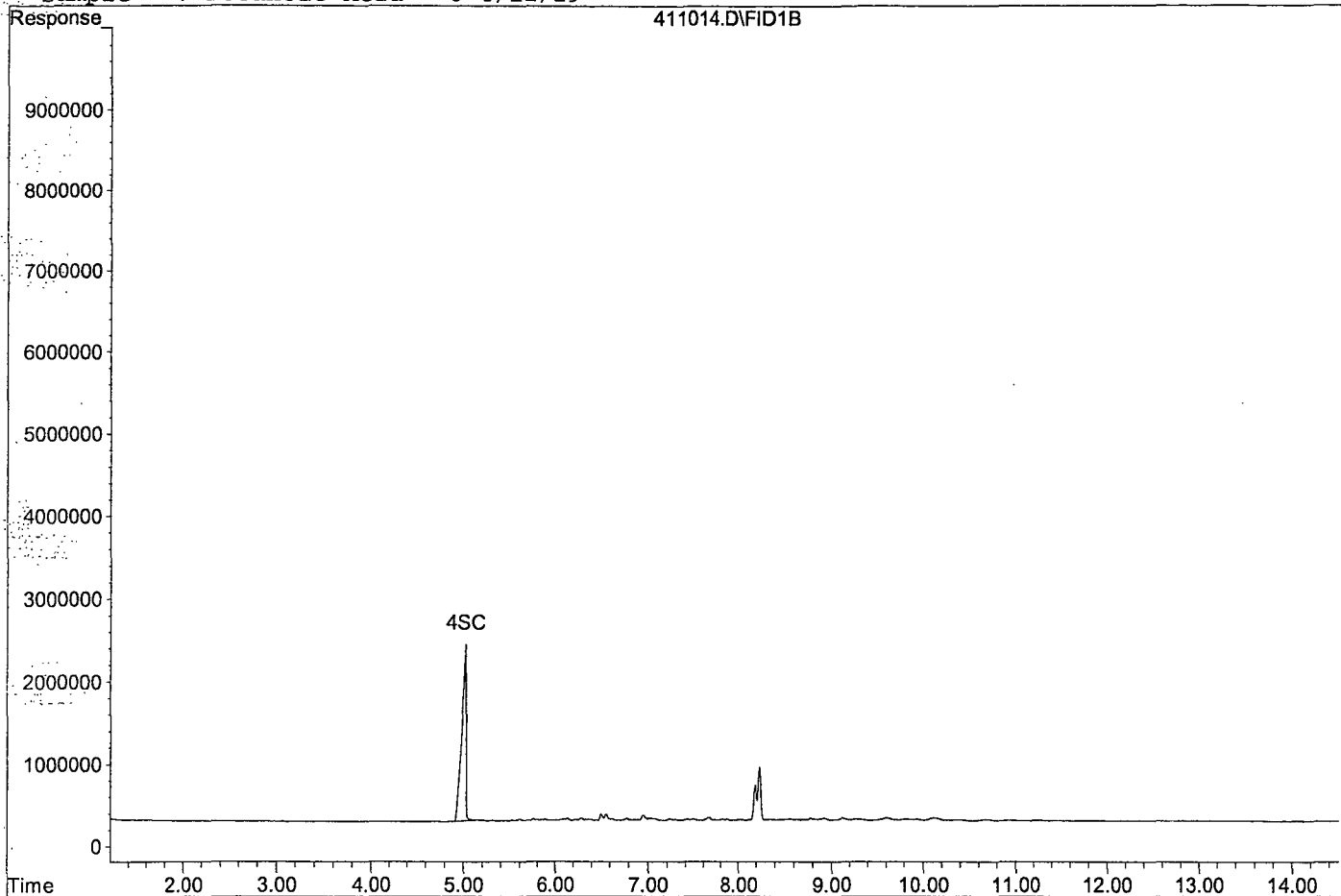


Data File : G:\APOLLO\DATA\190411\411014.D Vial: 14
 Acq On : 4-11-19 17:35:11 Operator: DP
 Sample : Decanoic Acid - 6 4/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Jul 17 10:05 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190617\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Jul 17 09:56:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	0.00	0	N.D. ppb d
Surrogate Spike 37.500		Recovery =	0.00%
4) SC Decanoic Acid(S)	5.02	67279572	60.631 ppb
Surrogate Spike 24.000		Recovery =	252.63%
5) SA Octacosane(S)	0.00	0	N.D. ppb d
Surrogate Spike 37.500		Recovery =	0.00%
Target Compounds			
Target Compounds			
1) HATM Diesel (C10-C24)	0.00	0	N.D. ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D. ppb



TPH Extractables
DOC0617

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: Water

SDG No: _____
Date Analyzed: 08/23/19
Instrument: Apollo
Initial Cal. Date: 06/17/19
Data File: 814256.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C24)	1351010	1162380	14	HATML	8.0
2	HBTM	Motor Oil (C24-C40)	916522	937323	2.3	HBTM	
3	SA	Ortho-Terphenyl(S)	1817470	1956000	7.6	SA	
4	SA	Octacosane(S)	1840270	1962010	6.6	SA	
5							
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33							
34							
35							
36							
37							
38							
39							
40		Average			7.6		

Data File : G:\APOLLO\DATA\190814\814256.D Vial: 56
 Acq On : 8-23-19 11:02:51 Operator: DP
 Sample : Diesel/Motor Oil CCV 8/22/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 27 11:06 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190814\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Mon Aug 12 12:39:32 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

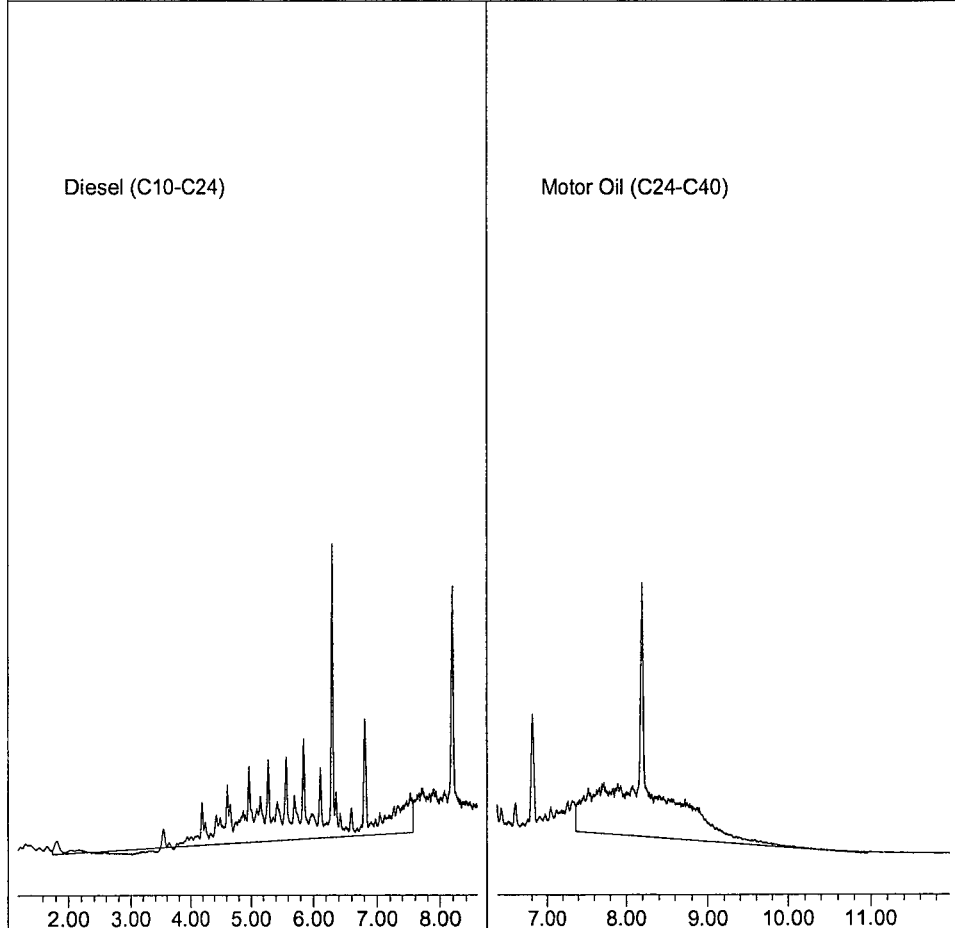
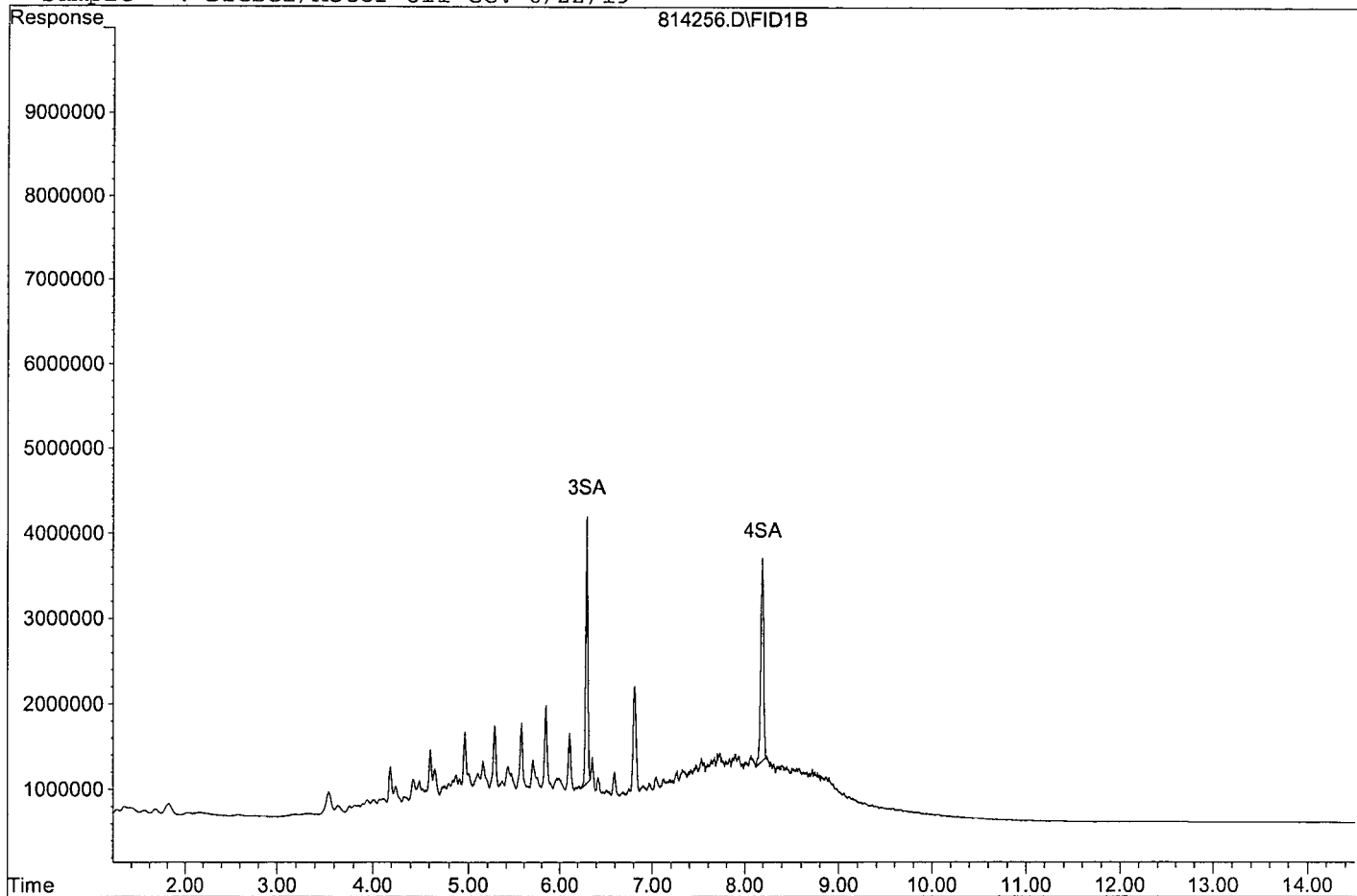
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.30	48899922	13.453 ppb
Surrogate Spike 30.000		Recovery =	44.84%
4) SA Octacosane(S)	8.19	49050330	13.327 ppb
Surrogate Spike 30.000		Recovery =	44.42%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	581191884	269.914 ppb
2) HBTM Motor Oil (C24-C40)	9.16	468661466	255.674 ppb

Target Compounds

Data File: G:\APOLLO\DATA\190814\814256.D

Sample : Diesel/Motor Oil CCV 8/22/19



TPH Extractables
DOC0617

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: Water

SDG No: _____
Date Analyzed: 08/23/19
Instrument: Apollo
Initial Cal. Date: 06/17/19
Data File: 814268.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C24)	1351010	1180660	13	HATML	9.7
2	HBTM	Motor Oil (C24-C40)	916522	933503	1.9	HBTM	
3	SA	Ortho-Terphenyl(S)	1817470	2010910	11	SA	
4	SA	Octacosane(S)	1840270	1955240	6.2	SA	
5							
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38							
39							
40							

Average

8.0

Data File : G:\APOLLO\DATA\190814\814268.D Vial: 68
 Acq On : 8-23-19 16:37:42 Operator: DP
 Sample : Diesel/Motor Oil CCV 8/22/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 27 11:06 2019 Quant Results File: DOC0617.RES

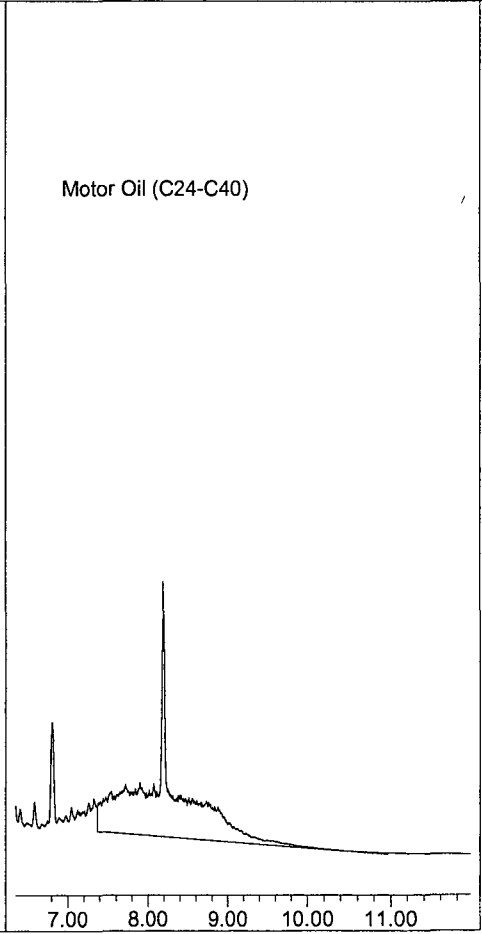
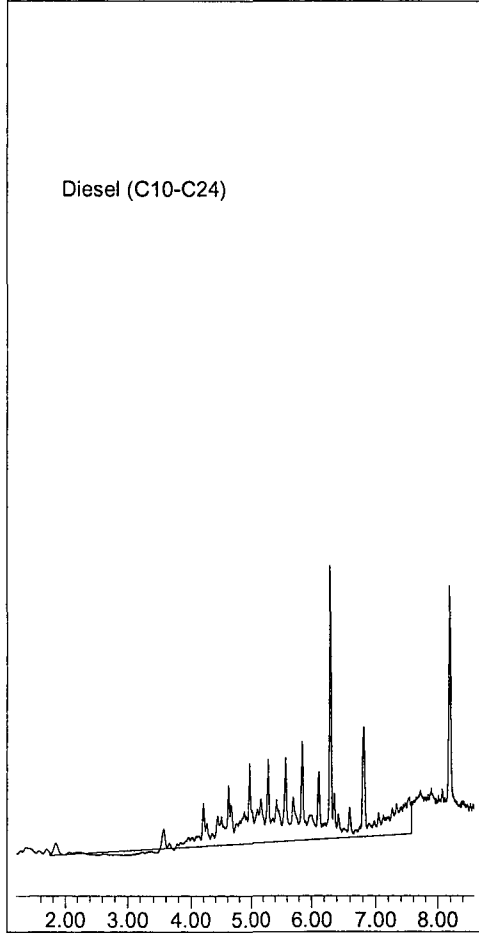
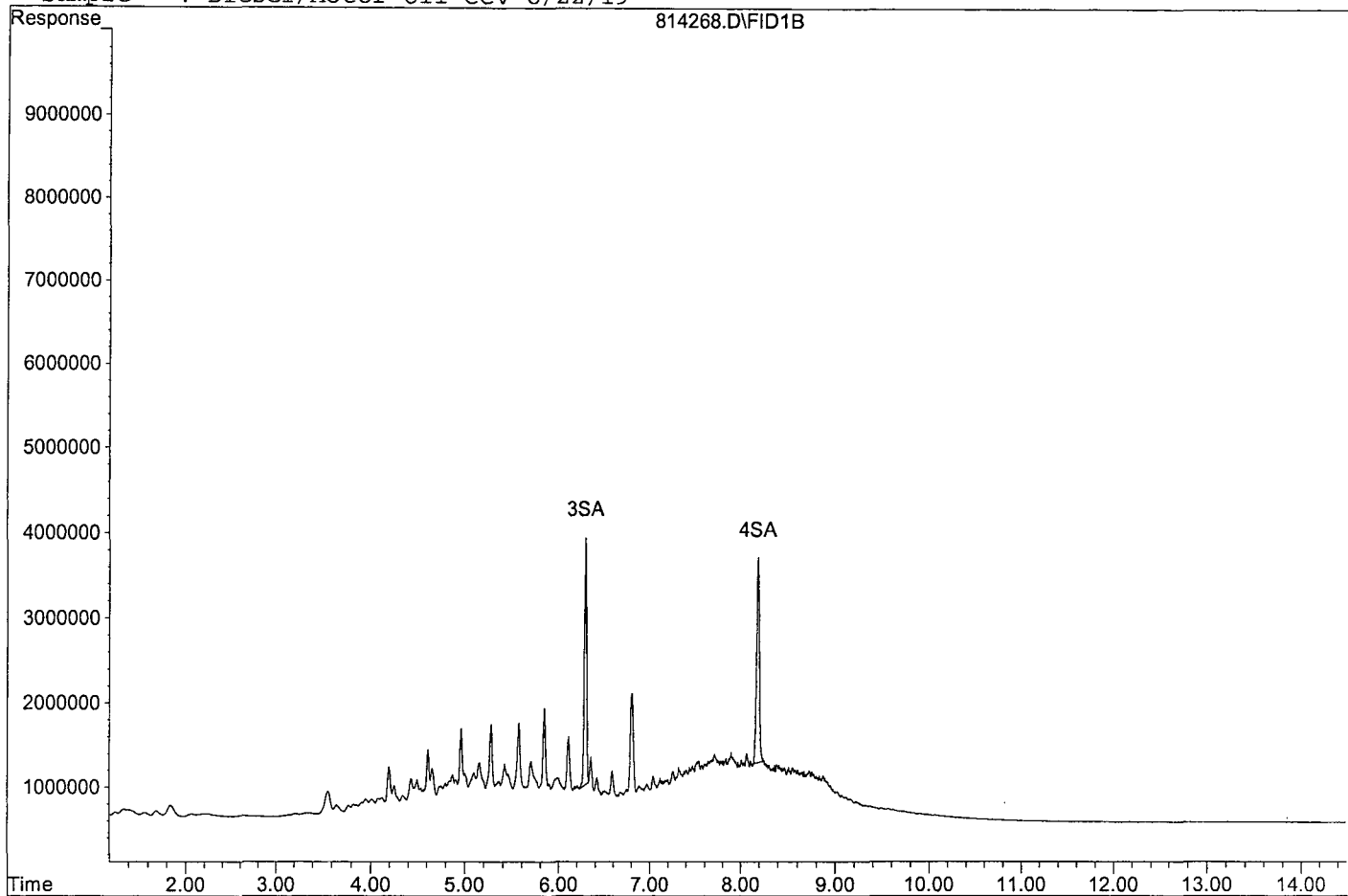
Method : G:\APOLLO\DATA\190814\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Mon Aug 12 12:39:32 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.30	50272737	13.830 ppb
Surrogate Spike 30.000		Recovery =	46.10%
4) SA Octacosane(S)	8.19	48881024	13.281 ppb
Surrogate Spike 30.000		Recovery =	44.27%
Target Compounds			
1) HATM Diesel (C10-C24)	4.66	590329815	274.136 ppb
2) HBTM Motor Oil (C24-C40)	9.16	466751433	254.632 ppb
Target Compounds			

Sample : Diesel/Motor Oil CCV 8/22/19



ORGANICS
Raw Data

Data File : G:\APOLLO\DATA\190814\814260.D Vial: 60
 Acq On : 8-23-19 13:55:42 Operator: DP
 Sample : AZ95858W12 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 27 11:13 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190814\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Mon Aug 12 12:39:32 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

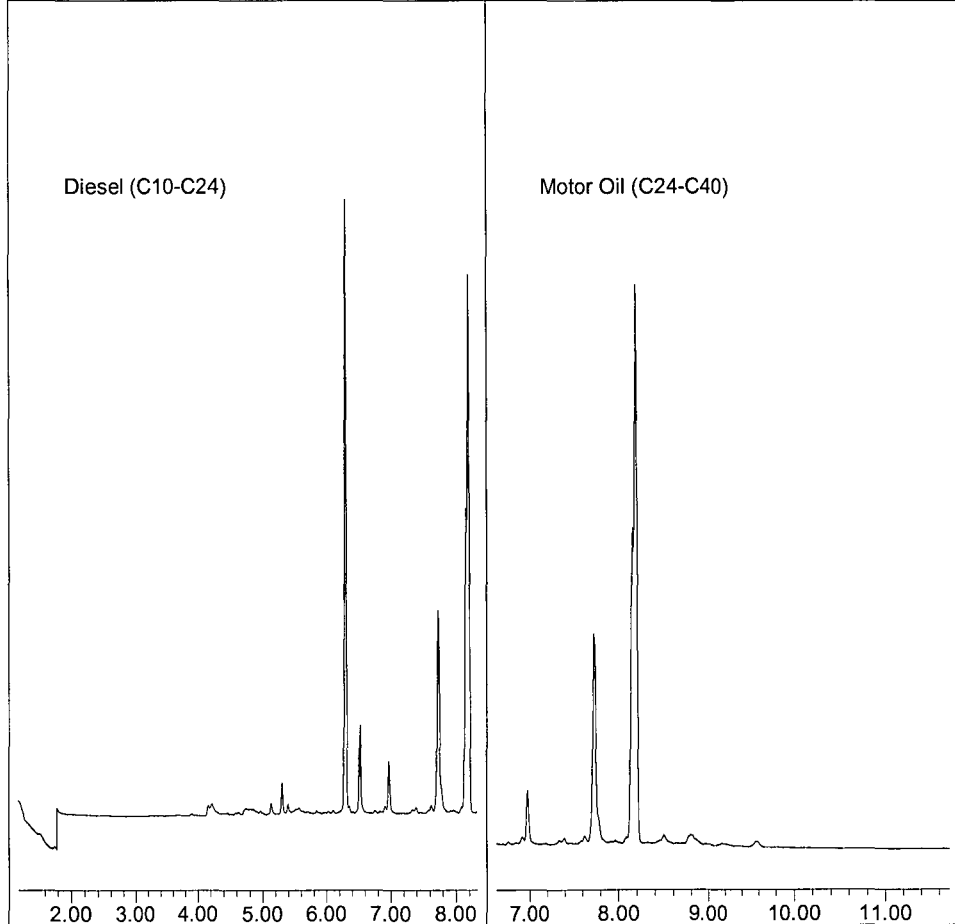
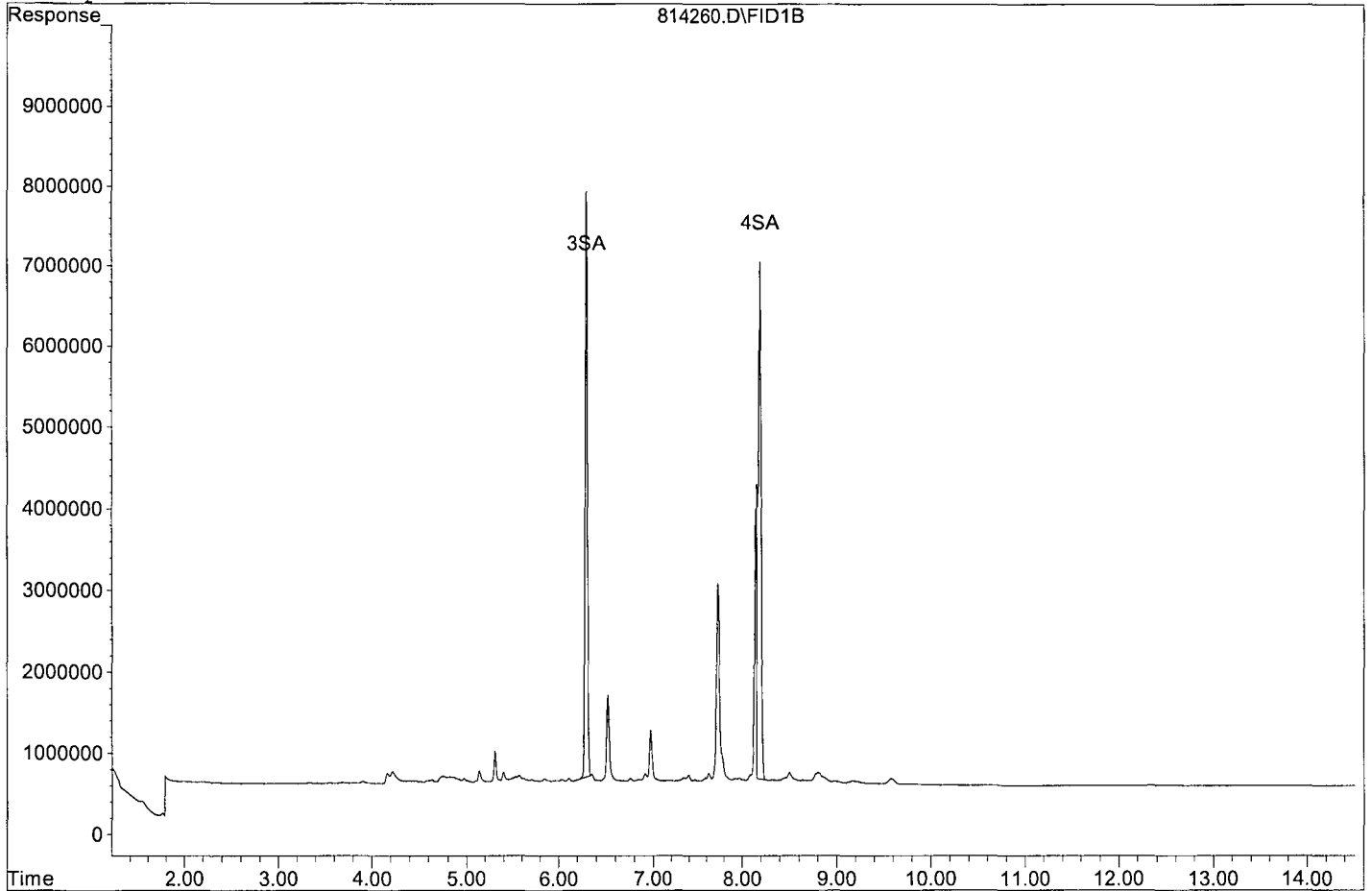
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.30	122599843	84.320 ppb
Surrogate Spike 75.000		Recovery =	112.43%
4) SA Octacosane(S)	8.19	146235524	99.330 ppb m
Surrogate Spike 75.000		Recovery =	132.44%
Target Compounds			
Target Compounds			
1) HATM Diesel (C10-C24)	0.00	0	N.D. ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D. ppb

Quantitation Report

Data File: G:\APOLLO\DATA\190814\814260.D

Sample : AZ95858W12 2/800



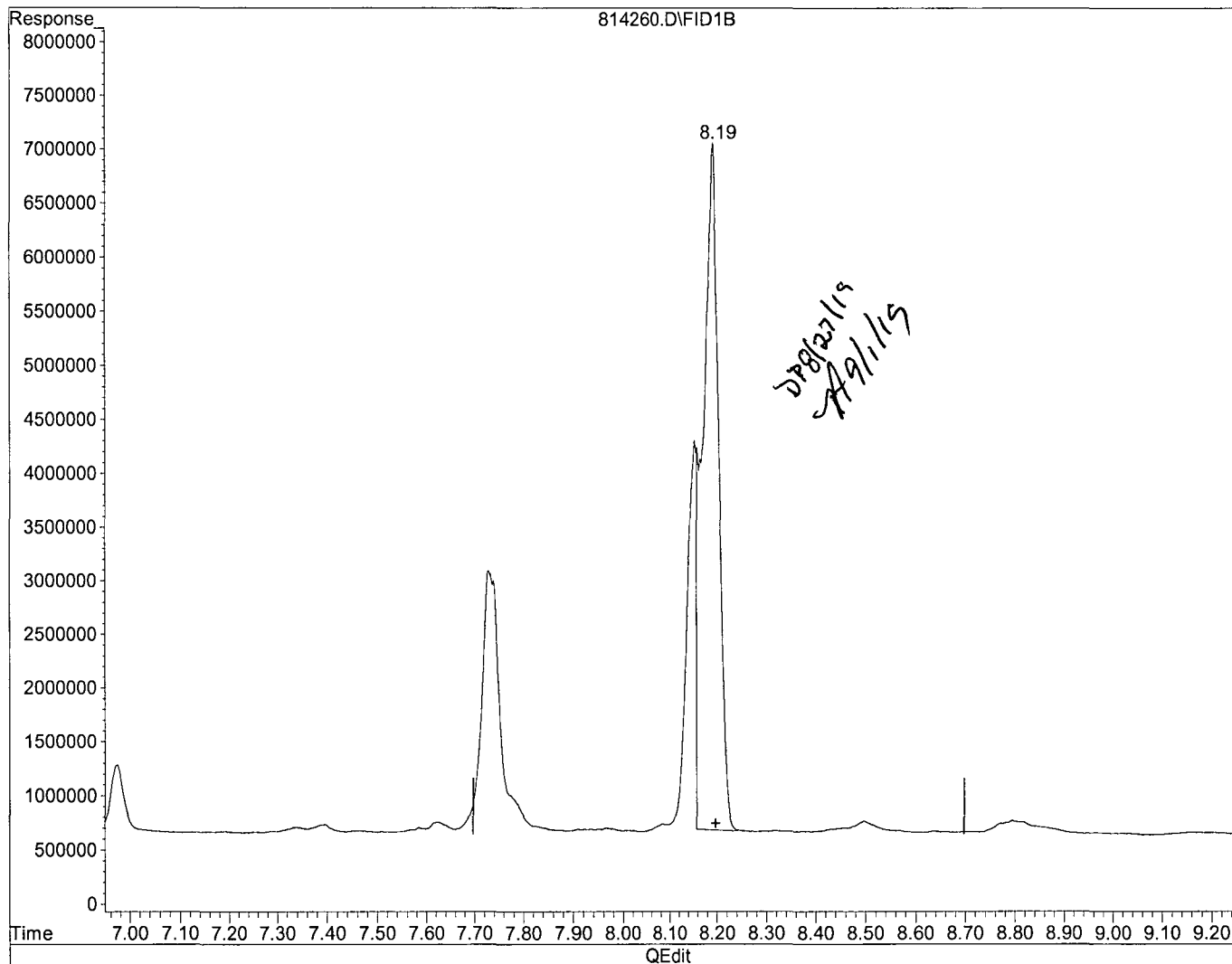
Quantitation Report

Data File : G:\APOLLO\DATA\190814\814260.D
Acq On : 8-23-19 13:55:42
Sample : AZ95858W12 2/800
Misc : water
IntFile : events.e
Quant Time: Aug 27 11:13 2019

Vial: 60
Operator: DP
Inst : Apollo
Multiplr: 2.50

Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190814\DOC0617.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Aug 12 12:39:32 2019
Response via : Multiple Level Calibration



(4) Octacosane(S) (SA)

8.19min 99.330ppb m

response 146235524

(+) = Expected Retention Time

Data File : G:\APOLLO\DATA\190814\814257.D Vial: 57
 Acq On : 8-23-19 12:55:57 Operator: DP
 Sample : 190805A BLK 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 27 11:08 2019 Quant Results File: DOC0617.RES

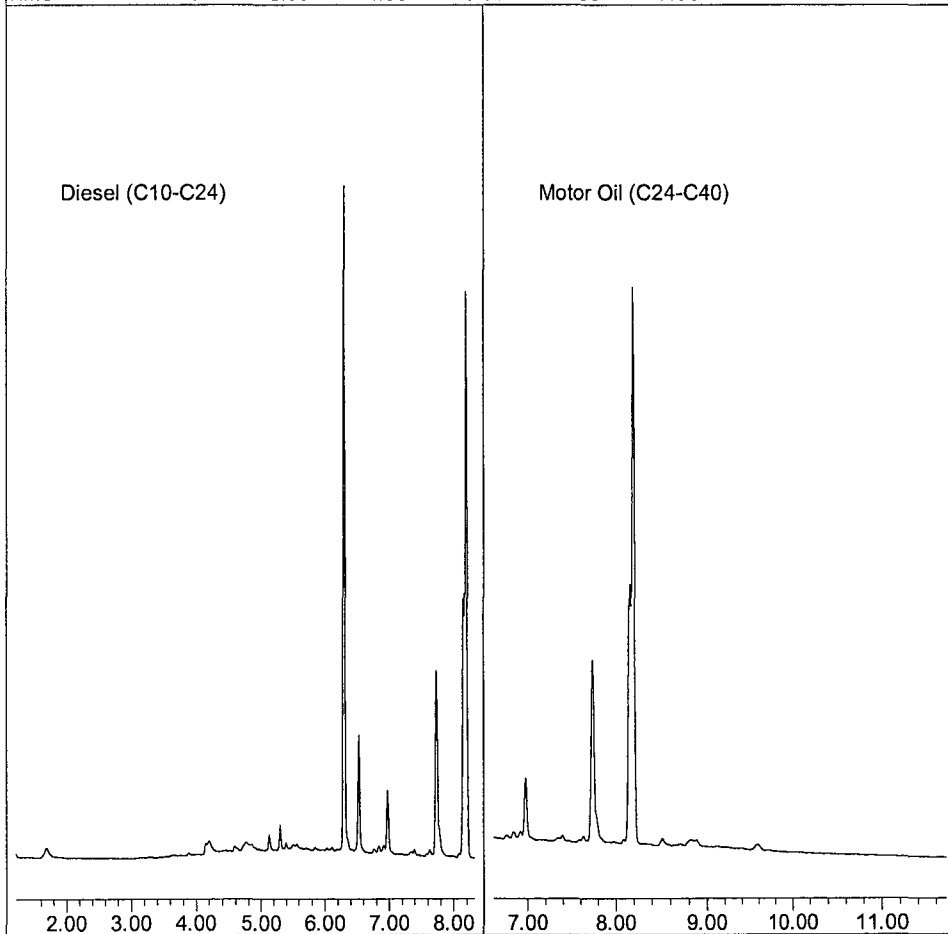
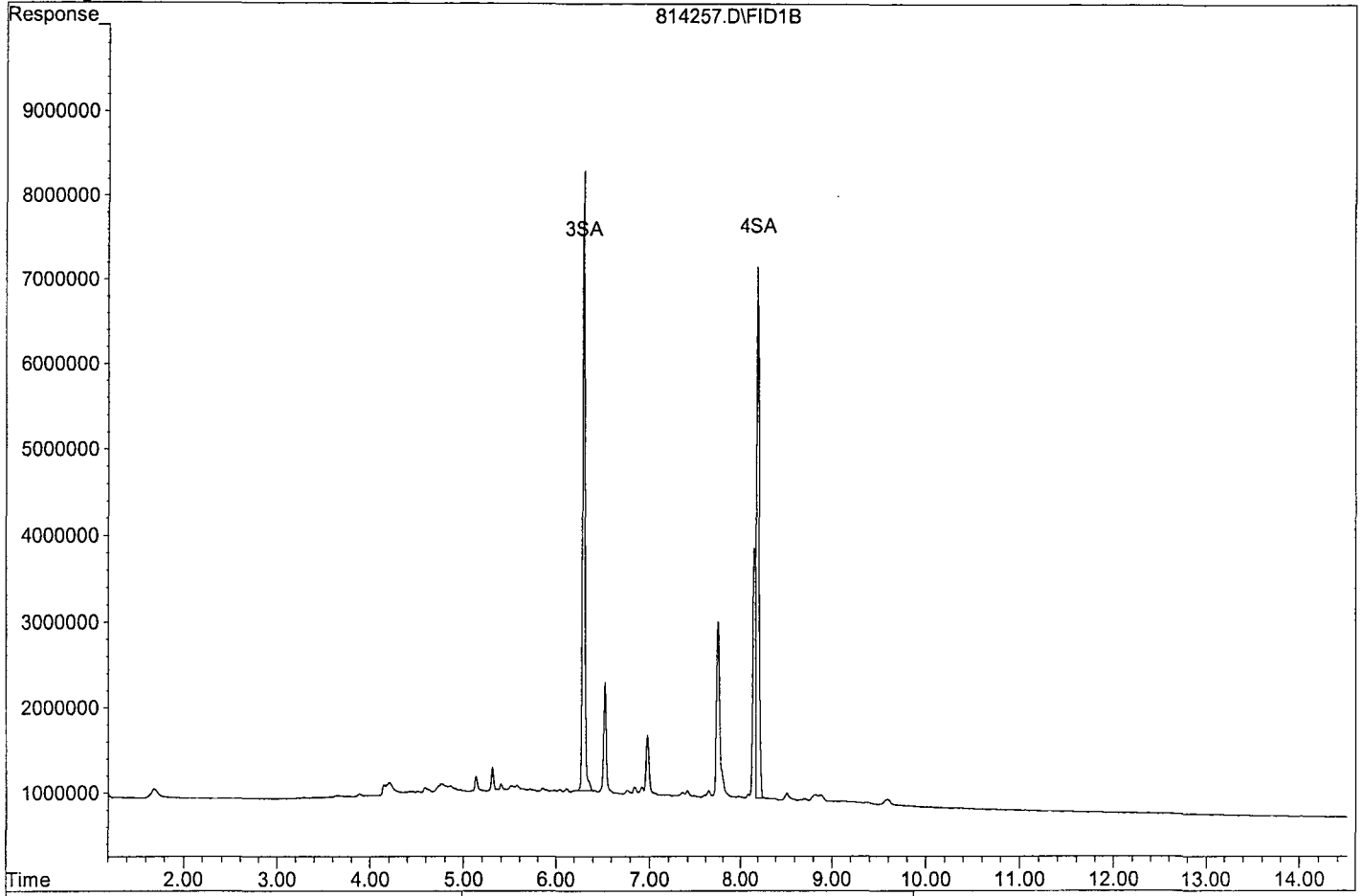
Method : G:\APOLLO\DATA\190814\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Mon Aug 12 12:39:32 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.30	124427362	85.577 ppb
Surrogate Spike 75.000		Recovery =	114.10%
4) SA Octacosane(S)	8.19	117778250	80.001 ppb m
Surrogate Spike 75.000		Recovery =	106.67%
Target Compounds			
Target Compounds			
1) HATM Diesel (C10-C24)	0.00	0	N.D. ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D. ppb

Data File: G:\APOLLO\DATA\190814\814257.D

Sample : 190805A BLK 2/800



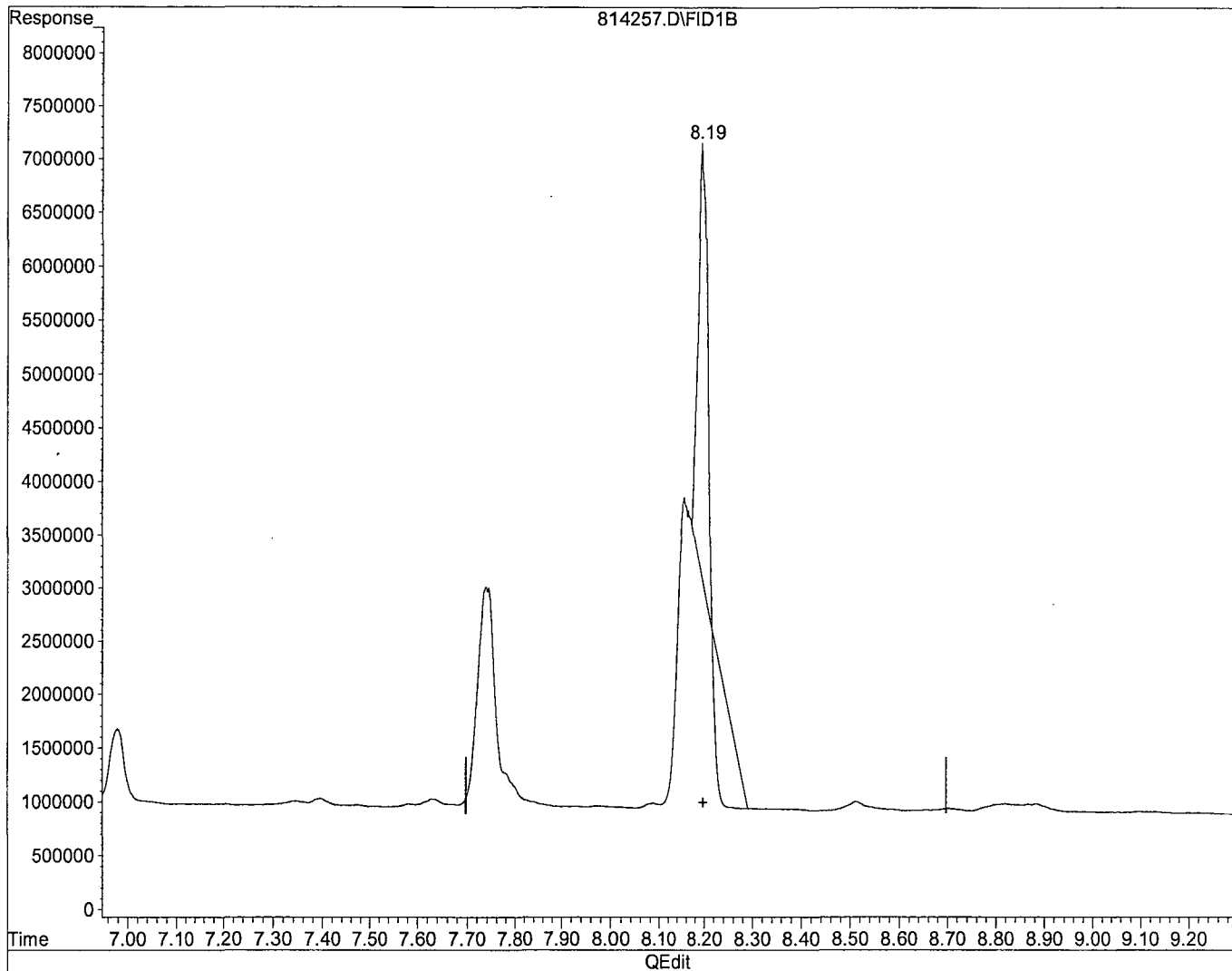
Quantitation Report

Data File : G:\APOLLO\DATA\190814\814257.D
Acq On : 8-23-19 12:55:57
Sample : 190805A BLK 2/800
Misc : water
IntFile : events.e
Quant Time: Aug 27 11:06 2019

Vial: 57
Operator: DP
Inst : Apollo
Multiplr: 2.50

Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190814\DOC0617.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Aug 12 12:39:32 2019
Response via : Multiple Level Calibration



(4) Octacosane(S) (SA)
8.20min 18.569ppb
response 27337818

(+) = Expected Retention Time

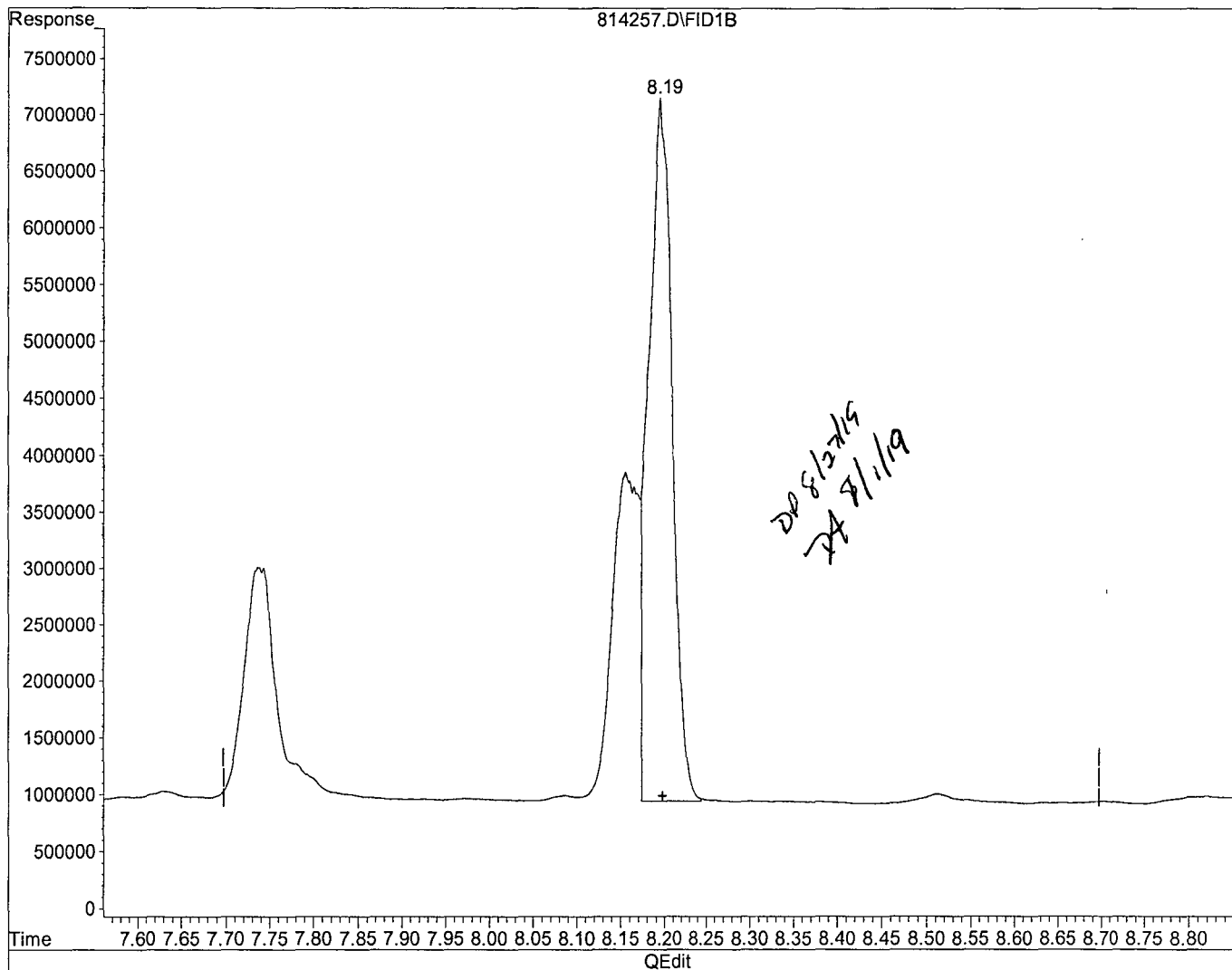
Quantitation Report

Data File : G:\APOLLO\DATA\190814\814257.D
Acq On : 8-23-19 12:55:57
Sample : 190805A BLK 2/800
Misc : water
IntFile : events.e
Quant Time: Aug 27 11:06 2019

Vial: 57
Operator: DP
Inst : Apollo
Multiplr: 2.50

Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190814\DOC0617.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Aug 12 12:39:32 2019
Response via : Multiple Level Calibration



(4) Octacosane(S) (SA)
8.19min 80.001ppb m
response 117778250

(+) = Expected Retention Time

Data File : G:\APOLLO\DATA\190814\814258.D Vial: 58
 Acq On : 8-23-19 13:15:43 Operator: DP
 Sample : 190805A LCS-1 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 27 11:11 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190814\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Mon Aug 12 12:39:32 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

3) SA Ortho-Terphenyl(S)	6.30	107937267	74.236 ppb
Surrogate Spike 75.000		Recovery =	98.98%
4) SA Octacosane(S)	8.20	124695633	84.699 ppb m
Surrogate Spike 75.000		Recovery =	112.93%

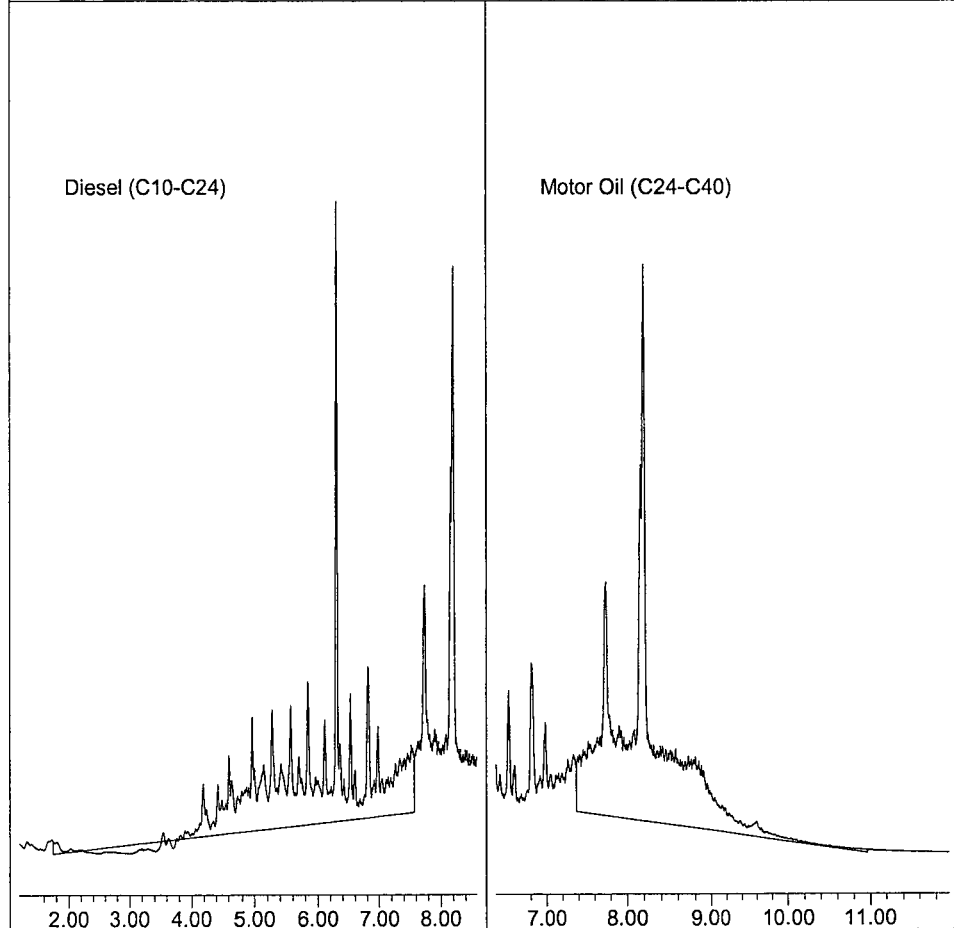
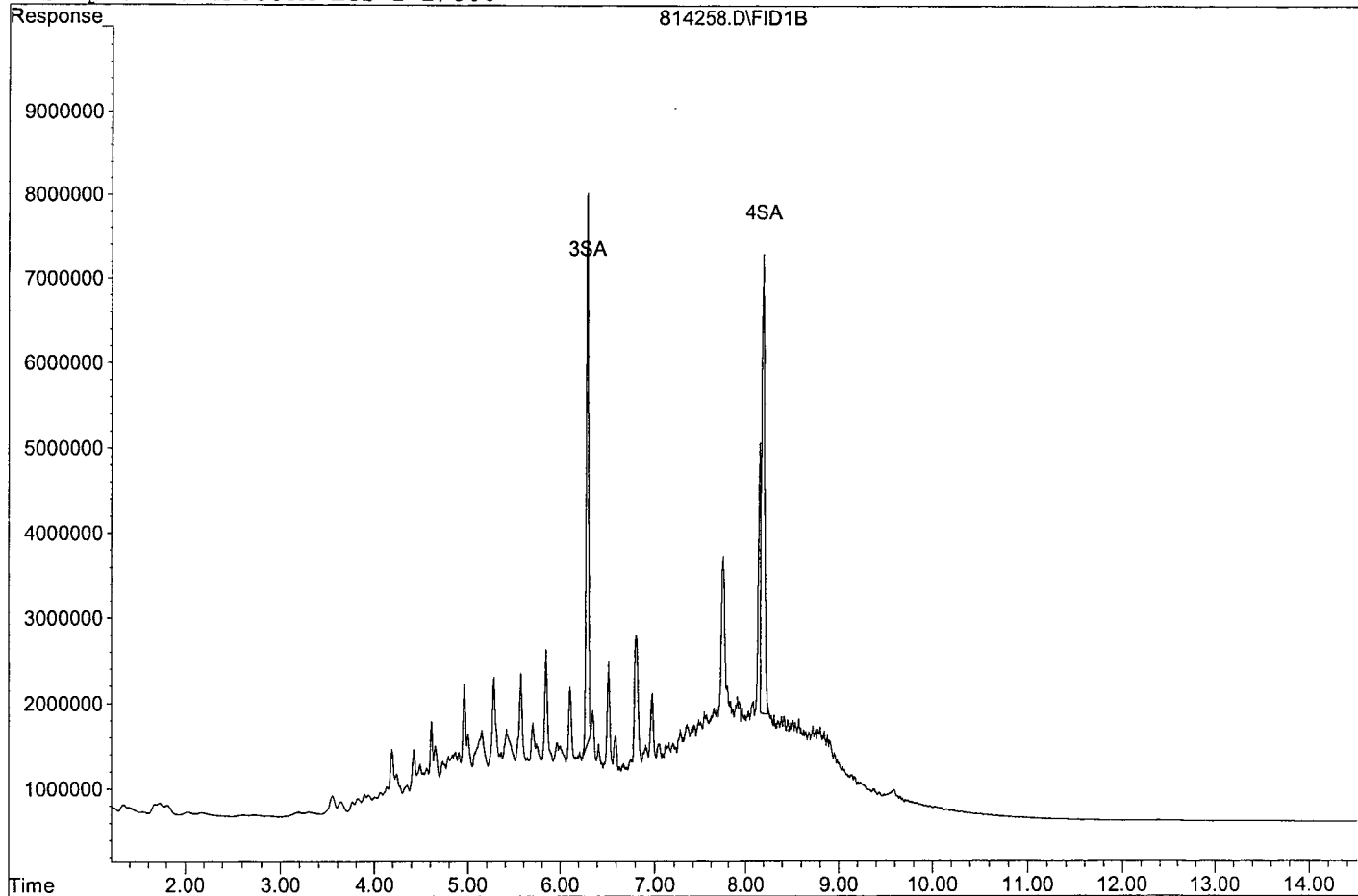
Target Compounds

1) HATM Diesel (C10-C24)	4.66	1007666281	1167.349 ppb
2) HBTM Motor Oil (C24-C40)	9.16	905159449	1234.504 ppb

Target Compounds

Data File: G:\APOLLO\DATA\190814\814258.D

Sample : 190805A LCS-1 2/800



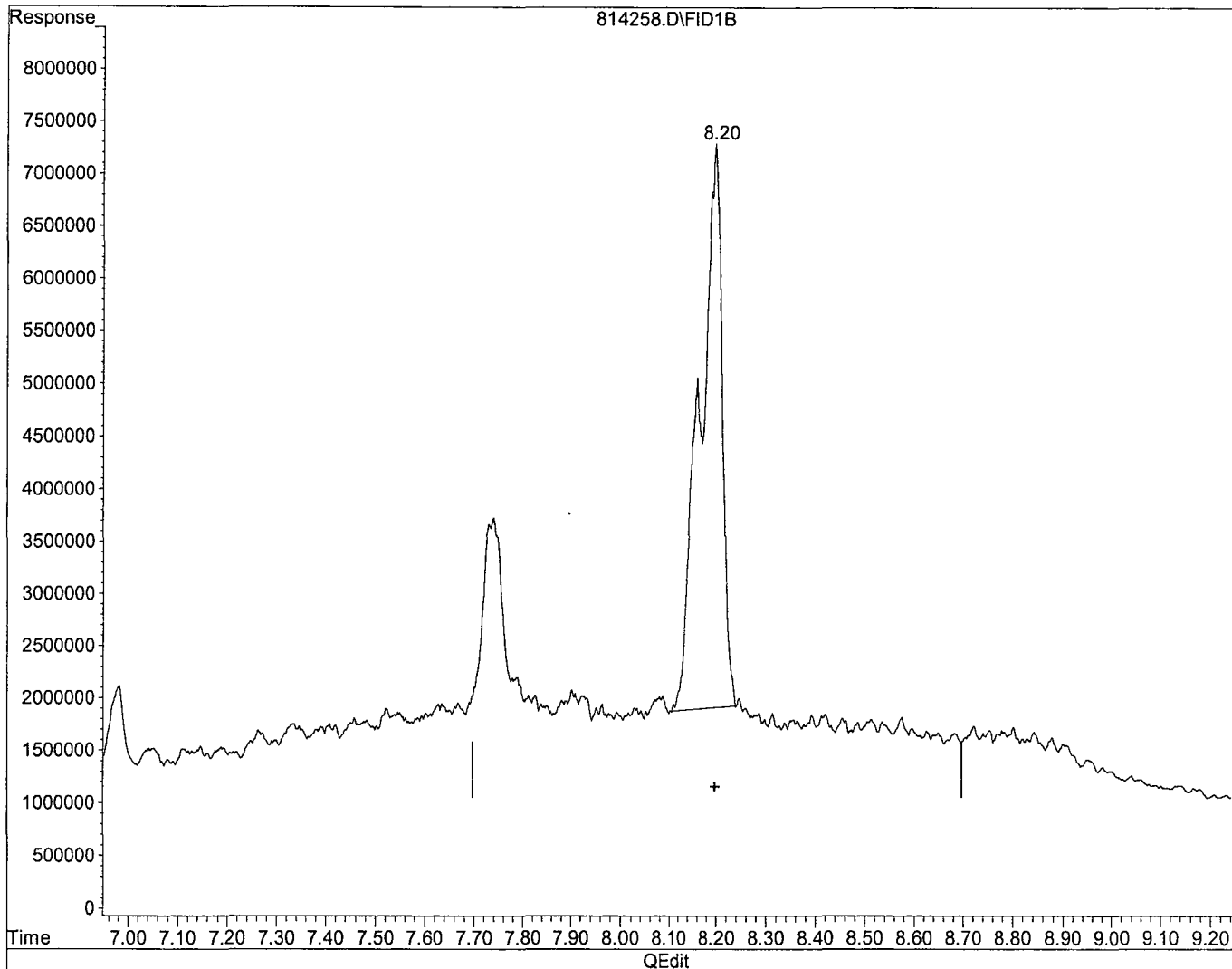
Quantitation Report

Data File : G:\APOLLO\DATA\190814\814258.D
Acq On : 8-23-19 13:15:43
Sample : 190805A LCS-1 2/800
Misc : water
IntFile : events.e
Quant Time: Aug 27 11:06 2019

Vial: 58
Operator: DP
Inst : Apollo
Multiplr: 2.50

Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190814\DOC0617.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Aug 12 12:39:32 2019
Response via : Multiple Level Calibration



(4) Octacosane(S) (SA)
8.20min 116.898ppb
response 172098575

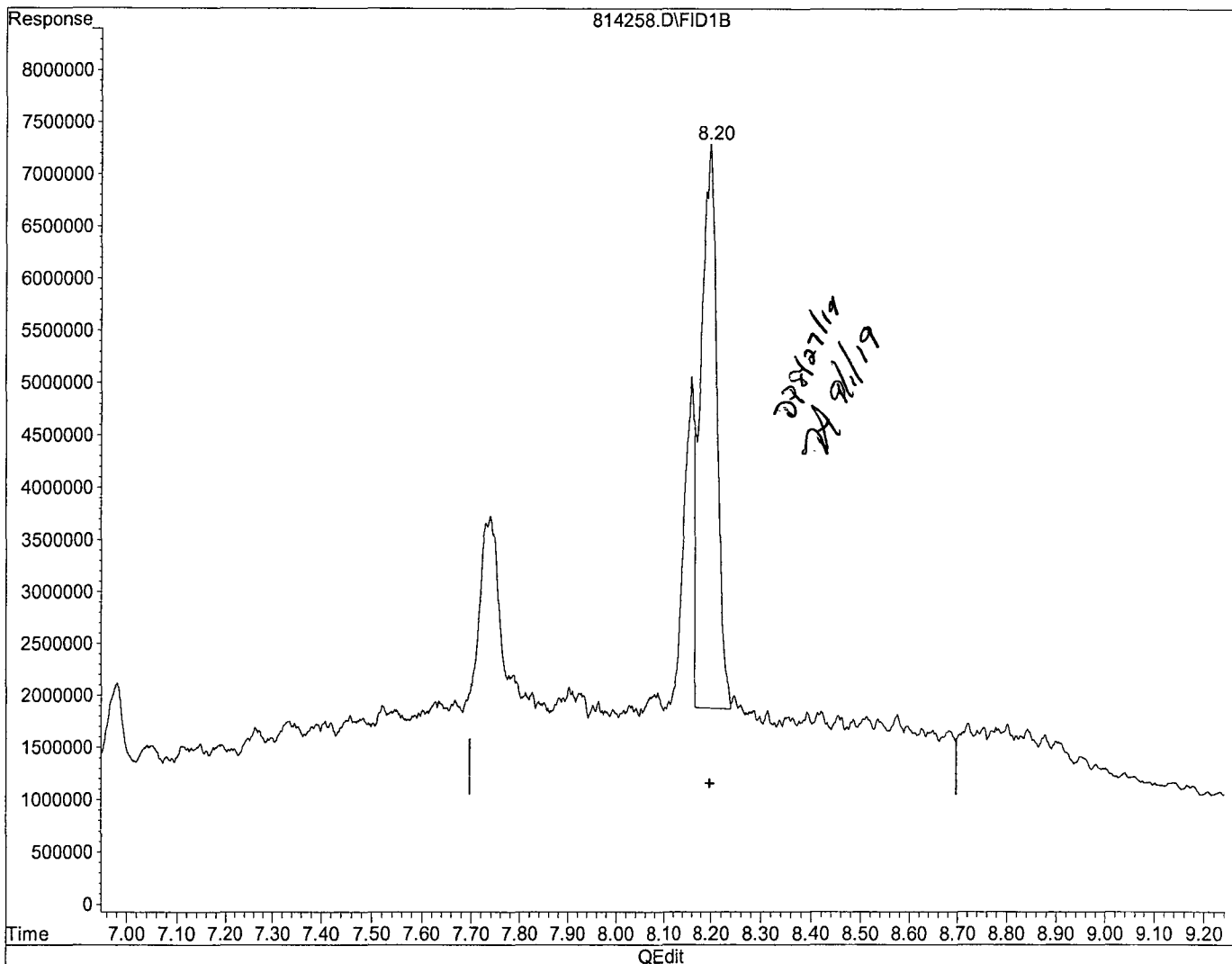
(+) = Expected Retention Time

Quantitation Report

Data File : G:\APOLLO\DATA\190814\814258.D
Acq On : 8-23-19 13:15:43
Sample : 190805A LCS-1 2/800
Misc : water
IntFile : events.e
Quant Time: Aug 27 11:06 2019

Vial: 58
Operator: DP
Inst : Apollo
Multiplr: 2.50

Method : G:\APOLLO\DATA\190814\DOC0617.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Aug 12 12:39:32 2019
Response via : Multiple Level Calibration



(4) Octacosane(S) (SA)
8.20min 84.699ppb m
response 124695633

Data File : G:\APOLLO\DATA\190814\814259.D Vial: 59
 Acq On : 8-23-19 13:35:39 Operator: DP
 Sample : 190805A LCSD-1 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Aug 27 11:12 2019 Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190814\DOC0617.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Mon Aug 12 12:39:32 2019
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
----------	------	----------	------------

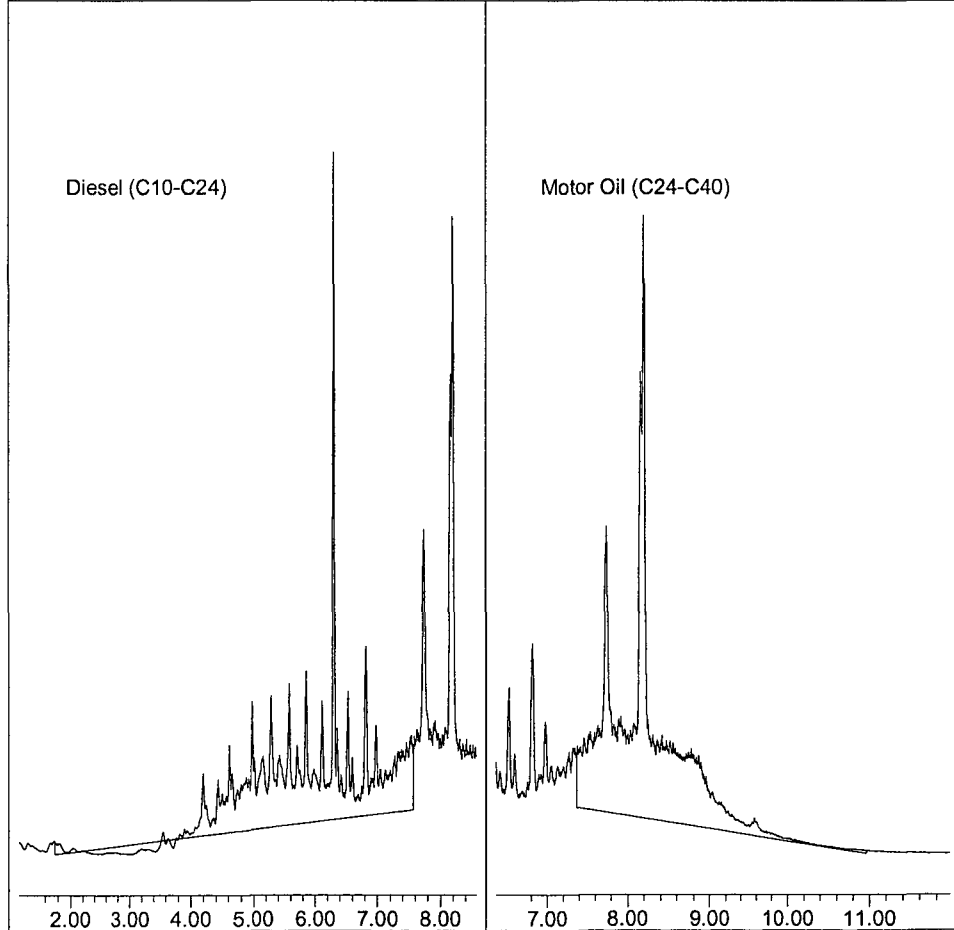
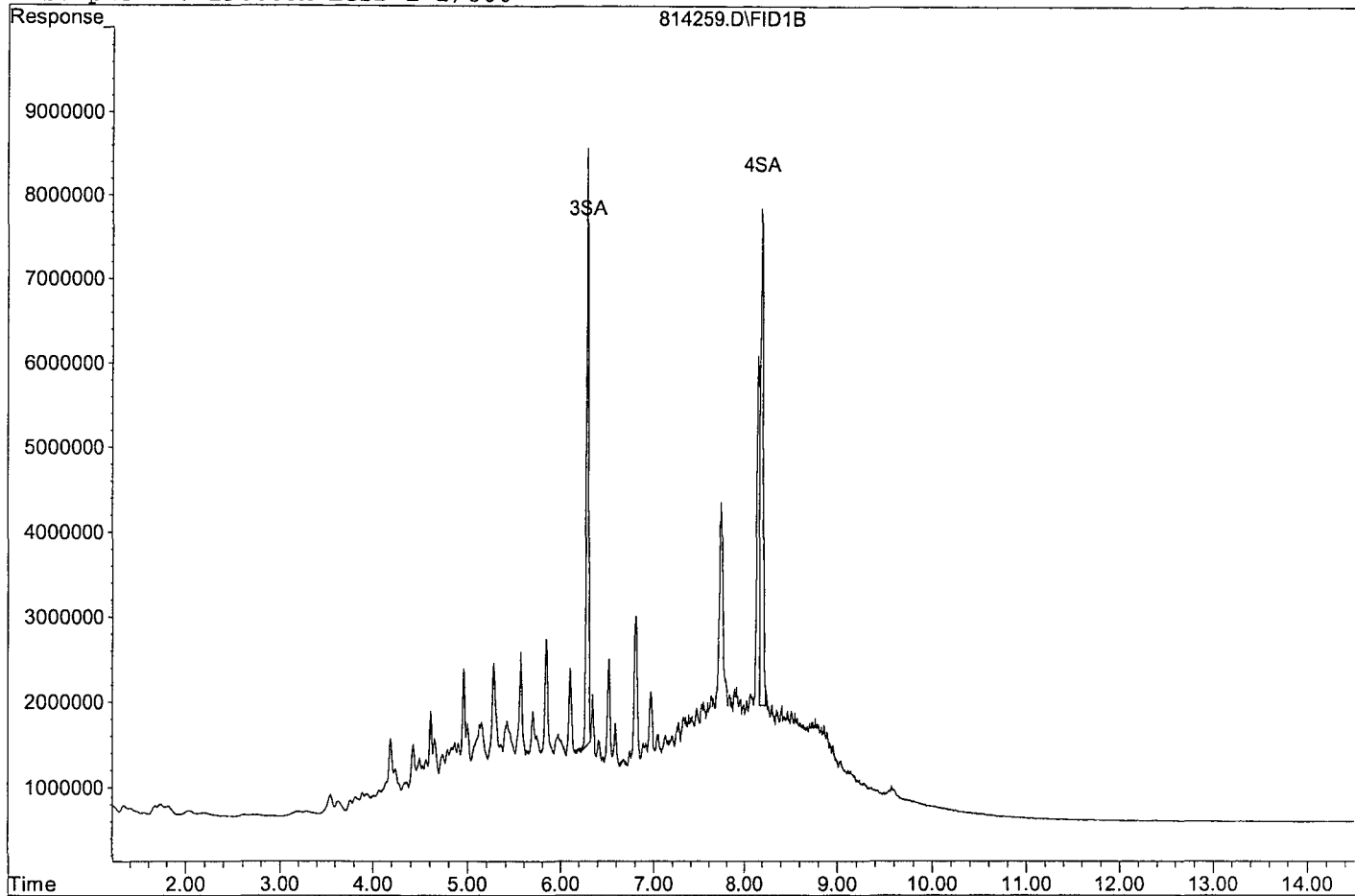
 System Monitoring Compounds

3) SA Ortho-Terphenyl(S)	6.30	117264999	80.651 ppb
Surrogate Spike 75.000		Recovery =	107.53%
4) SA Octacosane(S)	8.20	121907590	82.805 ppb m
Surrogate Spike 75.000		Recovery =	110.41%

Target Compounds

1) HATM Diesel (C10-C24)	4.66	1127889548	1306.203 ppb
2) HBTM Motor Oil (C24-C40)	9.16	1130275637	1541.529 ppb

Target Compounds

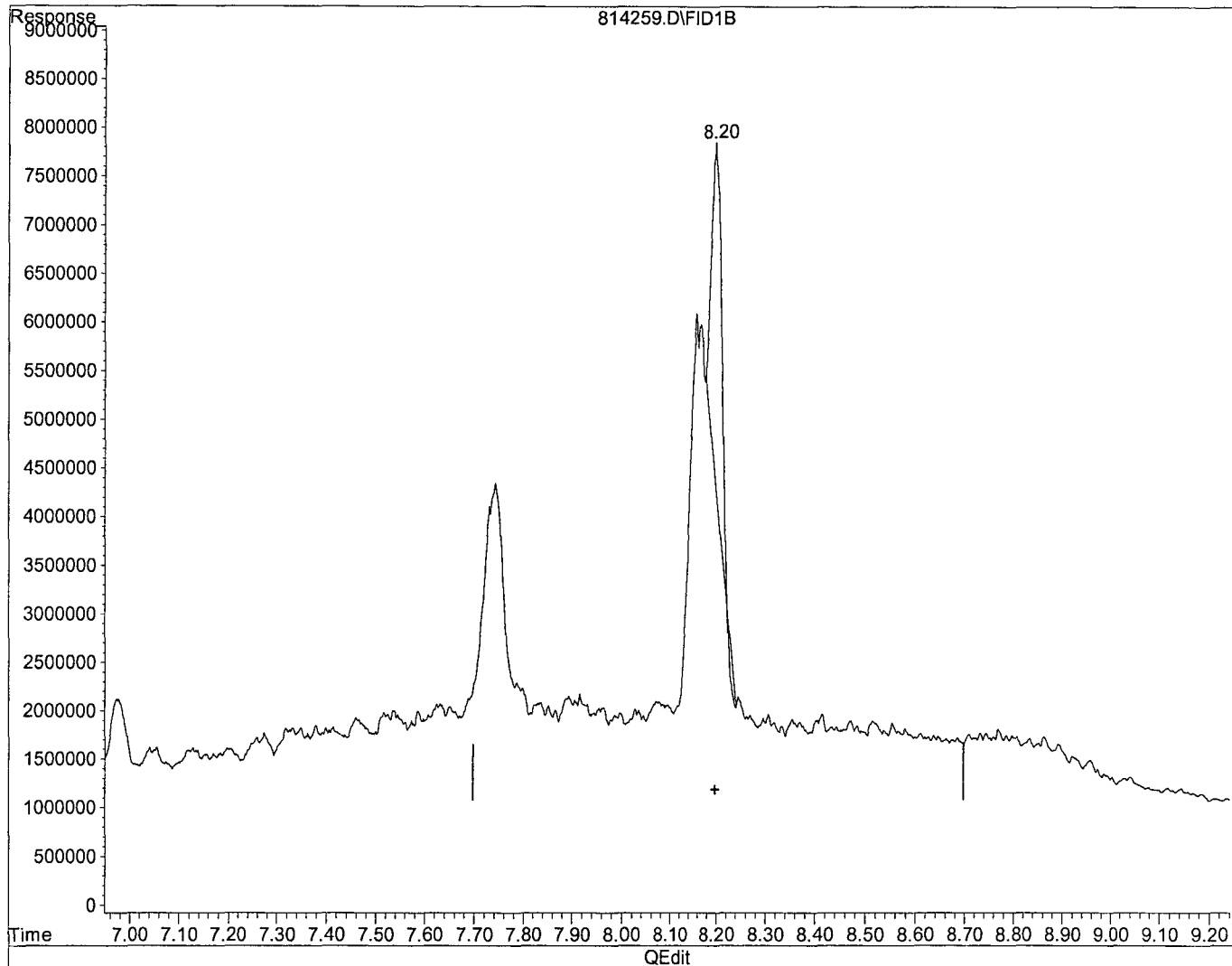


Data File : G:\APOLLO\DATA\190814\814259.D
Acq On : 8-23-19 13:35:39
Sample : 190805A LCSD-1 2/800
Misc : water
IntFile : events.e
Quant Time: Aug 27 11:06 2019

Vial: 59
Operator: DP
Inst : Apollo
Multiplr: 2.50

Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190814\DOC0617.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Aug 12 12:39:32 2019
Response via : Multiple Level Calibration



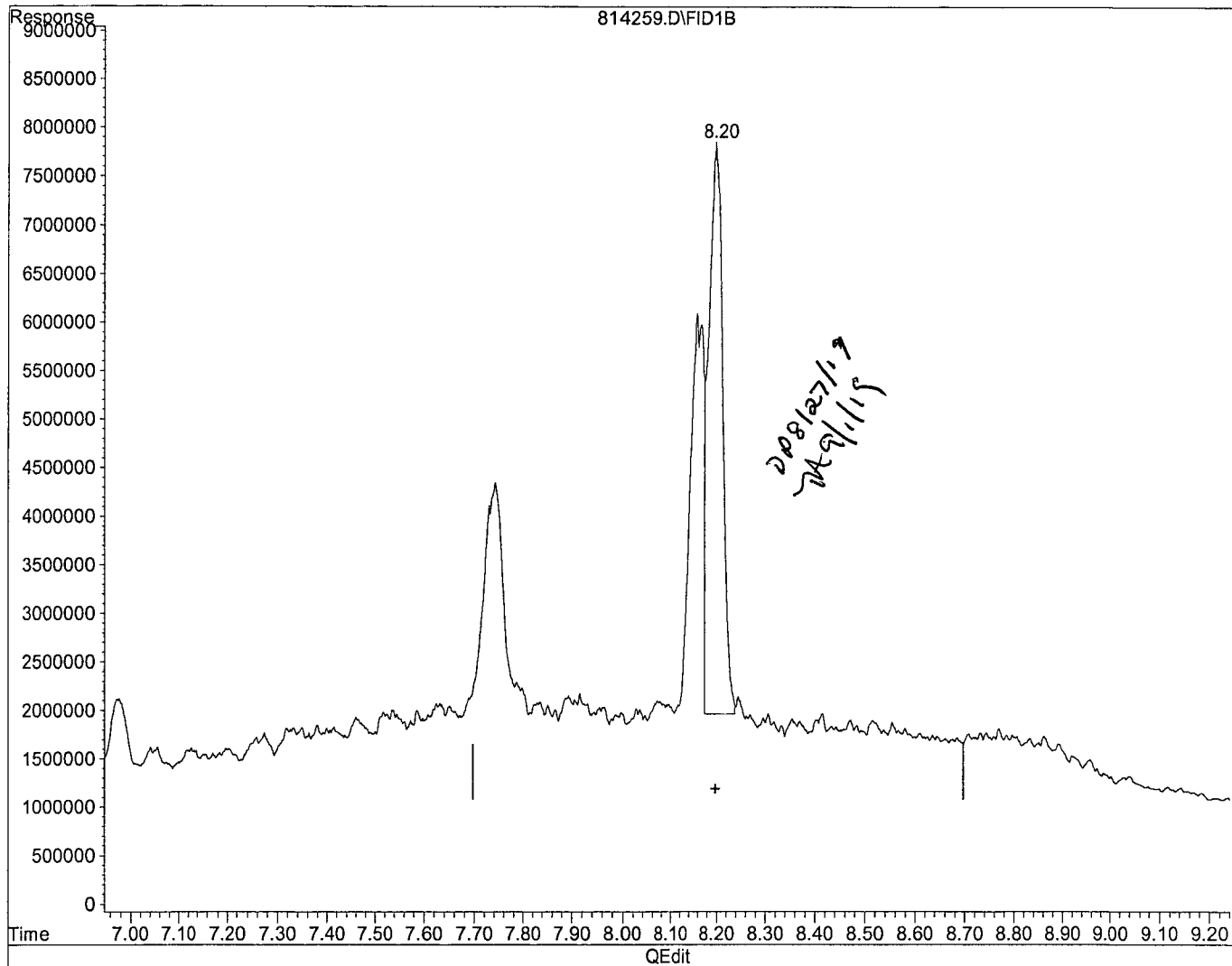
(4) Octacosane(S) (SA)
8.20min 33.406ppb
response 49181271

Data File : G:\APOLLO\DATA\190814\814259.D
Acq On : 8-23-19 13:35:39
Sample : 190805A LCSD-1 2/800
Misc : water
IntFile : events.e
Quant Time: Aug 27 11:06 2019

Vial: 59
Operator: DP
Inst : Apollo
Multiplr: 2.50

Quant Results File: DOC0617.RES

Method : G:\APOLLO\DATA\190814\DOC0617.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Aug 12 12:39:32 2019
Response via : Multiple Level Calibration



(4) Octacosane(S) (SA)
8.20min 82.805ppb m
response 121907590

(+) = Expected Retention Time

Diesel / Motor Oil Calibration Standard										
Prepared: 06/17/19						Prepared By (Initials): BT				
Expires: 06/17/20										
Methylene Chloride Lot No. 5829										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel Fuel #2	Phenova	ALO-101287	50,000	CL13227-40441	06/17/20	02/31/2025	400uL			2000
Motor Oil	Restek	31464	50,000	A0144044-40655	06/17/20	01/31/26	400uL	10mL	MC	2000
THC Surrogate	Phenova	ALO-130161	600	CL13256-40366	06/17/20	02/28/24	1666uL			100

Diesel / Motor Oil Second Source										
Prepared: 01/15/19						Prepared By (Initials): DP				
Expires: 01/15/20										
Methylene Chloride Lot No. 56278										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel Fuel #2 Second Source	O2SI	G34-011598-03	50,000	G34-319187-38958	08/02/19	09/29/21	50uL	10mL	MC	250
Motor Oil Second Source	O2SI	116390-02-SS	50,000	301142-37652	07/13/19	03/05/22	50uL			

Diesel / Motor Oil Calibration Curve										
Prepared: 06/17/19						Prepared By (Initials): BT				
Expires: 12/17/19										
Methylene Chloride Lot No. 5829										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference to APPL Prep Date	Exp. Date	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 1	2,000	Prepared 06/17/19	06/17/20	N/A	5uL	1mL	MC	10
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 2	2,000	Prepared 06/17/19	06/17/20	N/A	25uL	1mL	MC	50
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 3	2,000	Prepared 06/17/19	06/17/20	N/A	125uL	1mL	MC	250
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 4	2,000	Prepared 06/17/19	06/17/20	N/A	500uL	1mL	MC	1000
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 5	2,000	Prepared 06/17/19	06/17/20	N/A	750uL	1mL	MC	1500
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 6	2,000	Prepared 06/17/19	06/17/20	N/A	100uL	100uL	N/A	2,000

Diesel / Motor Oil CCV										
Prepared: 08/22/19						Prepared By (Initials): BT				
Expires: 02/22/19										
Methylene Chloride Lot No. 58059										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference to APPL Prep Date	Exp. Date	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel / Motor Oil STD	APPL	Diesel / Motor Oil - 1	2,000	Prepared 06/17/19	06/17/20	N/A	1250uL	10mL	MC	250

Injection Log

Directory: G:\APOLLO\DATA\190617\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	3	617003.D	1	Diesel/Motor Oil - 1 6/17/19	water	6-17-19 16:40:59
2	4	617004.D	1	Diesel/Motor Oil - 2 6/17/19	water	6-17-19 17:00:17
3	5	617005.D	1	Diesel/Motor Oil - 3 6/17/19	water	6-17-19 17:20:24
4	6	617006.D	1	Diesel/Motor Oil - 4 6/17/19	water	6-17-19 17:40:33
5	7	617007.D	1	Diesel/Motor Oil - 5 6/17/19	water	6-17-19 18:00:01
6	8	617008.D	1	Diesel/Motor Oil - 6 6/17/19	water	6-17-19 18:20:06
7	9	617009.D	1	Diesel/Motor Oil Second Source 1/15/19	water	6-17-19 18:39:28
8	56	814256.D	1	Diesel/Motor Oil CCV 8/22/19	water	8-23-19 11:02:51
9	57	814257.D	2.5	190805A BLK 2/800	water	8-23-19 12:55:57
10	58	814258.D	2.5	190805A LCS-1 2/800	water	8-23-19 13:15:43
11	59	814259.D	2.5	190805A LCSD-1 2/800	water	8-23-19 13:35:39
12	60	814260.D	2.5	AZ95858W12 2/800	water	8-23-19 13:55:42
13	68	814268.D	1	Diesel/Motor Oil CCV 8/22/19	water	8-23-19 16:37:42

ORGANICS
Calibration Data

PAH by GCMS SIM
EPA 8270 SIM

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 08/10/19
Instrument: Linus

Initials: MA, LP

0810L003.D 0810L004.D 0810L005.D 0810L006.D 0810L007.D 0810L008.D 0810L009.D 0810L010.D

	Compound	0.1	0.2	0.5	1	5	10	50	100			Avg	%RSD	Type	r^2	Q	MRF
1	I Naphthalene-D8(IS)																
2	S Surrogate Recovery (NBZ)				0.5212	0.4224	0.3959	0.4246	0.4407			0.44	11	S			
3	TM Naphthalene	1.383	1.321	1.335	1.278	1.247	1.138	1.106	1.075			1.2	9.3	TM			0.700
4	S 2-Methylnaphthalene-D10 (2M)	1.263	1.286	1.252	1.163	1.117	1.095	1.066	1.087			1.2	7.6	S			
5	TM 2-Methylnaphthalene	0.7971	0.7573	0.7654	0.7420	0.7436	0.6699	0.6256	0.6029			0.71	9.9	TM			0.400
6	TM 1-Methylnaphthalene	0.8141	0.7923	0.8031	0.7643	0.7350	0.6767	0.6306	0.6076			0.73	11	TM			
7	I Acenaphthene-D10(IS)																
8	S Surrogate Recovery (FBP)	2.110	1.949	2.058	1.979	1.741	1.732	1.646	1.472			1.8	12	S			
9	TM Acenaphthylene	6.046	5.715	5.823	5.652	5.941	5.652	4.826	3.766			5.4	14	TM			0.900
10	*TM Acenaphthene	1.888	1.710	1.693	1.634	1.548	1.452	1.305				1.6	12	*TM			0.900
11	TM Fluorene	1.904	1.843	1.876	1.780	1.742	1.757	1.483	1.302			1.7	12	TM			0.900
12	I Phenanthrene-D10(IS)																
13	TM Phenanthrene	1.541	1.489	1.583	1.599	1.445	1.363	1.090				1.4	12	TM			0.700
14	TM Anthracene	1.306	1.287	1.373	1.413	1.361	1.276	1.046	0.9649			1.3	13	TM			0.700
15	S Fluoranthene-D10 (FRT)	1.994	1.868	1.902	1.854	1.681	1.836	1.497	1.365			1.7	12	S			
16	*TM Fluoranthene	2.128	2.007	2.031	2.046	2.033	1.980	1.505				2.0	11	*TM			0.600
17	I Chrysene-D12(IS)																
18	TM Pyrene	2.005	1.854	1.894	1.865	1.821	1.770	1.542	1.387			1.8	11	TM			0.600
19	S Surrogate Recovery (TPH)	1.116	0.9537	0.9941	0.9611	0.8727	0.9475	0.9212	0.9129			0.96	7.6	S			
20	TM Benz (a) anthracene	1.553	1.453	1.499	1.381	1.448	1.531	1.318	1.244			1.4	7.5	TM			0.800
21	TM Chrysene	1.845	1.696	1.673	1.643	1.573	1.413	1.342	1.269			1.6	13	TM			0.700
22	TM Indeno (1,2,3-cd) pyrene	1.545	1.317	1.412	1.392	1.488	1.523	1.525	1.477			1.5	5.4	TM			0.500
23	I Perylene-D12(IS)																
24	TM Benzo (b) fluoranthene	1.011	1.071	1.224	1.100	1.304	1.312	1.182	1.186			1.2	9.2	TM			0.700
25	TM Benzo (k) fluoranthene	1.791	1.595	1.679	1.714	1.724	1.669	1.217				1.6	12	TM			0.700
26	*TM Benzo (a) pyrene	1.114	1.208	1.292	1.225	1.324	1.349	1.144	1.093			1.2	8.0	*TM			0.700
27	TM Dibenz (a,h) anthracene	1.165	1.060	1.149	1.149	1.265	1.267	1.067	1.010			1.1	8.2	TM			0.400
28	TM Benzo (g,h,i) perylene	1.441	1.249	1.343	1.275	1.333	1.298	1.135	1.069			1.3	9.3	TM			0.500
29																	
30																	
31																	
32																	
33																	
34																	
35																	

Data File : M:\LINUS\DATA\L190810\0810L003.D Vial: 3
 Acq On : 10 Aug 19 10:29 Operator: MA
 Sample : 0.1 SIM 08/10/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Aug 10 12:22 2019 Quant Results File: L0810.RES

Quant Method : M:\LINUS\DATA\L190810\L0810.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Sat Aug 10 12:21:24 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	3.65	136	77597	2.50000	ppb	-0.01
7) Acenaphthene-D10 (IS)	5.67	164	30346	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.39	188	59894	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	10.45	240	64492	2.50000	ppb	0.00
23) Perylene-D12 (IS)	12.59	264	64054	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	2.90	82	2372	0.14778	ppb	0.05
Spiked Amount	5.000		Recovery	=	2.960%	
4) 2-Methylnaphthalene-D10 (2)	4.46	152	1960	0.05113	ppb	0.00
Spiked Amount	5.000		Recovery	=	1.020%	
8) Surrogate Recovery (FBP)	4.94	172	1281	0.05625	ppb	0.01
Spiked Amount	5.000		Recovery	=	1.120%	
15) Fluoranthene-D10 (FRT)	8.76	212	2388	0.05155	ppb	0.00
Spiked Amount	5.000		Recovery	=	1.040%	
19) Surrogate Recovery (TPH)	9.26	244	1439	0.05986	ppb	0.00
Spiked Amount	5.000		Recovery	=	1.200%	
Target Compounds						
3) Naphthalene	3.68	128	4294	0.10928	ppb	99
5) 2-Methylnaphthalene	4.49	142	2474	0.10822	ppb	98
6) 1-Methylnaphthalene	4.60	142	2527	0.10709	ppb	99
9) Acenaphthylene	5.52	152	7341	0.10775	ppb	100
10) Acenaphthene	5.71	154	2292	0.12210	ppb	91
11) Fluorene	6.31	166	2312	0.10707	ppb	89
13) Phenanthrene	7.42	178	3692	0.10703	ppb	99
14) Anthracene	7.48	178	3129	0.09888	ppb	98
16) Fluoranthene	8.78	202	5099	0.10152	ppb	# 85
18) Pyrene	9.04	202	5171	0.11404	ppb	95
20) Benz (a) anthracene	10.43	228	4005	0.10868	ppb	93
21) Chrysene	10.48	228	4744	0.12165	ppb	98
22) Indeno (1,2,3-cd) pyrene	14.24	276	3985	0.10889	ppb	# 96
24) Benzo (b) fluoranthene	11.91	252	2590	0.08343	ppb	95
25) Benzo (k) fluoranthene	11.96	252	4590	0.11542	ppb	98
26) Benzo (a) pyrene	12.50	252	2855	0.08957	ppb	98
27) Dibenz (a,h) anthracene	14.25	278	2984	0.10144	ppb	# 87
28) Benzo (g,h,i) perylene	14.53	276	3692	0.11405	ppb	88

Quantitation Report

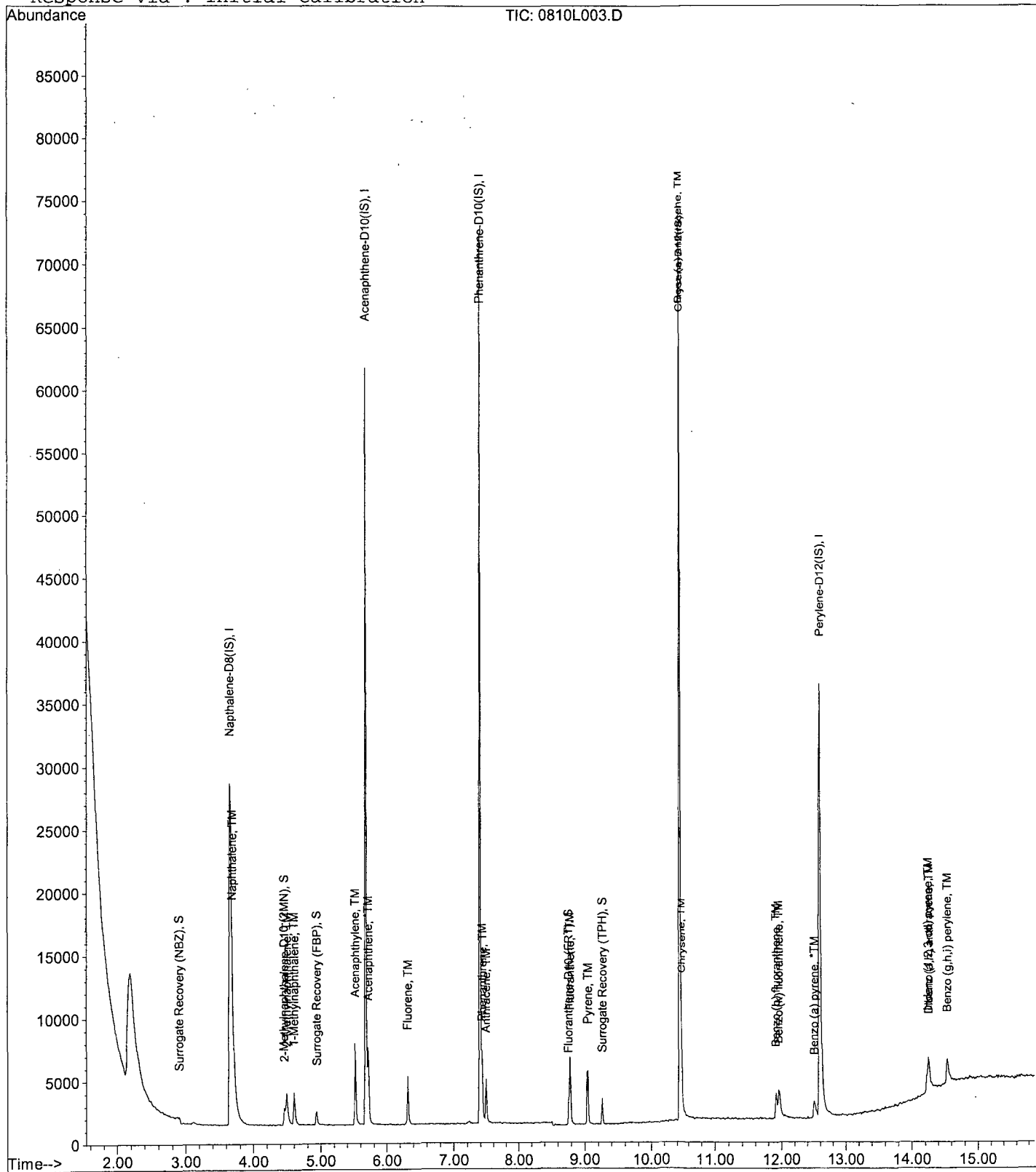
Data File : M:\LINUS\DATA\L190810\0810L003.D
Acq On : 10 Aug 19 10:29
Sample : 0.1 SIM 08/10/19
Misc :

Vial: 3
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Aug 10 12:22 2019

Quant Results File: L0810.RES

Method : M:\LINUS\DATA\L190810\L0810.M (RTE Integrator)
Title : EPA 8270
Last Update : Sat Aug 10 14:09:54 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190810\0810L004.D Vial: 4
 Acq On : 10 Aug 19 10:52 Operator: MA
 Sample : 0.2 SIM 08/10/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Aug 10 12:22 2019 Quant Results File: L0810.RES

Quant Method : M:\LINUS\DATA\L190810\L0810.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Sat Aug 10 12:21:24 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	3.66	136	78551	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	5.67	164	31120	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.39	188	61400	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	10.43	240	67917	2.50000	ppb	-0.01
23) Perylene-D12 (IS)	12.58	264	67252	2.50000	ppb	-0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	2.89	82	2377	0.14629	ppb	0.04
Spiked Amount	5.000		Recovery	=	2.920%	
4) 2-Methylnaphthalene-D10 (2)	4.46	152	4042	0.10416	ppb	0.00
Spiked Amount	5.000		Recovery	=	2.080%	
8) Surrogate Recovery (FBP)	4.94	172	2426	0.10388	ppb	0.01
Spiked Amount	5.000		Recovery	=	2.080%	
15) Fluoranthene-D10 (FRT)	8.76	212	4608	0.09703	ppb	0.00
Spiked Amount	5.000		Recovery	=	1.940%	
19) Surrogate Recovery (TPH)	9.26	244	2591	0.10235	ppb	0.00
Spiked Amount	5.000		Recovery	=	2.040%	
Target Compounds						
3) Naphthalene	3.68	128	8299	0.20864	ppb	Qvalue 99
5) 2-Methylnaphthalene	4.49	142	4759	0.20564	ppb	98
6) 1-Methylnaphthalene	4.60	142	4979	0.20844	ppb	96
9) Acenaphthylene	5.52	152	14228	0.20365	ppb	98
10) Acenaphthene	5.71	154	4258	0.22119	ppb	93
11) Fluorene	6.31	166	4589	0.20724	ppb	95
13) Phenanthrene	7.41	178	7315	0.20685	ppb	97
14) Anthracene	7.48	178	6322	0.19488	ppb	99
16) Fluoranthene	8.78	202	9939	0.19303	ppb	# 92
18) Pyrene	9.03	202	10071	0.21091	ppb	# 89
20) Benz (a) anthracene	10.43	228	7894	0.20341	ppb	95
21) Chrysene	10.47	228	9141	0.22259	ppb	# 93
22) Indeno (1,2,3-cd) pyrene	14.22	276	7156	0.18568	ppb	# 91
24) Benzo (b) fluoranthene	11.91	252	5763	0.17680	ppb	99
25) Benzo (k) fluoranthene	11.96	252	8579	0.20547	ppb	96
26) Benzo (a) pyrene	12.50	252	6359	0.19000	ppb	95
27) Dibenz (a,h) anthracene	14.25	278	5705	0.18472	ppb	94
28) Benzo (g,h,i) perylene	14.52	276	6720	0.19771	ppb	97

Quantitation Report

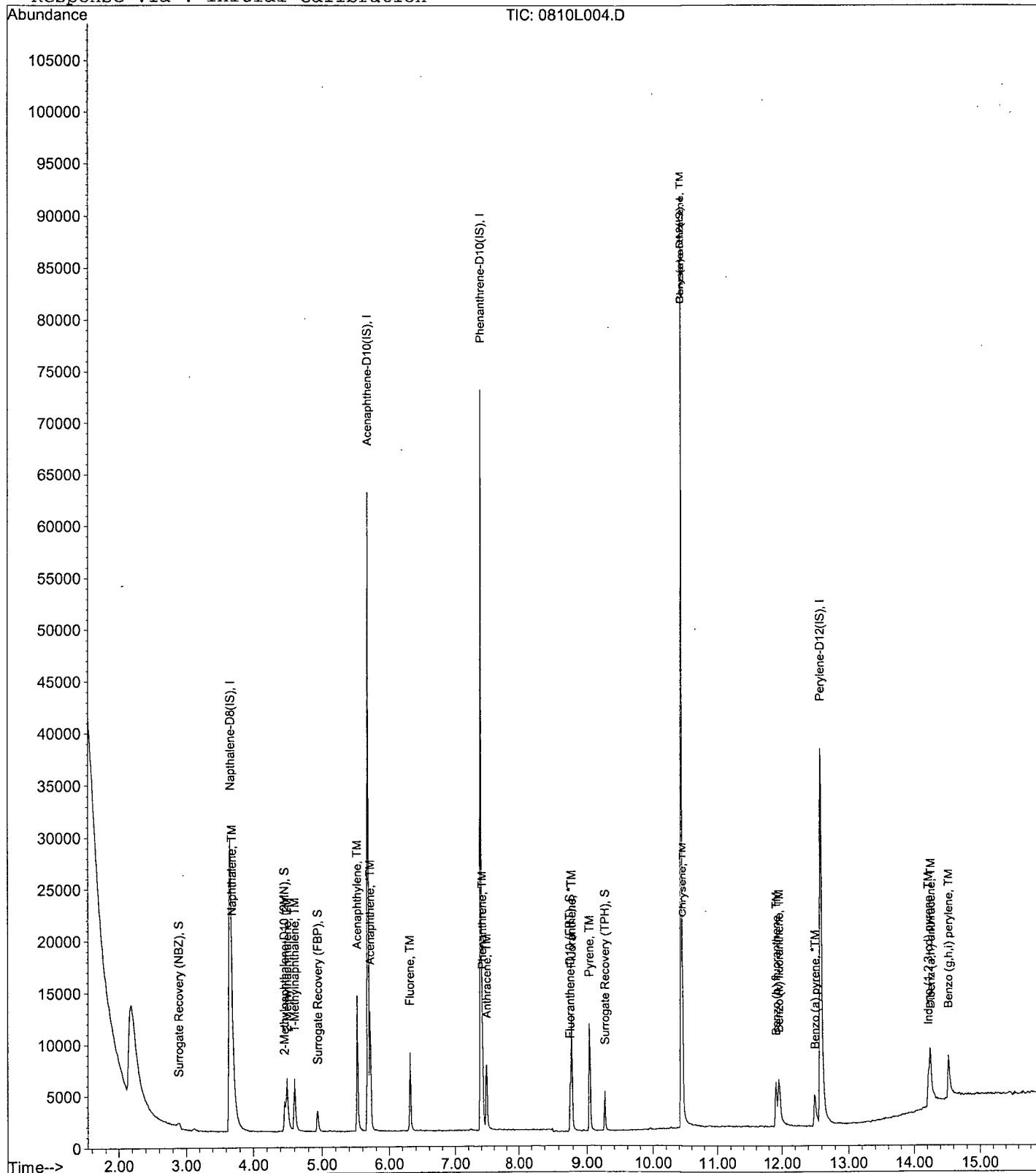
Data File : M:\LINUS\DATA\L190810\0810L004.D
Acq On : 10 Aug 19 10:52
Sample : 0.2 SIM 08/10/19
Misc :

Vial: 4
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Aug 10 12:22 2019

Quant Results File: L0810.RES

Method : M:\LINUS\DATA\L190810\L0810.M (RTE Integrator)
Title : EPA 8270
Last Update : Sat Aug 10 14:09:54 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190810\0810L005.D Vial: 5
 Acq On : 10 Aug 19 11:14 Operator: MA
 Sample : 0.5 SIM 08/10/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Aug 10 12:22 2019 Quant Results File: L0810.RES

Quant Method : M:\LINUS\DATA\L190810\L0810.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Sat Aug 10 12:21:24 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	3.66	136	78154	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	5.67	164	30974	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.39	188	59677	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	10.43	240	66792	2.50000	ppb	-0.01
23) Perylene-D12 (IS)	12.59	264	64934	2.50000	ppb	0.00

System Monitoring Compounds

2) Surrogate Recovery (NBZ)	2.86	82	5002	0.30941	ppb	0.01
Spiked Amount	5.000		Recovery	=	6.180%	
4) 2-Methylnaphthalene-D10 (2)	4.46	152	9781	0.25332	ppb	0.00
Spiked Amount	5.000		Recovery	=	5.060%	
8) Surrogate Recovery (FBP)	4.93	172	6381	0.27452	ppb	0.00
Spiked Amount	5.000		Recovery	=	5.500%	
15) Fluoranthene-D10 (FRT)	8.76	212	11433	0.24769	ppb	0.00
Spiked Amount	5.000		Recovery	=	4.960%	
19) Surrogate Recovery (TPH)	9.26	244	6640	0.26671	ppb	0.00
Spiked Amount	5.000		Recovery	=	5.340%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	3.68	128	20871	0.52738	ppb	100
5) 2-Methylnaphthalene	4.49	142	11964	0.51959	ppb	98
6) 1-Methylnaphthalene	4.60	142	12553	0.52818	ppb	98
9) Acenaphthylene	5.52	152	36111	0.51930	ppb	100
10) Acenaphthene	5.71	154	10497	0.54786	ppb	94
11) Fluorene	6.31	166	11632	0.52778	ppb	96
13) Phenanthrene	7.41	178	18892	0.54965	ppb	98
14) Anthracene	7.47	178	16386	0.51968	ppb	98
16) Fluoranthene	8.78	202	24401	0.48757	ppb	95
18) Pyrene	9.03	202	25288	0.53850	ppb	91
20) Benz (a) anthracene	10.43	228	20027	0.52473	ppb	94
21) Chrysene	10.47	228	22240	0.55067	ppb	96
22) Indeno (1,2,3-cd) pyrene	14.22	276	18864	0.49773	ppb	# 92
24) Benzo (b) fluoranthene	11.90	252	15902	0.50528	ppb	97
25) Benzo (k) fluoranthene	11.96	252	21806	0.54092	ppb	99
26) Benzo (a) pyrene	12.49	252	16542	0.51191	ppb	98
27) Dibenz (a,h) anthracene	14.24	278	14917	0.50024	ppb	98
28) Benzo (g,h,i) perylene	14.52	276	17437	0.53134	ppb	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

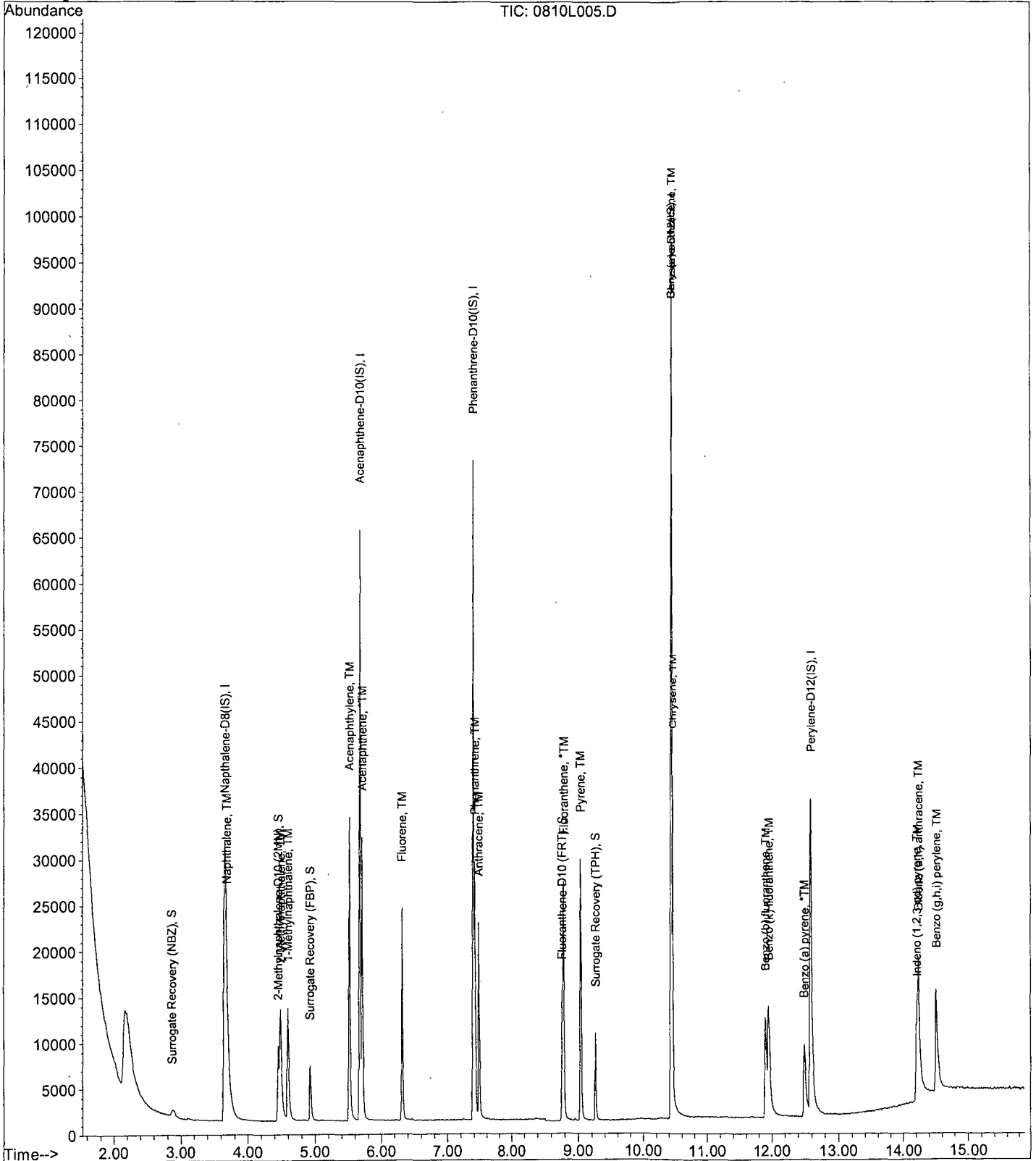
Data File : M:\LINUS\DATA\L190810\0810L005.D
Acq On : 10 Aug 19 11:14
Sample : 0.5 SIM 08/10/19
Misc :

Vial: 5
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Aug 10 12:22 2019

Quant Results File: L0810.RES

Method : M:\LINUS\DATA\L190810\L0810.M (RTE Integrator)
Title : EPA 8270
Last Update : Sat Aug 10 14:09:54 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190810\0810L006.D Vial: 6
 Acq On : 10 Aug 19 11:36 Operator: MA
 Sample : 1 SIM 08/10/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Aug 10 12:22 2019 Quant Results File: L0810.RES

Quant Method : M:\LINUS\DATA\L190810\L0810.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Sat Aug 10 12:21:24 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	3.66	136	78408	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	5.67	164	30653	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.39	188	58648	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	10.43	240	67718	2.50000	ppb	-0.01
23) Perylene-D12 (IS)	12.58	264	67438	2.50000	ppb	-0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	2.86	82	8173	0.50392	ppb	0.01
Spiked Amount	5.000		Recovery	=	10.080%	
4) 2-Methylnaphthalene-D10 (2)	4.46	152	18233	0.47069	ppb	0.00
Spiked Amount	5.000		Recovery	=	9.420%	
8) Surrogate Recovery (FBP)	4.93	172	12130	0.52732	ppb	0.00
Spiked Amount	5.000		Recovery	=	10.540%	
15) Fluoranthene-D10 (FRT)	8.76	212	21919	0.48320	ppb	0.00
Spiked Amount	5.000		Recovery	=	9.660%	
19) Surrogate Recovery (TPH)	9.26	244	13017	0.51571	ppb	0.00
Spiked Amount	5.000		Recovery	=	10.320%	
Target Compounds						
3) Naphthalene	3.68	128	40075	1.00935	ppb	98
5) 2-Methylnaphthalene	4.49	142	23271	1.00738	ppb	99
6) 1-Methylnaphthalene	4.60	142	23970	1.00529	ppb	96
9) Acenaphthylene	5.52	152	69306	1.00709	ppb	99
10) Acenaphthene	5.71	154	20038	1.05677	ppb	97
11) Fluorene	6.31	166	21822	1.00050	ppb	97
13) Phenanthrene	7.41	178	37520	1.11077	ppb	98
14) Anthracene	7.47	178	33153	1.06989	ppb	98
16) Fluoranthene	8.78	202	48175	0.97951	ppb	98
18) Pyrene	9.03	202	50478	1.06022	ppb	97
20) Benz (a) anthracene	10.42	228	37408	0.96673	ppb	99
21) Chrysene	10.47	228	44509	1.08699	ppb	100
22) Indeno (1,2,3-cd) pyrene	14.21	276	37713	0.98146	ppb	98
24) Benzo (b) fluoranthene	11.90	252	29669	0.90771	ppb	98
25) Benzo (k) fluoranthene	11.95	252	46237	1.10436	ppb	98
26) Benzo (a) pyrene	12.48	252	32712	0.97473	ppb	96
27) Dibenz (a,h) anthracene	14.24	278	31002	1.00104	ppb	94
28) Benzo (g,h,i) perylene	14.51	276	34383	1.00882	ppb	96

Quantitation Report

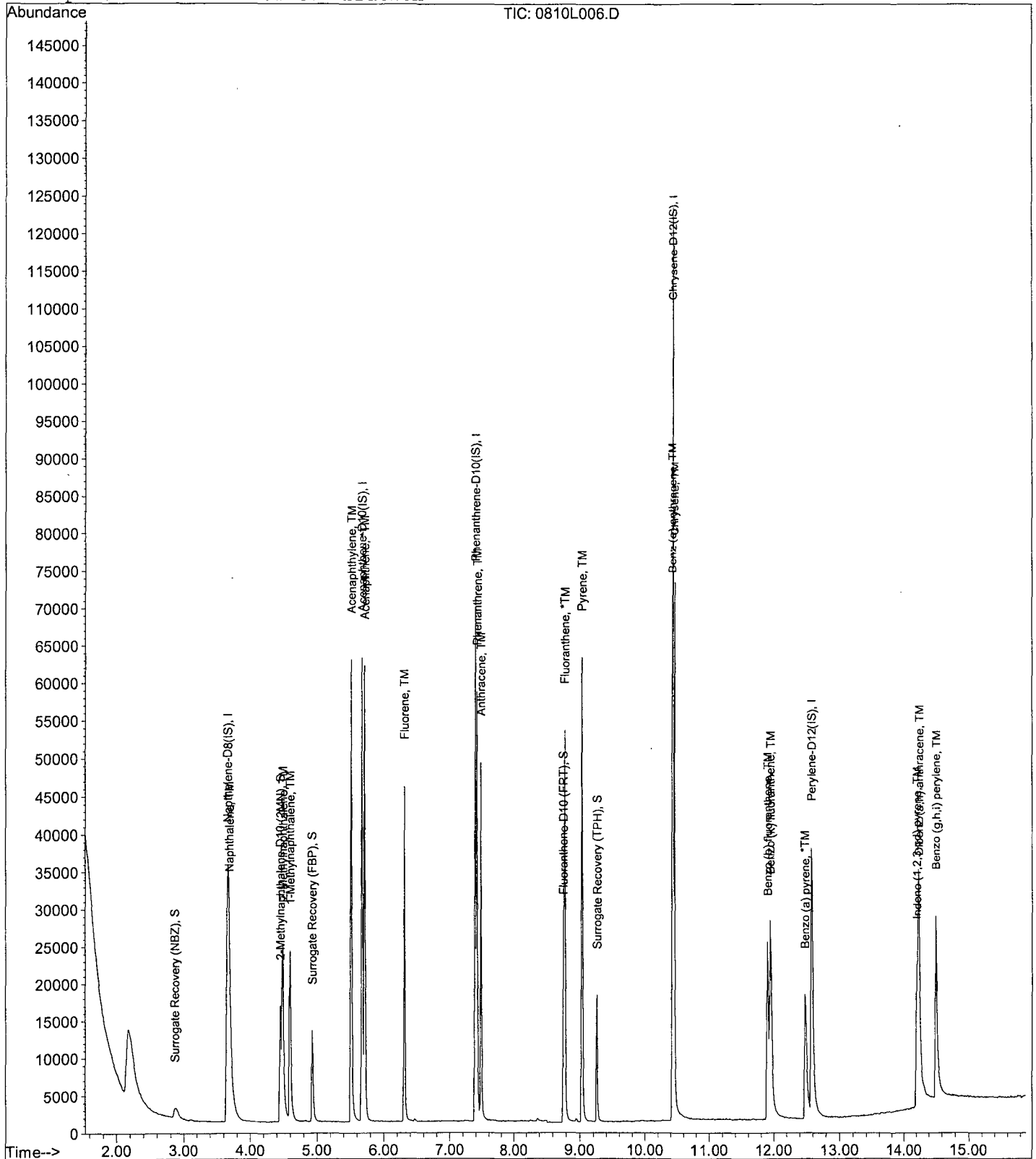
Data File : M:\LINUS\DATA\L190810\0810L006.D
Acq On : 10 Aug 19 11:36
Sample : 1 SIM 08/10/19
Misc :

Vial: 6
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Aug 10 12:22 2019

Quant Results File: L0810.RES

Method : M:\LINUS\DATA\L190810\L0810.M (RTE Integrator)
Title : EPA 8270
Last Update : Sat Aug 10 14:09:54 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190810\0810L007.D Vial: 7
 Acq On : 10 Aug 19 11:59 Operator: MA
 Sample : 5 SIM 08/10/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Aug 10 12:21 2019 Quant Results File: L0810.RES

Quant Method : M:\LINUS\DATA\L190810\L0810.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Sat Aug 10 12:21:24 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	3.66	136	76426	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	5.67	164	30516	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.39	188	58215	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	10.45	240	66864	2.50000	ppb	0.00
23) Perylene-D12 (IS)	12.59	264	65168	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	2.85	82	32280	2.04187	ppb	0.00
Spiked Amount 5.000			Recovery =	40.840%		
4) 2-Methylnaphthalene-D10 (2)	4.46	152	85405	2.26194	ppb	0.00
Spiked Amount 5.000			Recovery =	45.240%		
8) Surrogate Recovery (FBP)	4.93	172	53189	2.32262	ppb	0.00
Spiked Amount 5.000			Recovery =	46.460%		
15) Fluoranthene-D10 (FRT)	8.76	212	98076	2.17817	ppb	0.00
Spiked Amount 5.000			Recovery =	43.560%		
19) Surrogate Recovery (TPH)	9.26	244	58352	2.34131	ppb	0.00
Spiked Amount 5.000			Recovery =	46.820%		
Target Compounds						
3) Naphthalene	3.67	128	190635	4.92596	ppb	100
5) 2-Methylnaphthalene	4.48	142	113658	5.04775	ppb	100
6) 1-Methylnaphthalene	4.59	142	112343	4.83382	ppb	100
9) Acenaphthylene	5.52	152	362973	5.29808	ppb	100
10) Acenaphthene	5.71	154	94550	5.00880	ppb	100
11) Fluorene	6.31	166	106442	4.90210	ppb	100
13) Phenanthrene	7.41	178	168280	5.01893	ppb	100
14) Anthracene	7.47	178	158477	5.15231	ppb	100
16) Fluoranthene	8.78	202	237215	4.85900	ppb	100
18) Pyrene	9.03	202	243408	5.17774	ppb	100
20) Benz (a) anthracene	10.42	228	193709	5.06994	ppb	100
21) Chrysene	10.47	228	209767	5.18834	ppb	100
22) Indeno (1,2,3-cd) pyrene	14.20	276	199050	5.24632	ppb	100
24) Benzo (b) fluoranthene	11.90	252	169989	5.38192	ppb	100
25) Benzo (k) fluoranthene	11.95	252	224753	5.55516	ppb	100
26) Benzo (a) pyrene	12.48	252	171751	5.29596	ppb	100
27) Dibenz (a,h) anthracene	14.23	278	164891	5.50970	ppb	100
28) Benzo (g,h,i) perylene	14.50	276	173688	5.27363	ppb	100

Quantitation Report

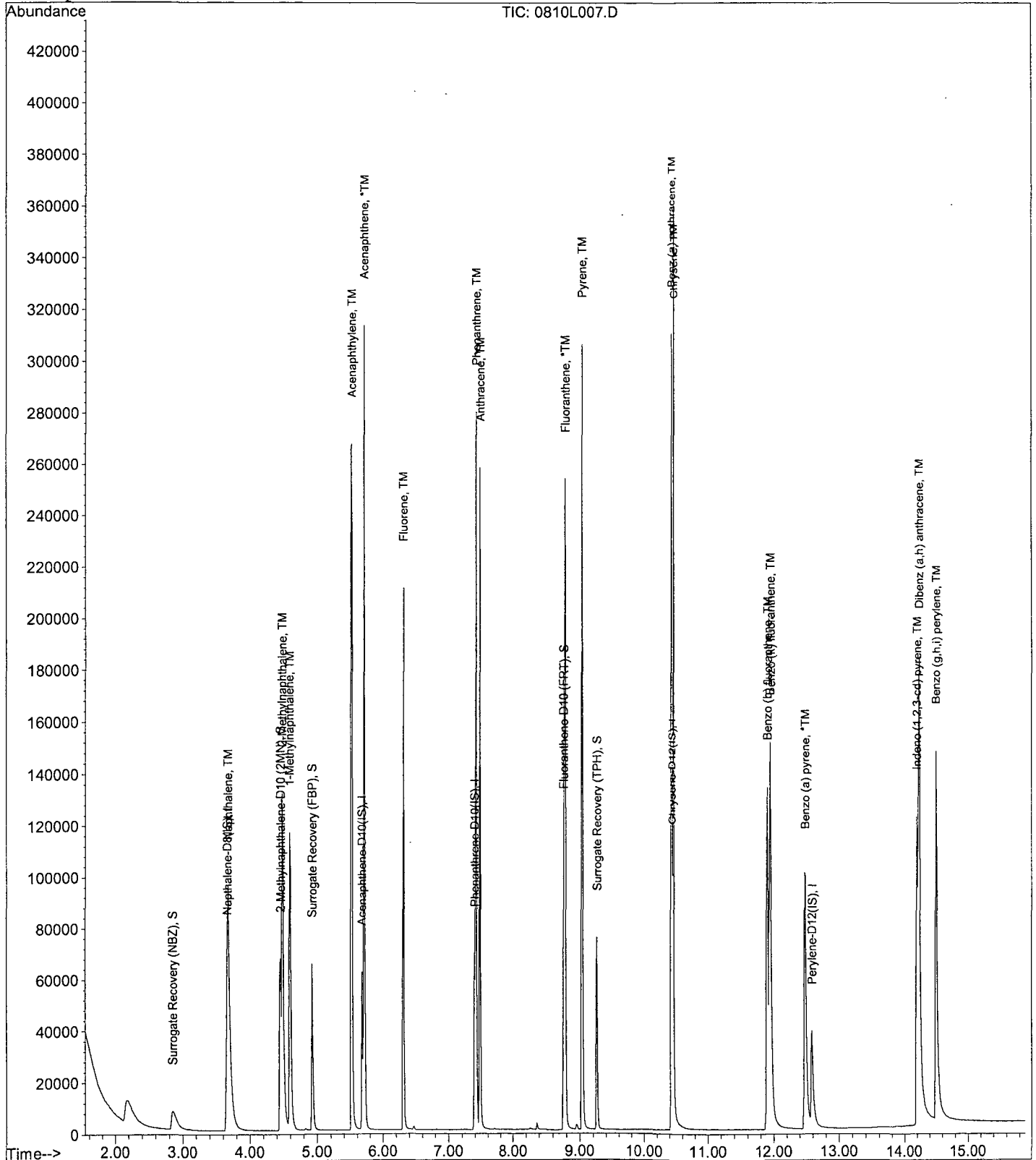
Data File : M:\LINUS\DATA\L190810\0810L007.D
 Acq On : 10 Aug 19 11:59
 Sample : 5 SIM 08/10/19
 Misc :

Vial: 7
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Aug 10 12:21 2019

Quant Results File: L0810.RES

Method : M:\LINUS\DATA\L190810\L0810.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Sat Aug 10 14:09:54 2019
 Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190810\0810L008.D Vial: 8
 Acq On : 10 Aug 19 12:21 Operator: MA
 Sample : 10 SIM 08/10/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Aug 10 12:40 2019 Quant Results File: L0810.RES

Quant Method : M:\LINUS\DATA\L190810\L0810.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Sat Aug 10 12:24:41 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	3.66	136	76715	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	5.67	164	30440	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.39	188	60043	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	10.45	240	68075	2.50000	ppb	0.00
23) Perylene-D12 (IS)	12.59	264	67129	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	2.84	82	60737	4.14742	ppb	-0.01
Spiked Amount	5.000		Recovery	=	82.940%	
4) 2-Methylnaphthalene-D10 (2)	4.44	152	168043	4.43383	ppb	-0.01
Spiked Amount	5.000		Recovery	=	88.680%	
8) Surrogate Recovery (FBP)	4.93	172	105445	4.61599	ppb	0.00
Spiked Amount	5.000		Recovery	=	92.320%	
15) Fluoranthene-D10 (FRT)	8.76	212	220439	4.74668	ppb	0.00
Spiked Amount	5.000		Recovery	=	94.940%	
19) Surrogate Recovery (TPH)	9.26	244	128999	5.08388	ppb	0.00
Spiked Amount	5.000		Recovery	=	101.680%	
Target Compounds						
3) Naphthalene	3.67	128	349349	8.99308	ppb	100
5) 2-Methylnaphthalene	4.48	142	205560	9.09489	ppb	100
6) 1-Methylnaphthalene	4.59	142	207656	8.90123	ppb	99
9) Acenaphthylene	5.52	152	688134	10.06933	ppb	100
10) Acenaphthene	5.71	154	176828	9.39087	ppb	99
11) Fluorene	6.31	166	213915	9.87628	ppb	100
13) Phenanthrene	7.41	178	327386	9.46697	ppb	100
14) Anthracene	7.47	178	306445	9.65963	ppb	100
16) Fluoranthene	8.78	202	475504	9.44347	ppb	99
18) Pyrene	9.03	202	482037	10.07142	ppb	99
20) Benz (a) anthracene	10.42	228	416931	10.71819	ppb	98
21) Chrysene	10.47	228	384673	9.34518	ppb	99
22) Indeno (1,2,3-cd) pyrene	14.20	276	414692	10.73551	ppb	97
24) Benzo (b) fluoranthene	11.90	252	352184	10.82456	ppb	99
25) Benzo (k) fluoranthene	11.95	252	448113	10.75234	ppb	100
26) Benzo (a) pyrene	12.47	252	362100	10.83923	ppb	96
27) Dibenz (a,h) anthracene	14.23	278	340278	11.03797	ppb	95
28) Benzo (g,h,i) perylene	14.50	276	348657	10.27690	ppb	96

Quantitation Report

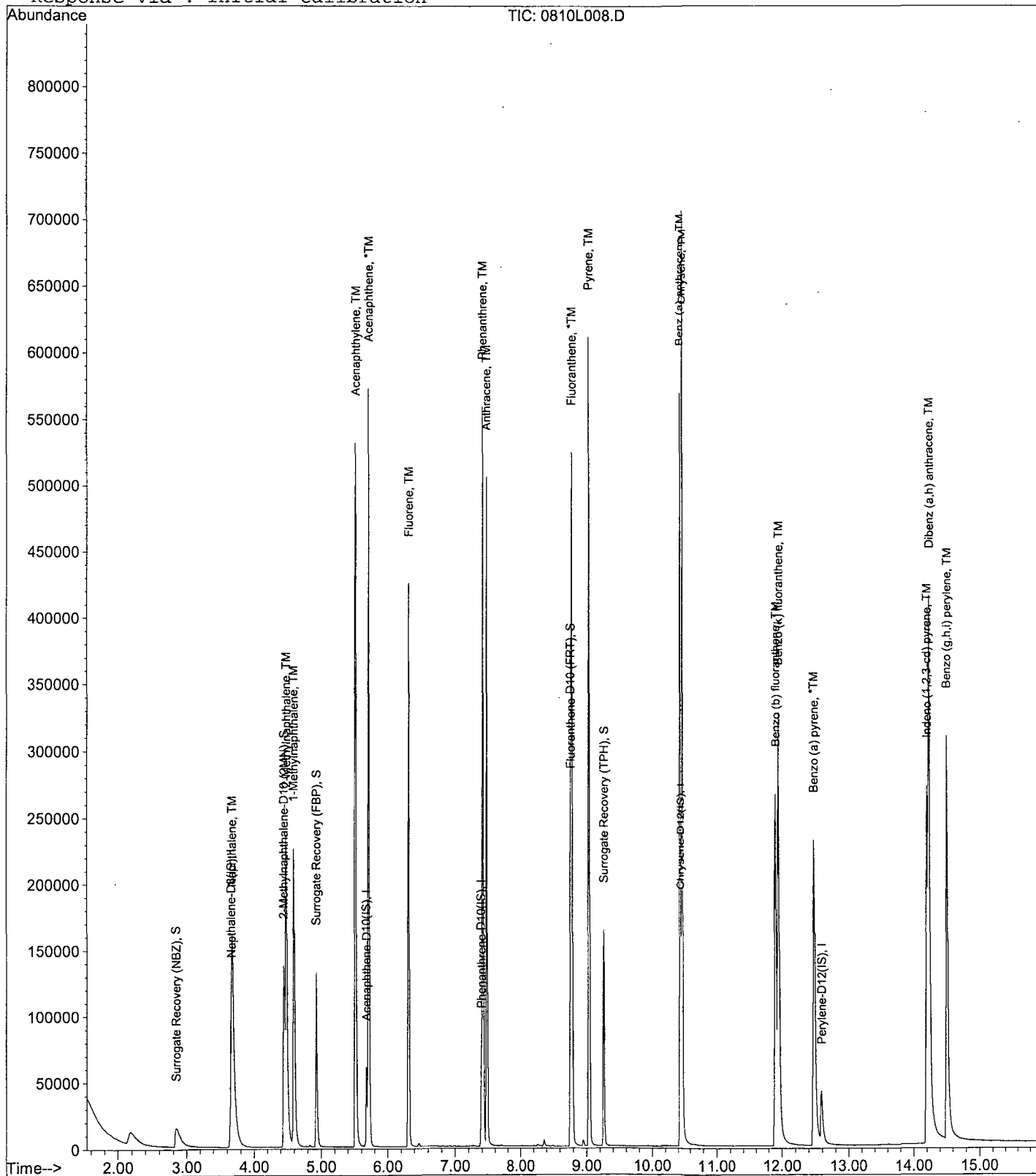
Data File : M:\LINUS\DATA\L190810\0810L008.D
Acq On : 10 Aug 19 12:21
Sample : 10 SIM 08/10/19
Misc :

Vial: 8
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Aug 10 12:40 2019

Quant Results File: L0810.RES

Method : M:\LINUS\DATA\L190810\L0810.M (RTE Integrator)
Title : EPA 8270
Last Update : Sat Aug 10 14:09:54 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190810\0810L009.D Vial: 9
 Acq On : 10 Aug 19 12:44 Operator: MA
 Sample : 50 SIM 08/10/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Aug 10 13:04 2019 Quant Results File: L0810.RES

Quant Method : M:\LINUS\DATA\L190810\L0810.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Sat Aug 10 12:24:41 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	3.65	136	76201	2.50000	ppb	-0.01
7) Acenaphthene-D10 (IS)	5.67	164	30871	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.39	188	64573	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	10.46	240	64034	2.50000	ppb	0.01
23) Perylene-D12 (IS)	12.60	264	75543	2.50000	ppb	0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	2.83	82	323555	22.67970	ppb	-0.02
Spiked Amount	5.000		Recovery	=	453.600%	
4) 2-Methylnaphthalene-D10 (2)	4.44	152	812670	22.27516	ppb	-0.01
Spiked Amount	5.000		Recovery	=	445.500%	
8) Surrogate Recovery (FBP)	4.93	172	508019	22.25302	ppb	0.00
Spiked Amount	5.000		Recovery	=	445.060%	
15) Fluoranthene-D10 (FRT)	8.76	212	966400	19.96316	ppb	0.00
Spiked Amount	5.000		Recovery	=	399.260%	
19) Surrogate Recovery (TPH)	9.26	244	589855	24.71357	ppb	0.00
Spiked Amount	5.000		Recovery	=	494.280%	
Target Compounds						
3) Naphthalene	3.67	128	1684870	44.31457	ppb	Qvalue 99
5) 2-Methylnaphthalene	4.48	142	953483	43.15683	ppb	99
6) 1-Methylnaphthalene	4.60	142	961092	42.08341	ppb	93
9) Acenaphthylene	5.52	152	2979420	43.21314	ppb	99
10) Acenaphthene	5.72	154	805744	42.23068	ppb	88
11) Fluorene	6.31	166	915799	42.07084	ppb	98
13) Phenanthrene	7.42	178	1407147	38.23729	ppb	98
14) Anthracene	7.48	178	1350442	40.33529	ppb	99
16) Fluoranthene	8.79	202	1944252	37.06642	ppb	97
18) Pyrene	9.04	202	1974814	43.70085	ppb	96
20) Benzo (a) anthracene	10.43	228	1687803	45.82875	ppb	98
21) Chrysene	10.49	228	1718444	44.12702	ppb	# 94
22) Indeno (1,2,3-cd) pyrene	14.22	276	1952890	53.59049	ppb	98
24) Benzo (b) fluoranthene	11.92	252	1786130	49.27561	ppb	97
25) Benzo (k) fluoranthene	11.98	252	1838545	38.55033	ppb	97
26) Benzo (a) pyrene	12.50	252	1728703	46.07897	ppb	99
27) Dibenz (a,h) anthracene	14.25	278	1612033	46.34840	ppb	99
28) Benzo (g,h,i) perylene	14.53	276	1715194	44.77701	ppb	96

Quantitation Report

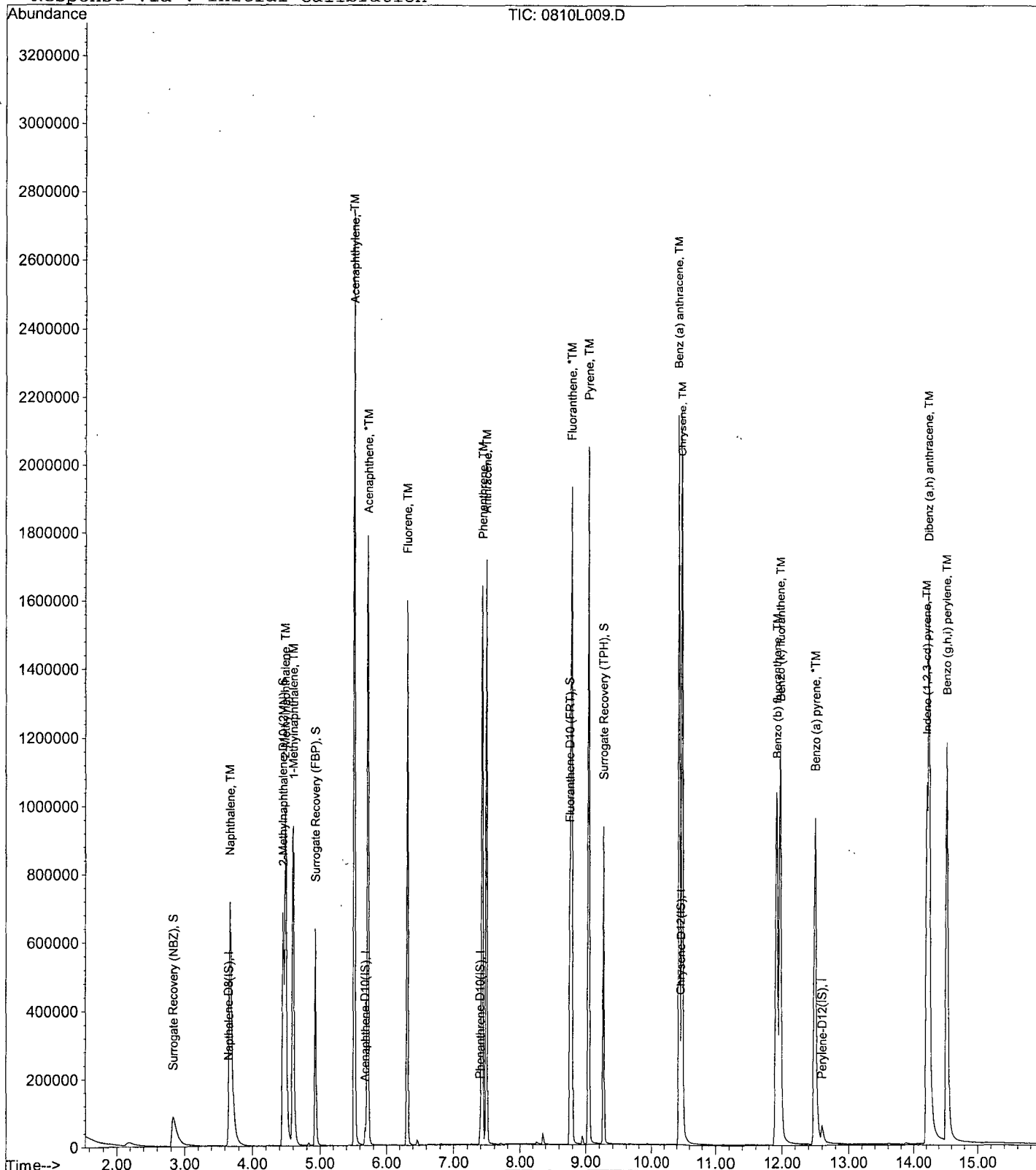
Data File : M:\LINUS\DATA\L190810\0810L009.D
Acq On : 10 Aug 19 12:44
Sample : 50 SIM 08/10/19
Misc :

Vial: 9
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Aug 10 13:04 2019

Quant Results File: L0810.RES

Method : M:\LINUS\DATA\L190810\L0810.M (RTE Integrator)
Title : EPA 8270
Last Update : Sat Aug 10 14:09:54 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190810\0810L010.D Vial: 10
 Acq On : 10 Aug 19 13:33 Operator: MA
 Sample : 100 SIM 08/10/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Aug 10 13:53 2019 Quant Results File: L0810.RES

Quant Method : M:\LINUS\DATA\L190810\L0810.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Sat Aug 10 13:53:08 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	3.65	136	74250	2.50000	ppb	-0.01
7) Acenaphthene-D10 (IS)	5.69	164	33129	2.50000	ppb	0.01
12) Phenanthrene-D10 (IS)	7.40	188	65550	2.50000	ppb	0.01
17) Chrysene-D12 (IS)	10.47	240	62776	2.50000	ppb	0.02
23) Perylene-D12 (IS)	12.61	264	75039	2.50000	ppb	0.02
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	2.81	82	654448	46.81785	ppb	-0.04
Spiked Amount	5.000		Recovery	=	936.360%	
4) 2-Methylnaphthalene-D10 (2)	4.44	152	1613489	46.04231	ppb	-0.01
Spiked Amount	5.000		Recovery	=	920.840%	
8) Surrogate Recovery (FBP)	4.93	172	975465	39.77421	ppb	0.00
Spiked Amount	5.000		Recovery	=	795.480%	
15) Fluoranthene-D10 (FRT)	8.77	212	1789888	37.65582	ppb	0.01
Spiked Amount	5.000		Recovery	=	753.120%	
19) Surrogate Recovery (TPH)	9.27	244	1146158	48.37835	ppb	0.01
Spiked Amount	5.000		Recovery	=	967.560%	
Target Compounds						
3) Naphthalene	3.67	128	3192235	86.58557	ppb	Qvalue 99
5) 2-Methylnaphthalene	4.49	142	1790572	83.90100	ppb	95
6) 1-Methylnaphthalene	4.60	142	1804510	81.53629	ppb	93
9) Acenaphthylene	5.52	152	4990172	67.66787	ppb	97
10) Acenaphthene	5.72	154	1457134	70.94349	ppb	93
11) Fluorene	6.33	166	1725839	74.65997	ppb	99
13) Phenanthrene	7.42	178	2510815	67.97451	ppb	99
14) Anthracene	7.50	178	2529918	75.84221	ppb	98
16) Fluoranthene	8.80	202	3425500	66.82650	ppb	99
18) Pyrene	9.05	202	3483533	78.29122	ppb	99
20) Benzo (a) anthracene	10.45	228	3124960	86.61431	ppb	97
21) Chrysene	10.50	228	3187576	82.29951	ppb	97
22) Indeno (1,2,3-cd) pyrene	14.25	276	3708065	102.36420	ppb	# 99
24) Benzo (b) fluoranthene	11.93	252	3559170	99.87388	ppb	98
25) Benzo (k) fluoranthene	12.00	252	3244957	68.70518	ppb	100
26) Benzo (a) pyrene	12.53	252	3281095	88.75453	ppb	96
27) Dibenz (a,h) anthracene	14.28	278	3032117	88.07045	ppb	92
28) Benzo (g,h,i) perylene	14.57	276	3209897	84.21715	ppb	92

Quantitation Report

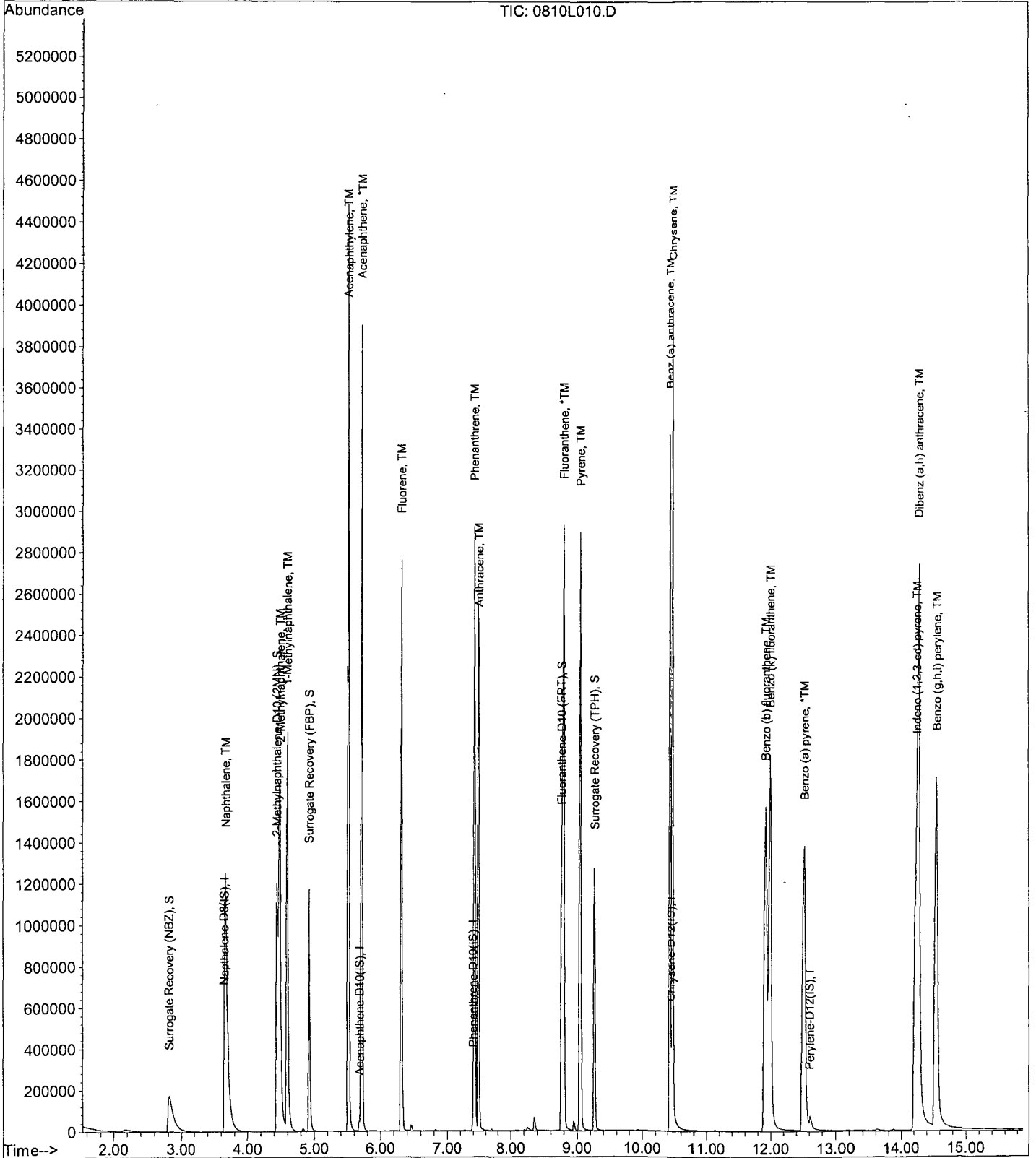
Data File : M:\LINUS\DATA\L190810\0810L010.D
Acq On : 10 Aug 19 13:33
Sample : 100 SIM 08/10/19
Misc :

Vial: 10
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Aug 10 13:53 2019

Quant Results File: L0810.RES

Method : M:\LINUS\DATA\L190810\L0810.M (RTE Integrator)
Title : EPA 8270
Last Update : Sat Aug 10 14:09:54 2019
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 08/10/19
Instrument: Linus
Initial Cal. Date: 08/10/19
Data File: 0810L011.D

		Compound	MEAN	CCRF	%D	%Drift
1	TM	Naphthalene	1.235	1.312	6.2	TM
2	TM	2-Methylnaphthalene	0.7130	0.7808	9.5	TM
3	TM	1-Methylnaphthalene	0.7280	0.7892	8.4	TM
4	TM	Acenaphthylene	5.428	6.015	11	TM
5	*TM	Acenaphthene	1.604	1.597	0.45	*TM
6	TM	Fluorene	1.711	1.791	4.7	TM
7	TM	Phenanthrene	1.444	1.489	3.1	TM
8	TM	Anthracene	1.253	1.349	7.7	TM
9	*TM	Fluoranthene	1.962	2.087	6.4	*TM
10	TM	Pyrene	1.767	1.842	4.2	TM
11	TM	Benz (a) anthracene	1.428	1.528	7.0	TM
12	TM	Chrysene	1.557	1.609	3.3	TM
13	TM	Indeno (1,2,3-cd) pyrene	1.460	1.626	11	TM
14	TM	Benzo (b) fluoranthene	1.174	1.378	17	TM
15	TM	Benzo (k) fluoranthene	1.627	1.762	8.3	TM
16	*TM	Benzo (a) pyrene	1.219	1.424	17	*TM
17	TM	Dibenz (a,h) anthracene	1.142	1.363	19	TM
18	TM	Benzo (g,h,i) perylene	1.268	1.343	5.9	TM
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Average

8.3

Data File : M:\LINUS\DATA\L190810\0810L011.D Vial: 11
 Acq On : 10 Aug 19 13:57 Operator: MA
 Sample : SS SIM 08/10/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Aug 10 14:15 2019 Quant Results File: L0810.RES

Quant Method : M:\LINUS\DATA\L190810\L0810.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Sat Aug 10 14:09:54 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	3.66	136	55576	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	5.67	164	22938	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.39	188	44922	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	10.43	240	51994	2.50000	ppb	-0.01
23) Perylene-D12 (IS)	12.59	264	50620	2.50000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	0.00	82	0d	0.00000	ppb	
Spiked Amount 5.000			Recovery =	0.000%		
4) 2-Methylnaphthalene-D10 (2)	0.00	152	0d	0.00000	ppb	
Spiked Amount 5.000			Recovery =	0.000%		
8) Surrogate Recovery (FBP)	0.00	172	0d	0.00000	ppb	
Spiked Amount 5.000			Recovery =	0.000%		
15) Fluoranthene-D10 (FRT)	0.00	212	0d	0.00000	ppb	
Spiked Amount 5.000			Recovery =	0.000%		
19) Surrogate Recovery (TPH)	0.00	244	0d	0.00000	ppb	
Spiked Amount 5.000			Recovery =	0.000%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	3.67	128	145870	5.31147	ppb	100
5) 1-Methylnaphthalene	4.48	142	86790	5.47584	ppb	100
6) 2-Methylnaphthalene	4.59	142	87726	5.42088	ppb	98
9) Acenaphthylene	5.52	152	275953	5.54134	ppb	99
10) Acenaphthene	5.71	154	73267	4.97759	ppb	99
11) Fluorene	6.31	166	82170	5.23432	ppb	99
13) Phenanthrene	7.41	178	133735	5.15288	ppb	100
14) Anthracene	7.47	178	121230	5.38290	ppb	100
16) Fluoranthene	8.78	202	187547	5.32069	ppb	100
18) Pyrene	9.03	202	191553	5.21187	ppb	97
20) Benz (a) anthracene	10.42	228	158890	5.34835	ppb	99
21) Chrysene	10.47	228	167275	5.16635	ppb	99
22) Indeno (1,2,3-cd) pyrene	14.20	276	169035	5.56723	ppb	# 93
24) Benzo (b) fluoranthene	11.90	252	139500	5.86961	ppb	98
25) Benzo (k) fluoranthene	11.95	252	178431	5.41612	ppb	96
26) Benzo (a) pyrene	12.47	252	144118	5.84067	ppb	98
27) Dibenz (a,h) anthracene	14.23	278	138032	5.97173	ppb	93
28) Benzo (g,h,i) perylene	14.50	276	135919	5.29445	ppb	96

(#) = qualifier out of range (m) = manual integration
 0810L011.D L0810.M Mon Aug 12 10:39:48 2019

Quantitation Report

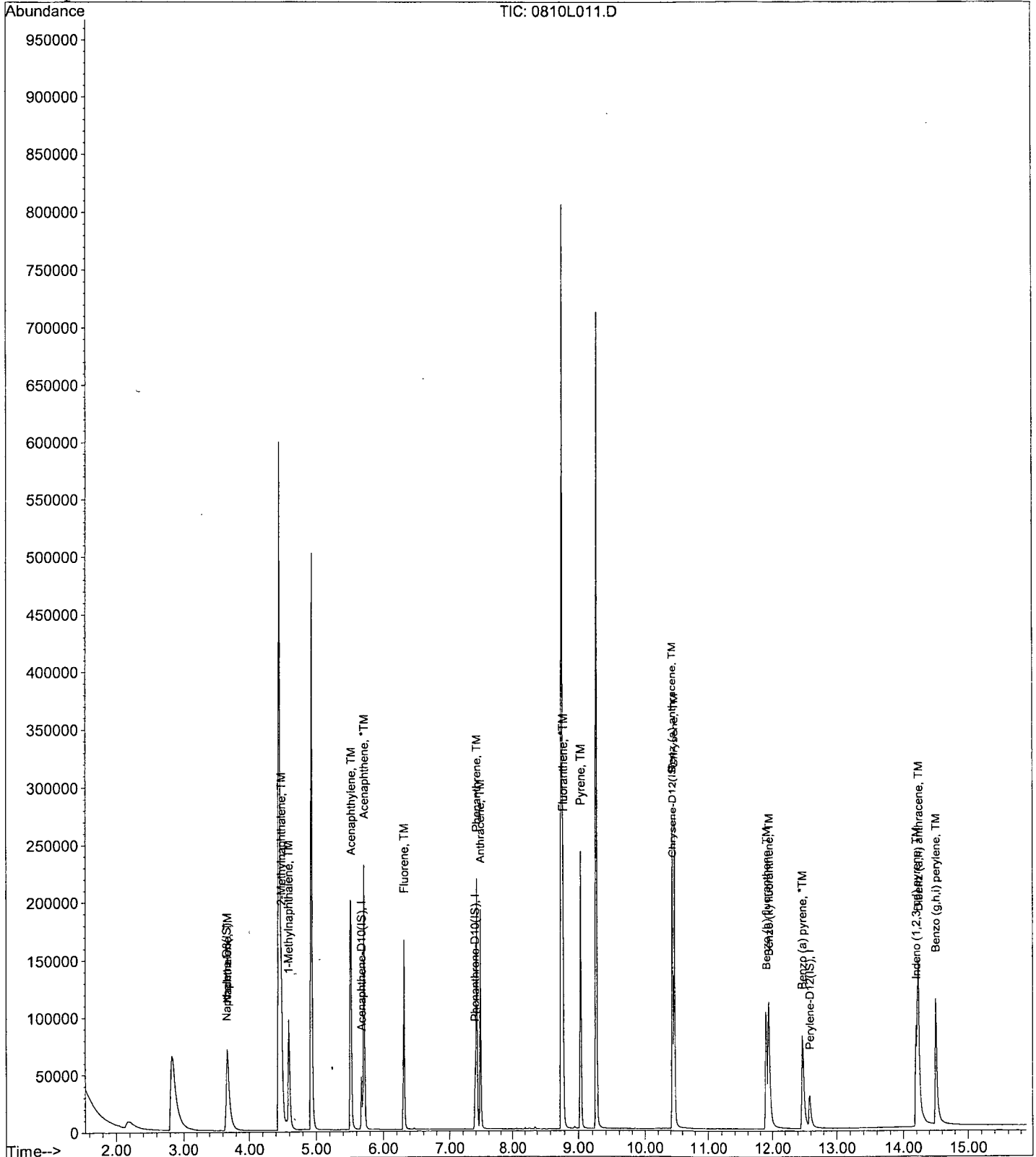
Data File : M:\LINUS\DATA\L190810\0810L011.D
Acq On : 10 Aug 19 13:57
Sample : SS SIM 08/10/19
Misc :

Vial: 11
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Aug 10 14:15 2019

Quant Results File: L0810.RES

Method : M:\LINUS\DATA\L190810\L0810.M (RTE Integrator)
Title : EPA 8270
Last Update : Sat Aug 10 14:09:54 2019
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 08/13/19
Instrument: Linus
Initial Cal. Date: 08/10/19
Data File: 0810L094.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	Napthalene-D8(IS)	ISTD			I
2	S	Surrogate Recovery (NBZ)	0.4409	0.4366	0.98	S
3	TM	Naphthalene	1.235	1.161	6.0	TM
4	S	2-Methylnaphthalene-D10 (2MN)	1.166	1.154	1.1	S
5	TM	2-Methylnaphthalene	0.7130	0.7004	1.8	TM
6	TM	1-Methylnaphthalene	0.7280	0.6745	7.3	TM
7	I	Acenaphthene-D10(IS)	ISTD			I
8	S	Surrogate Recovery (FBP)	1.836	1.774	3.3	S
9	TM	Acenaphthylene	5.428	5.564	2.5	TM
10	*TM	Acenaphthene	1.604	1.436	10	*TM
11	TM	Fluorene	1.711	1.713	0.15	TM
12	I	Phenanthrene-D10(IS)	ISTD			I
13	TM	Phenanthrene	1.444	1.329	8.0	TM
14	TM	Anthracene	1.253	1.218	2.8	TM
15	S	Fluoranthene-D10 (FRT)	1.749	1.780	1.7	S
16	*TM	Fluoranthene	1.962	1.894	3.4	*TM
17	I	Chrysene-D12(IS)	ISTD			I
18	TM	Pyrene	1.767	1.752	0.89	TM
19	S	Surrogate Recovery (TPH)	0.9599	0.9482	1.2	S
20	TM	Benz (a) anthracene	1.428	1.529	7.1	TM
21	TM	Chrysene	1.557	1.397	10	TM
22	TM	Indeno (1,2,3-cd) pyrene	1.460	1.540	5.5	TM
23	I	Perylene-D12(IS)	ISTD			I
24	TM	Benzo (b) fluoranthene	1.174	1.229	4.7	TM
25	TM	Benzo (k) fluoranthene	1.627	1.406	14	TM
26	*TM	Benzo (a) pyrene	1.219	1.211	0.61	*TM
27	TM	Dibenz (a,h) anthracene	1.142	1.134	0.67	TM
28	TM	Benzo (g,h,i) perylene	1.268	1.227	3.2	TM
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Average

4.2

Data File : M:\LINUS\DATA\L190810\0810L094.D Vial: 94
 Acq On : 13 Aug 19 11:01 Operator: MA
 Sample : 5 SIM 08/10/19 (1) Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Aug 13 11:19 2019 Quant Results File: L0810.RES

Quant Method : M:\LINUS\DATA\L190810\L0810.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Sat Aug 10 14:09:54 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	3.63	136	86542	2.50000	ppb	-0.02
7) Acenaphthene-D10 (IS)	5.67	164	35267	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.39	188	72392	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	10.45	240	80406	2.50000	ppb	0.00
23) Perylene-D12 (IS)	12.59	264	89779	2.50000	ppb	0.00

System Monitoring Compounds

2) Surrogate Recovery (NBZ)	2.80	82	37785	2.47541	ppb	-0.05
Spiked Amount 5.000			Recovery =	49.500%		
4) 2-Methylnaphthalene-D10 (2)	4.44	152	99848	2.47339	ppb	-0.01
Spiked Amount 5.000			Recovery =	49.460%		
8) Surrogate Recovery (FBP)	4.93	172	62576	2.41630	ppb	0.00
Spiked Amount 5.000			Recovery =	48.320%		
15) Fluoranthene-D10 (FRT)	8.76	212	128825	2.54300	ppb	0.00
Spiked Amount 5.000			Recovery =	50.860%		
19) Surrogate Recovery (TPH)	9.26	244	76241	2.46964	ppb	0.00
Spiked Amount 5.000			Recovery =	49.400%		

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	3.66	128	200892	4.69756	ppb	99
5) 2-Methylnaphthalene	4.48	142	121235	4.91213	ppb	97
6) 1-Methylnaphthalene	4.59	142	116740	4.63257	ppb	95
9) Acenaphthylene	5.51	152	392461	5.12582	ppb	98
10) Acenaphthene	5.71	154	101320	4.47706	ppb	94
11) Fluorene	6.31	166	120859	5.00740	ppb	98
13) Phenanthrene	7.41	178	192410	4.60046	ppb	100
14) Anthracene	7.47	178	176381	4.85989	ppb	100
16) Fluoranthene	8.78	202	274274	4.82849	ppb	99
18) Pyrene	9.03	202	281662	4.95561	ppb	100
20) Benz (a) anthracene	10.43	228	245935	5.35314	ppb	94
21) Chrysene	10.47	228	224658	4.48683	ppb	99
22) Indeno (1,2,3-cd) pyrene	14.20	276	247608	5.27342	ppb	94
24) Benzo (b) fluoranthene	11.90	252	220608	5.23364	ppb	99
25) Benzo (k) fluoranthene	11.95	252	252417	4.32001	ppb	98
26) Benzo (a) pyrene	12.48	252	217475	4.96937	ppb	99
27) Dibenz (a,h) anthracene	14.23	278	203596	4.96635	ppb	97
28) Benzo (g,h,i) perylene	14.51	276	220333	4.83913	ppb	91

Quantitation Report

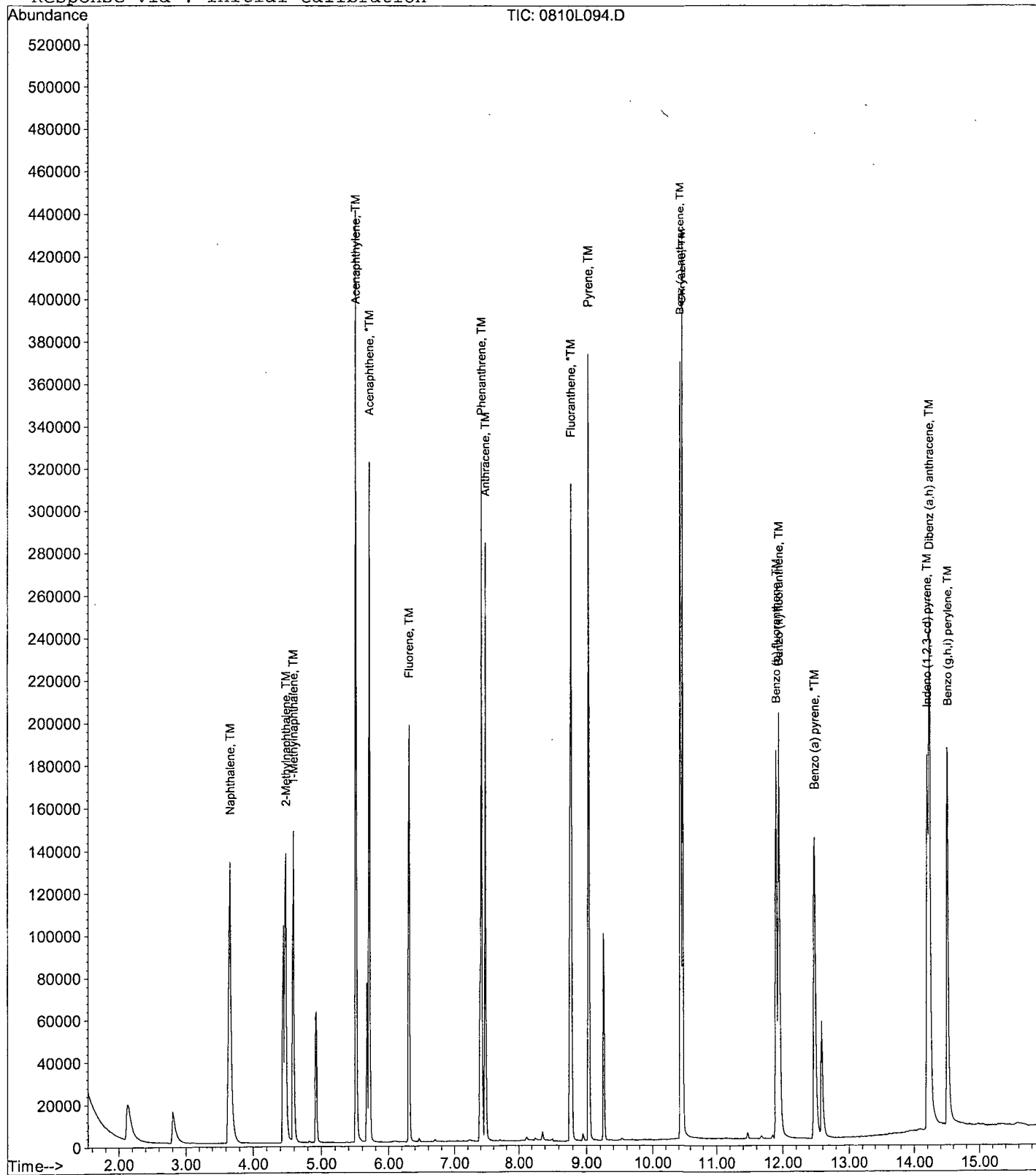
Data File : M:\LINUS\DATA\L190810\0810L094.D
Acq On : 13 Aug 19 11:01
Sample : 5 SIM 08/10/19 (1)
Misc :

Vial: 94
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Aug 13 11:19 2019

Quant Results File: L0810.RES

Method : M:\LINUS\DATA\L190810\L0810.M (RTE Integrator)
Title : EPA 8270
Last Update : Sat Aug 10 14:09:54 2019
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 08/13/19
Instrument: Linus
Initial Cal. Date: 08/10/19
Data File: 0810L115.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	Naphthalene-D8(IS)	ISTD			I
2	S	Surrogate Recovery (NBZ)	0.4409	0.5614	27	S
3	TM	Naphthalene	1.235	1.403	14	TM
4	S	2-Methylnaphthalene-D10 (2MN)	1.166	1.330	14	S
5	TM	2-Methylnaphthalene	0.7130	0.8287	16	TM
6	TM	1-Methylnaphthalene	0.7280	0.7941	9.1	TM
7	I	Acenaphthene-D10(IS)	ISTD			I
8	S	Surrogate Recovery (FBP)	1.836	2.298	25	S
9	TM	Acenaphthylene	5.428	7.016	29	TM
10	*TM	Acenaphthene	1.604	1.794	12	*TM
11	TM	Fluorene	1.711	2.082	22	TM
12	I	Phenanthrene-D10(IS)	ISTD			I
13	TM	Phenanthrene	1.444	1.565	8.4	TM
14	TM	Anthracene	1.253	1.536	23	TM
15	S	Fluoranthene-D10 (FRT)	1.749	2.052	17	S
16	*TM	Fluoranthene	1.962	2.235	14	*TM
17	I	Chrysene-D12(IS)	ISTD			I
18	TM	Pyrene	1.767	2.025	15	TM
19	S	Surrogate Recovery (TPH)	0.9599	1.206	26	S
20	TM	Benz (a) anthracene	1.428	1.698	19	TM
21	TM	Chrysene	1.557	1.596	2.5	TM
22	TM	Indeno (1,2,3-cd) pyrene	1.460	1.748	20	TM
23	I	Perylene-D12(IS)	ISTD			I
24	TM	Benzo (b) fluoranthene	1.174	1.552	32	TM
25	TM	Benzo (k) fluoranthene	1.627	1.723	5.9	TM
26	*TM	Benzo (a) pyrene	1.219	1.524	25	*TM
27	TM	Dibenz (a,h) anthracene	1.142	1.390	22	TM
28	TM	Benzo (g,h,i) perylene	1.268	1.457	15	TM
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Average

18.0

Data File : M:\LINUS\DATA\L190810\0810L115.D
 Acq On : 13 Aug 19 19:12
 Sample : 5 SIM 08/10/19 (2)
 Misc :

Vial: 15
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Aug 13 20:05 2019

Quant Results File: L0810.RES

Quant Method : M:\LINUS\DATA\L190810\L0810.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Sat Aug 10 14:09:54 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	3.63	136	94624	2.50000	ppb	-0.02
7) Acenaphthene-D10 (IS)	5.67	164	37340	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.39	188	75213	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	10.43	240	85676	2.50000	ppb	-0.01
23) Perylene-D12 (IS)	12.59	264	85723	2.50000	ppb	0.00

System Monitoring Compounds

2) Surrogate Recovery (NBZ)	2.80	82	53123	3.18300	ppb	-0.05
Spiked Amount	5.000		Recovery	=	63.660%	
4) 2-Methylnaphthalene-D10 (2)	4.44	152	125829	2.85076	ppb	-0.01
Spiked Amount	5.000		Recovery	=	57.020%	
8) Surrogate Recovery (FBP)	4.93	172	85793	3.12888	ppb	0.00
Spiked Amount	5.000		Recovery	=	62.580%	
15) Fluoranthene-D10 (FRT)	8.76	212	154360	2.93278	ppb	0.00
Spiked Amount	5.000		Recovery	=	58.660%	
19) Surrogate Recovery (TPH)	9.26	244	103309	3.14060	ppb	0.00
Spiked Amount	5.000		Recovery	=	62.820%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	3.66	128	265453	5.67705	ppb	99
5) 2-Methylnaphthalene	4.48	142	156822	5.81131	ppb	97
6) 1-Methylnaphthalene	4.59	142	150286	5.45439	ppb	96
9) Acenaphthylene	5.51	152	523984	6.46366	ppb	98
10) Acenaphthene	5.71	154	133997	5.59225	ppb	95
11) Fluorene	6.31	166	155457	6.08329	ppb	100
13) Phenanthrene	7.41	178	235415	5.41758	ppb	100
14) Anthracene	7.47	178	231121	6.12932	ppb	100
16) Fluoranthene	8.78	202	336273	5.69792	ppb	97
18) Pyrene	9.03	202	347069	5.73078	ppb	97
20) Benz (a) anthracene	10.42	228	290919	5.94278	ppb	99
21) Chrysene	10.47	228	273451	5.12538	ppb	98
22) Indeno (1,2,3-cd) pyrene	14.20	276	299464	5.98551	ppb	97
24) Benzo (b) fluoranthene	11.90	252	266037	6.61000	ppb	99
25) Benzo (k) fluoranthene	11.95	252	295367	5.29426	ppb	98
26) Benzo (a) pyrene	12.47	252	261244	6.25195	ppb	96
27) Dibenz (a,h) anthracene	14.23	278	238384	6.09007	ppb	98
28) Benzo (g,h,i) perylene	14.50	276	249858	5.74723	ppb	94

Quantitation Report

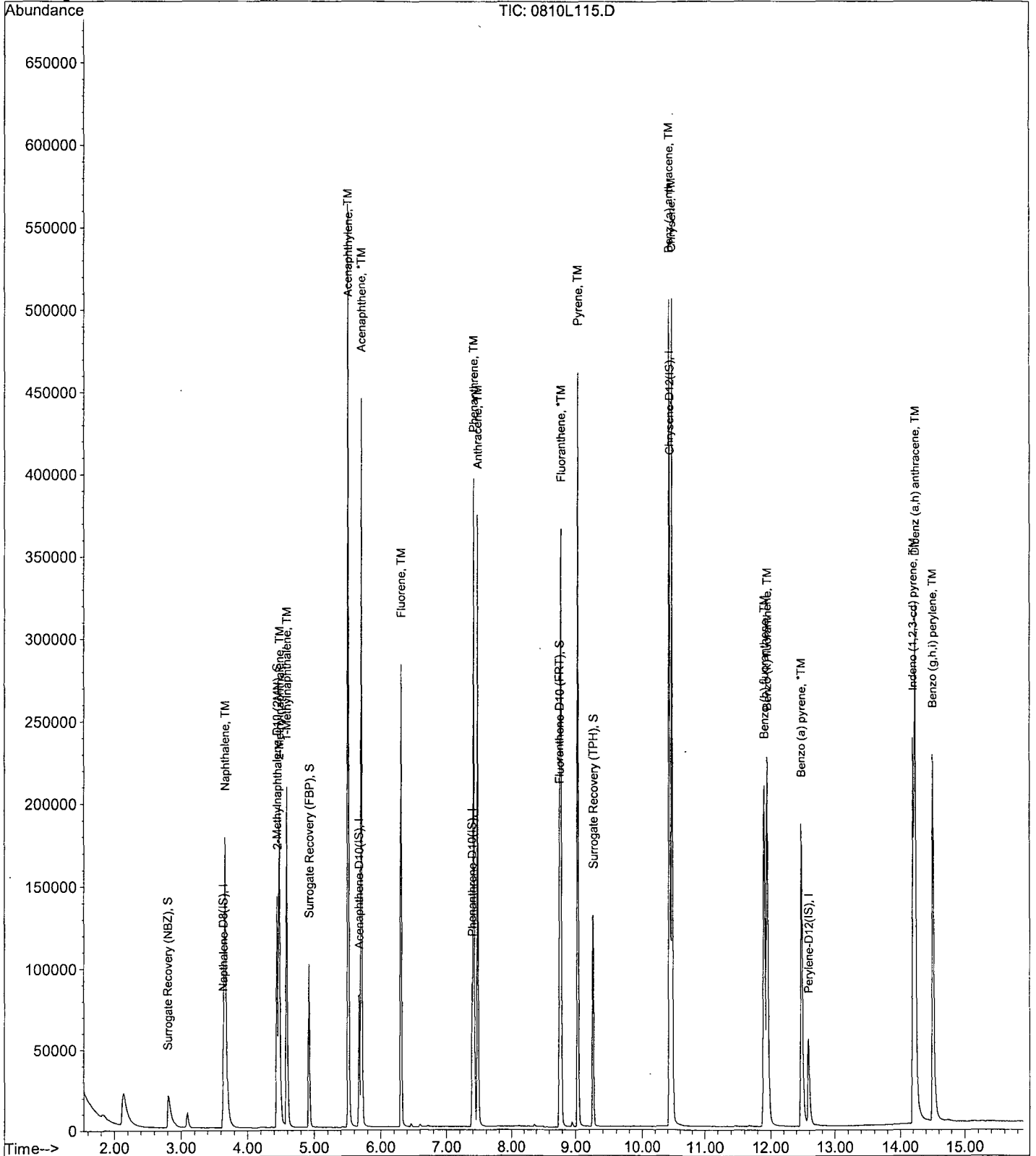
Data File : M:\LINUS\DATA\L190810\0810L115.D
Acq On : 13 Aug 19 19:12
Sample : 5 SIM 08/10/19 (2)
Misc :

Vial: 15
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Aug 13 20:05 2019

Quant Results File: L0810.RES

Method : M:\LINUS\DATA\L190810\L0810.M (RTE Integrator)
Title : EPA 8270
Last Update : Sat Aug 10 14:09:54 2019
Response via : Initial Calibration



ORGANICS
Raw Data

Data File : M:\LINUS\DATA\L190810\0810L108.D Vial: 8
 Acq On : 13 Aug 19 16:35 Operator: MA
 Sample : AZ95860W19 1/800 Inst : Linus
 Misc : Multiplr: 1.25

Quant Time: Aug 13 17:00 2019 Quant Results File: L0810.RES

Quant Method : M:\LINUS\DATA\L190810\L0810.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Sat Aug 10 14:09:54 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	3.63	136	78071	2.50000	ppb	-0.02
7) Acenaphthene-D10 (IS)	5.67	164	33668	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.39	188	65685	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	10.43	240	79789	2.50000	ppb	-0.01
23) Perylene-D12 (IS)	12.59	264	79257	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	2.79	82	1523145	138.26637	ppb	-0.06
Spiked Amount	6.250				Recovery = 2212.256%	
4) 2-Methylnaphthalene-D10 (2)	4.44	152	193930	6.65650	ppb	-0.01
Spiked Amount	6.250				Recovery = 106.512%	
8) Surrogate Recovery (FBP)	4.93	172	1881203	95.11292	ppb	0.00
Spiked Amount	6.250				Recovery = 1521.808%	
15) Fluoranthene-D10 (FRT)	8.76	212	241877	6.57772	ppb	0.00
Spiked Amount	6.250				Recovery = 105.248%	
19) Surrogate Recovery (TPH)	9.27	244	2301599	93.91394	ppb	0.01
Spiked Amount	6.250				Recovery = 1502.624%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

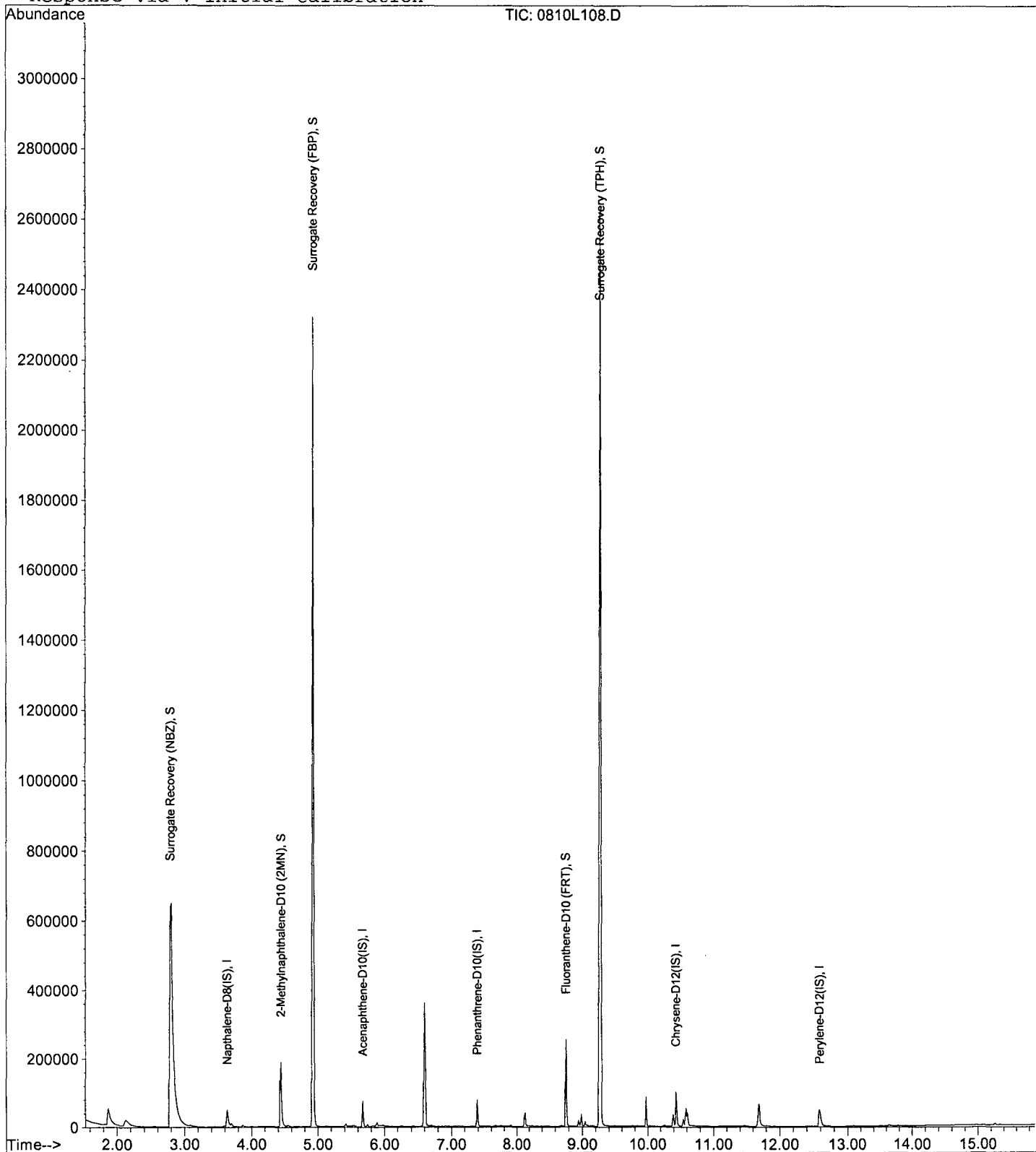
Data File : M:\LINUS\DATA\L190810\0810L108.D
Acq On : 13 Aug 19 16:35
Sample : AZ95860W19 1/800
Misc :

Vial: 8
Operator: MA
Inst : Linus
Multiplr: 1.25

Quant Time: Aug 13 17:00 2019

Quant Results File: L0810.RES

Method : M:\LINUS\DATA\L190810\L0810.M (RTE Integrator)
Title : EPA 8270
Last Update : Sat Aug 10 14:09:54 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190810\0810L105.D Vial: 5
 Acq On : 13 Aug 19 15:14 Operator: MA
 Sample : 190805A BLK 1/800 Inst : Linus
 Misc : Multiplr: 1.25

Quant Time: Aug 13 15:56 2019 Quant Results File: L0810.RES

Quant Method : M:\LINUS\DATA\L190810\L0810.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Sat Aug 10 14:09:54 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	3.63	136	75440	2.50000	ppb	-0.02
7) Acenaphthene-D10 (IS)	5.67	164	22791	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.39	188	60542	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	10.45	240	62234	2.50000	ppb	0.00
23) Perylene-D12 (IS)	12.60	264	12549	2.50000	ppb	0.01

System Monitoring Compounds

2) Surrogate Recovery (NBZ)	2.79	82	1476795	138.73422	ppb	-0.06
Spiked Amount	6.250				Recovery = 2219.744%	
4) 2-Methylnaphthalene-D10 (2)	4.44	152	182641	6.48765	ppb	-0.01
Spiked Amount	6.250				Recovery = 103.808%	
8) Surrogate Recovery (FBP)	4.93	172	1813596	135.45603	ppb	0.00
Spiked Amount	6.250				Recovery = 2167.296%	
15) Fluoranthene-D10 (FRT)	8.76	212	213212	6.29074	ppb	0.00
Spiked Amount	6.250				Recovery = 100.656%	
19) Surrogate Recovery (TPH)	9.27	244	2295164	120.06860	ppb	0.01
Spiked Amount	6.250				Recovery = 1921.104%	

Target Compounds Qvalue

Quantitation Report

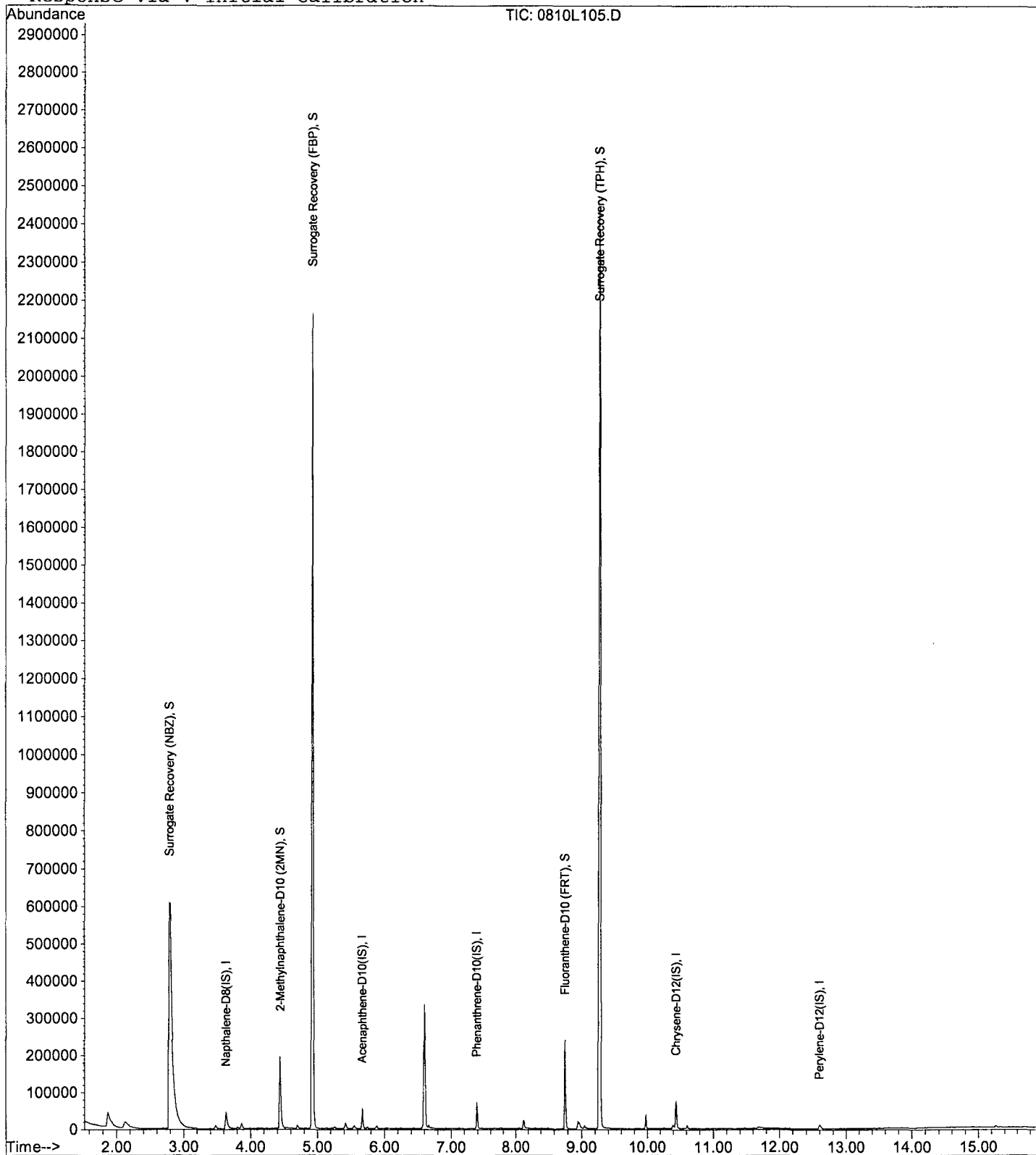
Data File : M:\LINUS\DATA\L190810\0810L105.D
Acq On : 13 Aug 19 15:14
Sample : 190805A BLK 1/800
Misc :

Vial: 5
Operator: MA
Inst : Linus
Multiplr: 1.25

Quant Time: Aug 13 15:56 2019

Quant Results File: L0810.RES

Method : M:\LINUS\DATA\L190810\L0810.M (RTE Integrator)
Title : EPA 8270
Last Update : Sat Aug 10 14:09:54 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190810\0810L106.D
 Acq On : 13 Aug 19 15:50
 Sample : 190805A LCS-2 1/800
 Misc :

Vial: 6
 Operator: MA
 Inst : Linus
 Multiplr: 1.25

Quant Time: Aug 13 16:28 2019

Quant Results File: L0810.RES

Quant Method : M:\LINUS\DATA\L190810\L0810.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Sat Aug 10 14:09:54 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	3.63	136	91440	2.50000	ppb	-0.02
7) Acenaphthene-D10 (IS)	5.67	164	33026	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.39	188	65893	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	10.45	240	73746	2.50000	ppb	0.00
23) Perylene-D12 (IS)	12.59	264	74036	2.50000	ppb	0.00

System Monitoring Compounds

2) Surrogate Recovery (NBZ)	0.00	82	0	0.00000	ppb	
Spiked Amount	6.250			Recovery	=	0.000%
4) 2-Methylnaphthalene-D10 (2)	4.44	152	186703	5.47150	ppb	-0.01
Spiked Amount	6.250			Recovery	=	87.536%
8) Surrogate Recovery (FBP)	4.93	172	309	0.01593	ppb	0.00
Spiked Amount	6.250			Recovery	=	0.256%
15) Fluoranthene-D10 (FRT)	8.76	212	237848	6.44774	ppb	0.00
Spiked Amount	6.250			Recovery	=	103.168%
19) Surrogate Recovery (TPH)	9.26	244	2803	0.12375	ppb	0.00
Spiked Amount	6.250			Recovery	=	1.984%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	3.66	128	174554	4.82881	ppb	99
5) 2-Methylnaphthalene	4.48	142	104115	4.99063	ppb	97
6) 1-Methylnaphthalene	4.59	142	100791	4.73178	ppb	94
9) Acenaphthylene	5.51	152	346382	6.03871	ppb	98
10) Acenaphthene	5.71	154	92484	5.45490	ppb	96
11) Fluorene	6.31	166	115471	6.38600	ppb	99
13) Phenanthrene	7.41	178	185264	6.08311	ppb	100
14) Anthracene	7.47	178	173258	6.55586	ppb	100
16) Fluoranthene	8.78	202	270754	6.54580	ppb	96
18) Pyrene	9.03	202	272757	6.54041	ppb	# 89
20) Benz (a) anthracene	10.43	228	245330	7.27778	ppb	95
21) Chrysene	10.47	228	227364	6.18870	ppb	96
22) Indeno (1,2,3-cd) pyrene	14.21	276	247742	7.19097	ppb	90
24) Benzo (b) fluoranthene	11.90	252	231700	8.33202	ppb	98
25) Benzo (k) fluoranthene	11.95	252	225379	5.84684	ppb	95
26) Benzo (a) pyrene	12.48	252	197422	6.83800	ppb	97
27) Dibenz (a,h) anthracene	14.24	278	200099	7.39869	ppb	92
28) Benzo (g,h,i) perylene	14.51	276	205951	6.85636	ppb	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

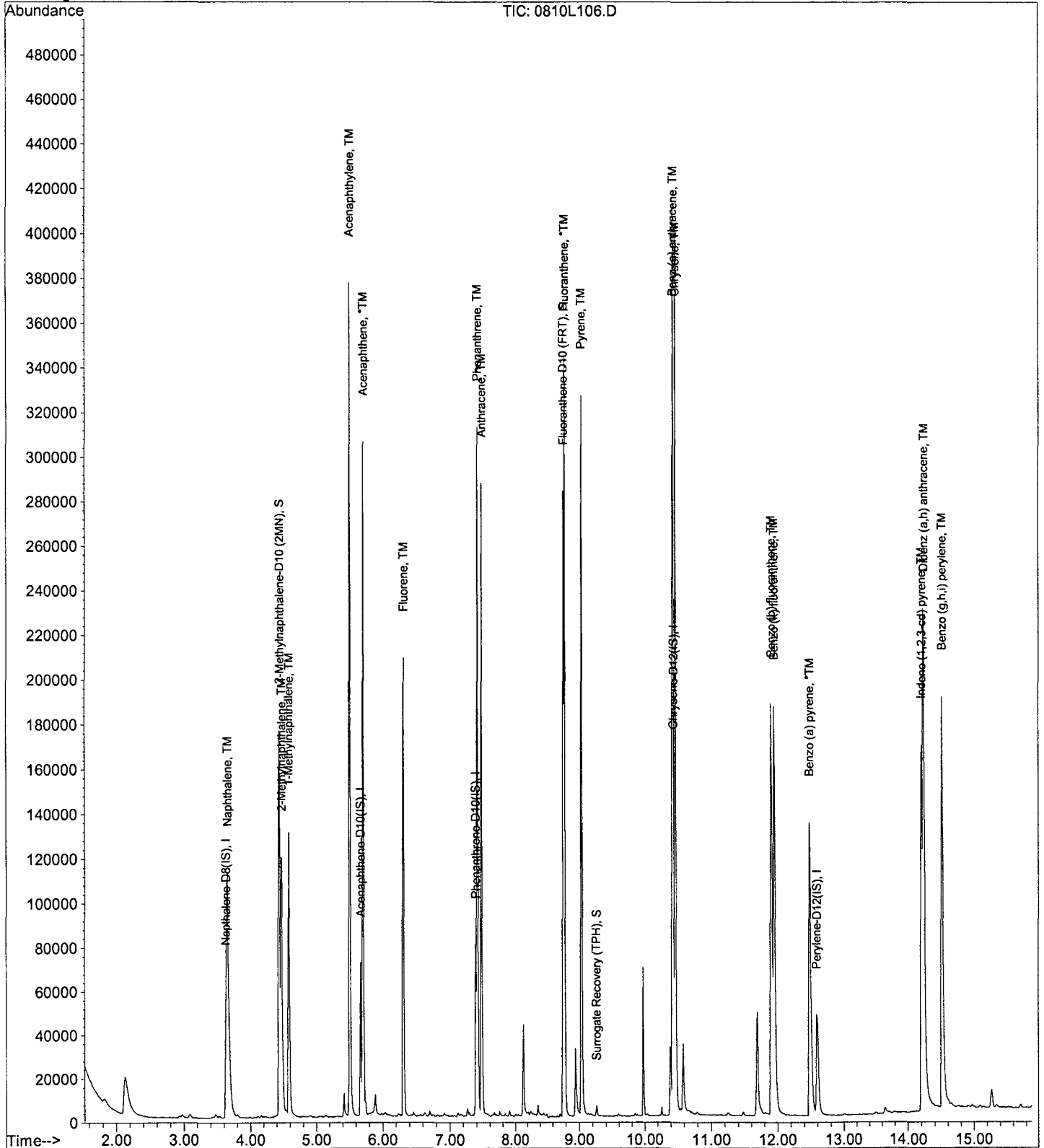
Data File : M:\LINUS\DATA\L190810\0810L106.D
 Acq On : 13 Aug 19 15:50
 Sample : 190805A LCS-2 1/800
 Misc :

Vial: 6
 Operator: MA
 Inst : Linus
 Multiplr: 1.25

Quant Time: Aug 13 16:28 2019

Quant Results File: L0810.RES

Method : M:\LINUS\DATA\L190810\L0810.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Sat Aug 10 14:09:54 2019
 Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190810\0810L107.D Vial: 7
 Acq On : 13 Aug 19 16:13 Operator: MA
 Sample : 190805A LCSD-2 1/800 Inst : Linus
 Misc : Multiplr: 1.25

Quant Time: Aug 13 16:29 2019 Quant Results File: L0810.RES

Quant Method : M:\LINUS\DATA\L190810\L0810.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Sat Aug 10 14:09:54 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	3.63	136	89545	2.50000	ppb	-0.02
7) Acenaphthene-D10 (IS)	5.67	164	32424	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.39	188	64914	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	10.45	240	72748	2.50000	ppb	0.00
23) Perylene-D12 (IS)	12.59	264	76384	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	2.86	82	48	0.00380	ppb	0.01
Spiked Amount 6.250			Recovery =	0.064%		
4) 2-Methylnaphthalene-D10 (2)	4.44	152	174065	5.20908	ppb	-0.01
Spiked Amount 6.250			Recovery =	83.344%		
8) Surrogate Recovery (FBP)	4.93	172	65	0.00341	ppb	0.00
Spiked Amount 6.250			Recovery =	0.048%		
15) Fluoranthene-D10 (FRT)	8.76	212	230100	6.33177	ppb	0.00
Spiked Amount 6.250			Recovery =	101.312%		
19) Surrogate Recovery (TPH)	9.26	244	661	0.02958	ppb	0.00
Spiked Amount 6.250			Recovery =	0.480%		
Target Compounds						
3) Napthalene	3.66	128	163974	4.63212	ppb	99
5) 2-Methylnaphthalene	4.48	142	96875	4.74186	ppb	97
6) 1-Methylnaphthalene	4.59	142	93885	4.50084	ppb	95
9) Acenaphthylene	5.51	152	330269	5.86471	ppb	98
10) Acenaphthene	5.71	154	85916	5.16159	ppb	94
11) Fluorene	6.31	166	110722	6.23706	ppb	100
13) Phenanthrene	7.41	178	176640	5.88741	ppb	100
14) Anthracene	7.47	178	169299	6.50267	ppb	99
16) Fluoranthene	8.78	202	264003	6.47885	ppb	100
18) Pyrene	9.03	202	266194	6.47060	ppb	99
20) Benz (a) anthracene	10.42	228	244692	7.35843	ppb	99
21) Chrysene	10.47	228	204395	5.63982	ppb	99
22) Indeno (1,2,3-cd) pyrene	14.20	276	229910	6.76492	ppb	# 92
24) Benzo (b) fluoranthene	11.90	252	211125	7.35876	ppb	99
25) Benzo (k) fluoranthene	11.95	252	237008	5.95952	ppb	98
26) Benzo (a) pyrene	12.48	252	189980	6.37796	ppb	99
27) Dibenz (a,h) anthracene	14.23	278	188929	6.77094	ppb	98
28) Benzo (g,h,i) perylene	14.51	276	199062	6.42331	ppb	90

Quantitation Report

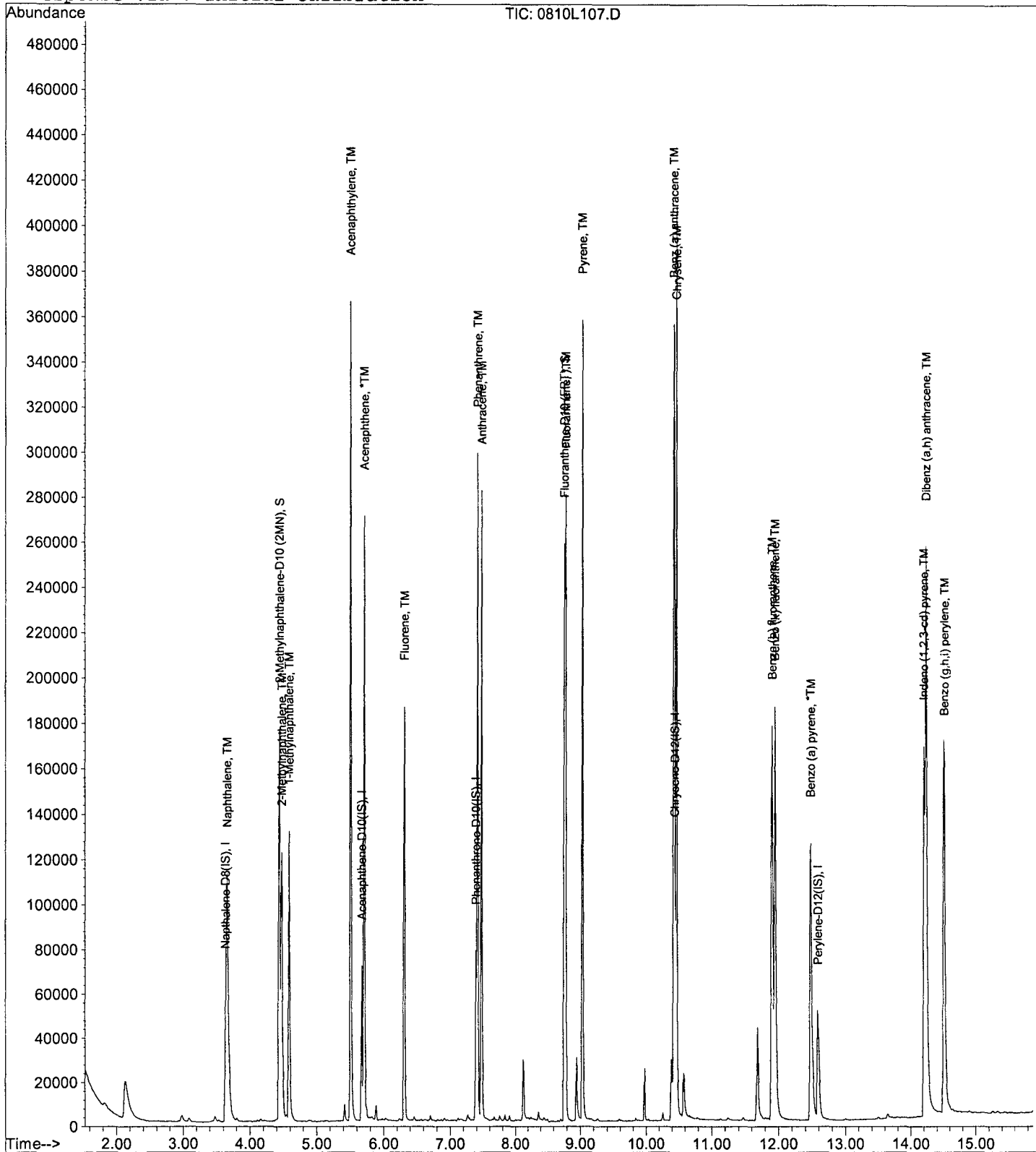
Data File : M:\LINUS\DATA\L190810\0810L107.D
Acq On : 13 Aug 19 16:13
Sample : 190805A LCSD-2 1/800
Misc :

Vial: 7
Operator: MA
Inst : Linus
Multiplr: 1.25

Quant Time: Aug 13 16:29 2019

Quant Results File: L0810.RES

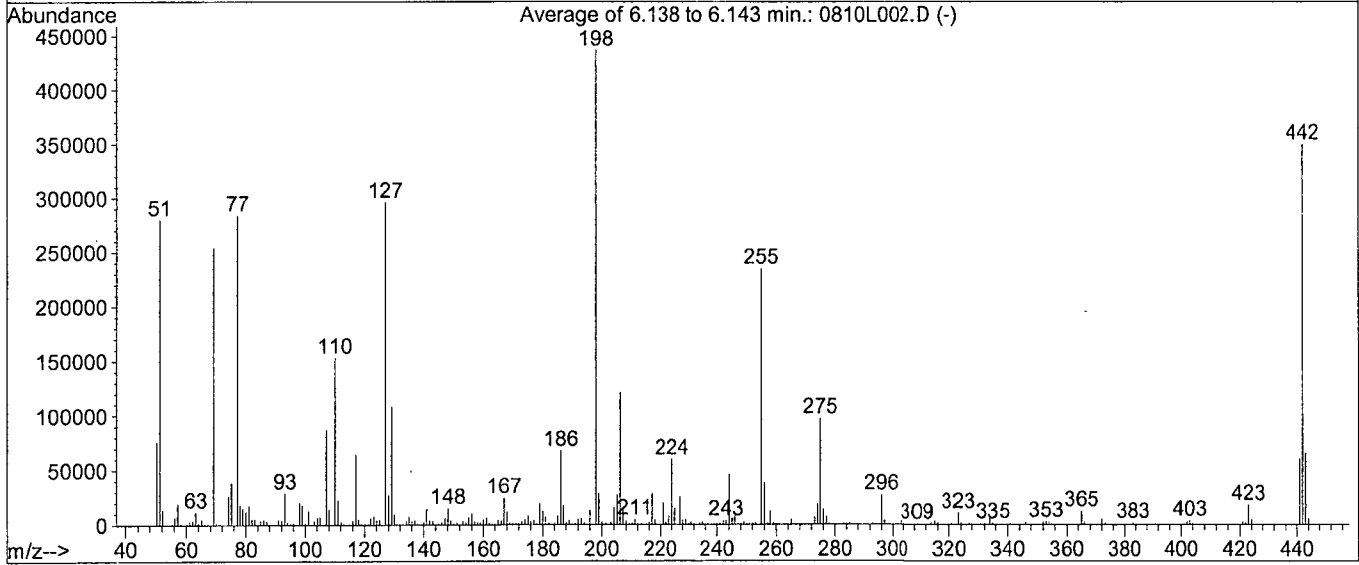
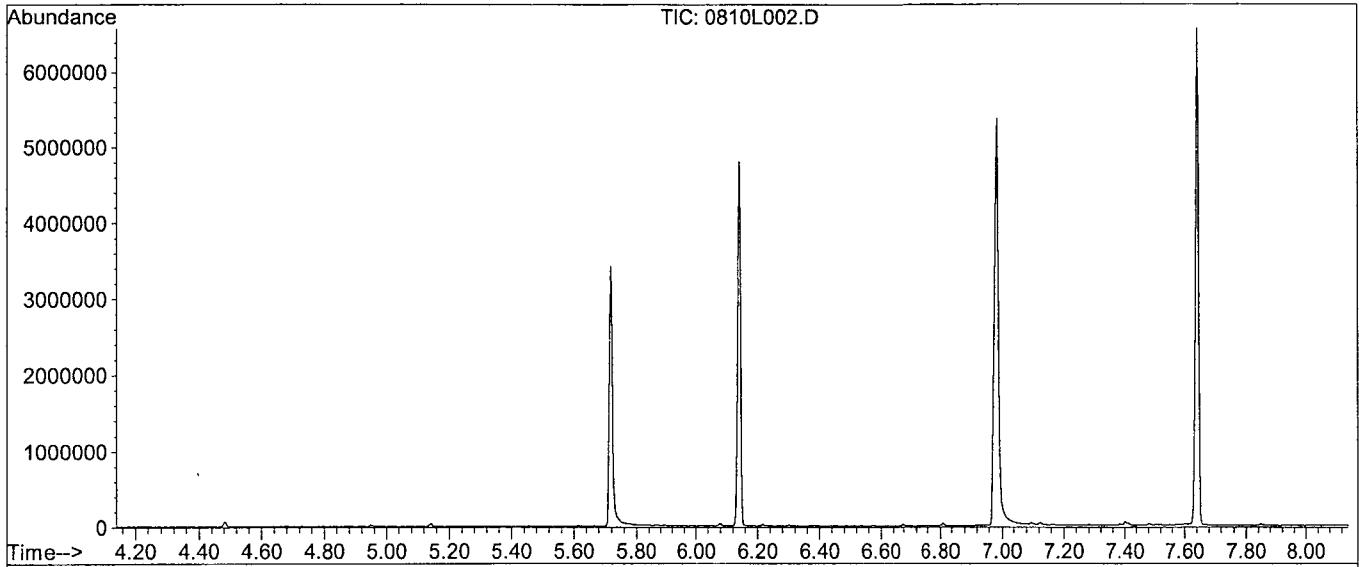
Method : M:\LINUS\DATA\L190810\L0810.M (RTE Integrator)
Title : EPA 8270
Last Update : Sat Aug 10 14:09:54 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190810\0810L002.D
 Acq On : 10 Aug 19 10:13
 Sample : SV Tune 07/11/19
 Misc :

Vial: 2
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Method : M:\LINUS\DATA\L190809\L0809.M (RTE Integrator)
 Title : EPA 8270



AutoFind: Scans 1427, 1428, 1429; Background Corrected with Scan 1415

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	64.0	279977	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.6	1560	PASS
127	198	10	80	67.8	296213	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	437141	PASS
199	198	5	9	6.5	28472	PASS
275	198	10	60	22.3	97285	PASS
365	198	1	100	2.8	12339	PASS
441	442	0.01	24	17.3	60493	PASS
442	198	50	500	80.1	350101	PASS
443	442	15	24	18.8	65856	PASS

Data File Name: 0810L002.D
Data File Path: M:\LINUS\DATA\190810\
Operator: MA
Date Acquired: 10 Aug 2019 10:13
Method File: DFTPP2.M
Sample Name: SV Tune 07/11/19
Vial Number: 2
Instrument Name: Linus

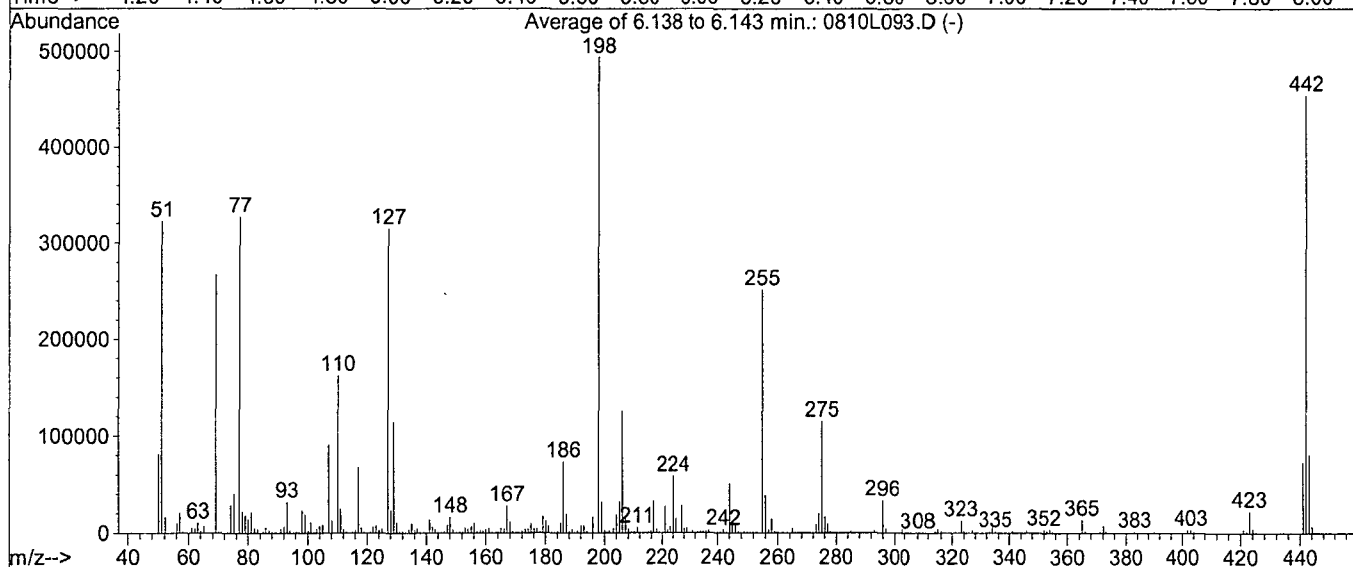
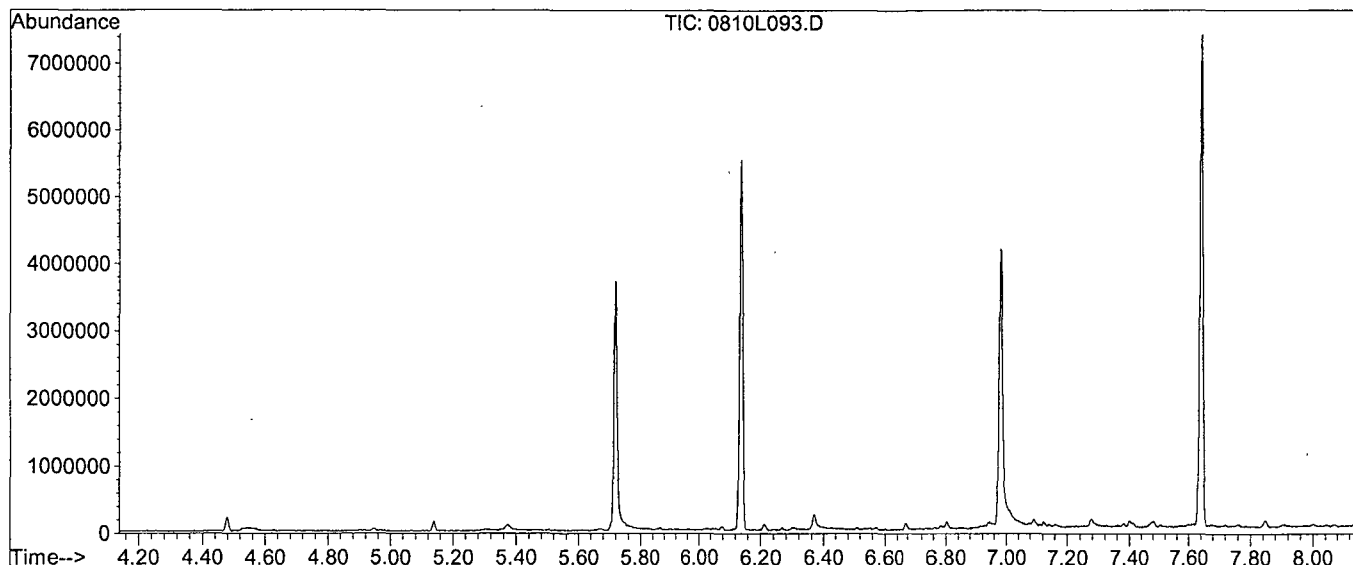
#	Name	Ret Time	Target Response
1)	DDT	7.65	45866200
2)	DDD	7.40	576579
3)	DDE	7.47	168935

Breakdown 1.60

Data File : M:\LINUS\DATA\L190810\0810L093.D
 Acq On : 13 Aug 19 10:45
 Sample : SV Tune 07/11/19
 Misc :

Vial: 93
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Method : M:\LINUS\DATA\L190810\L0810.M (RTE Integrator)
 Title : EPA 8270



AutoFind: Scans 1427, 1428, 1429; Background Corrected with Scan 1418

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	65.3	322347	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.3	776	PASS
127	198	10	80	63.7	314624	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	493909	PASS
199	198	5	9	6.3	31157	PASS
275	198	10	60	23.3	114939	PASS
365	198	1	100	2.7	13395	PASS
441	442	0.01	24	16.0	72632	PASS
442	198	50	500	91.9	454101	PASS
443	442	15	24	17.8	80608	PASS

Data File Name: 0810L093.D
Data File Path: M:\LINUS\DATA\190810\
Operator: MA
Date Acquired: 13 Aug 2019 10:45
Method File: DFTPP2.M
Sample Name: SV Tune 07/11/19
Vial Number: 93
Instrument Name: Linus

#	Name	Ret Time	Target Response
1)	DDT	7.65	54243800
2)	DDD	7.40	710556
3)	DDE	7.47	778803

Breakdown 2.67

Name of Final
Standard Semivolatile (SV) Tuning Solution
Prep Date 07/11/19
Exp Date 09/30/19

Prep'd By (Initials)

JP

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Semivolatile GC/MS Tuning Standard	Ultra Scientific	GCM-150-1	1,000 ug/mL	CR3789-38879	09/30/19	1,250 uL	25 mL	MC #58240	50 ug/mL

Name of Final Standard

SIM Curve

Prep'd By (Initials)

MA

Prep Date

08/10/19

Exp Date

01/24/20

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(rang e)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
1.0 ug/mL SIM	APPL	1.0 ug/mL SIM	1.0 ug/mL	08/10/19	01/24/20	10 uL	100uL	MC 56258 90uL	0.1 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	07/10/19	07/10/20	2 uL	*	*	2.5ug/mL
1.0 ug/mL SIM	APPL	1.0 ug/mL SIM	1.0 ug/mL	08/10/19	01/24/20	20 uL	100uL	MC 56258 80uL	0.2 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	07/10/19	07/10/20	2 uL	*	*	2.5ug/mL
5.0 ug/mL SIM	APPL	5.0 ug/mL SIM	5.0 ug/mL	08/10/19	01/24/20	10 uL	100uL	MC 56258 90uL	0.5 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	07/10/19	07/10/20	2 uL	*	*	2.5ug/mL
5.0 ug/mL SIM	APPL	5.0 ug/mL SIM	5.0 ug/mL	08/10/19	01/24/20	20 uL	100uL	MC 56258 80 uL	1.0 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	07/10/19	07/10/20	2 uL	*	*	2.5ug/mL
SIM STOCK	APPL	PAH SIM STOCK	200 ug/mL	08/10/19	08/10/20	5 uL	200uL	MC 56258 190 uL	5.0 ug/mL
SIM 2S SURROGATE	APPL	SIM 2S SURR	100 ug/mL	05/17/19	01/24/20	5 uL	*	*	2.5ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	07/10/19	07/10/20	4 uL	*	*	2.5ug/mL
SIM STOCK	APPL	PAH SIM STOCK	200 ug/mL	08/10/19	08/10/20	5 uL	100 uL	MC 56258 90 uL	10 ug/mL
SIM 2S SURROGATE	APPL	SIM 2S SURROGATE	100 ug/mL	05/17/19	01/24/20	5 uL	*	*	5 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	07/10/19	07/10/20	2 uL	*	*	2.5ug/mL
SIM STOCK	APPL	PAH SIM STOCK	200	08/10/19	08/10/20	25 uL	100uL	MC 56258 50 uL	50 ug/mL
SIM 2S SURROGATE	APPL	SIM 2S SURROGATE	100 ug/mL	05/17/19	01/24/20	25 uL	*	*	25 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	07/10/19	07/10/20	2 uL	*	*	2.5ug/mL
SIM STOCK	APPL	PAH SIM STOCK	200 ug/mL	08/10/19	08/10/20	50 uL	100uL	na	100 ug/mL
SIM 2S SURROGATE	APPL	SIM 2S SURROGATE	100 ug/mL	05/17/19	01/24/20	50 uL	*	*	50 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	07/10/19	07/10/20	2 uL	*	*	2.5ug/mL

Name of Final Standard 8270 PAH SIM Second Source
 Prep Date 08/10/19
 Exp Date 12/28/19

Prep'd By (Initials) MA

Initial Standard Information					Final Standard Information				
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
PAH SIM SS Stock	Phenova	ALO-130490	200 ug/mL	12/28/18	12/28/19	5 uL	200uL	MC 56258 195uL	5 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	07/10/19	07/10/20	4 uL	*	*	2.5ug/mL

Name of Final Standard PAH SIM Stock (Ampule)
 Prep Date 08/10/19
 Exp Date 08/10/20

Prep'd By (Initials) MA

Initial Standard Information					Final Standard Information				
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Custom PAH SIM Mix	Phenova	ALO-130490	200 ug/mL	CL13121-41102	08/10/20	1000 uL	1mL	NA	200ug/mL

Name of Final Standard PAH SIM 2nd Source Stock (Ampule)

Prep'd By (Initials) GA

Prep Date 12/28/18

Exp Date 12/28/19

Initial Standard Information					Final Standard Information				
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Custom PAH SIM Mix	Phenova	AL0-130490	200 ug/mL	CL13121 - 40082	12/28/19	1 mL	na	na	200 ug/mL

Name of Final Standard 8270 SIM PAH Internal Standard

Prep'd By (Initials) GA

Prep Date 07/10/19

Exp Date 07/10/20

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
SV Internal Standard	Restek	31206	2000 ug/mL	A0144261-40464	07/10/19	350 uL	5,600 uL	MC 56258 5,250 uL	125 ug/mL

Name of Final

Standard

SIM 2S Surrogate

Prep'd By (Initials)

GA

Prep Date **05/17/19**

Exp Date **01/24/20**

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc. (range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL-Prep Date)	Final Standard Conc (range)
SIM Surrogate Mix	Restek	33913	2000 ug/mL	A0137718 - 39318	01/24/20	250 uL	.5 mL	Acetone #030817A	100 ug/mL
8270 B/N surrog mix	Restek	31086	5000 ug/mL	A0141697 - 40112	04/10/20	100 uL	*	*	*

Name of Final Standard SIM Spike
 Prep Date 08/06/19
 Exp Date 08/06/20

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Custom PAH Sim Mix	Phenova	AL0-130490	200 ug/mL	CL13127- 41101 41103	08/06/20	2 mL	10 mL	Methanol	40 ug/mL

Name of Final Standard SIM Surrogate
 Prep Date 07/19/19
 Exp Date 07/01/20

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or,APPL Prep Date)	Final Standard Conc (range)
Sim Surrogate Deuterated	Restek	33913	2000 ug/mL	A0145699-40667 40653	07/01/20 07/19/20	1250 uL	25 mL	Acetone #1017171	100 ug/mL

Organic Extraction Worksheet

Method	Continuous Liquid/Liquid SVOC 3520C	Extraction Set	190805A	Extraction Method	LIQ003	Units	mL
Spiked ID 1	8270T Spike 7/18/19-10/20/19	Surrogate ID 1	8270 Surrogate 6/24/19-4/10/19	Surrogate ID 2	SIM Surrogate 7/19/19-7/1/20		
Spiked ID 2	Sim Spike 7/24/19-7/9/19	Surrogate ID 3		Surrogate ID 4			
Spiked ID 3		Surrogate ID 5					
Spiked ID 4		Sufficient Vol for Matrix QC:		yes			
Spiked ID 5		Ext. Start Time:		08/05/19 11:10			
Spiked ID 6		Ext. End Time:		08/08/19 16:30			
Spiked ID 7		GC Requires Extract By:		08/07/19 0:00			
Spiked ID 8		pH1	2	08/05/19 13:35	Water Bath Temp 1 °C	72/71.2 EWB5 °	
		pH2	14	08/06/19 8:05	Water Bath Temp 2 °C	75/74.9 EWB6	
		pH3			Water Bath Temp 3 °C		

Spiked By: DL

Date 08/05/19

Witnessed By: CFM

Date 08/05/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1 190805A Blk				1,0.050	1,2	800	1	2/1	08/05/19 11:10	
					equip	e-hp51 E-WB5				
2 190805A LCS-1		1	1	1	1	800	1	2/1	08/05/19 11:10	
					equip	e-hp50 E-WB5				
3 190805A LCS-2		0.125	2	0.050	2	800	1	2/1	08/05/19 11:10	
					equip	E-HP48 E-WB5				
4 190805A LCS-D-1		1	1	1	1	800	1	2/1	08/05/19 11:10	
					equip	E-HP49 E-WB5				
5 190805A LCS-D-2		0.125	2	0.050	2	800	1	2/1	08/05/19 11:10	
					equip	E-HP47 E-WB5				
6 AZ95765	AZ95765W13			1,0.050	1,2	800	1	2/1	08/05/19 11:10	89644
					equip	E-HP25 E-WB5				
7 AZ95858	AZ95858W10			1,0.050	1,2	800	1	2/1	08/05/19 11:10	89677
					equip	E-HP26 E-WB6				
8 AZ95860	AZ95860W19			1,0.050	1,2	800	1	2/1	08/05/19 11:10	89674
					equip	E-HP27 E-WB6				
9 AZ95987 MS-1	AZ95987W29	1	1	1	1	800	1	2/1	08/05/19 11:10	
					equip	E-HP29 E-WB6				
10 AZ95987 MSD-1	AZ95987W40	1	1	1	1	800	1	2/1	08/05/19 11:10	
					equip	E-HP30 E-WB6				
11 AZ95987 MS-2	AZ95987W39	0.125	2	0.050	2	800	1	2/1	08/05/19 11:10	
					equip	E-HP17 E-WB6				
12 AZ95987 MSD-2	AZ95987W36	0.125	2	0.050	2	800	1	2/1	08/05/19 11:10	
					equip	E-HP16 E-WB6				
13 AZ95987	AZ95987W34			1,0.050	1,2	800	1	2/1	08/05/19 11:10	89682
					equip	E-HP28 E-WB6				
14 AZ95988	AZ95988W09			1,0.050	1,2	800	1	2/1	08/05/19 11:10	89682
					equip	E-HP28 E-WB6				
15 AZ96149	AZ96149W21			1,0.050	1,2	800	1	2/1	08/05/19 11:10	89702
					equip	E-HP15 E-WB6				
16 AZ96152	AZ96152W16			1,0.050	1,2	800	1	2/1	08/05/19 11:10	89702
					equip	E-HP14 E-WB6				

Solvent and Lot#	
PH Strips	HC863463
Dichloromethane (DCM)	58240
1+1 H2SO4	7/2/19
10N NaOH	7/16/19
Filter Paper	400163
Acidified Na2SO4	8/2/19
B. Na2SO4	2019010772

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	JP
Date	8/9/19
Time	10:20
Refrigerator	6C-C

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	08/12/19 2:52:27 PM

Reviewed By: *SS* Date *8/12/19*
 Page 252 of 745
 Ext_ID 63776

Injection Log

Directory: M:\LINUS\DATA\L190810\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
2	0810L002.D	1	SV Tune 07/11/19		10 Aug 19 10:13
3	0810L003.D	1	0.1 SIM 08/10/19		10 Aug 19 10:29
4	0810L004.D	1	0.2 SIM 08/10/19		10 Aug 19 10:52
5	0810L005.D	1	0.5 SIM 08/10/19		10 Aug 19 11:14
6	0810L006.D	1	1 SIM 08/10/19		10 Aug 19 11:36
7	0810L007.D	1	5 SIM 08/10/19		10 Aug 19 11:59
8	0810L008.D	1	10 SIM 08/10/19		10 Aug 19 12:21
9	0810L009.D	1	50 SIM 08/10/19		10 Aug 19 12:44
10	0810L010.D	1	100 SIM 08/10/19		10 Aug 19 13:33
11	0810L011.D	1	SS SIM 08/10/19		10 Aug 19 13:57
93	0810L093.D	1	SV Tune 07/11/19		13 Aug 19 10:45
94	0810L094.D	1	5 SIM 08/10/19 (1)		13 Aug 19 11:01
5	0810L105.D	1.25	190805A BLK 1/800		13 Aug 19 15:14
6	0810L106.D	1.25	190805A LCS-2 1/800		13 Aug 19 15:50
7	0810L107.D	1.25	190805A LCSD-2 1/800		13 Aug 19 16:13
8	0810L108.D	1.25	AZ95860W19 1/800		13 Aug 19 16:35
15	0810L115.D	1	5 SIM 08/10/19 (2)		13 Aug 19 19:12

ORGANICS
Calibration Data

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 08/06/19
Instrument: Yoda

Initials: 

0806Y004.D 0806Y005.D 0806Y006.D 0806Y007.D 0806Y008.D 0806Y003.D 0806Y009.D 0806Y010.D 0806Y011.D

	Compound	4	5	10	20	40	50	60	80	100	Avg	%RSD	Type	r^2	Q	MRF
1	I 1,4-dichlorobenzene-D4(IS)	ISTD														
2	L 1,4-Dioxane			0.1178	0.1437	0.2258	0.2137	0.2027	0.2447	0.2459	0.20	25	L	0.991		
3	TM n-Nitrosodimethylamine			0.2887	0.2690	0.2512	0.3181	0.2311	0.2934	0.2888	0.28	10	TM			
4	TM Pyridine			0.7830	0.7926	0.7498	0.9214	0.6499			0.78	13	TM			
5	S 2-Fluorophenol (S)		1.027	1.434	1.252	1.203	1.420	1.201	1.394	1.365	1.3	11	S			
6	S Phenol-D6 (S)		1.209	1.628	1.418	1.328	1.527	1.273	1.459	1.408	1.4	9.7	S			
7	*TM Phenol		1.332	2.057	2.014	1.987	2.027	1.712	1.998	1.792	1.9	13	*TM			0.800
8	TM Aniline			1.679	1.815	1.944	1.913	1.676	1.951	1.765	1.8	6.5	TM			
9	TM Bis (2-chloroethyl) ether		0.5278	0.7639	0.7451	0.7517	0.7756	0.6509	0.7635	0.6996	0.71	12	TM			0.700
10	TM 2-Chlorophenol		1.165	1.701	1.677	1.675	1.696	1.453	1.714	1.540	1.6	12	TM			0.800
11	TM 1,3-DCB		1.378	1.979	1.910	1.896	1.974	1.656	1.939	1.750	1.8	12	TM			
12	*TM 1,4-DCB		1.454	2.006	1.931	1.894	1.962	1.665	1.960	1.761	1.8	10	*TM			
13	TM Benzyl alcohol		0.5630	0.9295	0.8989	0.9148	0.9368	0.7996	0.9423	0.8531	0.85	15	TM			
14	TM 1,2-DCB		1.352	1.941	1.805	1.770	1.818	1.540	1.803	1.637	1.7	11	TM			
15	TM 2-Methylphenol		1.024	1.409	1.341	1.325	1.339	1.133	1.335	1.200	1.3	10	TM			0.700
16	TM Bis (2-chloroisopropyl) ether		0.8183	1.165	1.107	1.078	1.116	0.9464	1.105	0.9946	1.0	11	TM			0.010
17	TM Acetophenone		1.424	2.115	2.001	1.950	1.991	1.682	1.984	1.778	1.9	12	TM			0.010
18	TM 3&4-Methylphenol		1.160	1.696	1.606	1.586	1.607	1.352	1.556	1.396	1.5	12	TM			0.600
19	**TM n-Nitrosodi-n-propylamine		0.6585	1.008	0.9209	0.9024	0.9107	0.7670	0.9084	0.8173	0.86	13	**TM			0.500
20	TM Hexachloroethane		0.4595	0.6602	0.6231	0.6035	0.6209	0.5355	0.6214	0.5613	0.59	11	TM			0.300
21	I Naphthalene-D8(IS)	ISTD														
22	S Nitrobenzene-D5(S)		0.2552	0.3118	0.2703	0.2601	0.2837	0.2682	0.3073	0.2953	0.28	7.6	S			
23	TM Nitrobenzene		0.2239	0.3209	0.3121	0.3180	0.3114	0.2958	0.3395	0.3068	0.30	11	TM			0.200
24	TM Isophorone		0.4439	0.6188	0.5854	0.5817	0.5708	0.5419	0.6319	0.5664	0.57	10	TM			0.400
25	*TM 2-Nitrophenol		0.1639	0.2356	0.2377	0.2402	0.2357	0.2188	0.2613	0.2376	0.23	13	*TM			0.100
26	TM 2,4-Dimethylphenol		0.2735	0.3615	0.3547	0.3539	0.3432	0.3290	0.3759	0.3384	0.34	9.1	TM			0.200
27	TM Benzoic acid			0.1891	0.2159	0.2554	0.2530	0.2447	0.2457	0.2431	0.24	10	TM			
28	TM Bis (2-chloroethoxy) methane		0.2992	0.4055	0.3871	0.3867	0.3767	0.3557	0.4084	0.3681	0.37	9.3	TM			0.300
29	*TM 2,4-Dichlorophenol		0.2560	0.3600	0.3506	0.3490	0.3407	0.3251	0.3755	0.3348	0.34	11	*TM			0.200
30	TM 1,2,4-Trichlorobenzene		0.3015	0.3962	0.3826	0.3817	0.3737	0.3553	0.4105	0.3695	0.37	8.8	TM			
31	TM 3,4-Dimethylphenol		0.3648	0.4826	0.4547	0.4475	0.4368	0.4135	0.4764	0.4293	0.44	8.6	TM			
32	TM Naphthalene		0.9117	1.184	1.156	1.130	1.109	1.052	1.199	1.059	1.1	8.5	TM			0.700
33	TM 4-Chloroaniline		0.2824	0.4183	0.4242	0.4363	0.3797	0.3915	0.4293	0.3612	0.39	13	TM			0.010
34	TM 2,6-Dichlorophenol		0.2753	0.3577	0.3421	0.3272	0.3176	0.2998	0.3403	0.3017	0.32	8.4	TM			
35	TM Hexachloropropene		0.1568	0.2264	0.2278	0.2299	0.2265	0.2171	0.2526	0.2247	0.22	13	TM			

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 08/06/19
Instrument: Yoda

Initials: _____

		Compound	4	5	10	20	40	50	60	80	100	Avg	%RSD	Type	Q
36	*TM	Hexachlorobutadiene		0.1710	0.2214	0.2189	0.2145	0.2124	0.2027	0.2354	0.2112	0.21	8.9	*TM	0.010
37	TM	Caprolactum		0.0794	0.1158	0.1113	0.1113	0.1092	0.1044	0.1223	0.1094	0.11	12	TM	0.010
38	*TM	4-Chloro-3-methylphenol		0.2431	0.3421	0.3278	0.3333	0.3203	0.3074	0.3598	0.3209	0.32	11	*TM	0.200
39	TM	2-Methylnaphthalene		0.6230	0.8294	0.7889	0.7689	0.7555	0.7204	0.8210	0.7347	0.76	8.7	TM	0.400
40	TM	1-Methylnaphthalene		0.6648	0.8446	0.8063	0.7876	0.7676	0.7321	0.8377	0.7432	0.77	7.7	TM	
41	I	Acenaphthene-D10(IS)	ISTD												
42	**TMQ	Hexachlorocyclopentadiene			0.0139	0.0422	0.1176	0.1254	0.1426	0.2113		0.11	66	**TMQ	0.994
43	TM	1,2,4,5-Tetrachlorobenzene		0.5738	0.7342	0.7057	0.6888	0.6561	0.6544	0.7409	0.6305	0.67	8.3	TM	0.010
44	*TM	2,4,6-Trichlorophenol		0.3268	0.4462	0.4346	0.4384	0.4122	0.4083	0.4787	0.4125	0.42	11	*TM	0.200
45	TM	2,4,5-Trichlorophenol		0.3784	0.4705	0.4561	0.4632	0.4342	0.4309	0.5007	0.4236	0.44	8.2	TM	0.200
46	S	2-Fluorobiphenyl(S)		1.534	1.653	1.419	1.302	1.363	1.353	1.505	1.365	1.4	8.2	S	
47	TM	1,1'-Biphenyl		1.511	1.903	1.821	1.739	1.642	1.603	1.845	1.564	1.7	8.5	TM	0.010
48	TM	2-Chloronaphthalene		1.166	1.463	1.404	1.374	1.296	1.289	1.460	1.242	1.3	7.9	TM	0.800
49	TM	2-Nitroaniline		0.2139	0.3045	0.2943	0.2925	0.2786	0.2750	0.3145	0.2725	0.28	11	TM	0.010
50	TM	Dimethyl phthalate		1.328	1.734	1.654	1.620	1.538	1.504	1.748	1.490	1.6	8.9	TM	0.010
51	TM	2,6-DNT		0.2789	0.3986	0.3863	0.3991	0.3754	0.3720	0.4384	0.3734	0.38	12	TM	0.200
52	TM	Acenaphthylene		1.788	2.326	2.222	2.172	2.034	1.991	2.298	1.962	2.1	8.9	TM	0.900
53	TM	3-Nitroaniline		0.2622	0.4073	0.3934	0.4050	0.3615	0.3742	0.4260	0.3539	0.37	14	TM	0.010
54	*TM	Acenaphthene		1.159	1.473	1.394	1.341	1.258	1.244	1.415	1.206	1.3	8.5	*TM	0.900
55	**TMQ	2,4-Dinitrophenol			0.0511	0.0835	0.1909	0.1695	0.2027	0.2171		0.15	45	**TMQ	0.991
56	**TMQ	4-Nitrophenol		0.0122	0.0085	0.1372	0.1544	0.1503	0.1453	0.1712		0.11	63	**TMQ	0.991
57	TM	Dibenzofuran		1.675	2.158	2.058	2.010	1.869	1.838	2.089	1.812	1.9	8.5	TM	0.800
58	TM	2,4-DNT		0.3665	0.5405	0.5277	0.5443	0.5077	0.5042	0.5856	0.5028	0.51	13	TM	0.200
59	TM	2,3,4,6-Tetrachlorophenol		0.2582	0.3527	0.3420	0.3720	0.3594	0.3566	0.4223	0.3646	0.35	13	TM	0.010
60	TM	Diethyl phthalate		1.293	1.635	1.537	1.519	1.400	1.404	1.611	1.371	1.5	8.3	TM	0.010
61	TM	4-Chlorophenyl phenyl ether		0.7177	0.9134	0.8696	0.8214	0.7671	0.7547	0.8513	0.7275	0.80	8.9	TM	0.400
62	TM	Fluorene		1.353	1.733	1.639	1.550	1.448	1.432	1.620	1.348	1.5	9.4	TM	0.900
63	TM	4-Nitroaniline		0.2899	0.3460	0.3529	0.3734	0.3395	0.3552	0.4056	0.3489	0.35	9.3	TM	0.010
64	S	2,4,6-Tribromophenol(S)		0.2572	0.2866	0.2598	0.2458	0.2568	0.2581	0.2995	0.2733	0.27	6.7	S	
65	I	Phenanthrene-D10(IS)	ISTD												
66	TMQ	4,6-Dinitro-2-methylphenol		0.0600	0.1349	0.1487	0.1672	0.1611	0.1656	0.1961		0.15	29	TMQ	0.996
67	TM	Diphenyl amine		0.5402	0.7002	0.6498	0.6109	0.5793	0.5580	0.6243	0.5134	0.60	10	TM	
68	*TM	n-Nitrosodiphenylamine		0.5402	0.7002	0.6498	0.6109	0.5793	0.5580	0.6243	0.5134	0.60	10	*TM	0.010
69	TM	1,2-Diphenylhydrazine		0.4626	0.6063	0.5694	0.5369	0.6047	0.6108	0.6823	0.5710	0.58	11	TM	
70	TM	4-Bromophenyl phenyl ether		0.2136	0.2819	0.2709	0.2653	0.2550	0.2514	0.2860	0.2449	0.26	9.0	TM	0.100

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 08/06/19
Instrument: Yoda

Initials: _____

		Compound	4	5	10	20	40	50	60	80	100	Avg	%RSD	Type	Q	
71	TM	Hexachlorobenzene		0.2336	0.3097	0.2896	0.2880	0.2740	0.2700	0.3092	0.2649	0.28	9.0	TM		0.100
72	TM	Atrazine		0.1813	0.2486	0.2293	0.2388	0.2306	0.2207	0.2639	0.2201	0.23	11	TM		0.010
73	*TMQ	Pentachlorophenol		0.0421	0.0804	0.0855	0.0989	0.1095	0.0964	0.1198		0.09	28	*TMQ	0.991	0.050
74	TM	Phenanthrene		1.002	1.283	1.204	1.175	1.104	1.070	1.211	1.025	1.1	8.8	TM		0.700
75	TM	Anthracene		1.023	1.357	1.263	1.214	1.169	1.121	1.270	1.061	1.2	9.5	TM		0.700
76	TM	Carbazol		0.9432	1.237	1.151	1.112	1.086	1.044	1.175	0.9914	1.1	8.9	TM		0.010
77	TM	Di-n-butylphthalate		1.032	1.409	1.309	1.295	1.225	1.175	1.327	1.135	1.2	9.8	TM		0.010
78	*TM	Fluoranthene		1.106	1.485	1.360	1.332	1.270	1.239	1.375	1.154	1.3	9.6	*TM		0.600
79	I	Chrysene-D12(IS)	ISTD													
80	TMQ	Benzidine		0.2379	0.3447	0.3583	0.4282	0.3538	0.4032	0.4599		0.37	19	TMQ	0.990	
81	TM	Pyrene		1.252	1.631	1.514	1.539	1.467	1.395	1.626	1.396	1.5	8.7	TM		0.600
82	S	Terphenyl-D14(S)		1.119	1.141	1.045	0.9627	1.025	1.005	1.124	1.025	1.1	6.1	S		
83	TM	Butyl benzylphthalate		0.4937	0.6666	0.6326	0.6596	0.6219	0.6042	0.7036	0.6179	0.63	9.9	TM		0.010
84	TM	3,3'-Dichlorobenzidine		0.3370	0.4396	0.4388	0.5034	0.4123	0.4559	0.5072	0.4272	0.44	12	TM		0.010
85	TM	Benz (a) anthracene		1.222	1.575	1.446	1.473	1.354	1.334	1.514	1.319	1.4	8.3	TM		0.800
86	TM	Bis (2-ethylhexyl) phthalate		0.6692	0.8837	0.8412	0.8405	0.7967	0.7628	0.8575	0.7356	0.80	9.0	TM		0.010
87	TM	Chrysene		1.232	1.542	1.449	1.461	1.389	1.349	1.540	1.271	1.4	8.2	TM		0.700
88	*TM	Di-n-octylphthalate		1.211	1.600	1.558	1.587	1.503	1.472	1.681	1.428	1.5	9.5	*TM		0.010
89	I	Perylene-D12(IS)	ISTD													
90	TM	Benzo (b) fluoranthene		1.055	1.315	1.279	1.364	1.305	1.209	1.533	1.228	1.3	11	TM		0.700
91	TM	Benzo (k) fluoranthene		1.055	1.426	1.332	1.256	1.045	1.180	1.134	1.007	1.2	13	TM		0.700
92	*TM	Benzo (a) pyrene	1.118	1.026	1.319	1.240	1.254	1.146	1.160	1.305	1.082	1.2	8.6	*TM		0.700
93	TM	Indeno (1,2,3-cd) pyrene		1.164	1.551	1.487	1.488	1.350	1.361	1.534	1.291	1.4	9.6	TM		0.500
94	TM	Dibenz (a,h) anthracene	1.113	1.030	1.360	1.309	1.325	1.188	1.203	1.343	1.138	1.2	9.6	TM		0.400
95	TM	Benzo (g,h,i) perylene		0.9266	1.231	1.192	1.226	1.123	1.123	1.269	1.078	1.1	9.6	TM		0.500
96																
97																
98																
99																
100																
101																
102																
103																
104																
105																

Data File : M:\YODA\DATA\Y190806\0806Y003.D
 Acq On : 6 Aug 19 10:53
 Sample : 50ug/ml 8270 08/06/19
 Misc :

Vial: 3
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 7 12:20 2019

Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.96	152	215788	40.00000	ppb	-0.05
21) Napthalene-D8 (IS)	6.43	136	938503	40.00000	ppb	-0.05
41) Acenaphthene-D10 (IS)	8.46	164	554631	40.00000	ppb	-0.06
65) Phenanthrene-D10 (IS)	10.21	188	1103942	40.00000	ppb	-0.06
79) Chrysene-D12 (IS)	13.32	240	996060	40.00000	ppb	-0.07
89) Perylene-D12 (IS)	15.05	264	1246069	40.00000	ppb	-0.08

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.35	112	766067	107.09626	ppb	-0.04
Spiked Amount 200.000			Recovery =	53.548%		
6) Phenol-D6 (S)	4.59	99	823726	109.57055	ppb	-0.04
Spiked Amount 200.000			Recovery =	54.786%		
22) Nitrobenzene-D5 (S)	5.62	82	332869	45.61768	ppb	-0.05
Spiked Amount 100.000			Recovery =	45.618%		
46) 2-Fluorobiphenyl (S)	7.68	172	944837	48.51725	ppb	-0.05
Spiked Amount 100.000			Recovery =	48.517%		
64) 2,4,6-Tribromophenol (S)	9.41	330	356085	119.12753	ppb	-0.05
Spiked Amount 200.000			Recovery =	59.564%		
82) Terphenyl-D14 (S)	12.08	244	1276171	51.08236	ppb	-0.06
Spiked Amount 100.000			Recovery =	51.082%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.45	58	5765m	10.41987		1
3) n-Nitrosodimethylamine	1.67	42	85805m	87.30123	ppb	93
4) Pyridine	1.68	79	248546	102.58928	ppb	89
7) Phenol	4.61	94	546787	55.25326	ppb	85
8) Aniline	4.59	93	515922	53.37126	ppb	# 70
9) Bis (2-chloroethyl) ether	4.68	63	209202	49.47624	ppb	85
10) 2-Chlorophenol	4.73	128	457437	57.45778	ppb	98
11) 1,3-DCB	4.89	146	532577	59.32543	ppb	98
12) 1,4-DCB	4.98	146	529278	58.79070	ppb	99
13) Benzyl alcohol	5.16	108	252675	57.44843	ppb	99
14) 1,2-DCB	5.16	146	490325	58.97307	ppb	99
15) 2-Methylphenol	5.30	107	361233	57.21442	ppb	98
16) Bis (2-chloroisopropyl) et	5.29	45	300909	45.38490	ppb	82
17) Acetophenone	5.46	105	537058	57.40260	ppb	96
18) 3&4-Methylphenol	5.48	107	867035	115.79112	ppb	98
19) n-Nitrosodi-n-propylamine	5.46	70	245639	54.79839	ppb	93
20) Hexachloroethane	5.53	117	167477	55.54803	ppb	97
23) Nitrobenzene	5.65	77	365350	47.71059	ppb	92
24) Isophorone	5.92	82	669658	49.52817	ppb	92
25) 2-Nitrophenol	6.01	139	276561	56.56102	ppb	91
26) 2,4-Dimethylphenol	6.08	122	402612	53.13300	ppb	99
27) Benzoic acid	6.28	105	296787	61.43224	ppb	95
28) Bis (2-chloroethoxy) metha	6.17	93	441925	49.76040	ppb	98
29) 2,4-Dichlorophenol	6.30	162	399722	55.31904	ppb	98
30) 1,2,4-Trichlorobenzene	6.37	180	438429	54.79584	ppb	98
31) 3,4-Dimethylphenol	6.42	107	512466	52.77304	ppb	100
32) Napthalene	6.46	128	1300759	53.37799	ppb	99
33) 4-Chloroaniline	6.54	127	445470	48.97877	ppb	94
34) 2,6-Dichlorophenol	6.54	162	372639	54.53535	ppb	98
35) Hexachloropropene	6.54	213	265766	59.04355	ppb	99
36) Hexachlorobutadiene	6.58	225	249143	56.70385	ppb	99
37) Caprolactum	6.99	55	128047	45.54080	ppb	90

(#) = qualifier out of range (m) = manual integration
 0806Y003.D Y0806NC.M Thu Aug 08 15:07:49 2019

Data File : M:\YODA\DATA\Y190806\0806Y003.D
 Acq On : 6 Aug 19 10:53
 Sample : 50ug/ml 8270 08/06/19
 Misc :

Vial: 3
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 7 12:20 2019

Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.13	107	375776	53.60003	ppb	100
39) 2-Methylnaphthalene	7.26	142	886273	54.18285	ppb	99
40) 1-Methylnaphthalene	7.37	142	900471	53.31724	ppb	99
42) Hexachlorocyclopentadiene	7.42	237	86928m	55.09113	ppb	98
43) 1,2,4,5-Tetrachlorobenzene	7.45	216	454876	52.74831	ppb	99
44) 2,4,6-Trichlorophenol	7.61	196	285785	53.25044	ppb	99
45) 2,4,5-Trichlorophenol	7.67	196	301028	52.85535	ppb	98
47) 1,1'-Biphenyl	7.80	154	1138052	48.83621	ppb	98
48) 2-Chloronaphthalene	7.82	162	898657	50.06723	ppb	99
49) 2-Nitroaniline	7.97	65	193169	44.99242	ppb	95
50) Dimethyl phthalate	8.18	163	1066368	51.00846	ppb	100
51) 2,6-DNT	8.26	165	260247	52.09298	ppb	96
52) Acenaphthylene	8.31	152	1410379	50.32686	ppb	99
53) 3-Nitroaniline	8.46	138	250657	48.29163	ppb	# 83
54) Acenaphthene	8.51	154	872156	49.15414	ppb	99
55) 2,4-Dinitrophenol	8.62	184	117486m	48.24033	ppb	95
56) 4-Nitrophenol	8.71	65	104199	47.10221	ppb	93
57) Dibenzofuran	8.71	168	1295741	50.11288	ppb	98
58) 2,4-DNT	8.74	165	352012	52.81918	ppb	# 77
59) 2,3,4,6-Tetrachlorophenol	8.87	232	249162	56.32853	ppb	97
60) Diethyl phthalate	8.99	149	970806	49.33112	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.11	204	531805	51.16174	ppb	96
62) Fluorene	9.11	166	1003905	50.02236	ppb	99
63) 4-Nitroaniline	9.19	138	235371	47.21097	ppb	95
66) 4,6-Dinitro-2-methylphenol	9.23	198	222241	54.81535	ppb	94
67) Diphenyl amine	9.26	169	1598726	100.76280	ppb	99
68) n-Nitrosodiphenylamine	9.26	169	1598726	100.76280	ppb	99
69) 1,2-Diphenylhydrazine	9.30	77	834409	46.52583	ppb	# 85
70) 4-Bromophenyl phenyl ether	9.68	248	351903	55.50246	ppb	94
71) Hexachlorobenzene	9.75	284	378166	57.40722	ppb	# 85
72) Atrazine	9.90	200	159104	26.97795	ppb	97
73) Pentachlorophenol	10.00	266	151156	70.90730	ppb	99
74) Phenanthrene	10.24	178	1522927	50.05441	ppb	99
75) Anthracene	10.30	178	1612935	51.60639	ppb	100
76) Carbazol	10.51	167	1498027	51.57987	ppb	99
77) Di-n-butylphthalate	10.90	149	1690032	51.86961	ppb	100
78) Fluoranthene	11.64	202	1752297	52.59120	ppb	98
80) Benzidine	11.82	184	440473m	49.34064	ppb	99
81) Pyrene	11.91	202	1826958	51.90132	ppb	98
83) Butyl benzylphthalate	12.65	149	774337	52.71602	ppb	92
84) 3,3'-Dichlorobenzidine	13.28	252	513392	50.49347	ppb	97
85) Benz (a) anthracene	13.31	228	1685730	51.97617	ppb	99
86) Bis (2-ethylhexyl) phthala	13.31	149	991933	54.60651	ppb	# 95
87) Chrysene	13.36	228	1729085	54.03659	ppb	100
88) Di-n-octylphthalate	14.04	149	1871707	55.86718	ppb	99
90) Benzo (b) fluoranthene	14.55	252	2033422	53.88922	ppb	97
91) Benzo (k) fluoranthene	14.58	252	1628381	43.54933	ppb	99
92) Benzo (a) pyrene	14.98	252	1785646	50.51321	ppb	96
93) Indeno (1,2,3-cd) pyrene	16.76	276	2102448	51.89766	ppb	96
94) Dibenz (a,h) anthracene	16.77	278	1850440	53.08754	ppb	98
95) Benzo (g,h,i) perylene	17.27	276	1749830	54.73909	ppb	95

Quantitation Report

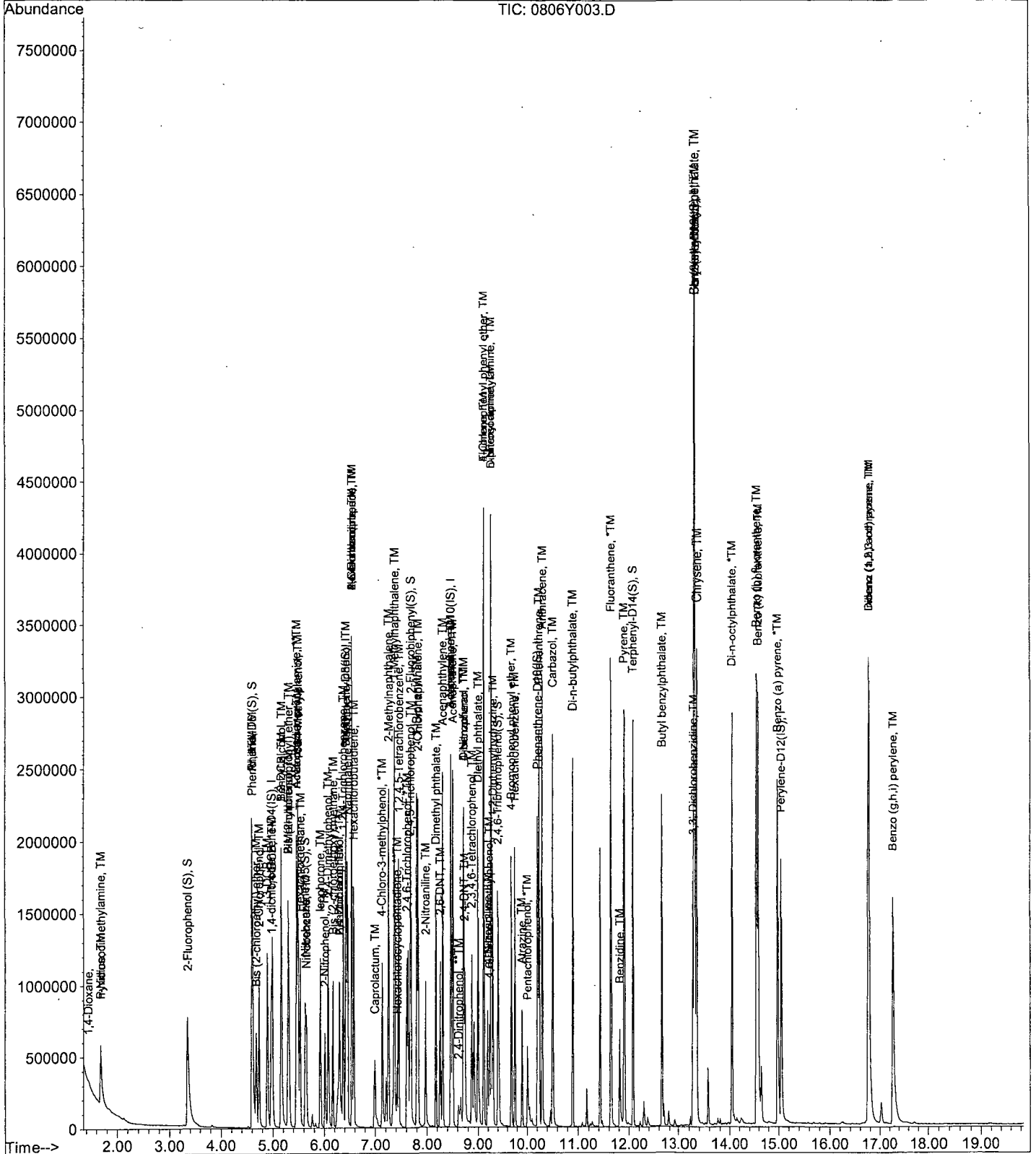
Data File : M:\YODA\DATA\Y190806\0806Y003.D
Acq On : 6 Aug 19 10:53
Sample : 50ug/ml 8270 08/06/19
Misc :

Vial: 3
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Aug 7 12:20 2019

Quant Results File: Y0806NC.RES

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Aug 08 11:05:08 2019
Response via : Initial Calibration

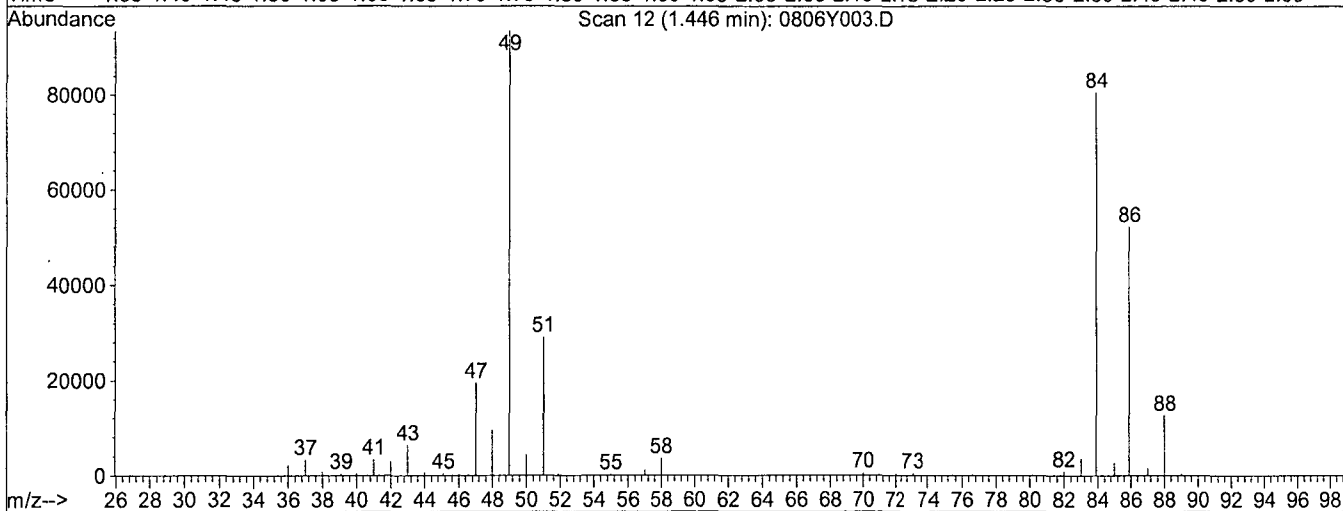
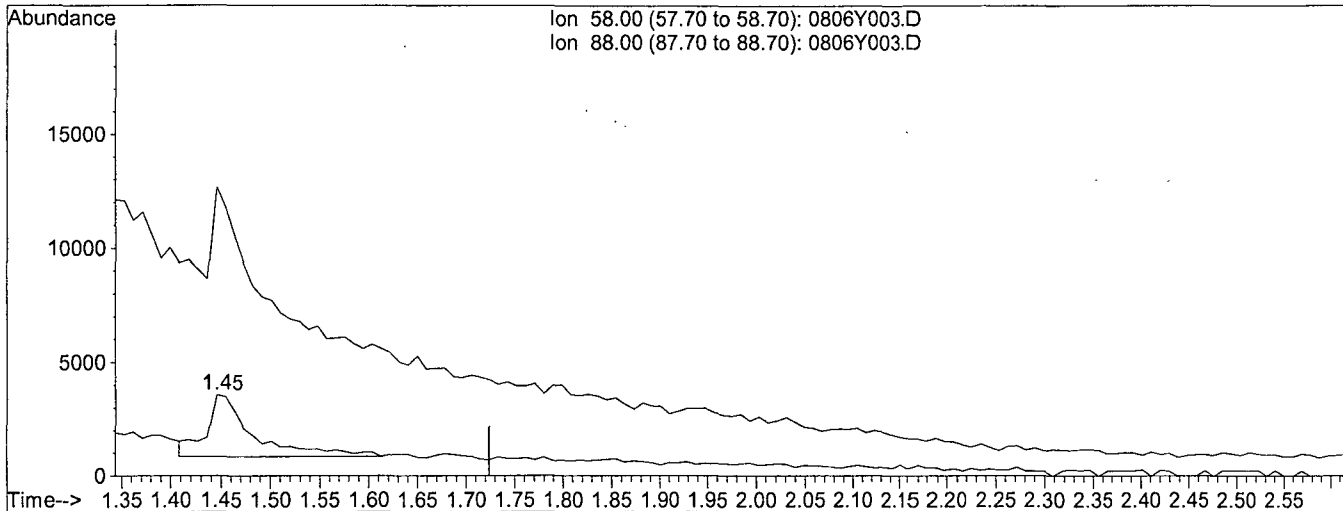


Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y003.D
 Acq On : 6 Aug 19 10:53
 Sample : 50ug/ml 8270 08/06/19
 Misc :
 Quant Time: Aug 11 12:54 2019

Vial: 3
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Multiple Level Calibration



TIC: 0806Y003.D

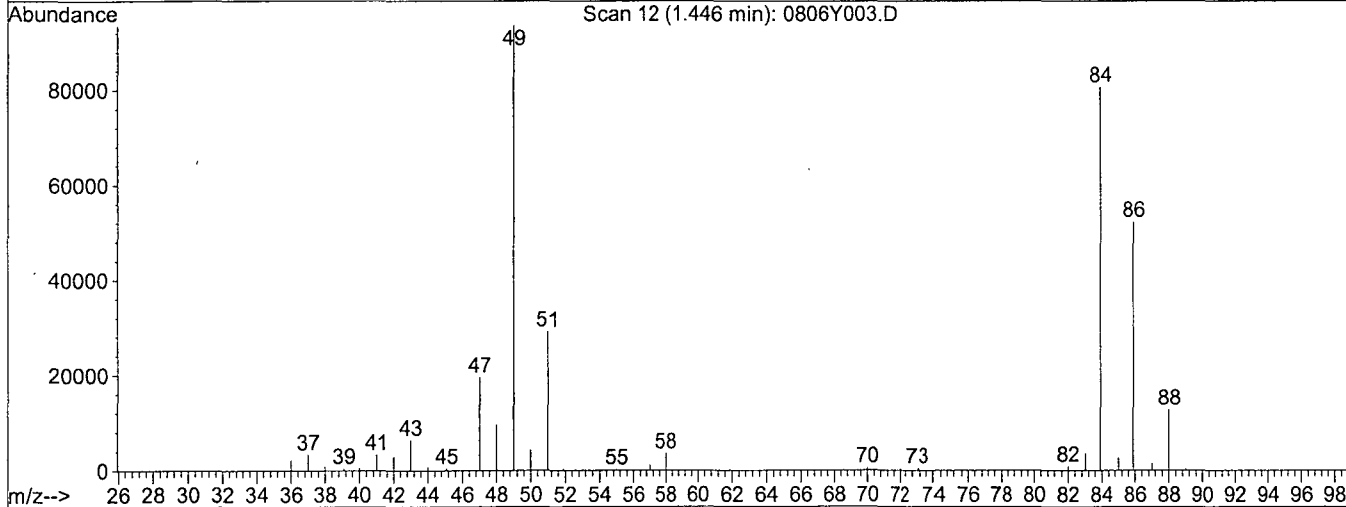
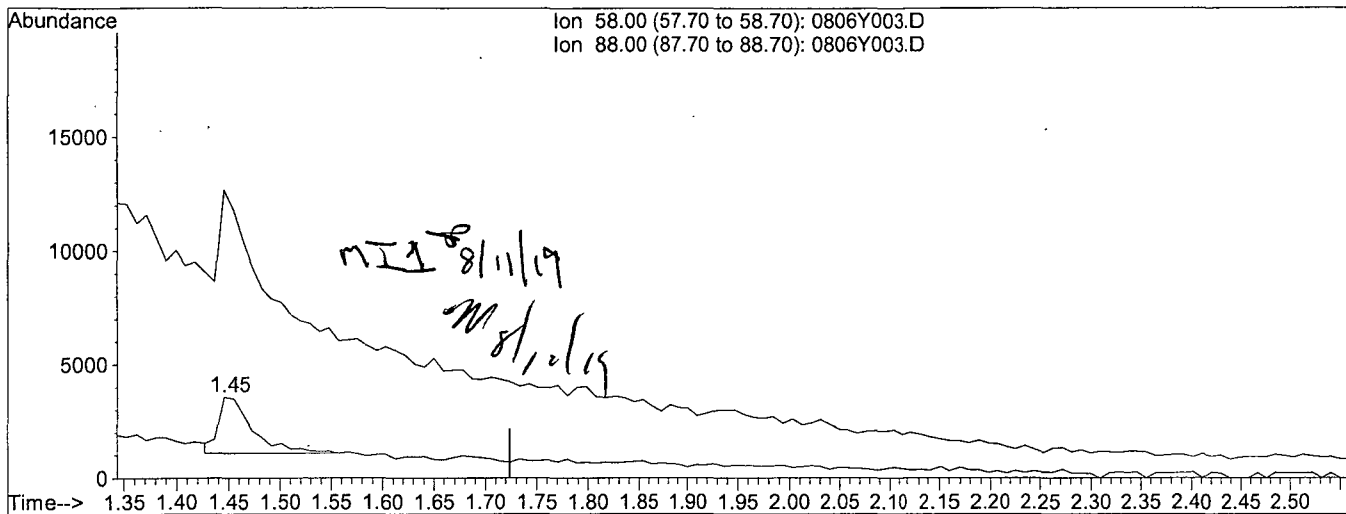
(2) 1,4-Dioxane		
1.45min	16.4115	
response	9080	
Ion	Exp%	Act%
58.00	100	100
88.00	197.60	362.42#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y003.D
 Acq On : 6 Aug 19 10:53
 Sample : 50ug/ml 8270 08/06/19
 Misc :
 Quant Time: Aug 7 12:20 2019

Vial: 3
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Multiple Level Calibration



TIC: 0806Y003.D

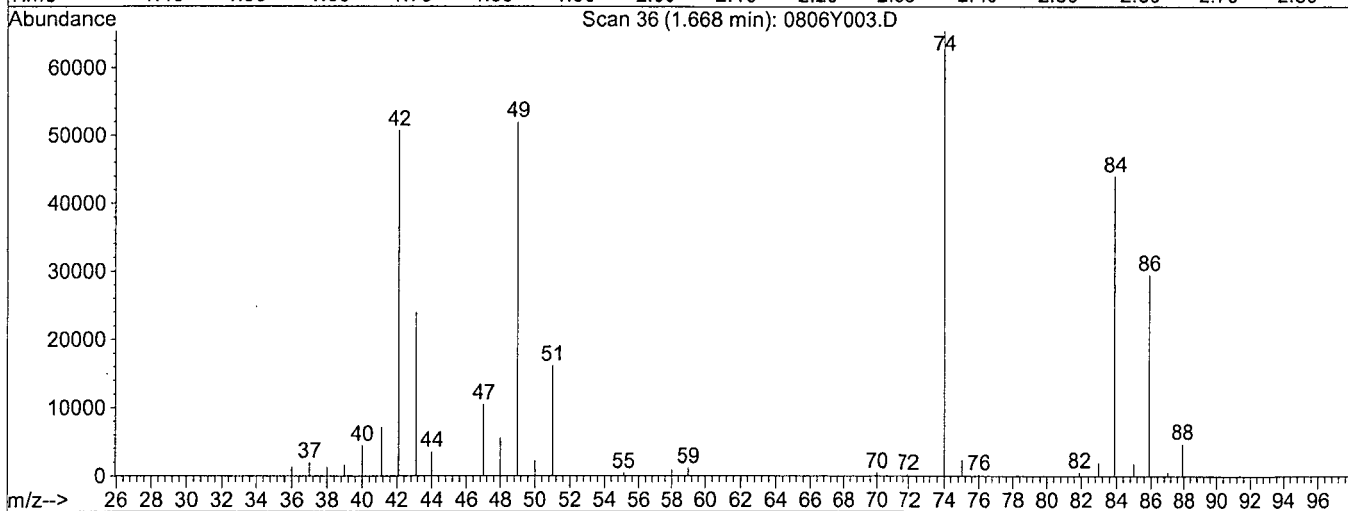
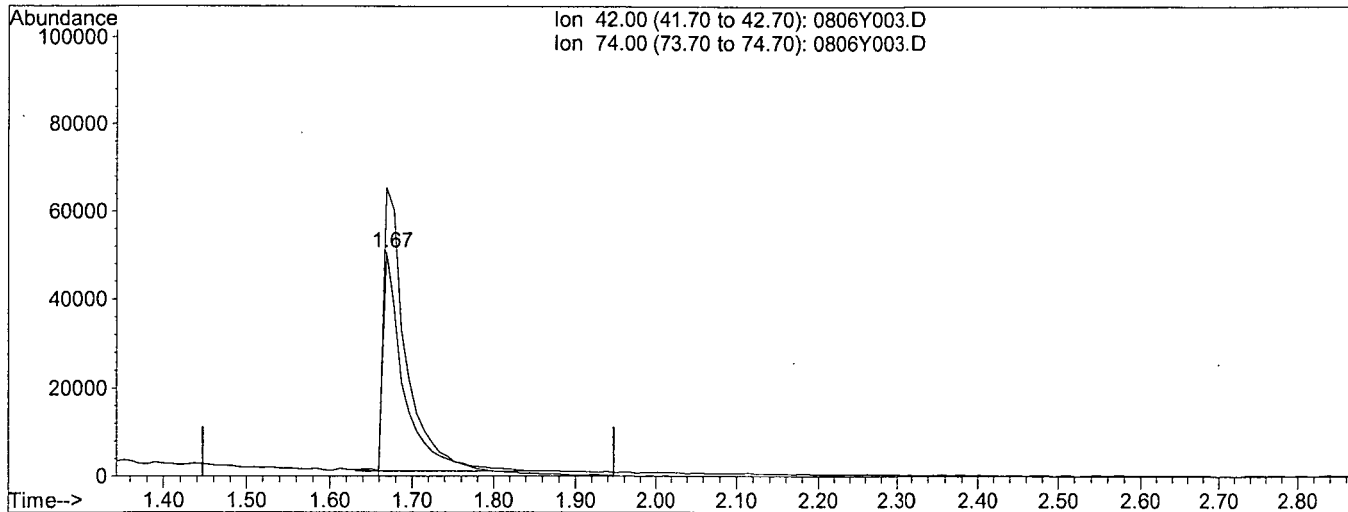
(2) 1,4-Dioxane		
1.45min	10.4199 m	
response	5765	
Ion	Exp%	Act%
58.00	100	100
88.00	197.60	570.82#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y003.D
 Acq On : 6 Aug 19 10:53
 Sample : 50ug/ml 8270 08/06/19
 Misc :
 Quant Time: Aug 11 12:54 2019

Vial: 3
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Multiple Level Calibration



TIC: 0806Y003.D

(3) n-Nitrosodimethylamine (TM)

1.67min 89.7960ppb

response 88257

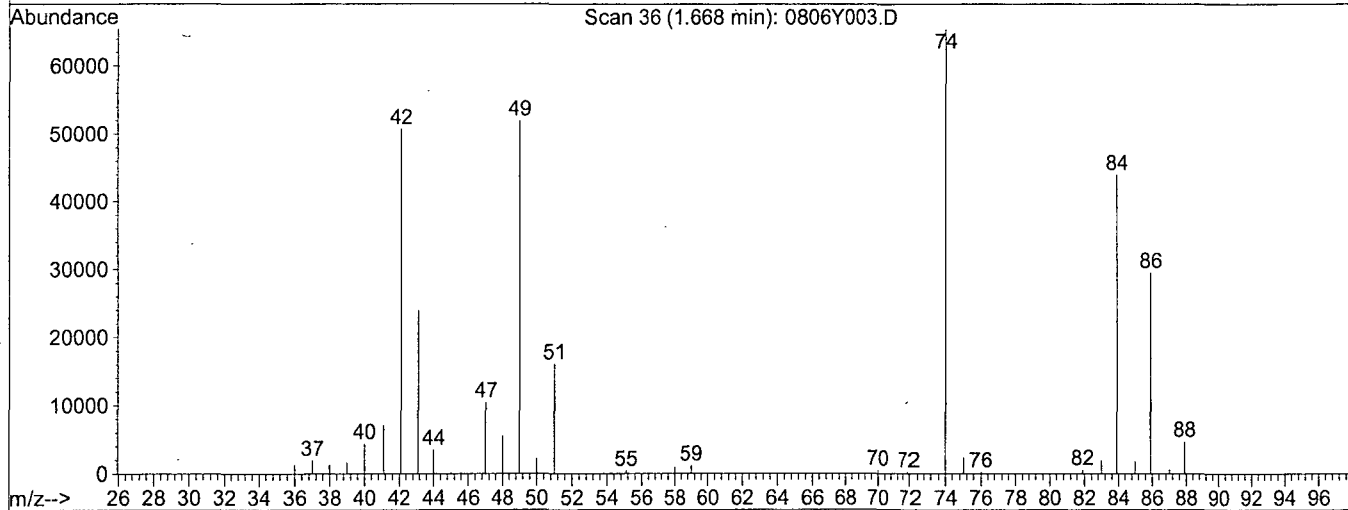
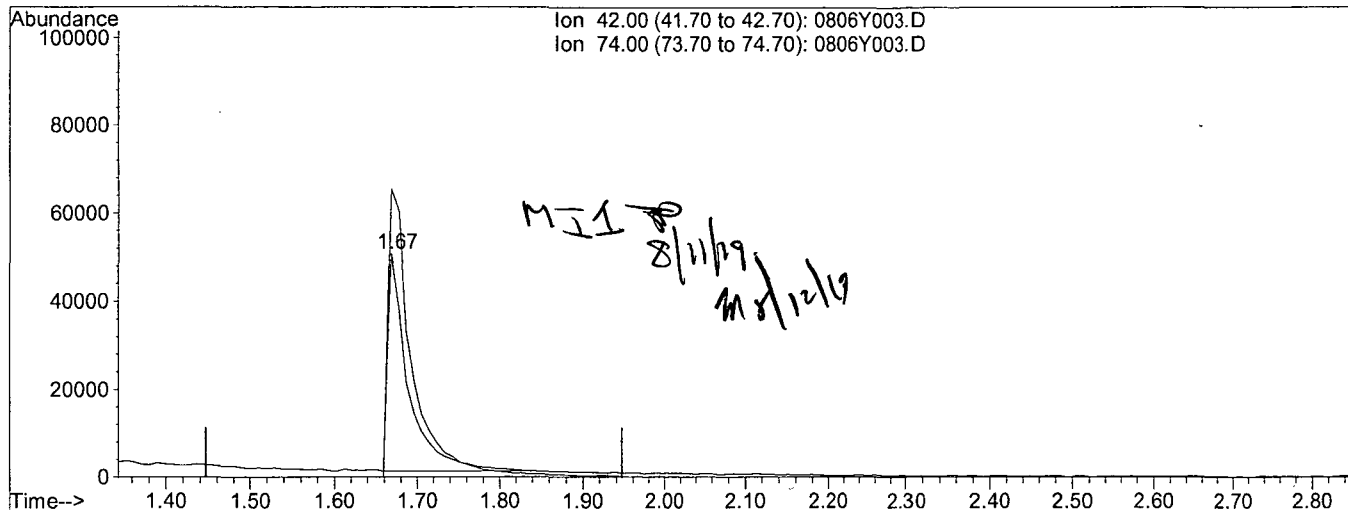
Ion	Exp%	Act%
42.00	100	100
74.00	140.40	132.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y003.D
 Acq On : 6 Aug 19 10:53
 Sample : 50ug/ml 8270 08/06/19
 Misc :
 Quant Time: Aug 7 12:20 2019

Vial: 3
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Multiple Level Calibration



TIC: 0806Y003.D

(3) n-Nitrosodimethylamine (TM)

1.67min 87.3012ppb m

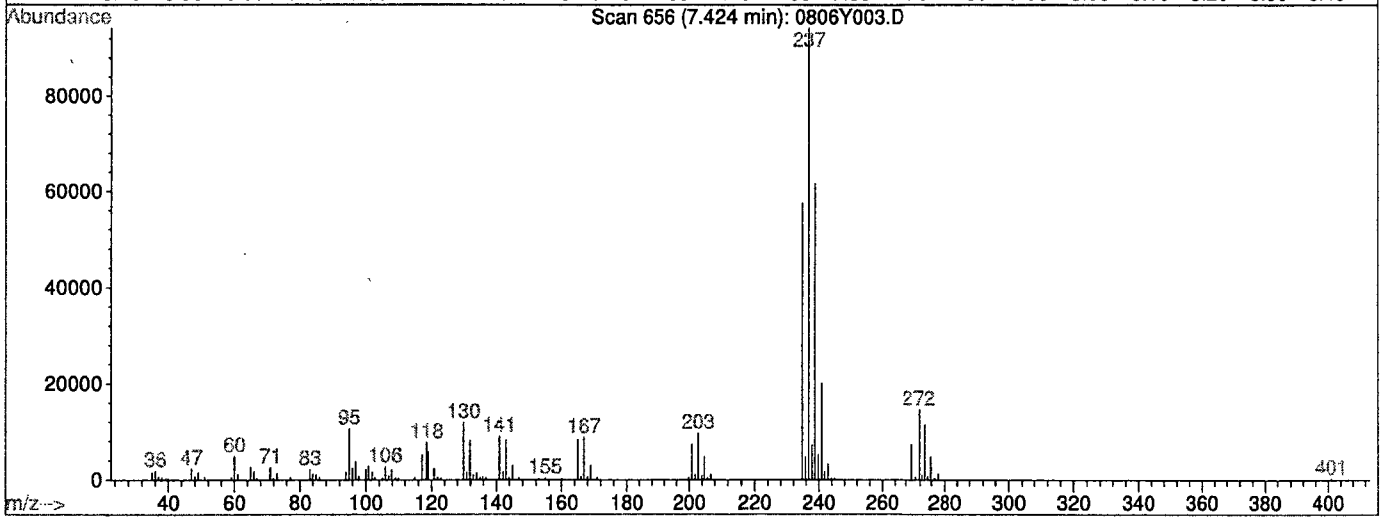
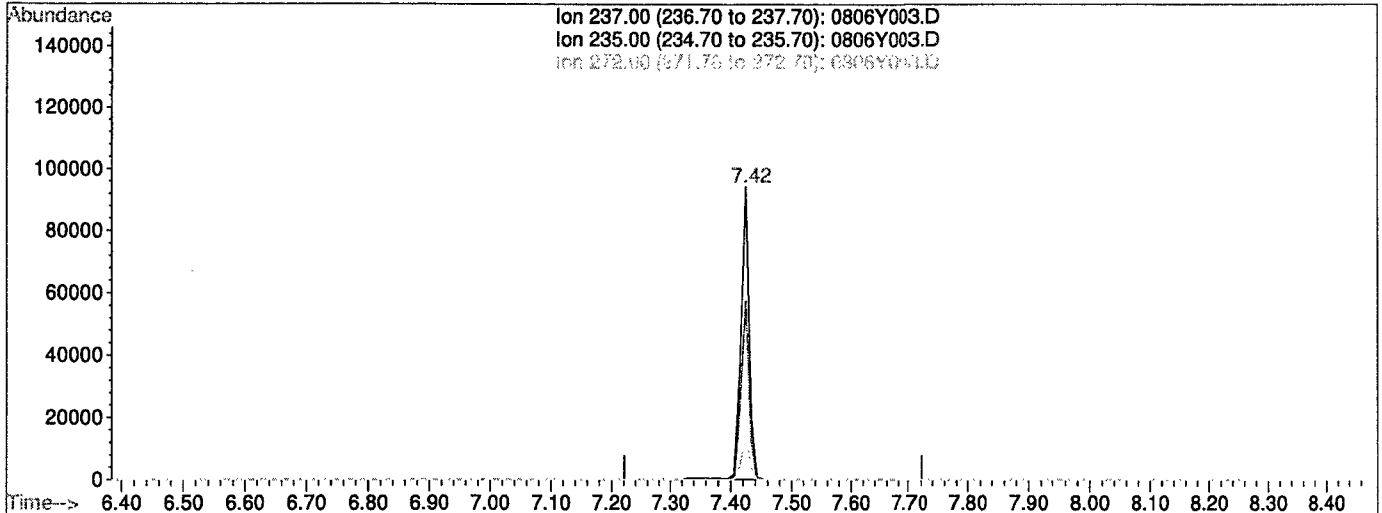
response 85805

Ion	Exp%	Act%
42.00	100	100
74.00	140.40	129.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y003.D Vial: 3
 Acq On : 6 Aug 19 10:53 Operator: MA,SS
 Sample : 50ug/ml 8270 08/06/19 Inst : Yoda
 Misc : Multiplr: 1.00
 Quant Time: Aug 7 11:36 2019 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Aug 07 11:32:51 2019
 Response via : Multiple Level Calibration



TIC: 0806Y003.D

(42) Hexachlorocyclopentadiene (**TM)

7.42min 54.6539ppb

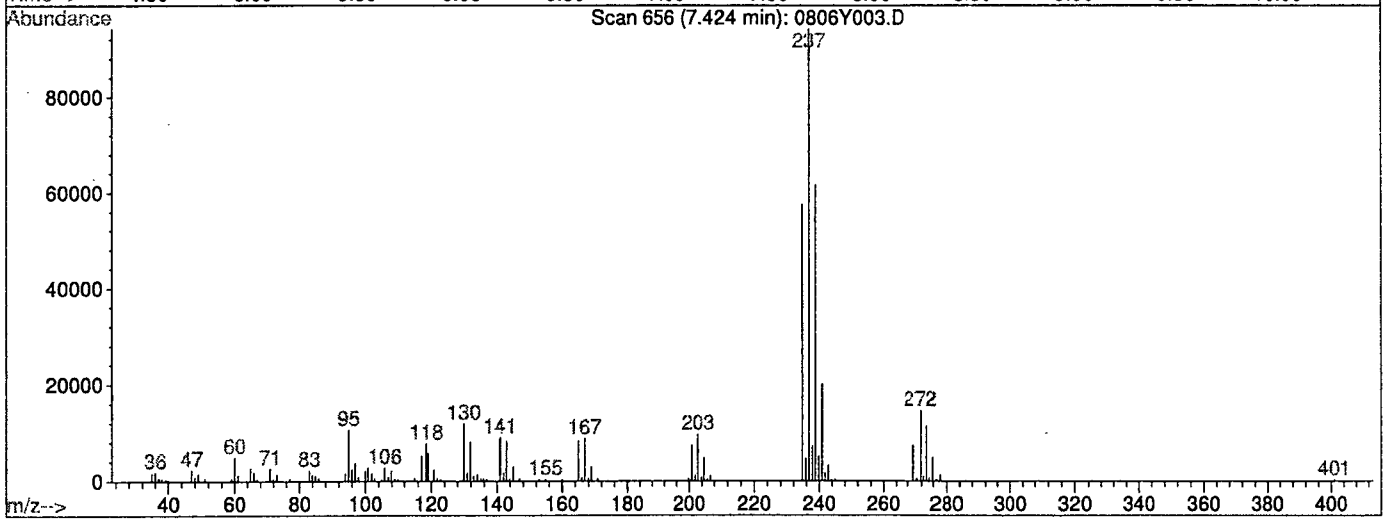
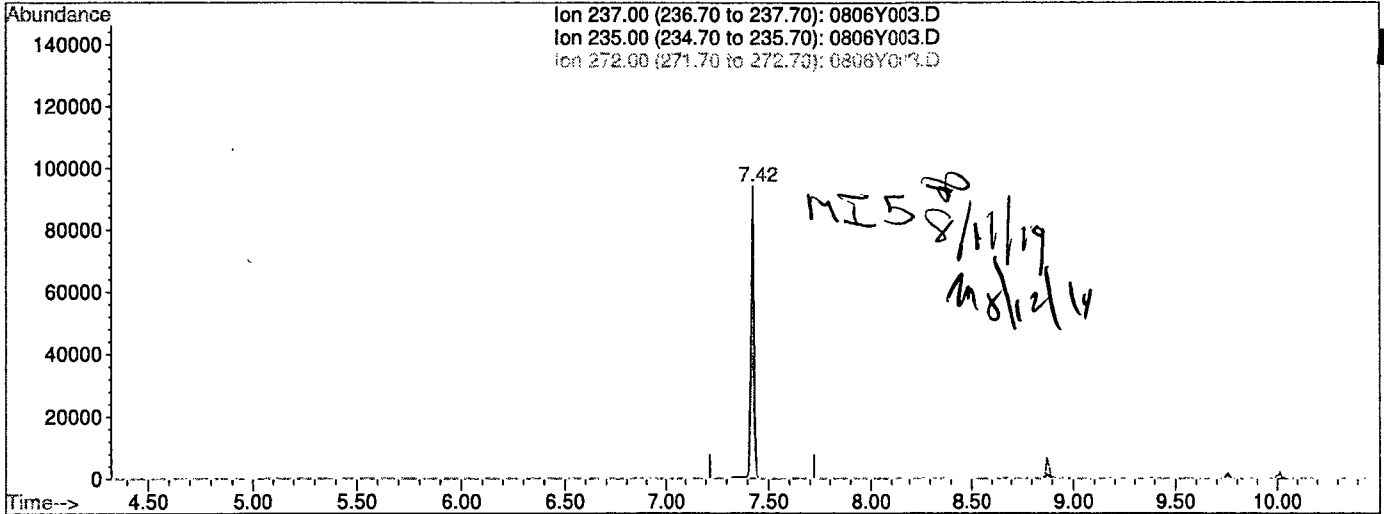
response 85667

Ion	Exp%	Act%
237.00	100	100
235.00	62.60	61.08
272.00	13.80	15.39
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y003.D Vial: 3
 Acq On : 6 Aug 19 10:53 Operator: MA,SS
 Sample : 50ug/ml 8270 08/06/19 Inst : Yoda
 Misc : Multiplr: 1.00
 Quant Time: Aug 7 11:51 2019 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Aug 07 11:32:51 2019
 Response via : Multiple Level Calibration



TIC: 0806Y003.D

(42) Hexachlorocyclopentadiene (**TM)

7.42min 55.0911ppb m

response 86928

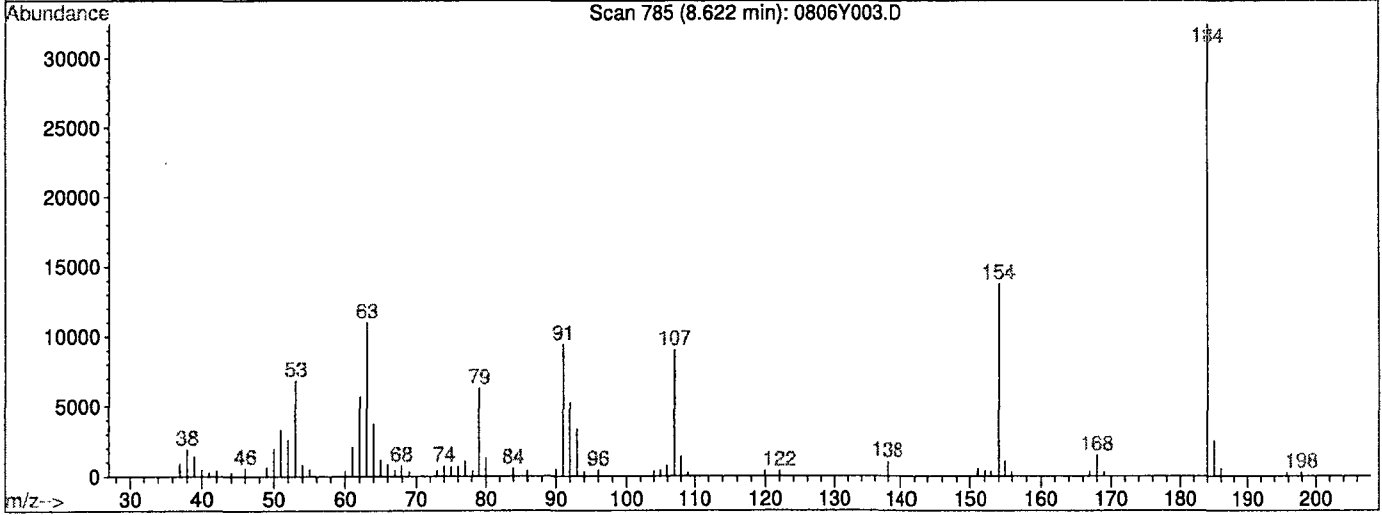
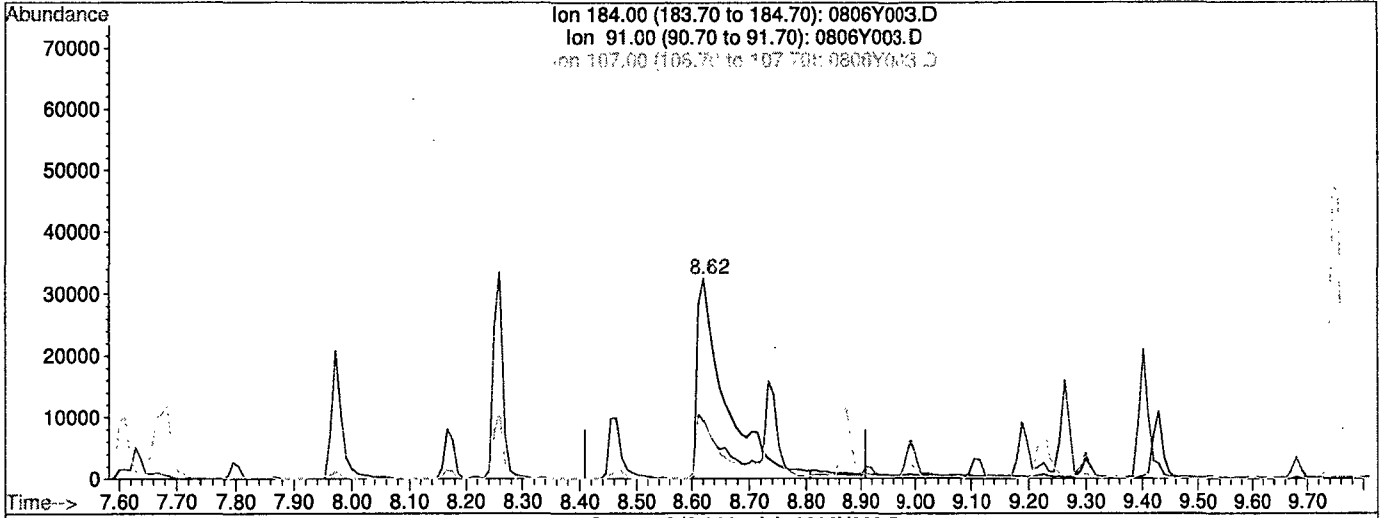
Ion	Exp%	Act%
237.00	100	100
235.00	62.60	61.08
272.00	13.80	15.39
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y003.D
 Acq On : 6 Aug 19 10:53
 Sample : 50ug/ml 8270 08/06/19
 Misc :
 Quant Time: Aug 7 11:51 2019

Vial: 3
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Aug 07 11:46:05 2019
 Response via : Multiple Level Calibration



TIC: 0806Y003.D

(55) 2,4-Dinitrophenol (**TM)

8.62min 46.5788ppb

response 111897

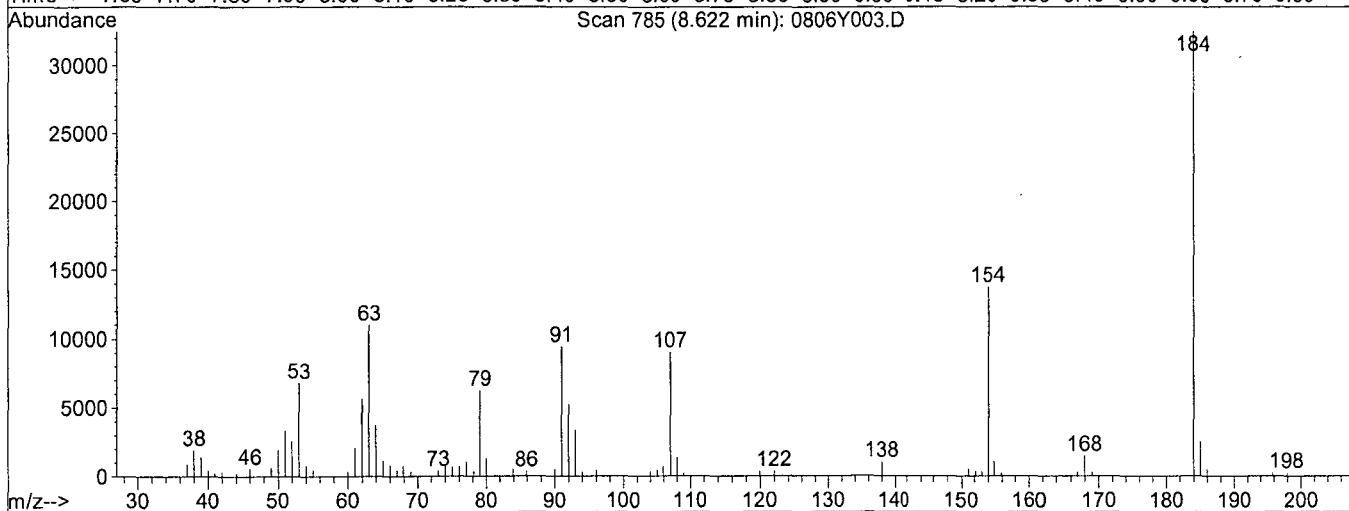
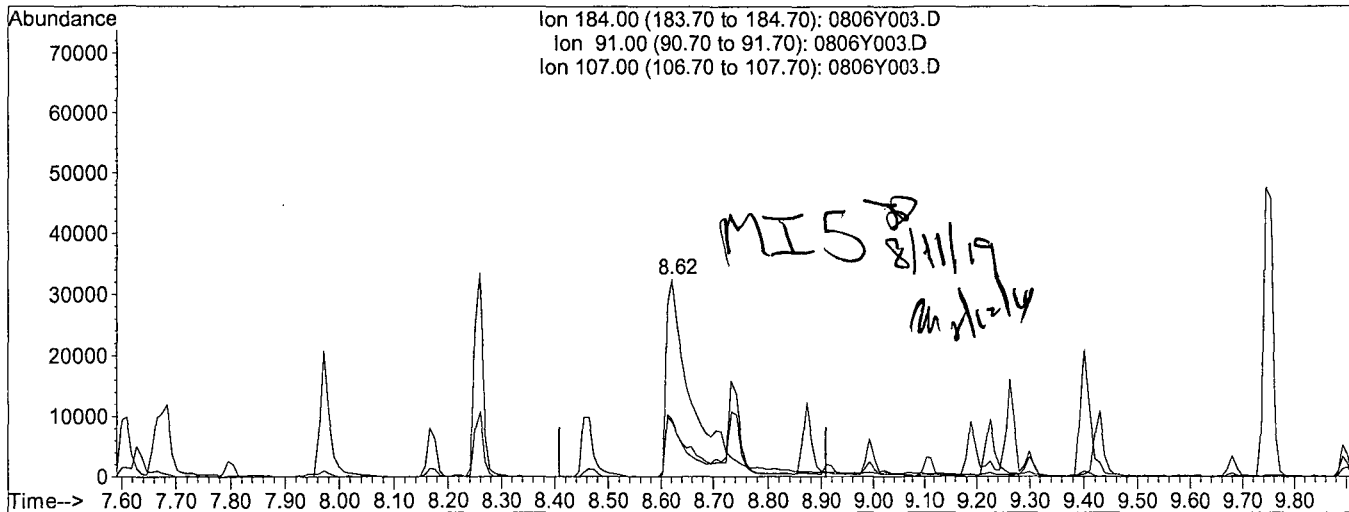
Ion	Exp%	Act%
184.00	100	100
91.00	32.70	28.79
107.00	29.50	27.57
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y003.D
 Acq On : 6 Aug 19 10:53
 Sample : 50ug/ml 8270 08/06/19
 Misc :
 Quant Time: Aug 7 12:20 2019

Vial: 3
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Multiple Level Calibration



TIC: 0806Y003.D

(55) 2,4-Dinitrophenol (**TM)

8.62min 48.2403ppb m

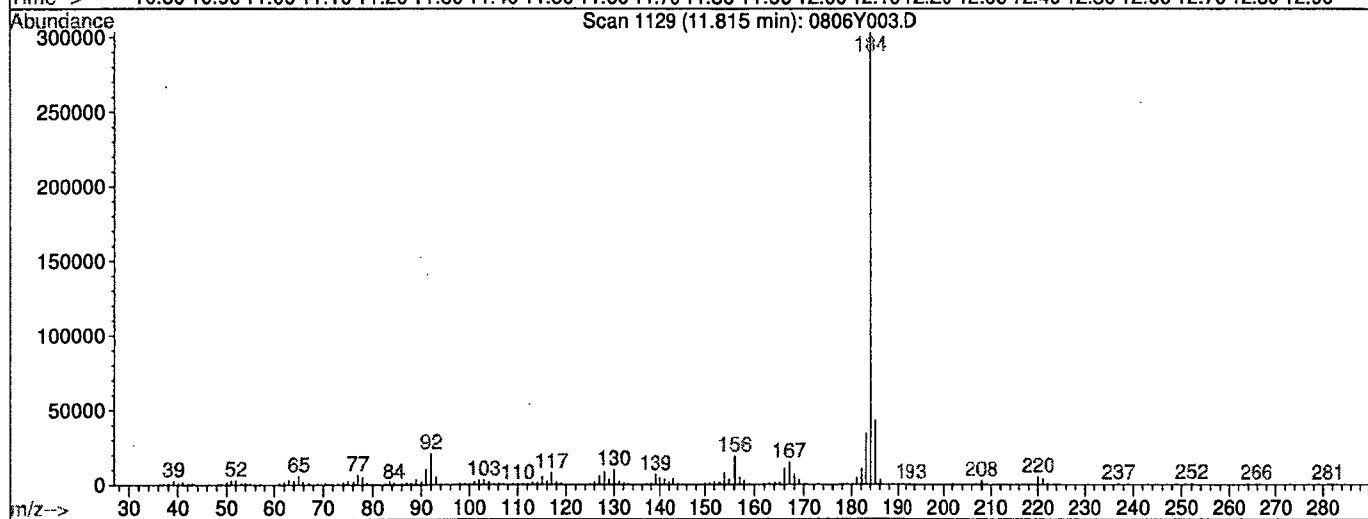
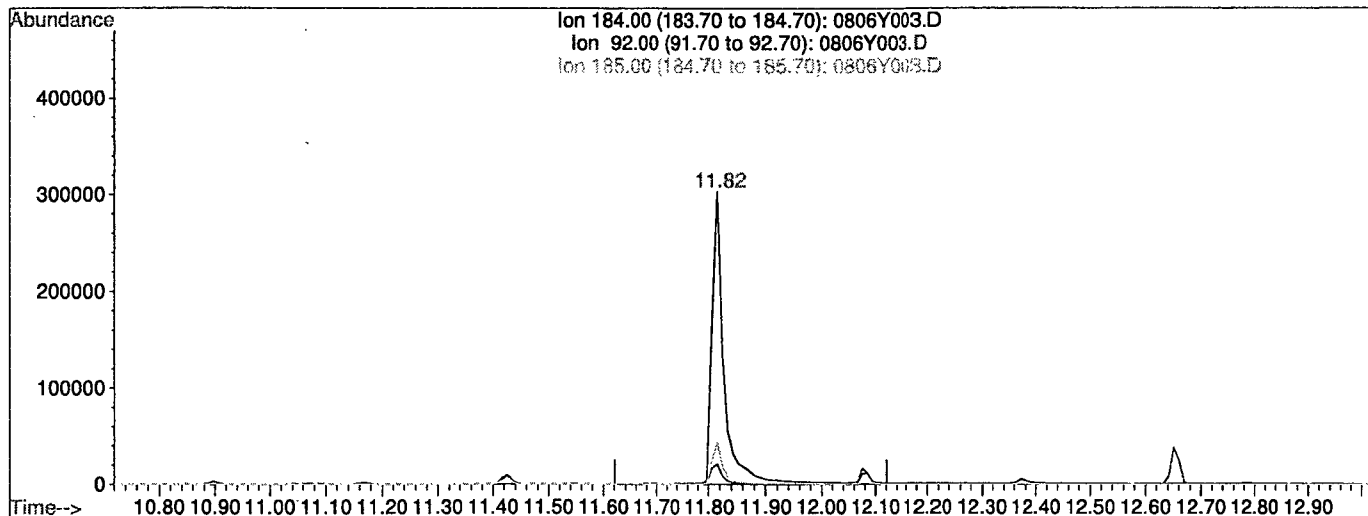
response 117486

Ion	Exp%	Act%
184.00	100	100
91.00	32.70	29.03
107.00	29.50	27.80
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y003.D Vial: 3
 Acq On : 6 Aug 19 10:53 Operator: MA,SS
 Sample : 50ug/ml 8270 08/06/19 Inst : Yoda
 Misc : Multiplr: 1.00
 Quant Time: Aug 6 16:01 2019 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Aug 07 11:14:27 2019
 Response via : Multiple Level Calibration



TIC: 0806Y003.D

(80) Benzidine (TM)

11.82min 49.5778ppb

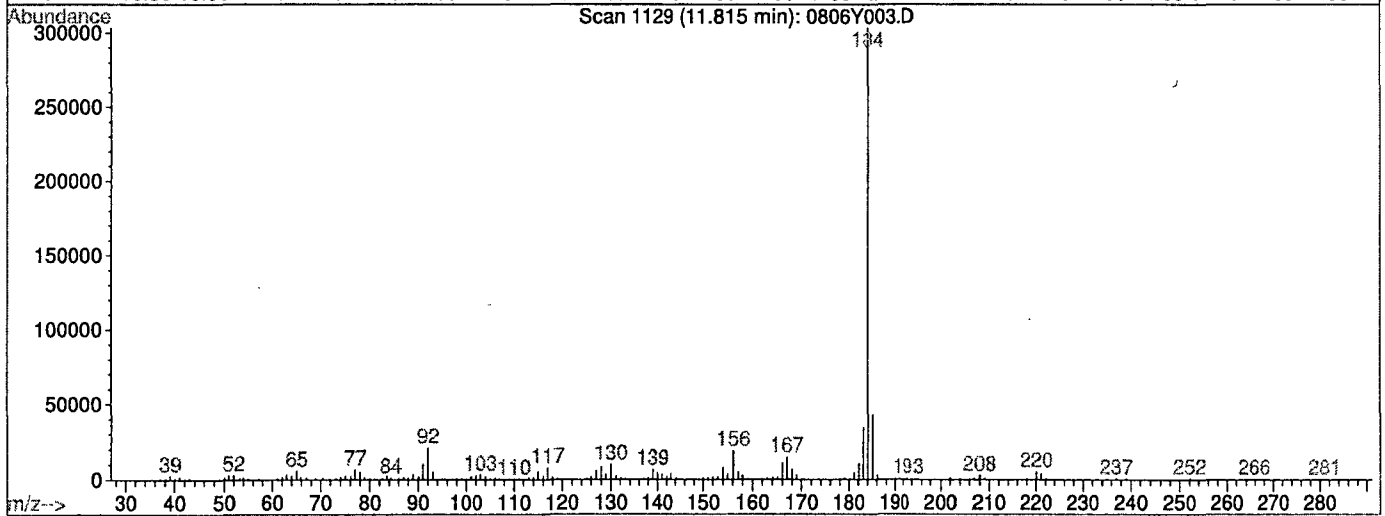
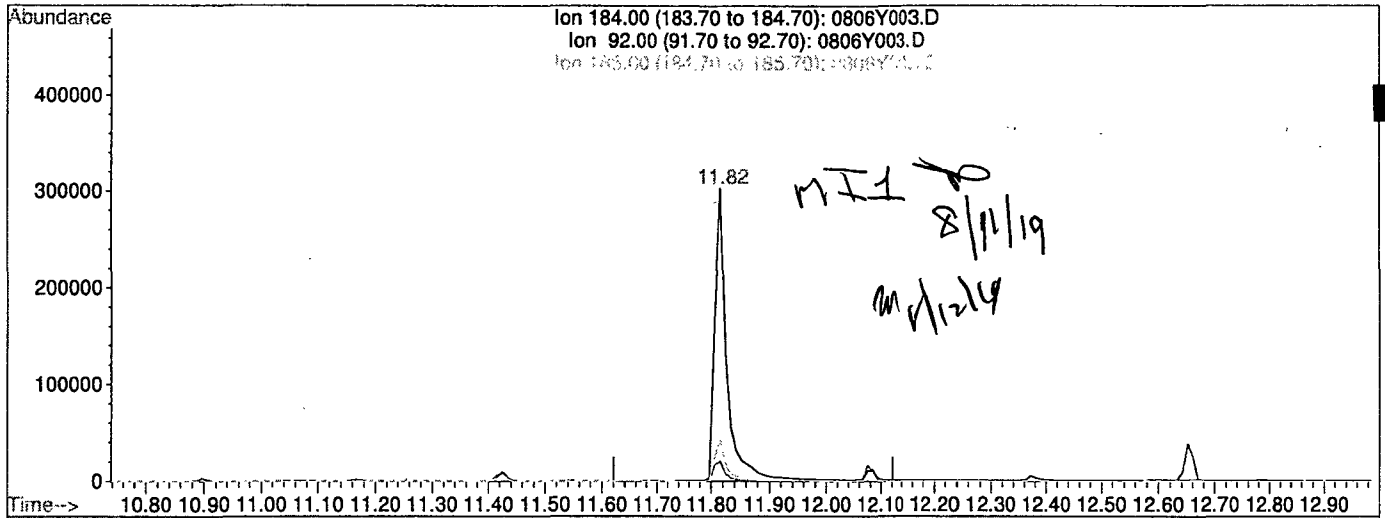
response 442590

Ion	Exp%	Act%
184.00	100	100
92.00	7.00	6.84
185.00	14.60	14.06
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y003.D Vial: 3
 Acq On : 6 Aug 19 10:53 Operator: MA,SS
 Sample : 50ug/ml 8270 08/06/19 Inst : Yoda
 Misc : Multiplr: 1.00
 Quant Time: Aug 7 12:20 2019 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Aug 07 12:16:13 2019
 Response via : Multiple Level Calibration



TIC: 0806Y003.D

(80) Benzidine (TM)

11.82min 49.3406ppb m

response 440473

Ion	Exp%	Act%
184.00	100	100
92.00	7.00	6.84
185.00	14.60	14.06
0.00	0.00	0.00

Data File : M:\YODA\DATA\Y190806\0806Y004.D Vial: 4
 Acq On : 6 Aug 19 11:45 Operator: MA,SS
 Sample : 4ug/ml 8270 08/06/19 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Aug 6 15:42 2019 Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.96	152	269421	40.00000	ppb	-0.05
21) Napthalene-D8 (IS)	6.43	136	1063920	40.00000	ppb	-0.05
41) Acenaphthene-D10 (IS)	8.46	164	584588	40.00000	ppb	-0.06
65) Phenanthrene-D10 (IS)	10.21	188	1149418	40.00000	ppb	-0.06
79) Chrysene-D12 (IS)	13.32	240	1075045	40.00000	ppb	-0.07
89) Perylene-D12 (IS)	15.05	264	1250845	40.00000	ppb	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol (S)	0.00	112	0d	0.00000	ppb	
Spiked Amount 200.000			Recovery =	0.000%		
6) Phenol-D6 (S)	0.00	99	0d	0.00000	ppb	
Spiked Amount 200.000			Recovery =	0.000%		
22) Nitrobenzene-D5 (S)	0.00	82	0d	0.00000	ppb	
Spiked Amount 100.000			Recovery =	0.000%		
46) 2-Fluorobiphenyl (S)	0.00	172	0d	0.00000	ppb	
Spiked Amount 100.000			Recovery =	0.000%		
64) 2,4,6-Tribromophenol (S)	0.00	330	0d	0.00000	ppb	
Spiked Amount 200.000			Recovery =	0.000%		
82) Terphenyl-D14 (S)	0.00	244	0d	0.00000	ppb	
Spiked Amount 100.000			Recovery =	0.000%		
Target Compounds						
92) Benzo (a) pyrene	15.00	252	139823	3.94028	ppb	97
94) Dibenz (a,h) anthracene	16.80	278	139164	3.97725	ppb	96

Quantitation Report

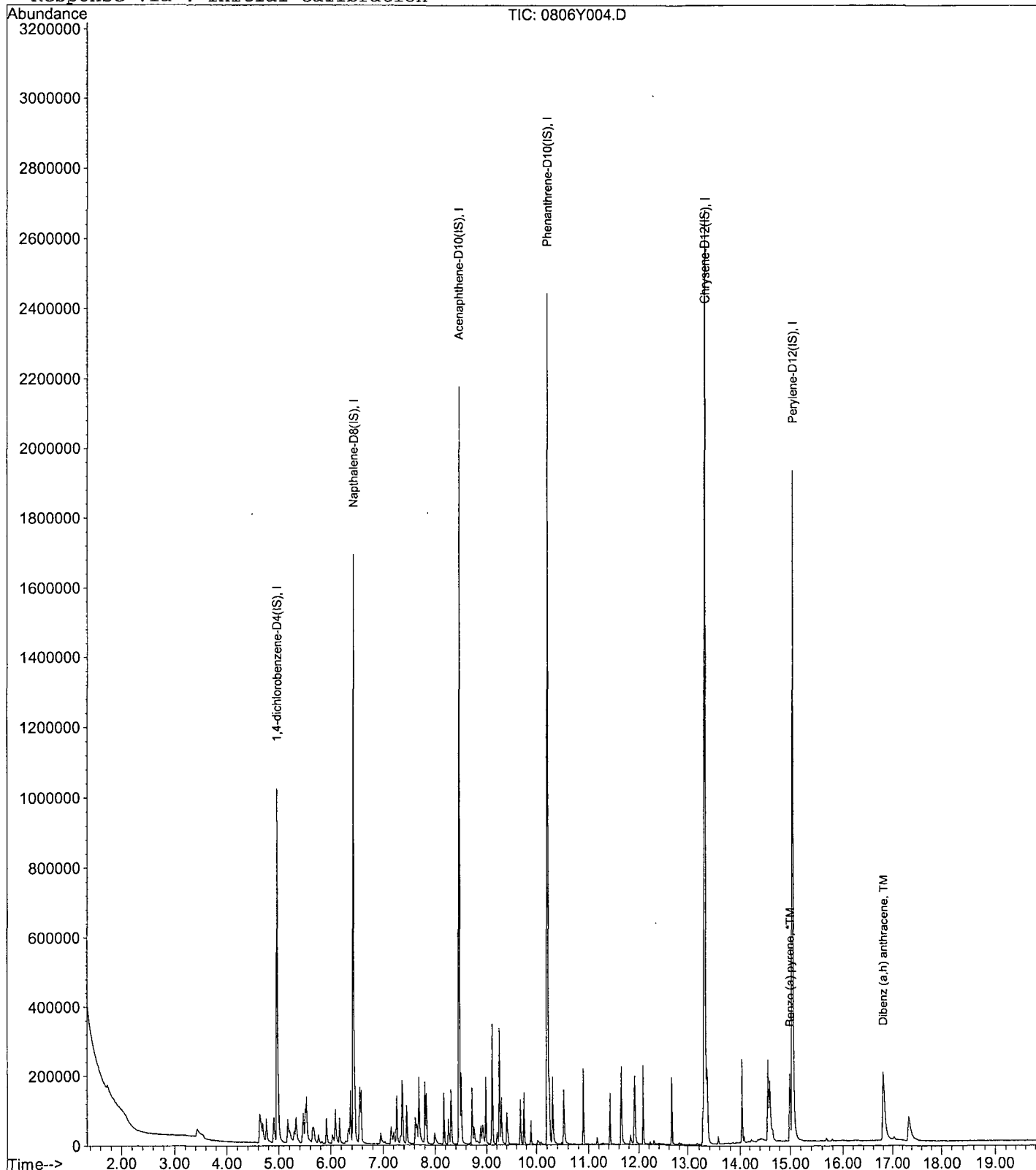
Data File : M:\YODA\DATA\Y190806\0806Y004.D
Acq On : 6 Aug 19 11:45
Sample : 4ug/ml 8270 08/06/19
Misc :

Vial: 4
Operator: MA,SS
Inst. : Yoda
Multiplr: 1.00

Quant Time: Aug 6 15:42 2019

Quant Results File: Y0806NC.RES

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Aug 08 11:05:08 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190806\0806Y005.D
 Acq On : 6 Aug 19 12:13
 Sample : 5ug/ml 8270 08/06/19
 Misc :

Vial: 5
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 6 14:42 2019

Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.95	152	241881	40.00000	ppb	-0.06
21) Napthalene-D8 (IS)	6.42	136	962933	40.00000	ppb	-0.06
41) Acenaphthene-D10 (IS)	8.46	164	523782	40.00000	ppb	-0.06
65) Phenanthrene-D10 (IS)	10.21	188	1036816	40.00000	ppb	-0.06
79) Chrysene-D12 (IS)	13.32	240	965790	40.00000	ppb	-0.07
89) Perylene-D12 (IS)	15.05	264	1145905	40.00000	ppb	-0.08

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.40	112	62121	7.74768	ppb	0.02
Spiked Amount 200.000			Recovery =	3.874%		
6) Phenol-D6 (S)	4.61	99	73127	8.67789	ppb	-0.02
Spiked Amount 200.000			Recovery =	4.339%		
22) Nitrobenzene-D5 (S)	5.63	82	30714	4.10238	ppb	-0.04
Spiked Amount 100.000			Recovery =	4.102%		
46) 2-Fluorobiphenyl (S)	7.67	172	100443	5.46151	ppb	-0.06
Spiked Amount 100.000			Recovery =	5.462%		
64) 2,4,6-Tribromophenol (S)	9.40	330	33683	11.93226	ppb	-0.06
Spiked Amount 200.000			Recovery =	5.966%		
82) Terphenyl-D14 (S)	12.08	244	135109	5.57762	ppb	-0.07
Spiked Amount 100.000			Recovery =	5.578%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.46	58	555	0.89491		# 1
3) n-Nitrosodimethylamine	1.71	42	4445	4.03464	ppb	90
4) Pyridine	1.72	79	15691	5.77792	ppb	92
7) Phenol	4.63	94	40276	3.63088	ppb	93
8) Aniline	4.63	93	30297	2.79607	ppb	# 98
9) Bis (2-chloroethyl) ether	4.68	63	15959	3.36715	ppb	84
10) 2-Chlorophenol	4.75	128	35216	3.94624	ppb	95
11) 1,3-DCB	4.90	146	41675	4.14152	ppb	97
12) 1,4-DCB	4.98	146	43960	4.35620	ppb	97
13) Benzyl alcohol	5.20	108	17023	3.45285	ppb	99
14) 1,2-DCB	5.16	146	40890	4.38745	ppb	99
15) 2-Methylphenol	5.32	107	30963	4.37509	ppb	91
16) Bis (2-chloroisopropyl) et	5.29	45	24741	3.32904	ppb	# 72
17) Acetophenone	5.47	105	43061	4.10601	ppb	92
18) 3&4-Methylphenol	5.49	107	70130	8.35541	ppb	91
19) n-Nitrosodi-n-propylamine	5.45	70	19909	3.96228	ppb	93
20) Hexachloroethane	5.52	117	13894	4.11118	ppb	90
23) Nitrobenzene	5.66	77	26952	3.43033	ppb	92
24) Isophorone	5.91	82	53430	3.85145	ppb	92
25) 2-Nitrophenol	6.03	139	19729	3.93252	ppb	96
26) 2,4-Dimethylphenol	6.08	122	32925	4.23490	ppb	96
27) Benzoic acid	6.28	105	11120	2.24334	ppb	95
28) Bis (2-chloroethoxy) metha	6.16	93	36011	3.95194	ppb	99
29) 2,4-Dichlorophenol	6.33	162	30817	4.15668	ppb	97
30) 1,2,4-Trichlorobenzene	6.37	180	36287	4.42017	ppb	98
31) 3,4-Dimethylphenol	6.43	107	43911	4.40717	ppb	92
32) Naphthalene	6.45	128	109733	4.38876	ppb	99
33) 4-Chloroaniline	6.55	127	33990	3.64234	ppb	97
34) 2,6-Dichlorophenol	6.55	162	33131	4.72568	ppb	97
35) Hexachloropropene	6.53	213	18873	4.08652	ppb	97
36) Hexachlorobutadiene	6.57	225	20582	4.56553	ppb	97
37) Caprolactum	6.95	55	9563	3.31486	ppb	# 84

Data File : M:\YODA\DATA\Y190806\0806Y005.D
 Acq On : 6 Aug 19 12:13
 Sample : 5ug/ml 8270 08/06/19
 Misc :

Vial: 5
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 6 14:42 2019

Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.15	107	29264	4.06827	ppb	95
39) 2-Methylnaphthalene	7.26	142	74988	4.46813	ppb	100
40) 1-Methylnaphthalene	7.37	142	80018	4.61769	ppb	100
43) 1,2,4,5-Tetrachlorobenzene	7.45	216	37566	4.61279	ppb	100
44) 2,4,6-Trichlorophenol	7.62	196	21397	4.22173	ppb	96
45) 2,4,5-Trichlorophenol	7.69	196	24774	4.60608	ppb	97
47) 1,1'-Biphenyl	7.80	154	98944	4.49596	ppb	99
48) 2-Chloronaphthalene	7.82	162	76361	4.50490	ppb	98
49) 2-Nitroaniline	7.99	65	14005	3.45413	ppb	91
50) Dimethyl phthalate	8.17	163	86967	4.40497	ppb	99
51) 2,6-DNT	8.26	165	18260	3.87033	ppb	97
52) Acenaphthylene	8.31	152	117050	4.42272	ppb	99
53) 3-Nitroaniline	8.48	138	17167	3.50219	ppb #	92
54) Acenaphthene	8.50	154	75902	4.52973	ppb	100
55) 2,4-Dinitrophenol	8.79	184	361	13.42639	ppb #	43
56) 4-Nitrophenol	8.75	65	799	0.38245	ppb #	13
57) Dibenzofuran	8.71	168	109638	4.48999	ppb	93
58) 2,4-DNT	8.75	165	23999	3.81312	ppb #	83
59) 2,3,4,6-Tetrachlorophenol	8.88	232	16907	4.04731	ppb	94
60) Diethyl phthalate	8.98	149	84675	4.55614	ppb	97
61) 4-Chlorophenyl phenyl ethe	9.10	204	46987	4.78657	ppb	100
62) Fluorene	9.11	166	88601	4.67481	ppb	99
63) 4-Nitroaniline	9.20	138	18982	4.03168	ppb	97
66) 4,6-Dinitro-2-methylphenol	9.24	198	7773	2.04132	ppb #	1
67) Diphenyl amine	9.25	169	140030	9.39706	ppb	99
68) n-Nitrosodiphenylamine	9.25	169	140030	9.39706	ppb	99
69) 1,2-Diphenylhydrazine	9.29	77	59952	3.55929	ppb	95
70) 4-Bromophenyl phenyl ether	9.68	248	27683	4.64887	ppb	98
71) Hexachlorobenzene	9.75	284	30274	4.89326	ppb	96
72) Atrazine	9.88	200	11751	2.12152	ppb	98
73) Pentachlorophenol	10.02	266	5450	2.72212	ppb	94
74) Phenanthrene	10.24	178	129847	4.54401	ppb	98
75) Anthracene	10.30	178	132612	4.51767	ppb	99
76) Carbazol	10.52	167	122235	4.48127	ppb	99
77) Di-n-butylphthalate	10.90	149	133753	4.37085	ppb	99
78) Fluoranthene	11.64	202	143324	4.58004	ppb	98
80) Benzidine	11.82	184	28723	3.31832	ppb #	96
81) Pyrene	11.91	202	151145	4.42840	ppb	99
83) Butyl benzylphthalate	12.65	149	59599	4.18460	ppb	96
84) 3,3'-Dichlorobenzidine	13.28	252	40682	4.12659	ppb	98
85) Benz (a) anthracene	13.31	228	147479	4.68974	ppb	99
86) Bis (2-ethylhexyl) phthala	13.31	149	80793	4.58710	ppb	96
87) Chrysene	13.36	228	148733	4.79382	ppb	99
88) Di-n-octylphthalate	14.03	149	146196	4.50046	ppb	100
90) Benzo (b) fluoranthene	14.56	252	151053	4.35309	ppb	97
91) Benzo (k) fluoranthene	14.56	252	151053	4.39287	ppb	97
92) Benzo (a) pyrene	14.99	252	146903	4.51891	ppb	98
93) Indeno (1,2,3-cd) pyrene	16.79	276	166710	4.47484	ppb	97
94) Dibenz (a,h) anthracene	16.79	278	147523	4.60226	ppb	99
95) Benzo (g,h,i) perylene	17.33	276	132726	4.51493	ppb	98

Quantitation Report

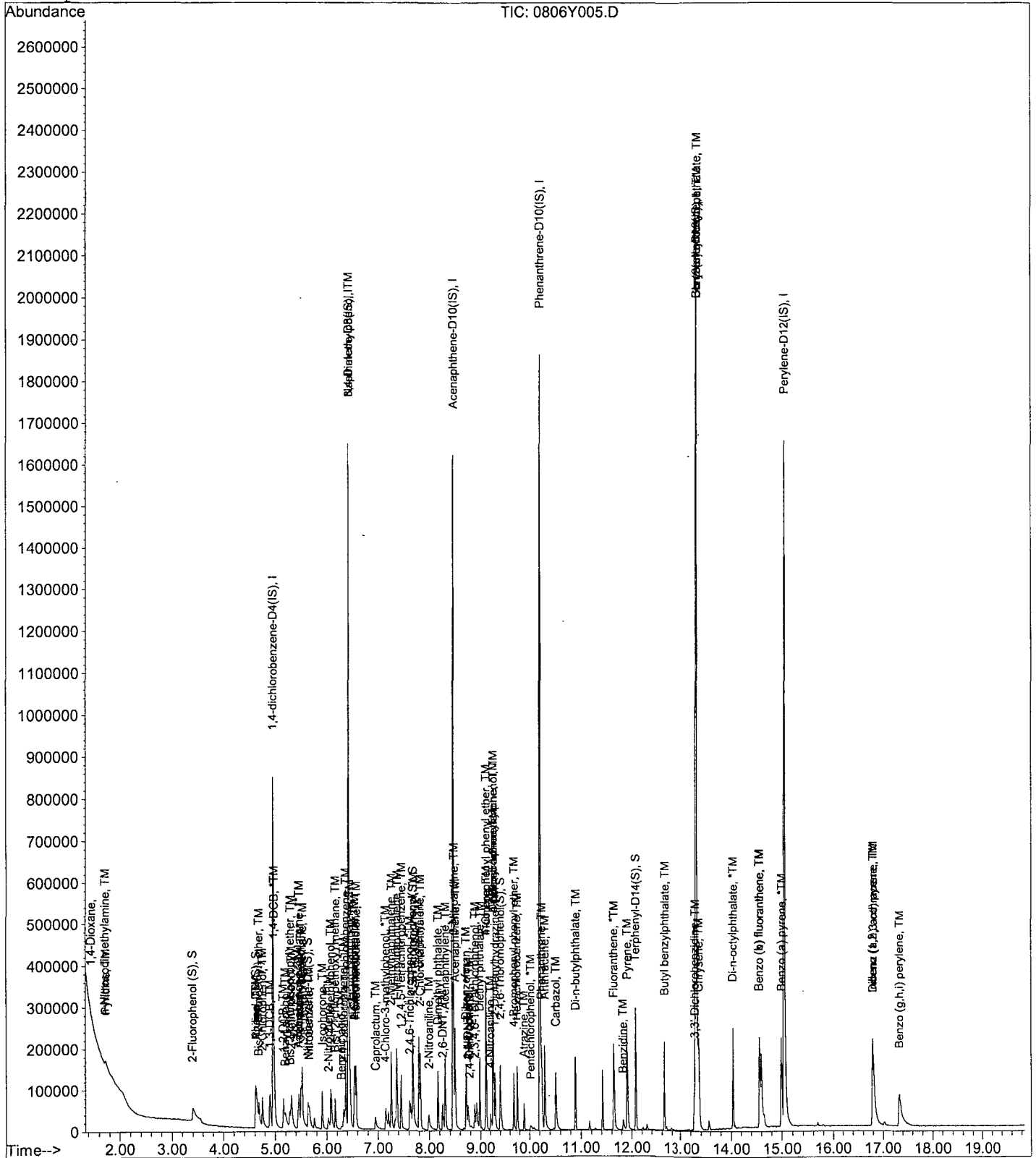
Data File : M:\YODA\DATA\Y190806\0806Y005.D
Acq On : 6 Aug 19 12:13
Sample : 5ug/ml 8270 08/06/19
Misc :

Vial: 5
Operator: MA, SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Aug 6 14:42 2019

Quant Results File: Y0806NC.RES

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Aug 08 11:05:08 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190806\0806Y006.D Vial: 6
 Acq On : 6 Aug 19 12:41 Operator: MA,SS
 Sample : 10ug/ml 8270 08/06/19 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Aug 8 10:54 2019 Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.96	152	203727	40.00000	ppb	-0.05
21) Napthalene-D8 (IS)	6.42	136	887855	40.00000	ppb	-0.05
41) Acenaphthene-D10 (IS)	8.46	164	509096	40.00000	ppb	-0.06
65) Phenanthrene-D10 (IS)	10.20	188	999758	40.00000	ppb	-0.06
79) Chrysene-D12 (IS)	13.31	240	945195	40.00000	ppb	-0.07
89) Perylene-D12 (IS)	15.04	264	1129702	40.00000	ppb	-0.09

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.36	112	146109	21.63532	ppb	-0.03
Spiked Amount 200.000			Recovery =	10.818%		
6) Phenol-D6 (S)	4.60	99	165783	23.35768	ppb	-0.03
Spiked Amount 200.000			Recovery =	11.679%		
22) Nitrobenzene-D5 (S)	5.63	82	69218	10.02704	ppb	-0.04
Spiked Amount 100.000			Recovery =	10.027%		
46) 2-Fluorobiphenyl (S)	7.68	172	210424	11.77170	ppb	-0.05
Spiked Amount 100.000			Recovery =	11.772%		
64) 2,4,6-Tribromophenol (S)	9.40	330	72959	26.59144	ppb	-0.05
Spiked Amount 200.000			Recovery =	13.296%		
82) Terphenyl-D14 (S)	12.08	244	269694	11.37621	ppb	-0.06
Spiked Amount 100.000			Recovery =	11.376%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.45	58	600m	1.14866		1
3) n-Nitrosodimethylamine	1.68	42	14704	15.84608	ppb	89
4) Pyridine	1.70	79	39881	17.43572	ppb	100
7) Phenol	4.61	94	104752	11.21194	ppb	97
8) Aniline	4.60	93	85517	9.37032	ppb	# 88
9) Bis (2-chloroethyl) ether	4.67	63	38908	9.74650	ppb	78
10) 2-Chlorophenol	4.73	128	86616	11.52376	ppb	96
11) 1,3-DCB	4.89	146	100790	11.89199	ppb	99
12) 1,4-DCB	4.98	146	102179	12.02168	ppb	97
13) Benzyl alcohol	5.17	108	47342	11.40095	ppb	99
14) 1,2-DCB	5.15	146	98859	12.59403	ppb	100
15) 2-Methylphenol	5.30	107	71778	12.04171	ppb	96
16) Bis (2-chloroisopropyl) et	5.28	45	59311	9.47524	ppb	# 74
17) Acetophenone	5.45	105	107726	12.19578	ppb	98
18) 3&4-Methylphenol	5.48	107	172750	24.43630	ppb	94
19) n-Nitrosodi-n-propylamine	5.44	70	51346	12.13265	ppb	94
20) Hexachloroethane	5.52	117	33624	11.81249	ppb	98
23) Nitrobenzene	5.64	77	71219	9.83094	ppb	97
24) Isophorone	5.90	82	137356	10.73842	ppb	95
25) 2-Nitrophenol	6.02	139	52287	11.30352	ppb	96
26) 2,4-Dimethylphenol	6.07	122	80238	11.19312	ppb	98
27) Benzoic acid	6.27	105	41965	9.18189	ppb	99
28) Bis (2-chloroethoxy) metha	6.16	93	90011	10.71333	ppb	98
29) 2,4-Dichlorophenol	6.30	162	79902	11.68874	ppb	98
30) 1,2,4-Trichlorobenzene	6.36	180	87950	11.61924	ppb	98
31) 3,4-Dimethylphenol	6.42	107	107113	11.65958	ppb	97
32) Naphthalene	6.44	128	262879	11.40289	ppb	99
33) 4-Chloroaniline	6.54	127	92854	10.79155	ppb	100
34) 2,6-Dichlorophenol	6.54	162	79398	12.28267	ppb	95
35) Hexachloropropene	6.54	213	50261	11.80315	ppb	99
36) Hexachlorobutadiene	6.57	225	49144	11.82301	ppb	97
37) Caprolactum	6.94	55	25693	9.65917	ppb	91

Data File : M:\YODA\DATA\Y190806\0806Y006.D
 Acq On : 6 Aug 19 12:41
 Sample : 10ug/ml 8270 08/06/19
 Misc :

Vial: 6
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 8 10:54 2019

Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.13	107	75936	11.44926	ppb	97
39) 2-Methylnaphthalene	7.25	142	184097	11.89692	ppb	97
40) 1-Methylnaphthalene	7.36	142	187467	11.73320	ppb	98
42) Hexachlorocyclopentadiene	7.42	237	1770	12.95382	ppb	94
43) 1,2,4,5-Tetrachlorobenzene	7.45	216	93441	11.80477	ppb	100
44) 2,4,6-Trichlorophenol	7.60	196	56792	11.52857	ppb	98
45) 2,4,5-Trichlorophenol	7.68	196	59887	11.45563	ppb	97
47) 1,1'-Biphenyl	7.79	154	242139	11.32007	ppb	97
48) 2-Chloronaphthalene	7.82	162	186209	11.30225	ppb	99
49) 2-Nitroaniline	7.97	65	38752	9.83333	ppb	88
50) Dimethyl phthalate	8.16	163	220716	11.50200	ppb	98
51) 2,6-DNT	8.25	165	50729	11.06252	ppb	97
52) Acenaphthylene	8.30	152	296003	11.50707	ppb	100
53) 3-Nitroaniline	8.47	138	51838	10.88040	ppb #	88
54) Acenaphthene	8.49	154	187512	11.51329	ppb	98
55) 2,4-Dinitrophenol	8.68	184	6506	15.41992	ppb #	43
56) 4-Nitrophenol	8.71	65	1088	0.53581	ppb	97
57) Dibenzofuran	8.71	168	274682	11.57353	ppb	95
58) 2,4-DNT	8.74	165	68788	11.24479	ppb	85
59) 2,3,4,6-Tetrachlorophenol	8.88	232	44894	11.05705	ppb	96
60) Diethyl phthalate	8.98	149	208034	11.51668	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.11	204	116248	12.18380	ppb	97
62) Fluorene	9.11	166	220570	11.97354	ppb	98
63) 4-Nitroaniline	9.18	138	44037	9.62304	ppb	96
66) 4,6-Dinitro-2-methylphenol	9.23	198	33725	9.18505	ppb	90
67) Diphenyl amine	9.26	169	350004	24.35850	ppb	100
68) n-Nitrosodiphenylamine	9.26	169	350004	24.35850	ppb	100
69) 1,2-Diphenylhydrazine	9.29	77	151531	9.32971	ppb #	82
70) 4-Bromophenyl phenyl ether	9.67	248	70450	12.26935	ppb	91
71) Hexachlorobenzene	9.75	284	77411	12.97592	ppb #	85
72) Atrazine	9.89	200	31073	5.81785	ppb	99
73) Pentachlorophenol	10.02	266	20100	10.41149	ppb	99
74) Phenanthrene	10.24	178	320748	11.64069	ppb	98
75) Anthracene	10.30	178	339057	11.97873	ppb	100
76) Carbazol	10.51	167	309166	11.75449	ppb	100
77) Di-n-butylphthalate	10.89	149	352186	11.93553	ppb	100
78) Fluoranthene	11.63	202	371078	12.29764	ppb	99
80) Benzidine	11.82	184	81443	9.61398	ppb	99
81) Pyrene	11.90	202	385515	11.54131	ppb	99
83) Butyl benzylphthalate	12.65	149	157514	11.30045	ppb	89
84) 3,3'-Dichlorobenzidine	13.28	252	103866	10.76524	ppb	98
85) Benz (a) anthracene	13.30	228	372065	12.08924	ppb	100
86) Bis (2-ethylhexyl) phthala	13.30	149	208814	12.11395	ppb #	94
87) Chrysene	13.35	228	364378	12.00018	ppb	100
88) Di-n-octylphthalate	14.04	149	378026	11.89062	ppb	98
90) Benzo (b) fluoranthene	14.55	252	371330	10.85457	ppb	99
91) Benzo (k) fluoranthene	14.58	252	402768	11.88115	ppb	99
92) Benzo (a) pyrene	14.98	252	372520	11.62351	ppb	96
93) Indeno (1,2,3-cd) pyrene	16.77	276	438160	11.92981	ppb	95
94) Dibenz (a,h) anthracene	16.78	278	384149	12.15614	ppb	99
95) Benzo (g,h,i) perylene	17.30	276	347580	11.99319	ppb	96

Quantitation Report

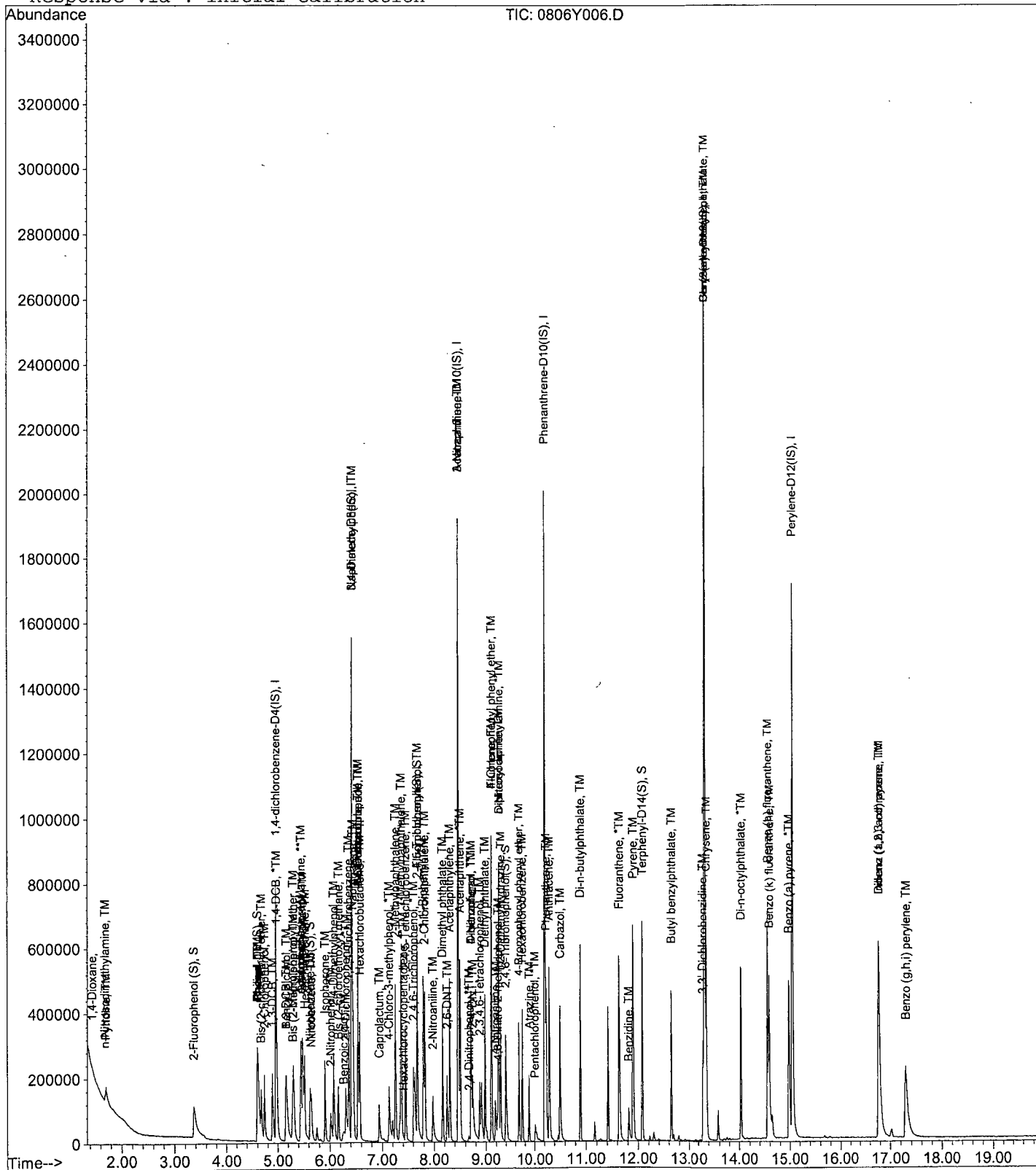
Data File : M:\YODA\DATA\Y190806\0806Y006.D
Acq On : 6 Aug 19 12:41
Sample : 10ug/ml 8270 08/06/19
Misc :

Vial: 6
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Aug 8 10:54 2019

Quant Results File: Y0806NC.RES

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Aug 08 11:05:08 2019
Response via : Initial Calibration

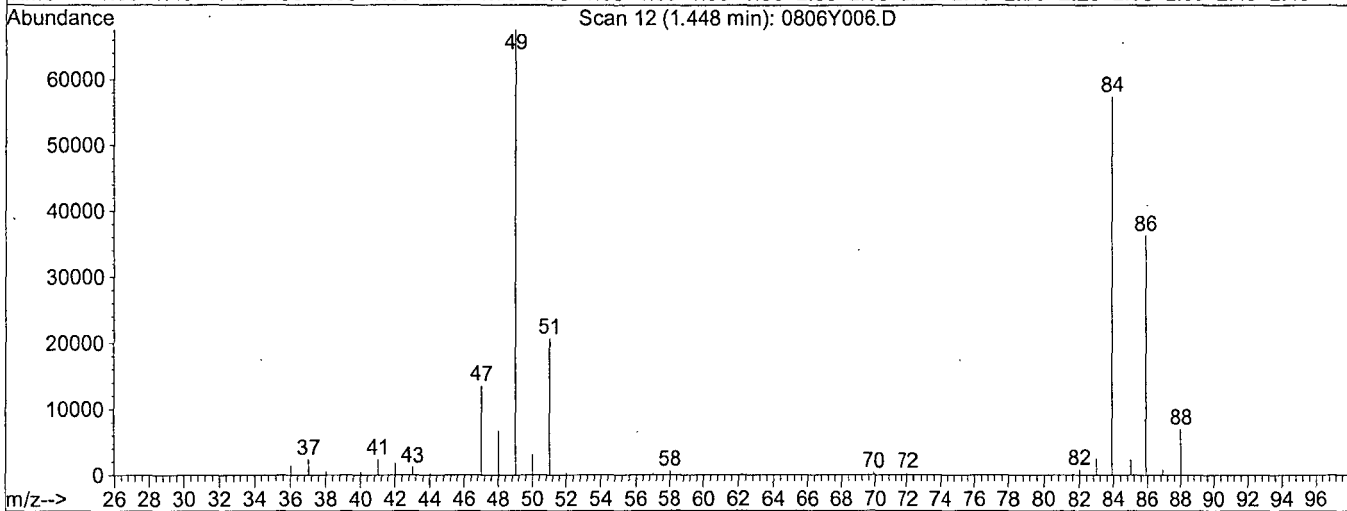
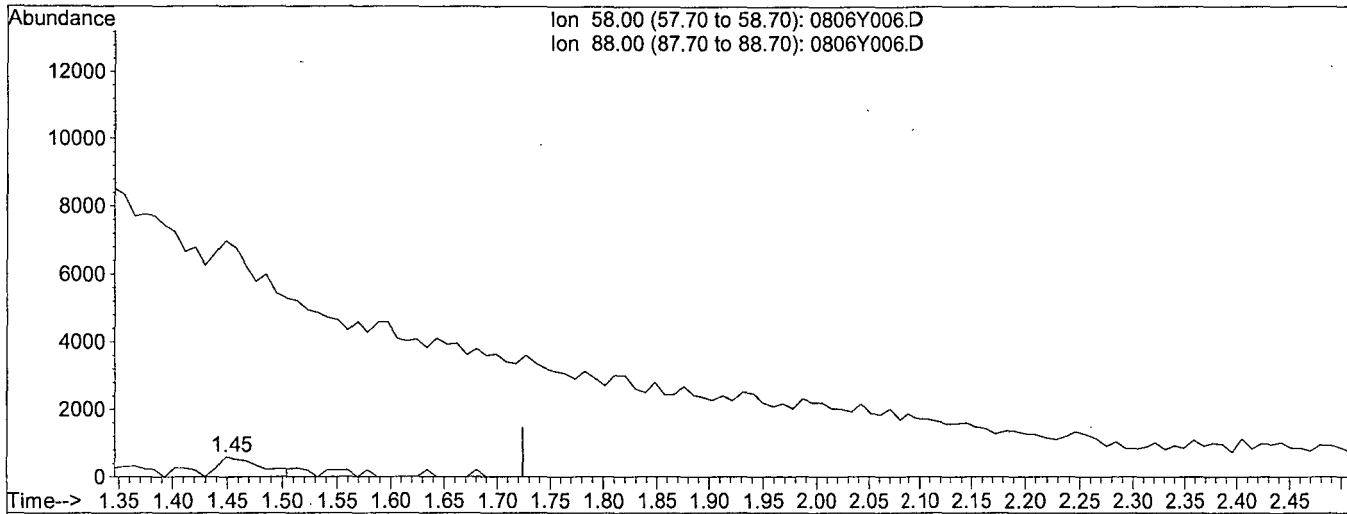


Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y006.D
 Acq On : 6 Aug 19 12:41
 Sample : 10ug/ml 8270 08/06/19
 Misc :
 Quant Time: Aug 6 14:42 2019

Vial: 6
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Aug 07 12:16:13 2019
 Response via : Multiple Level Calibration



TIC: 0806Y006.D

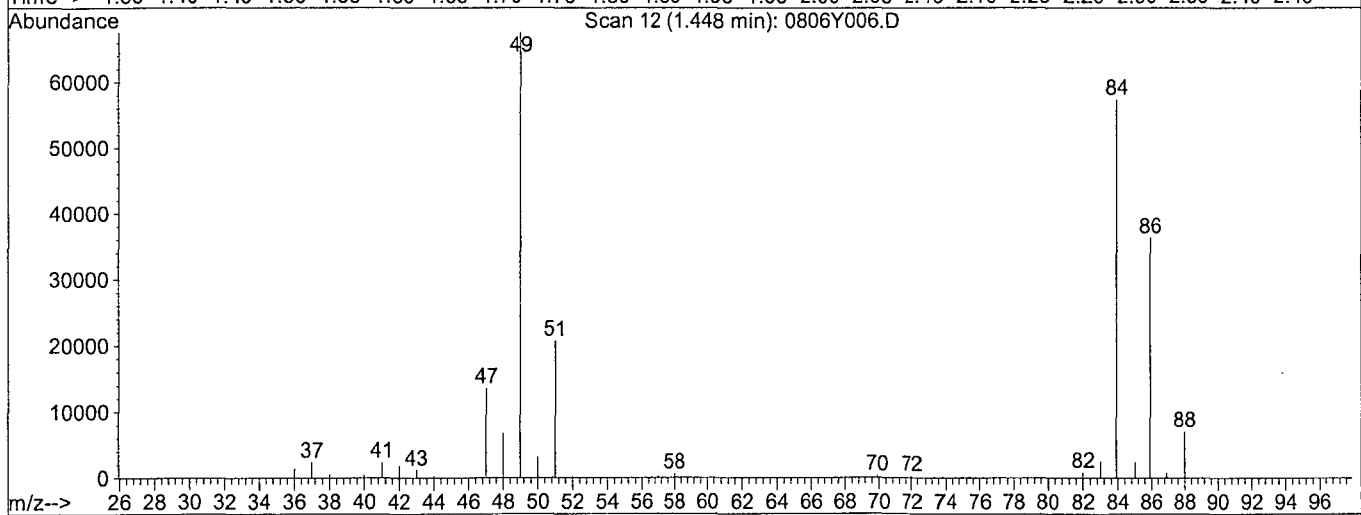
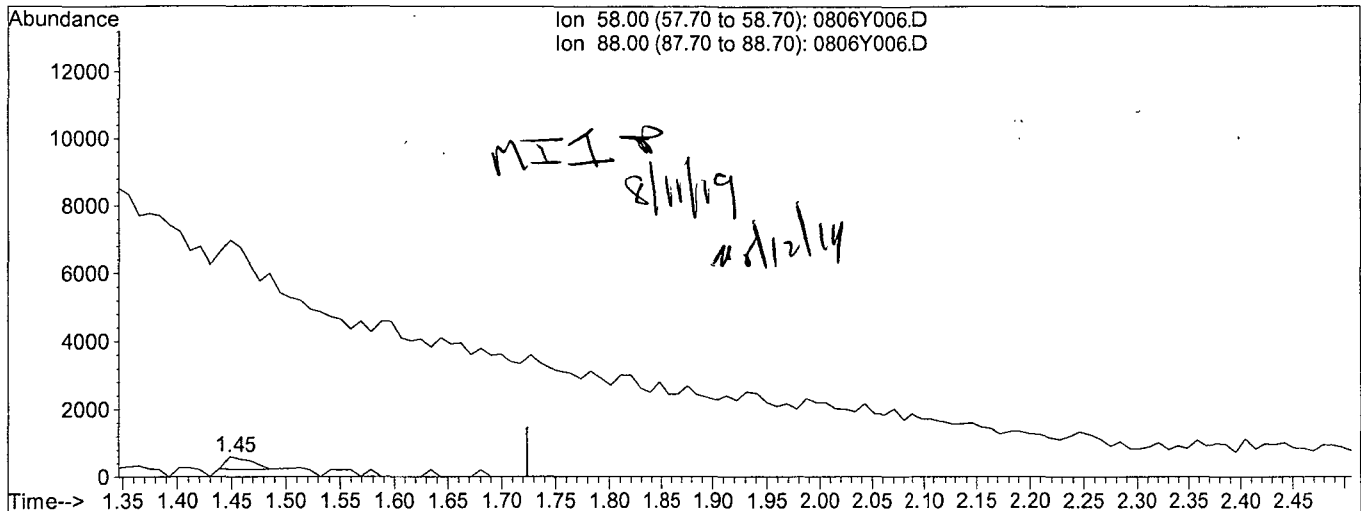
(2) 1,4-Dioxane		
1.45min	3.1014	
response	1620	
Ion	Exp%	Act%
58.00	100	100
88.00	197.60	631.60#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y006.D
 Acq On : 6 Aug 19 12:41
 Sample : 10ug/ml 8270 08/06/19
 Misc :
 Quant Time: Aug 8 10:54 2019

Vial: 6
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Aug 07 12:16:13 2019
 Response via : Multiple Level Calibration



TIC: 0806Y006.D

(2) 1,4-Dioxane
 1.45min 1.1487 m
 response 600

Ion	Exp%	Act%
58.00	100	100
88.00	197.60	1705.33#
0.00	0.00	0.00
0.00	0.00	0.00

Data File : M:\YODA\DATA\Y190806\0806Y007.D
 Acq On : 6 Aug 19 13:09
 Sample : 20ug/ml 8270 08/06/19
 Misc :

Vial: 7
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 8 10:57 2019

Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.95	152	194537	40.00000	ppb	-0.06
21) Napthalene-D8 (IS)	6.42	136	828727	40.00000	ppb	-0.06
41) Acenaphthene-D10 (IS)	8.46	164	467120	40.00000	ppb	-0.06
65) Phenanthrene-D10 (IS)	10.21	188	937420	40.00000	ppb	-0.06
79) Chrysene-D12 (IS)	13.32	240	877613	40.00000	ppb	-0.07
89) Perylene-D12 (IS)	15.05	264	1036480	40.00000	ppb	-0.08

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.35	112	243528	37.76431	ppb	-0.04
Spiked Amount 200.000			Recovery =	18.882%		
6) Phenol-D6 (S)	4.58	99	275765	40.68884	ppb	-0.05
Spiked Amount 200.000			Recovery =	20.345%		
22) Nitrobenzene-D5 (S)	5.62	82	112018	17.38489	ppb	-0.05
Spiked Amount 100.000			Recovery =	17.385%		
46) 2-Fluorobiphenyl (S)	7.67	172	331346	20.20211	ppb	-0.06
Spiked Amount 100.000			Recovery =	20.202%		
64) 2,4,6-Tribromophenol (S)	9.40	330	121359	48.20656	ppb	-0.06
Spiked Amount 200.000			Recovery =	24.104%		
82) Terphenyl-D14 (S)	12.08	244	458403	20.82533	ppb	-0.07
Spiked Amount 100.000			Recovery =	20.825%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.45	58	1398m	2.80282		1
3) n-Nitrosodimethylamine	1.68	42	26167	29.53159	ppb	87
4) Pyridine	1.69	79	77092	35.29633	ppb	94
7) Phenol	4.60	94	195882	21.95631	ppb	97
8) Aniline	4.59	93	176532	20.25685	ppb	# 80
9) Bis (2-chloroethyl) ether	4.67	63	72475	19.01272	ppb	85
10) 2-Chlorophenol	4.73	128	163161	22.73312	ppb	93
11) 1,3-DCB	4.89	146	185829	22.96133	ppb	99
12) 1,4-DCB	4.98	146	187844	23.14447	ppb	99
13) Benzyl alcohol	5.16	108	87437	22.05140	ppb	97
14) 1,2-DCB	5.15	146	175583	23.42487	ppb	100
15) 2-Methylphenol	5.30	107	130415	22.91241	ppb	93
16) Bis (2-chloroisopropyl) et	5.28	45	107724	18.02245	ppb	# 74
17) Acetophenone	5.45	105	194668	23.07969	ppb	96
18) 3&4-Methylphenol	5.47	107	312383	46.27550	ppb	96
19) n-Nitrosodi-n-propylamine	5.44	70	89576	22.16599	ppb	98
20) Hexachloroethane	5.52	117	60610	22.29887	ppb	96
23) Nitrobenzene	5.64	77	129304	19.12238	ppb	95
24) Isophorone	5.90	82	242585	20.31830	ppb	98
25) 2-Nitrophenol	6.00	139	98489	22.81068	ppb	98
26) 2,4-Dimethylphenol	6.07	122	146960	21.96347	ppb	100
27) Benzoic acid	6.24	105	89459	20.97006	ppb	95
28) Bis (2-chloroethoxy) metha	6.16	93	160403	20.45370	ppb	97
29) 2,4-Dichlorophenol	6.30	162	145267	22.76710	ppb	97
30) 1,2,4-Trichlorobenzene	6.37	180	158542	22.43969	ppb	96
31) 3,4-Dimethylphenol	6.41	107	188407	21.97193	ppb	98
32) Naphthalene	6.45	128	479046	22.26213	ppb	99
33) 4-Chloroaniline	6.53	127	175793	21.88846	ppb	98
34) 2,6-Dichlorophenol	6.53	162	141771	23.49640	ppb	97
35) Hexachloropropene	6.53	213	94406	23.75182	ppb	98
36) Hexachlorobutadiene	6.57	225	90692	23.37529	ppb	98
37) Caprolactum	6.95	55	46120	18.57568	ppb	89

Data File : M:\YODA\DATA\Y190806\0806Y007.D
 Acq On : 6 Aug 19 13:09
 Sample : 20ug/ml 8270 08/06/19
 Misc :

Vial: 7
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 8 10:57 2019

Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.13	107	135827	21.94049	ppb	92
39) 2-Methylnaphthalene	7.25	142	326889	22.63179	ppb	100
40) 1-Methylnaphthalene	7.36	142	334091	22.40200	ppb	97
42) Hexachlorocyclopentadiene	7.41	237	9863	20.49035	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.44	216	164833	22.69527	ppb	99
44) 2,4,6-Trichlorophenol	7.60	196	101512	22.45830	ppb	99
45) 2,4,5-Trichlorophenol	7.67	196	106528	22.20862	ppb	98
47) 1,1'-Biphenyl	7.80	154	425418	21.67561	ppb	99
48) 2-Chloronaphthalene	7.81	162	327950	21.69416	ppb	98
49) 2-Nitroaniline	7.97	65	68728	19.00690	ppb	84
50) Dimethyl phthalate	8.17	163	386247	21.93693	ppb	100
51) 2,6-DNT	8.25	165	90216	21.44138	ppb	99
52) Acenaphthylene	8.30	152	518952	21.98705	ppb	99
53) 3-Nitroaniline	8.45	138	91894	21.02107	ppb	# 91
54) Acenaphthene	8.50	154	325665	21.79278	ppb	99
55) 2,4-Dinitrophenol	8.64	184	19496	20.19457	ppb	97
56) 4-Nitrophenol	8.73	65	32052	17.20317	ppb	92
57) Dibenzofuran	8.71	168	480725	22.07514	ppb	96
58) 2,4-DNT	8.73	165	123249	21.95803	ppb	85
59) 2,3,4,6-Tetrachlorophenol	8.87	232	79878	21.44122	ppb	96
60) Diethyl phthalate	8.98	149	359034	21.66206	ppb	98
61) 4-Chlorophenyl phenyl ethe	9.10	204	203094	23.19881	ppb	99
62) Fluorene	9.10	166	382915	22.65425	ppb	99
63) 4-Nitroaniline	9.18	138	82429	19.63115	ppb	92
66) 4,6-Dinitro-2-methylphenol	9.22	198	69688	20.24175	ppb	99
67) Diphenyl amine	9.25	169	609095	45.20883	ppb	98
68) n-Nitrosodiphenylamine	9.25	169	609095	45.20883	ppb	98
69) 1,2-Diphenylhydrazine	9.29	77	266899	17.52565	ppb	90
70) 4-Bromophenyl phenyl ether	9.68	248	126968	23.58281	ppb	93
71) Hexachlorobenzene	9.75	284	135736	24.26560	ppb	89
72) Atrazine	9.88	200	53728	10.72854	ppb	98
73) Pentachlorophenol	10.00	266	40085	22.14417	ppb	99
74) Phenanthrene	10.24	178	564429	21.84664	ppb	99
75) Anthracene	10.29	178	592006	22.30616	ppb	100
76) Carbazol	10.51	167	539711	21.88436	ppb	99
77) Di-n-butylphthalate	10.90	149	613708	22.18155	ppb	98
78) Fluoranthene	11.63	202	637457	22.53037	ppb	98
80) Benzidine	11.82	184	157227	19.98918	ppb	98
81) Pyrene	11.90	202	664556	21.42713	ppb	100
83) Butyl benzylphthalate	12.65	149	277593	21.44883	ppb	95
84) 3,3'-Dichlorobenzidine	13.28	252	192542	21.49285	ppb	# 98
85) Benz (a) anthracene	13.31	228	634544	22.20549	ppb	99
86) Bis (2-ethylhexyl) phthala	13.31	149	369139	23.06399	ppb	98
87) Chrysene	13.35	228	635692	22.54763	ppb	100
88) Di-n-octylphthalate	14.03	149	683477	23.15396	ppb	100
90) Benzo (b) fluoranthene	14.54	252	662949	21.12203	ppb	98
91) Benzo (k) fluoranthene	14.58	252	690266	22.19336	ppb	98
92) Benzo (a) pyrene	14.97	252	642852	21.86260	ppb	98
93) Indeno (1,2,3-cd) pyrene	16.75	276	770850	22.87566	ppb	96
94) Dibenz (a,h) anthracene	16.76	278	678119	23.38863	ppb	98
95) Benzo (g,h,i) perylene	17.27	276	617969	23.24072	ppb	96

Quantitation Report

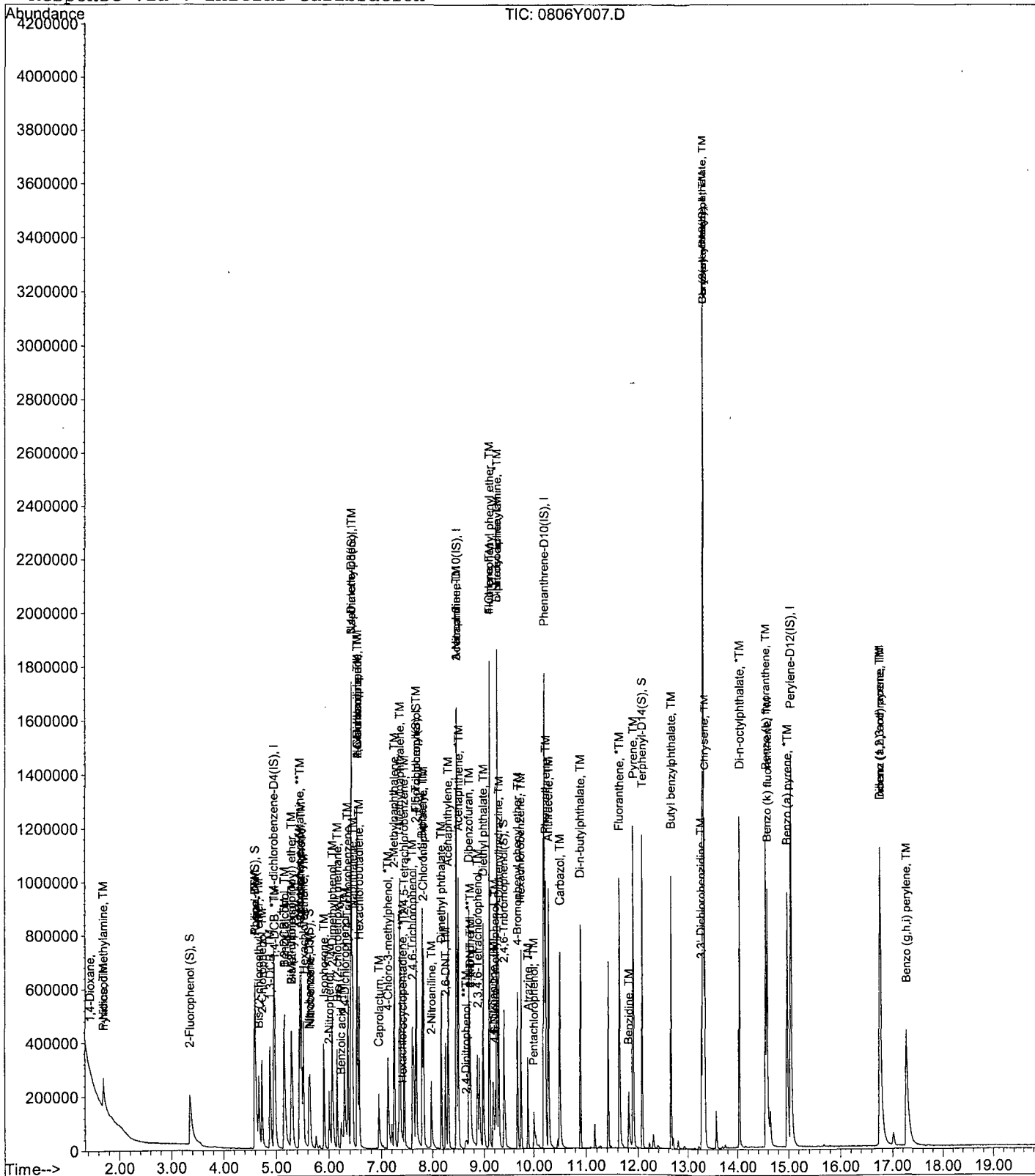
Data File : M:\YODA\DATA\Y190806\0806Y007.D
 Acq On : 6 Aug 19 13:09
 Sample : 20ug/ml 8270 08/06/19
 Misc :

Vial: 7
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 8 10:57 2019

Quant Results File: Y0806NC.RES

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Initial Calibration

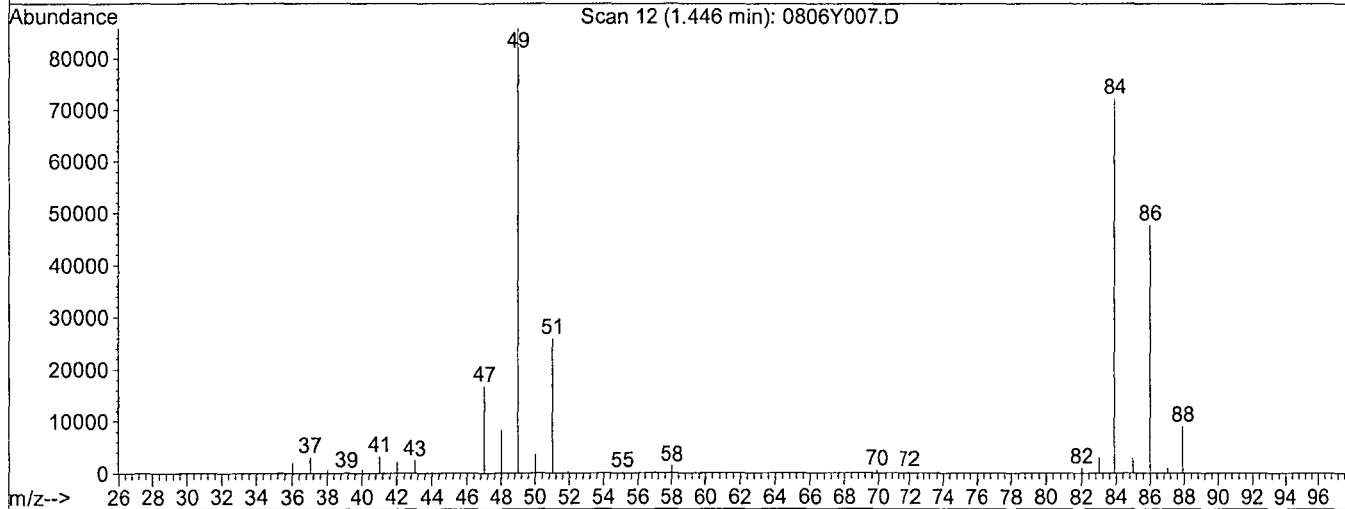
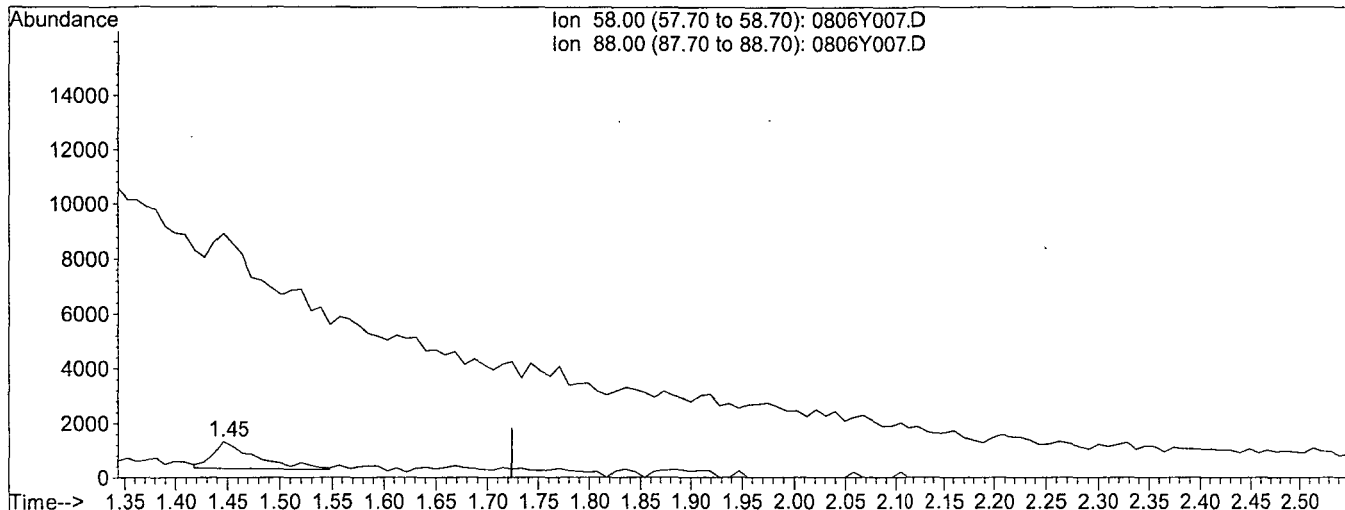


Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y007.D
 Acq On : 6 Aug 19 13:09
 Sample : 20ug/ml 8270 08/06/19
 Misc :
 Quant Time: Aug 6 14:42 2019

Vial: 7
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Aug 07 12:16:13 2019
 Response via : Multiple Level Calibration



TIC: 0806Y007.D

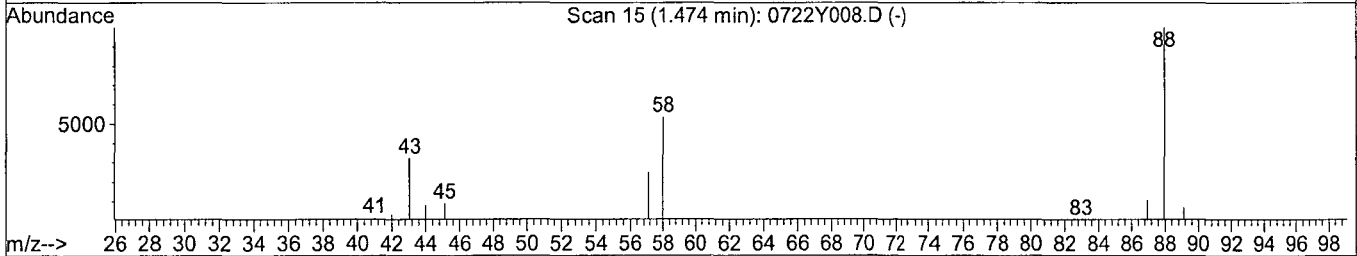
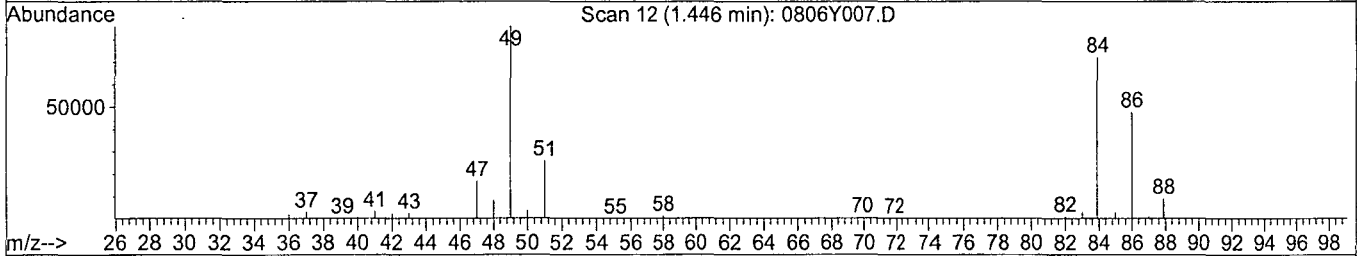
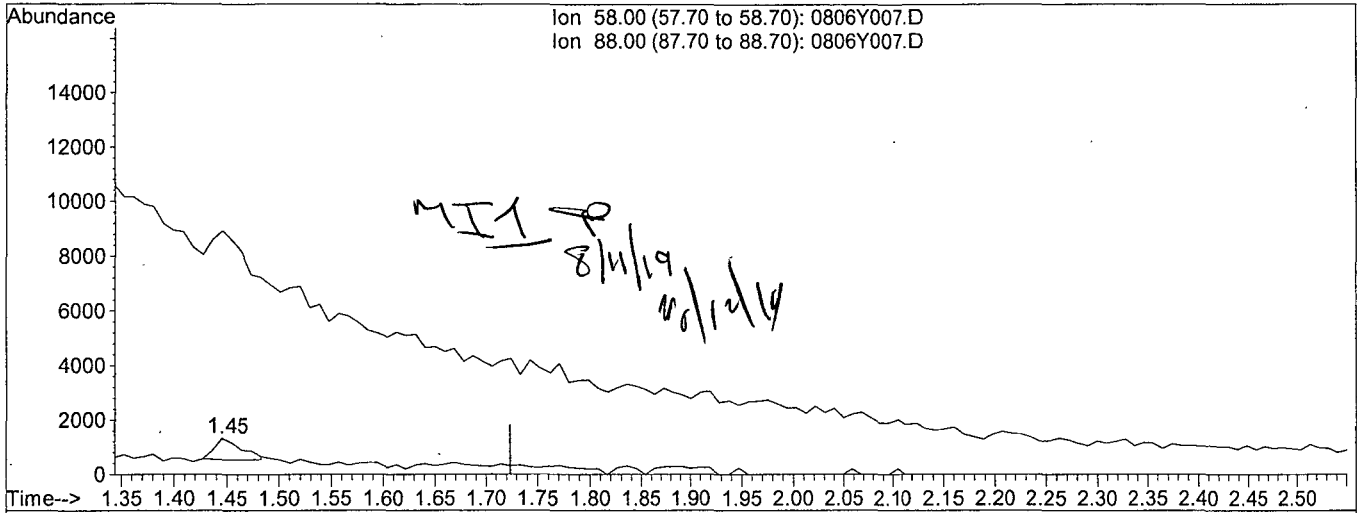
(2) 1,4-Dioxane		
1.45min	5.6397	
response	2813	
Ion	Exp%	Act%
58.00	100	100
88.00	197.60	618.38#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y007.D
 Acq On : 6 Aug 19 13:09
 Sample : 20ug/ml 8270 08/06/19
 Misc :
 Quant Time: Aug 8 10:57 2019

Vial: 7
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Aug 07 12:16:13 2019
 Response via : Multiple Level Calibration



TIC: 0806Y007.D

(2) 1,4-Dioxane		
1.45min	2.8028 m	
response	1398	
Ion	Exp%	Act%
58.00	100	100
88.00	197.60	1244.28#
0.00	0.00	0.00
0.00	0.00	0.00

Data File : M:\YODA\DATA\Y190806\0806Y008.D
 Acq On : 6 Aug 19 13:37
 Sample : 40ug/ml 8270 08/06/19
 Misc :

Vial: 8
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 7 12:23 2019

Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.96	152	233699	40.00000	ppb	=0.06
21) Napthalene-D8 (IS)	6.42	136	978425	40.00000	ppb	-0.06
41) Acenaphthene-D10 (IS)	8.47	164	560786	40.00000	ppb	-0.06
65) Phenanthrene-D10 (IS)	10.21	188	1142056	40.00000	ppb	-0.06
79) Chrysene-D12 (IS)	13.32	240	1012813	40.00000	ppb	-0.06
89) Perylene-D12 (IS)	15.05	264	1225785	40.00000	ppb	-0.08

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.33	112	562496	72.61017	ppb	-0.06
Spiked Amount 200.000			Recovery =	36.305%		
6) Phenol-D6 (S)	4.58	99	620839	76.25363	ppb	-0.05
Spiked Amount 200.000			Recovery =	38.127%		
22) Nitrobenzene-D5 (S)	5.62	82	254498	33.45433	ppb	-0.06
Spiked Amount 100.000			Recovery =	33.454%		
46) 2-Fluorobiphenyl (S)	7.68	172	730148	37.08149	ppb	-0.06
Spiked Amount 100.000			Recovery =	37.081%		
64) 2,4,6-Tribromophenol (S)	9.40	330	275723	91.23016	ppb	-0.06
Spiked Amount 200.000			Recovery =	45.615%		
82) Terphenyl-D14 (S)	12.08	244	975066	38.38418	ppb	-0.06
Spiked Amount 100.000			Recovery =	38.384%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.45	58	5276	8.80518		55
3) n-Nitrosodimethylamine	1.67	42	58700	55.14629	ppb	83
4) Pyridine	1.68	79	175228	66.78349	ppb	92
7) Phenol	4.60	94	464296	43.32166	ppb	85
8) Aniline	4.58	93	454318	43.39641	ppb	# 74
9) Bis (2-chloroethyl) ether	4.67	63	175681	38.36420	ppb	85
10) 2-Chlorophenol	4.72	128	391342	45.38836	ppb	96
11) 1,3-DCB	4.88	146	443142	45.57974	ppb	99
12) 1,4-DCB	4.97	146	442734	45.40860	ppb	99
13) Benzyl alcohol	5.15	108	213778	44.87964	ppb	99
14) 1,2-DCB	5.15	146	413735	45.94755	ppb	99
15) 2-Methylphenol	5.29	107	309646	45.28496	ppb	97
16) Bis (2-chloroisopropyl) et	5.28	45	251939	35.08666	ppb	85
17) Acetophenone	5.45	105	455812	44.98488	ppb	94
18) 3&4-Methylphenol	5.48	107	741394	91.42356	ppb	98
19) n-Nitrosodi-n-propylamine	5.45	70	210894	43.44153	ppb	93
20) Hexachloroethane	5.52	117	141044	43.19551	ppb	99
23) Nitrobenzene	5.64	77	311099	38.96839	ppb	93
24) Isophorone	5.91	82	569136	40.37601	ppb	91
25) 2-Nitrophenol	6.00	139	234992	46.09858	ppb	94
26) 2,4-Dimethylphenol	6.07	122	346280	43.83421	ppb	100
27) Benzoic acid	6.26	105	249916	49.61964	ppb	98
28) Bis (2-chloroethoxy) metha	6.16	93	378369	40.86570	ppb	98
29) 2,4-Dichlorophenol	6.29	162	341518	45.33549	ppb	98
30) 1,2,4-Trichlorobenzene	6.36	180	373463	44.77175	ppb	99
31) 3,4-Dimethylphenol	6.41	107	437861	43.25053	ppb	100
32) Napthalene	6.45	128	1105903	43.53019	ppb	99
33) 4-Chloroaniline	6.53	127	426899	45.02179	ppb	96
34) 2,6-Dichlorophenol	6.53	162	320173	44.94513	ppb	98
35) Hexachloropropene	6.53	213	224972	47.94128	ppb	99
36) Hexachlorobutadiene	6.57	225	209911	45.82550	ppb	99
37) Caprolactum	6.97	55	108897	37.14970	ppb	91

Data File : M:\YODA\DATA\Y190806\0806Y008.D
 Acq On : 6 Aug 19 13:37
 Sample : 40ug/ml 8270 08/06/19
 Misc :

Vial: 8
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 7 12:23 2019

Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.12	107	326154	44.62383	ppb	100
39) 2-Methylnaphthalene	7.25	142	752288	44.11503	ppb	97
40) 1-Methylnaphthalene	7.36	142	770633	43.76769	ppb	98
42) Hexachlorocyclopentadiene	7.42	237	65957	47.13770	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.44	216	386257	44.29951	ppb	100
44) 2,4,6-Trichlorophenol	7.60	196	245824	45.30176	ppb	100
45) 2,4,5-Trichlorophenol	7.66	196	259752	45.10741	ppb	98
47) 1,1'-Biphenyl	7.80	154	974958	41.37830	ppb	98
48) 2-Chloronaphthalene	7.82	162	770793	42.47216	ppb	99
49) 2-Nitroaniline	7.96	65	164007	37.78081	ppb	100
50) Dimethyl phthalate	8.17	163	908598	42.98470	ppb	99
51) 2,6-DNT	8.25	165	223819	44.30955	ppb	99
52) Acenaphthylene	8.30	152	1217930	42.98267	ppb	100
53) 3-Nitroaniline	8.46	138	227146	43.28168	ppb	# 87
54) Acenaphthene	8.50	154	752168	41.92642	ppb	100
55) 2,4-Dinitrophenol	8.61	184	107065m	44.79291	ppb	97
56) 4-Nitrophenol	8.72	65	86596	38.71530	ppb	89
57) Dibenzofuran	8.71	168	1126948	43.10642	ppb	99
58) 2,4-DNT	8.73	165	305238	45.29808	ppb	# 80
59) 2,3,4,6-Tetrachlorophenol	8.87	232	208585	46.63765	ppb	94
60) Diethyl phthalate	8.98	149	851876	42.81263	ppb	100
61) 4-Chlorophenyl phenyl ethe	9.11	204	460621	43.82719	ppb	99
62) Fluorene	9.11	166	869039	42.82702	ppb	99
63) 4-Nitroaniline	9.18	138	209417	41.54406	ppb	95
66) 4,6-Dinitro-2-methylphenol	9.22	198	190910	45.51615	ppb	99
67) Diphenyl amine	9.26	169	1395304	85.00684	ppb	100
68) n-Nitrosodiphenylamine	9.26	169	1395304	85.00684	ppb	100
69) 1,2-Diphenylhydrazine	9.29	77	613145	33.04739	ppb	92
70) 4-Bromophenyl phenyl ether	9.68	248	302999	46.19440	ppb	95
71) Hexachlorobenzene	9.75	284	328921	48.26524	ppb	91
72) Atrazine	9.89	200	136374	22.35210	ppb	99
73) Pentachlorophenol	10.01	266	112984	51.23201	ppb	97
74) Phenanthrene	10.24	178	1342347	42.64684	ppb	99
75) Anthracene	10.29	178	1386467	42.88003	ppb	100
76) Carbazol	10.50	167	1269713	42.25957	ppb	97
77) Di-n-butylphthalate	10.90	149	1478994	43.87765	ppb	99
78) Fluoranthene	11.63	202	1521683	44.14570	ppb	99
80) Benzidine	11.81	184	433647m	47.77251	ppb	100
81) Pyrene	11.90	202	1558830	43.55168	ppb	100
83) Butyl benzylphthalate	12.65	149	668100	44.73118	ppb	97
84) 3,3'-Dichlorobenzidine	13.28	252	509844	49.31507	ppb	# 96
85) Benz (a) anthracene	13.30	228	1491891	45.23864	ppb	99
86) Bis (2-ethylhexyl) phthala	13.31	149	851238	46.08603	ppb	99
87) Chrysene	13.35	228	1480218	45.49394	ppb	100
88) Di-n-octylphthalate	14.04	149	1607635	47.19137	ppb	99
90) Benzo (b) fluoranthene	14.55	252	1671375	45.02732	ppb	98
91) Benzo (k) fluoranthene	14.58	252	1539452	41.85230	ppb	97
92) Benzo (a) pyrene	14.97	252	1537308	44.20774	ppb	98
93) Indeno (1,2,3-cd) pyrene	16.76	276	1824576	45.78385	ppb	95
94) Dibenz (a,h) anthracene	16.76	278	1624261	47.36977	ppb	97
95) Benzo (g,h,i) perylene	17.27	276	1502762	47.78809	ppb	97

Quantitation Report

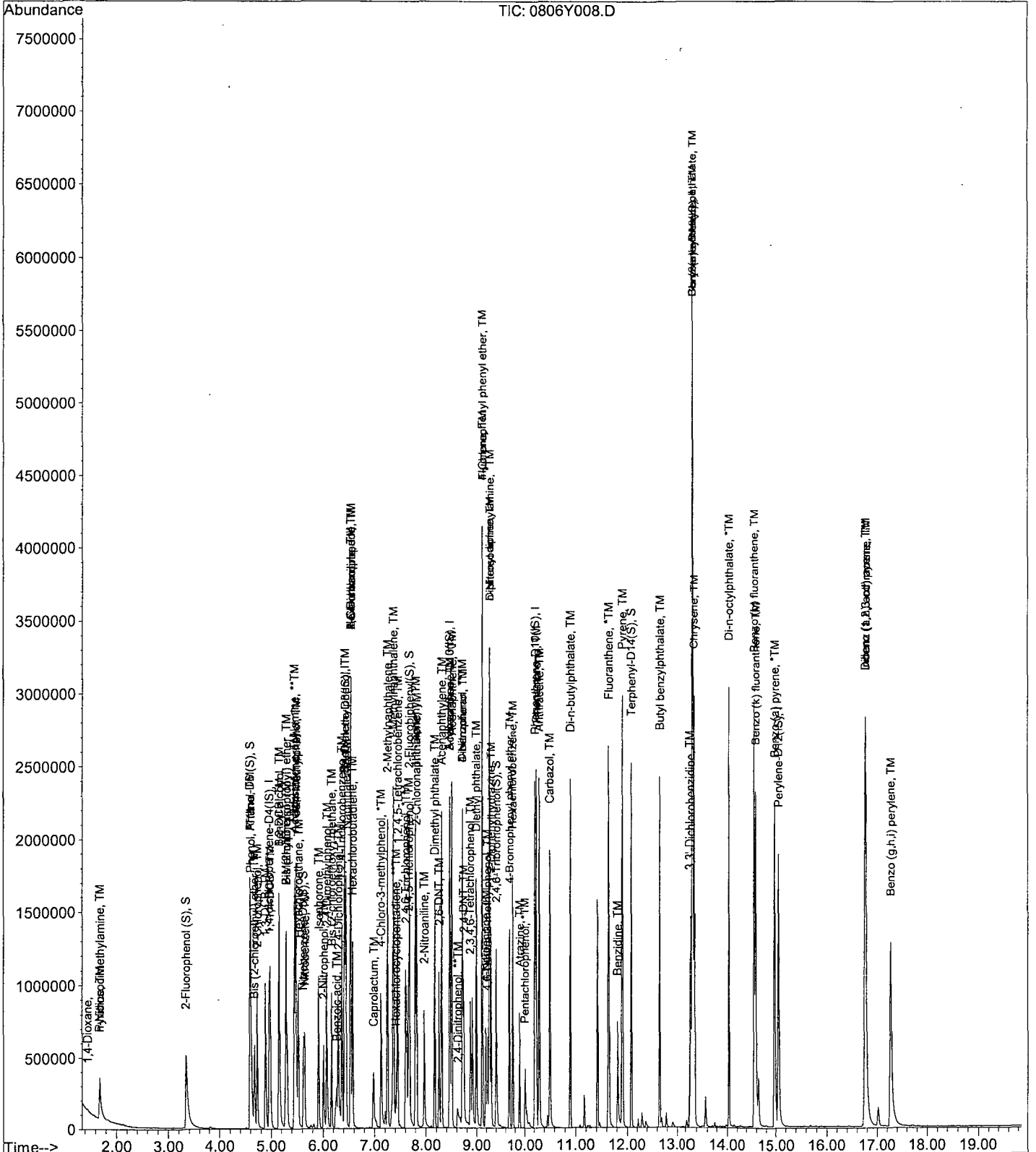
Data File : M:\YODA\DATA\Y190806\0806Y008.D
Acq On : 6 Aug 19 13:37
Sample : 40ug/ml 8270 08/06/19
Misc :

Vial: 8
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Aug 7 12:23 2019

Quant Results File: Y0806NC.RES

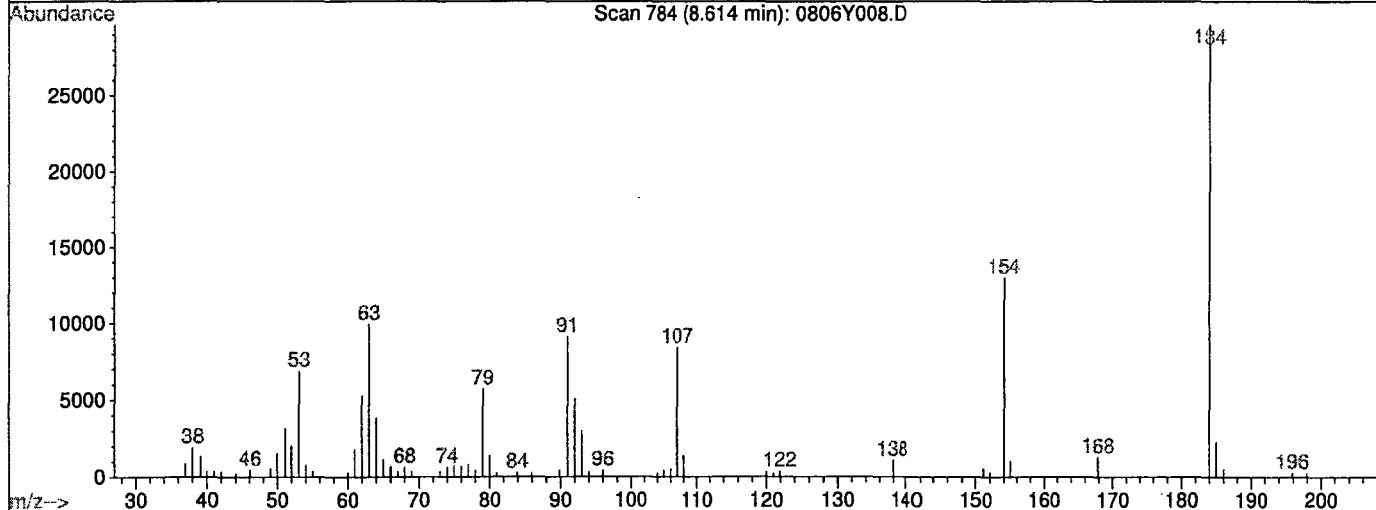
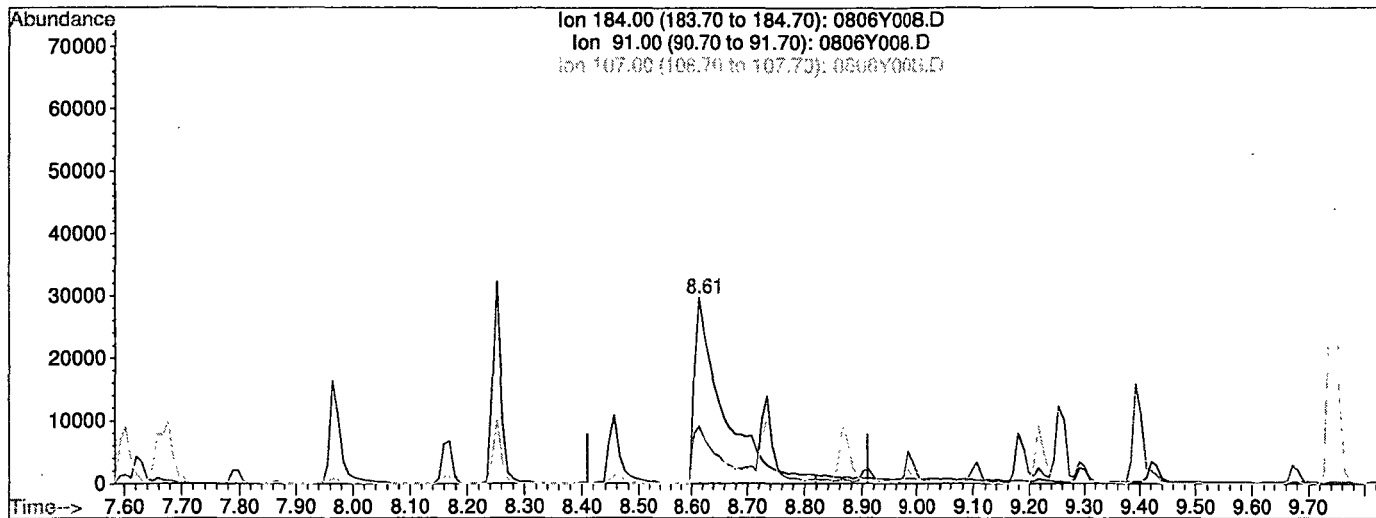
Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Aug 08 11:05:08 2019
Response via : Initial Calibration



Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y008.D Vial: 8
 Acq On : 6 Aug 19 13:37 Operator: MA,SS
 Sample : 40ug/ml 8270 08/06/19 Inst : Yoda
 Misc : Multiplr: 1.00
 Quant Time: Aug 7 12:19 2019 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Aug 07 12:16:13 2019
 Response via : Multiple Level Calibration



TIC: 0806Y008.D

(55) 2,4-Dinitrophenol (**TM)

8.61min 45.5006ppb

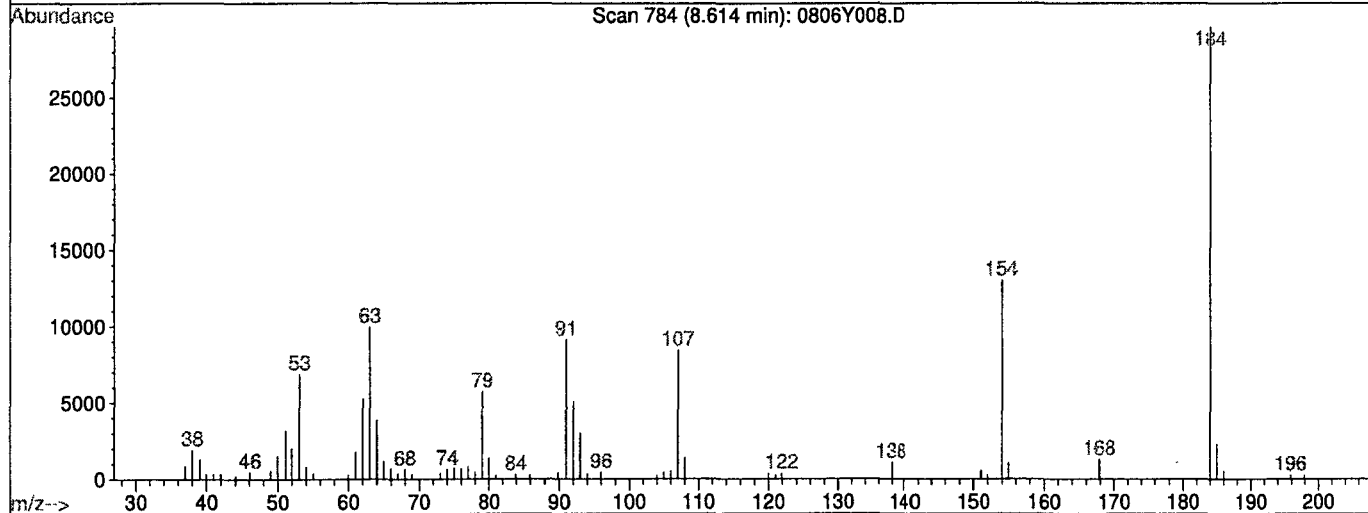
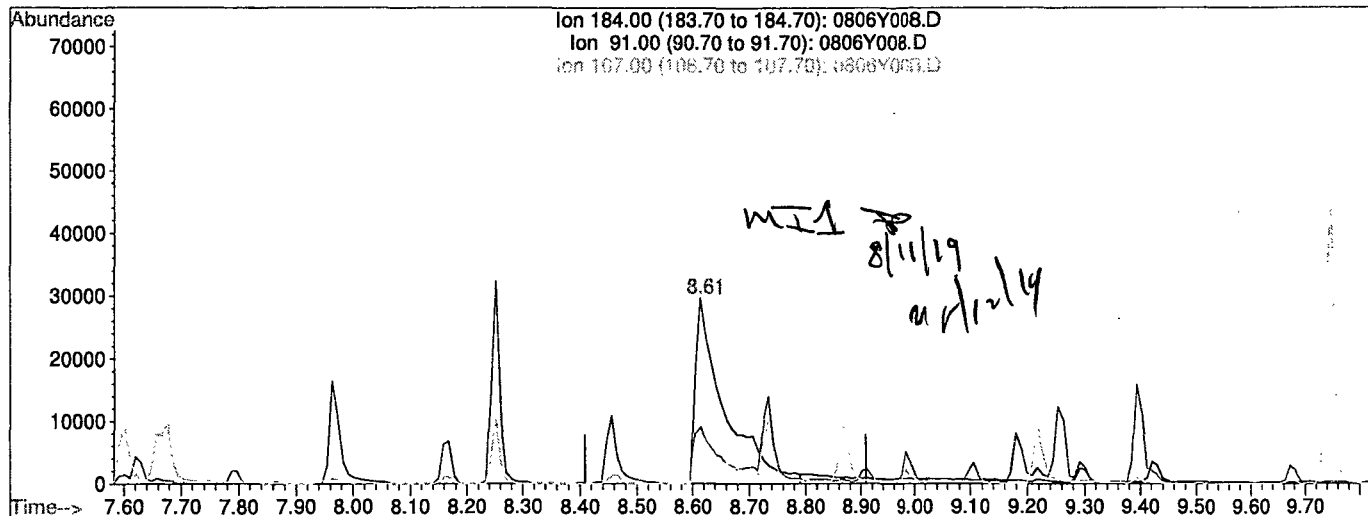
response 109472

Ion	Exp%	Act%
184.00	100	100
91.00	32.70	30.37
107.00	29.50	28.11
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y008.D Vial: 8
 Acq On : 6 Aug 19 13:37 Operator: MA,SS
 Sample : 40ug/ml 8270 08/06/19 Inst : Yoda
 Misc : Multiplr: 1.00
 Quant Time: Aug 7 12:23 2019 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Aug 07 12:16:13 2019
 Response via : Multiple Level Calibration



TIC: 0806Y008.D

(55) 2,4-Dinitrophenol (**TM)

8.61min 44.7929ppb m

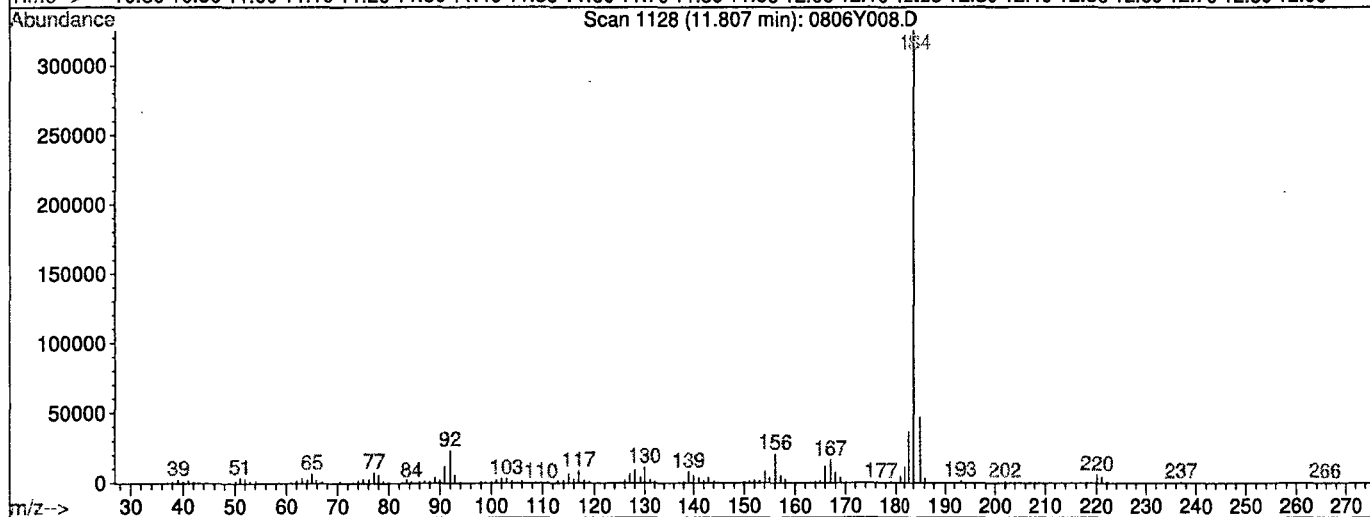
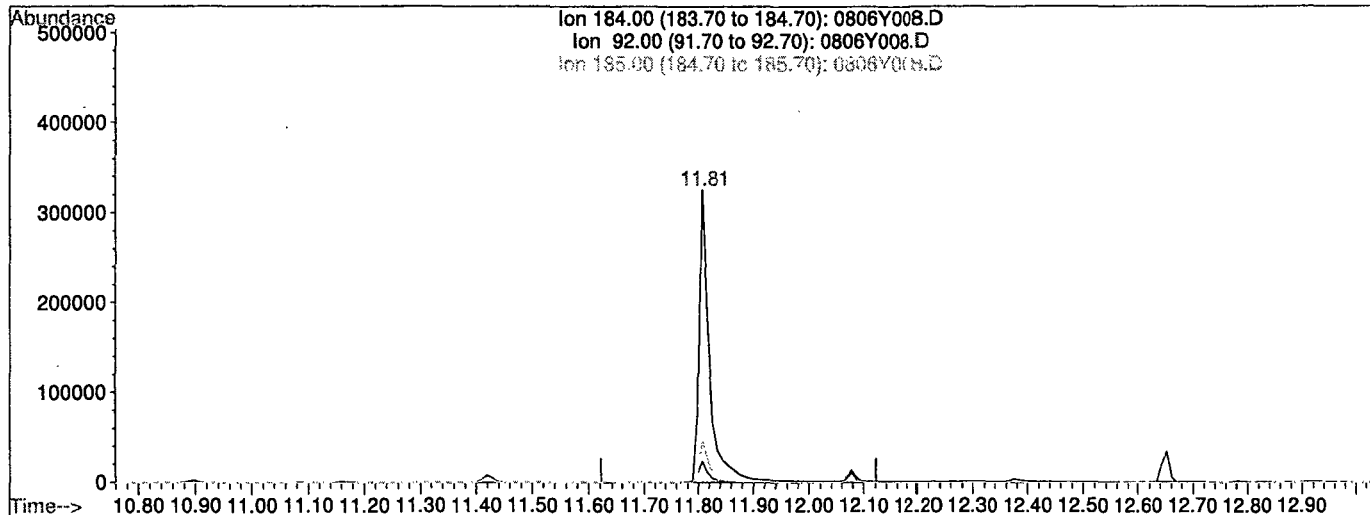
response 107065

Ion	Exp%	Act%
184.00	100	100
91.00	32.70	30.70
107.00	29.50	28.34
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y008.D Vial: 8
 Acq On : 6 Aug 19 13:37 Operator: MA,SS
 Sample : 40ug/ml 8270 08/06/19 Inst : Yoda
 Misc : Multiplr: 1.00
 Quant Time: Aug 6 14:42 2019 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Aug 07 12:06:44 2019
 Response via : Multiple Level Calibration



TIC: 0806Y008.D

(80) Benzidine (TM)

11.81min 48.8619ppb

response 443536

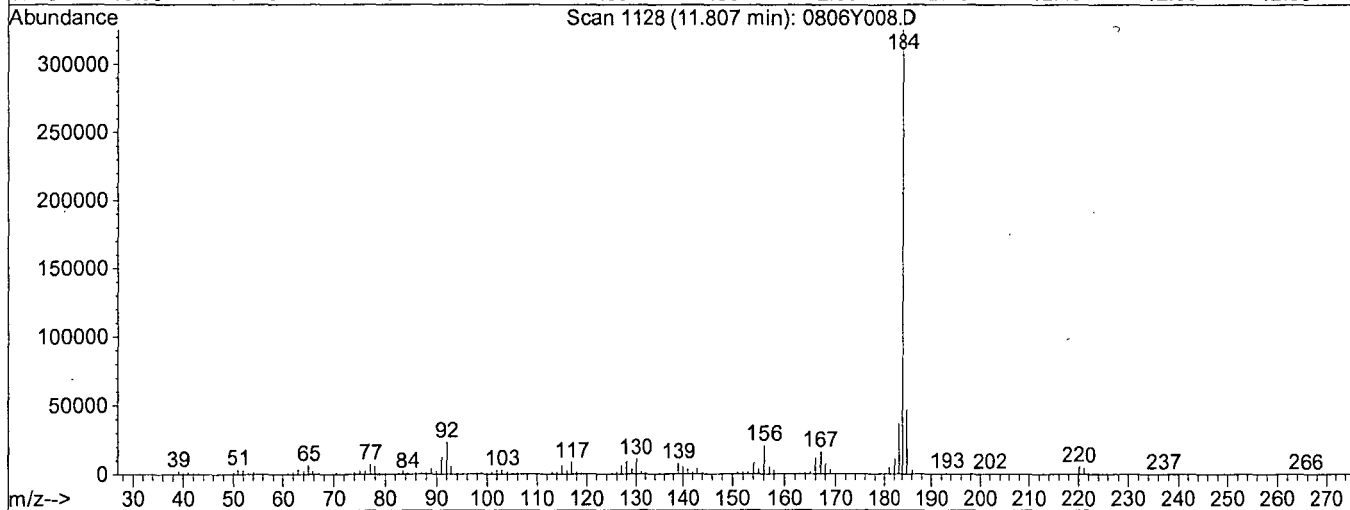
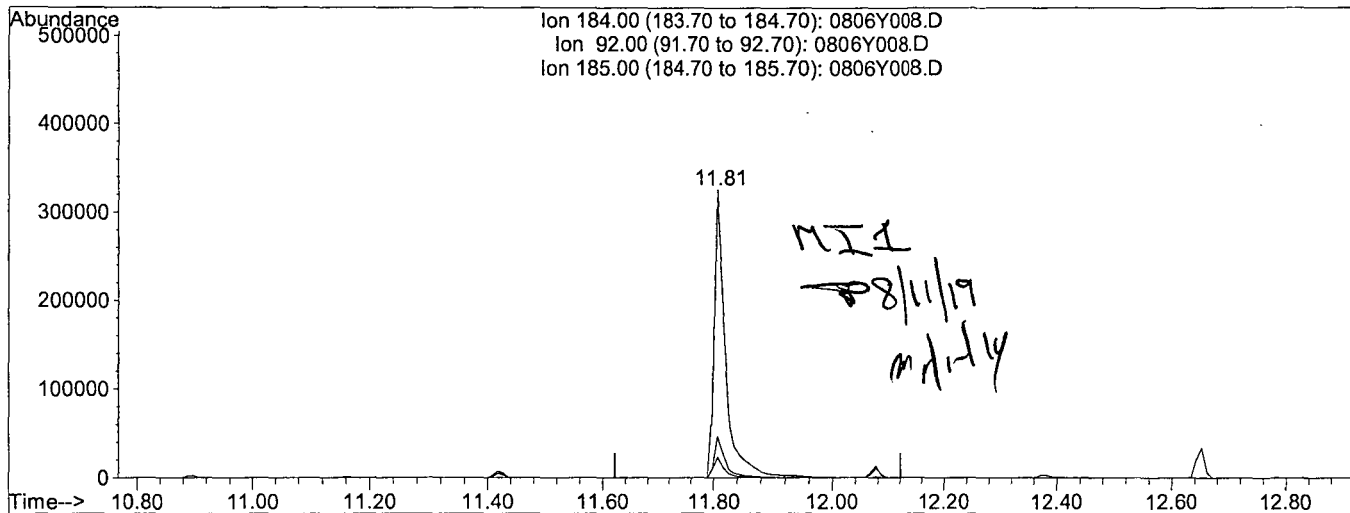
Ion	Exp%	Act%
184.00	100	100
92.00	7.00	7.11
185.00	14.60	14.38
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y008.D
 Acq On : 6 Aug 19 13:37
 Sample : 40ug/ml 8270 08/06/19
 Misc :
 Quant Time: Aug 7 12:23 2019

Vial: 8
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Multiple Level Calibration



TIC: 0806Y008.D

(80) Benzidine (TM)

11.81min 47.7725ppb m

response 433647

Ion	Exp%	Act%
184.00	100	100
92.00	7.00	7.11
185.00	14.60	14.38
0.00	0.00	0.00

Data File : M:\YODA\DATA\Y190806\0806Y009.D
 Acq On : 6 Aug 19 14:05
 Sample : 60ug/ml 8270 08/06/19
 Misc :

Vial: 9
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 7 11:37 2019

Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.95	152	232058	40.00000	ppb	-0.06
21) Napthalene-D8 (IS)	6.42	136	904160	40.00000	ppb	-0.06
41) Acenaphthene-D10 (IS)	8.46	164	517335	40.00000	ppb	-0.06
65) Phenanthrene-D10 (IS)	10.21	188	1050684	40.00000	ppb	-0.06
79) Chrysene-D12 (IS)	13.32	240	939482	40.00000	ppb	-0.07
89) Perylene-D12 (IS)	15.04	264	1156646	40.00000	ppb	-0.09

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.33	112	835914	108.66756	ppb	-0.06
Spiked Amount 200.000			Recovery =	54.334%		
6) Phenol-D6 (S)	4.58	99	886377	109.63780	ppb	-0.05
Spiked Amount 200.000			Recovery =	54.819%		
22) Nitrobenzene-D5 (S)	5.62	82	363765	51.74533	ppb	-0.05
Spiked Amount 100.000			Recovery =	51.745%		
46) 2-Fluorobiphenyl (S)	7.68	172	1049545	57.77935	ppb	-0.05
Spiked Amount 100.000			Recovery =	57.779%		
64) 2,4,6-Tribromophenol (S)	9.40	330	400575	143.67281	ppb	-0.06
Spiked Amount 200.000			Recovery =	71.837%		
82) Terphenyl-D14 (S)	12.07	244	1416659	60.12075	ppb	-0.07
Spiked Amount 100.000			Recovery =	60.121%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.44	58	7054m	11.85575		1
3) n-Nitrosodimethylamine	1.67	42	80449m	76.11305	ppb	84
4) Pyridine	1.68	79	226215	86.82551	ppb	92
7) Phenol	4.60	94	595770	55.98209	ppb	85
8) Aniline	4.59	93	583389	56.11932	ppb	# 84
9) Bis (2-chloroethyl) ether	4.68	63	226573	49.82758	ppb	82
10) 2-Chlorophenol	4.72	128	505796	59.07772	ppb	98
11) 1,3-DCB	4.89	146	576323	59.69737	ppb	99
12) 1,4-DCB	4.98	146	579392	59.84502	ppb	99
13) Benzyl alcohol	5.16	108	278332	58.84503	ppb	94
14) 1,2-DCB	5.15	146	535909	59.93652	ppb	99
15) 2-Methylphenol	5.30	107	394445	58.09454	ppb	95
16) Bis (2-chloroisopropyl) et	5.29	45	329438	46.20411	ppb	# 64
17) Acetophenone	5.45	105	585643	58.20684	ppb	98
18) 3&4-Methylphenol	5.47	107	941015	116.86001	ppb	95
19) n-Nitrosodi-n-propylamine	5.45	70	266976	55.38261	ppb	98
20) Hexachloroethane	5.52	117	186388	57.48602	ppb	94
23) Nitrobenzene	5.64	77	401172	54.37843	ppb	94
24) Isophorone	5.91	82	734992	56.42508	ppb	97
25) 2-Nitrophenol	6.00	139	296806	63.00708	ppb	94
26) 2,4-Dimethylphenol	6.07	122	446243	61.12789	ppb	99
27) Benzoic acid	6.27	105	331814	71.29130	ppb	98
28) Bis (2-chloroethoxy) metha	6.16	93	482434	56.38500	ppb	98
29) 2,4-Dichlorophenol	6.29	162	440937	63.34080	ppb	99
30) 1,2,4-Trichlorobenzene	6.36	180	481834	62.50808	ppb	99
31) 3,4-Dimethylphenol	6.41	107	560805	59.94449	ppb	98
32) Naphthalene	6.45	128	1426394	60.75686	ppb	99
33) 4-Chloroaniline	6.53	127	530969	60.59670	ppb	98
34) 2,6-Dichlorophenol	6.53	162	406665	61.77560	ppb	96
35) Hexachloropropene	6.53	213	294392	67.88744	ppb	98
36) Hexachlorobutadiene	6.58	225	274947	64.95360	ppb	99
37) Caprolactum	6.99	55	141640	52.28867	ppb	89

Data File : M:\YODA\DATA\Y190806\0806Y009.D
 Acq On : 6 Aug 19 14:05
 Sample : 60ug/ml 8270 08/06/19
 Misc :

Vial: 9
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 7 11:37 2019

Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.13	107	416975	61.73570	ppb	89
39) 2-Methylnaphthalene	7.25	142	977080	62.00331	ppb	99
40) 1-Methylnaphthalene	7.36	142	992915	61.02396	ppb	98
42) Hexachlorocyclopentadiene	7.41	237	110644	65.29739	ppb	100
43) 1,2,4,5-Tetrachlorobenzene	7.44	216	507831	63.13454	ppb	98
44) 2,4,6-Trichlorophenol	7.60	196	316818	63.28866	ppb	98
45) 2,4,5-Trichlorophenol	7.66	196	334375	62.94310	ppb	94
47) 1,1'-Biphenyl	7.79	154	1243753	57.21979	ppb	98
48) 2-Chloronaphthalene	7.82	162	1000024	59.73135	ppb	97
49) 2-Nitroaniline	7.97	65	213372	53.28091	ppb	84
50) Dimethyl phthalate	8.17	163	1167092	59.85115	ppb	99
51) 2,6-DNT	8.25	165	288669	61.94780	ppb	89
52) Acenaphthylene	8.30	152	1545187	59.11223	ppb	100
53) 3-Nitroaniline	8.45	138	290399	59.98180	ppb	93
54) Acenaphthene	8.50	154	965719	58.35109	ppb	99
55) 2,4-Dinitrophenol	8.61	184	157330	63.45759	ppb	94
56) 4-Nitrophenol	8.71	65	112780	54.65654	ppb	81
57) Dibenzofuran	8.70	168	1426258	59.13730	ppb	98
58) 2,4-DNT	8.73	165	391239	62.93737	ppb	86
59) 2,3,4,6-Tetrachlorophenol	8.87	232	276718	67.06815	ppb	95
60) Diethyl phthalate	8.99	149	1089199	59.33734	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.10	204	585676	60.40635	ppb	96
62) Fluorene	9.10	166	1111039	59.35170	ppb	100
63) 4-Nitroaniline	9.19	138	275668	59.28006	ppb	92
66) 4,6-Dinitro-2-methylphenol	9.22	198	260972	67.63103	ppb	# 87
67) Diphenyl amine	9.26	169	1758981	116.48271	ppb	100
68) n-Nitrosodiphenylamine	9.26	169	1758981	116.48271	ppb	100
69) 1,2-Diphenylhydrazine	9.30	77	962607	56.39470	ppb	# 77
70) 4-Bromophenyl phenyl ether	9.68	248	396135	65.64575	ppb	98
71) Hexachlorobenzene	9.74	284	425580	67.87962	ppb	95
72) Atrazine	9.89	200	173895	30.98054	ppb	99
73) Pentachlorophenol	10.00	266	151875	74.85589	ppb	99
74) Phenanthrene	10.24	178	1685700	58.21269	ppb	100
75) Anthracene	10.30	178	1767189	59.40784	ppb	100
76) Carbazol	10.51	167	1645553	59.53147	ppb	100
77) Di-n-butylphthalate	10.90	149	1851100	59.69282	ppb	100
78) Fluoranthene	11.64	202	1952904	61.58293	ppb	97
80) Benzidine	11.80	184	568227m	67.48455	ppb	99
81) Pyrene	11.90	202	1965584	59.20229	ppb	100
83) Butyl benzylphthalate	12.65	149	851455	61.45700	ppb	96
84) 3,3'-Dichlorobenzidine	13.28	252	642455	66.99244	ppb	# 98
85) Benz (a) anthracene	13.31	228	1879656	61.44572	ppb	99
86) Bis (2-ethylhexyl) phthala	13.31	149	1074998	62.74321	ppb	98
87) Chrysene	13.35	228	1901291	62.99662	ppb	100
88) Di-n-octylphthalate	14.03	149	2074552	65.65083	ppb	98
90) Benzo (b) fluoranthene	14.54	252	2097687	59.89033	ppb	99
91) Benzo (k) fluoranthene	14.58	252	2046543	58.96413	ppb	98
92) Benzo (a) pyrene	14.97	252	2012551	61.33356	ppb	98
93) Indeno (1,2,3-cd) pyrene	16.76	276	2360660	62.77658	ppb	96
94) Dibenz (a,h) anthracene	16.77	278	2086379	64.48407	ppb	96
95) Benzo (g,h,i) perylene	17.26	276	1948192	65.65610	ppb	97

Quantitation Report

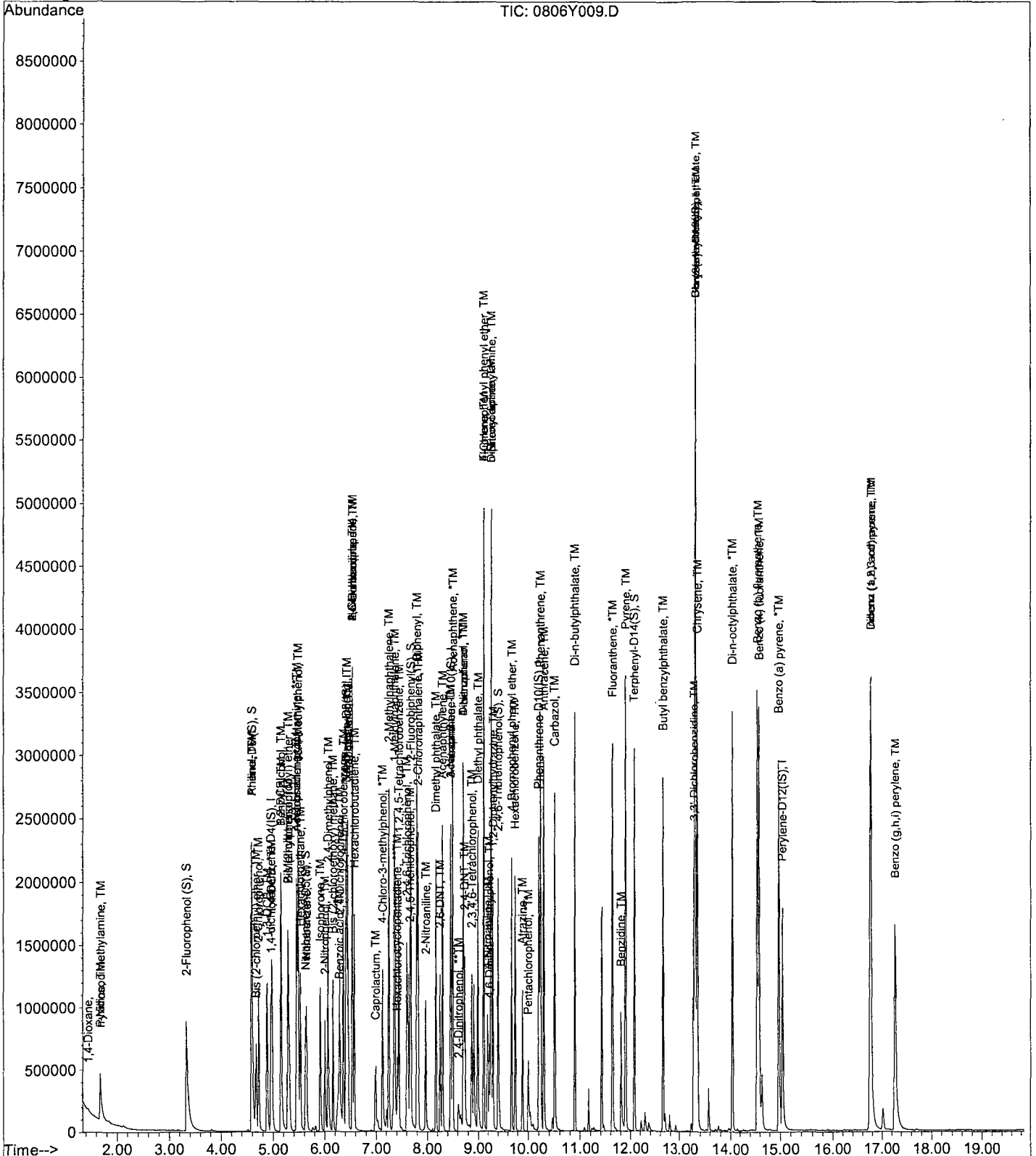
Data File : M:\YODA\DATA\Y190806\0806Y009.D
Acq On : 6 Aug 19 14:05
Sample : 60ug/ml 8270 08/06/19
Misc :

Vial: 9
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Aug 7 11:37 2019

Quant Results File: Y0806NC.RES

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Aug 08 11:05:08 2019
Response via : Initial Calibration

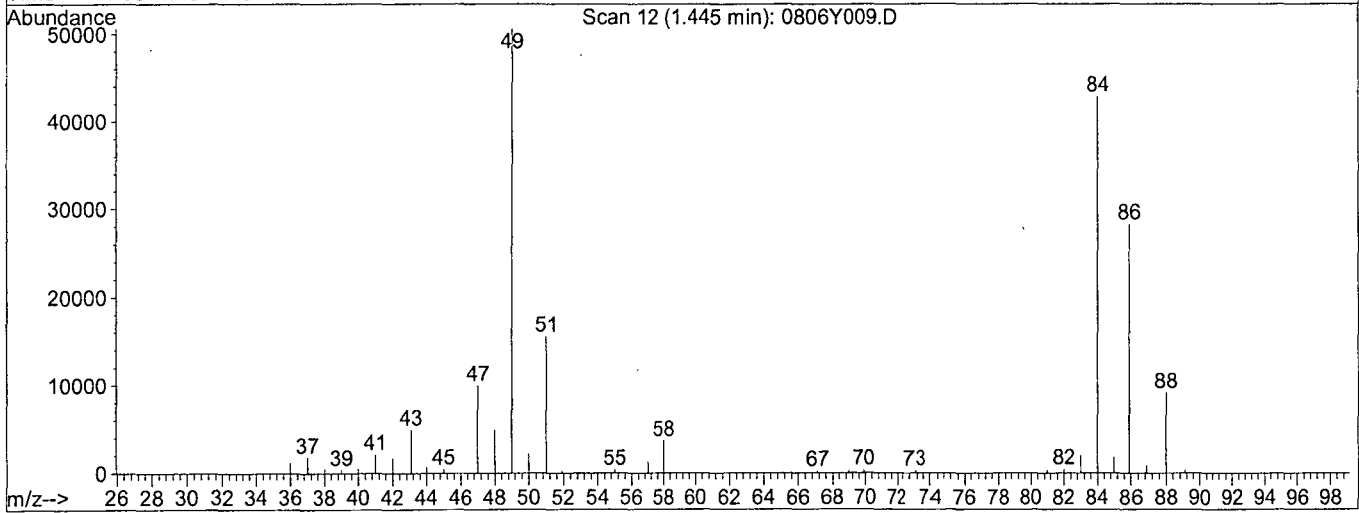
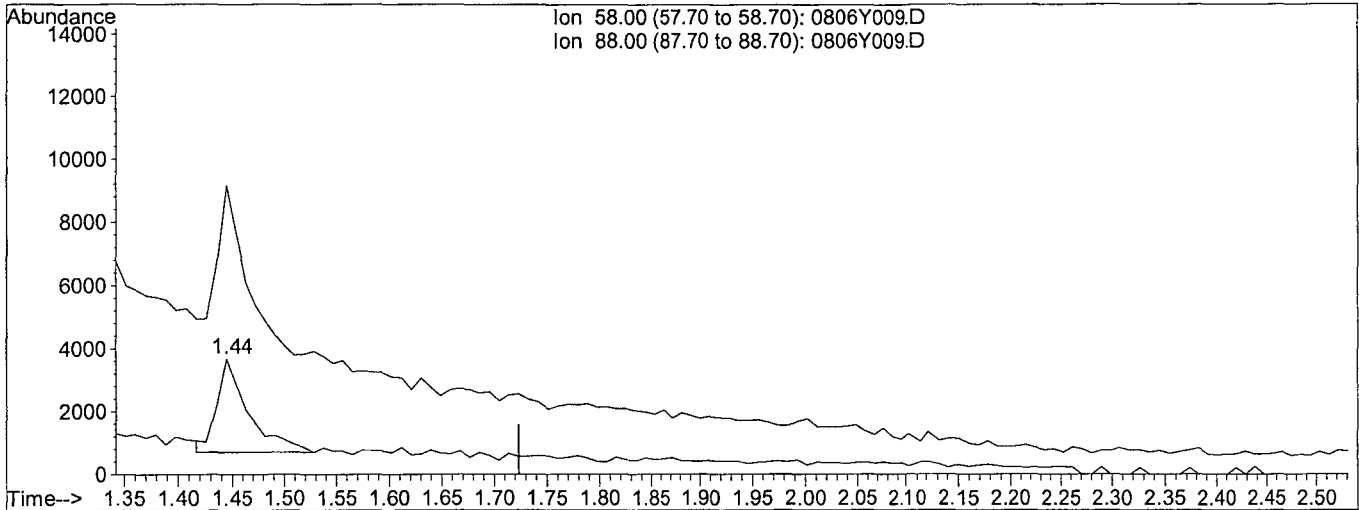


Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y009.D
 Acq On : 6 Aug 19 14:05
 Sample : 60ug/ml 8270 08/06/19
 Misc :
 Quant Time: Aug 11 12:56 2019

Vial: 9
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Multiple Level Calibration



TIC: 0806Y009.D

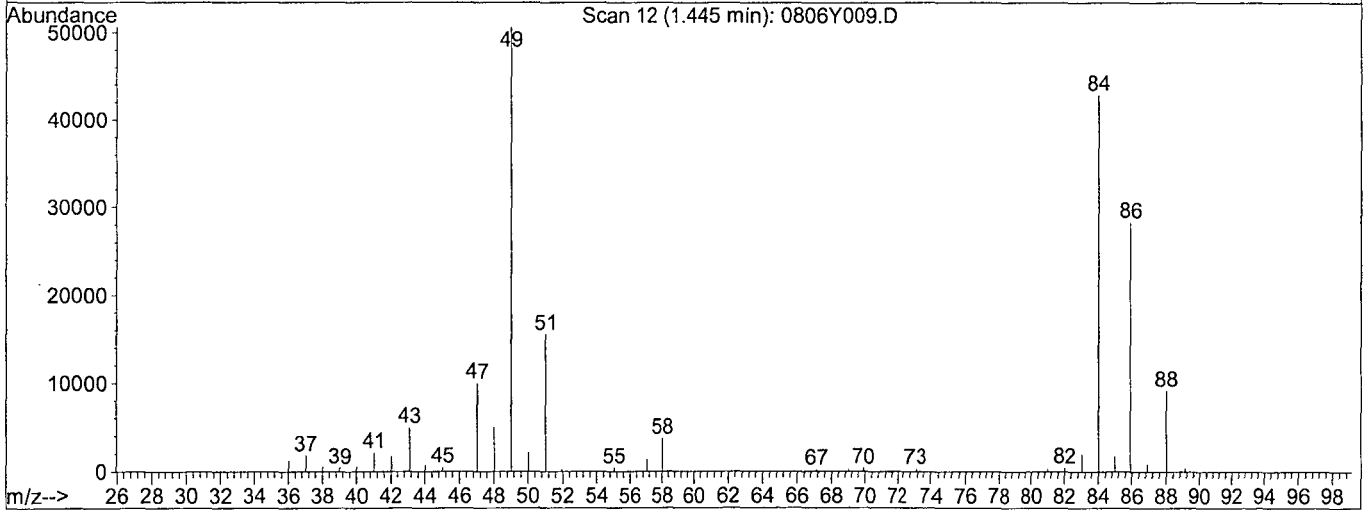
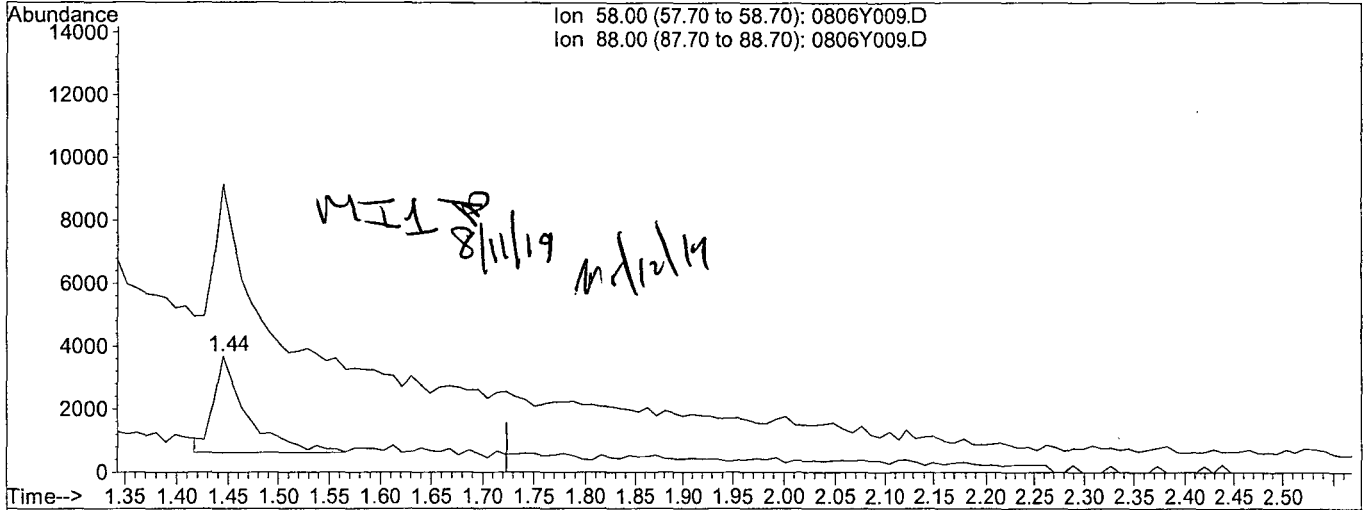
(2) 1,4-Dioxane		
1.44min	10.2624	
response	6106	
Ion	Exp%	Act%
58.00	100	100
88.00	197.60	394.66#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y009.D
Acq On : 6 Aug 19 14:05
Sample : 60ug/ml 8270 08/06/19
Misc :
Quant Time: Aug 7 11:37 2019

Vial: 9
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00
Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 23 08:49:48 2019
Response via : Multiple Level Calibration



TIC: 0806Y009.D

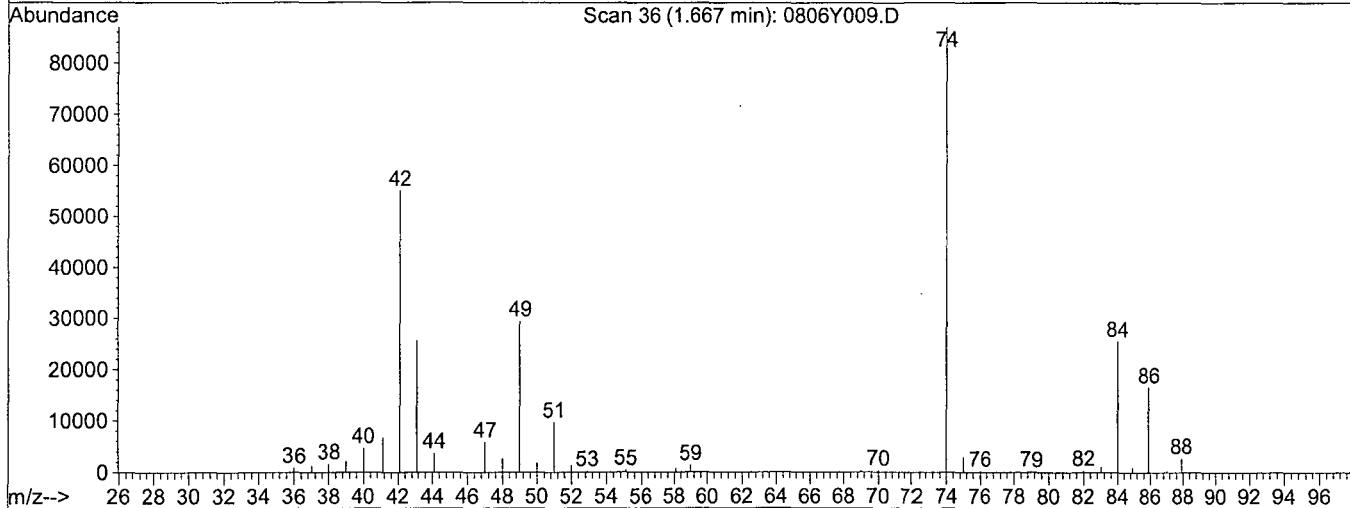
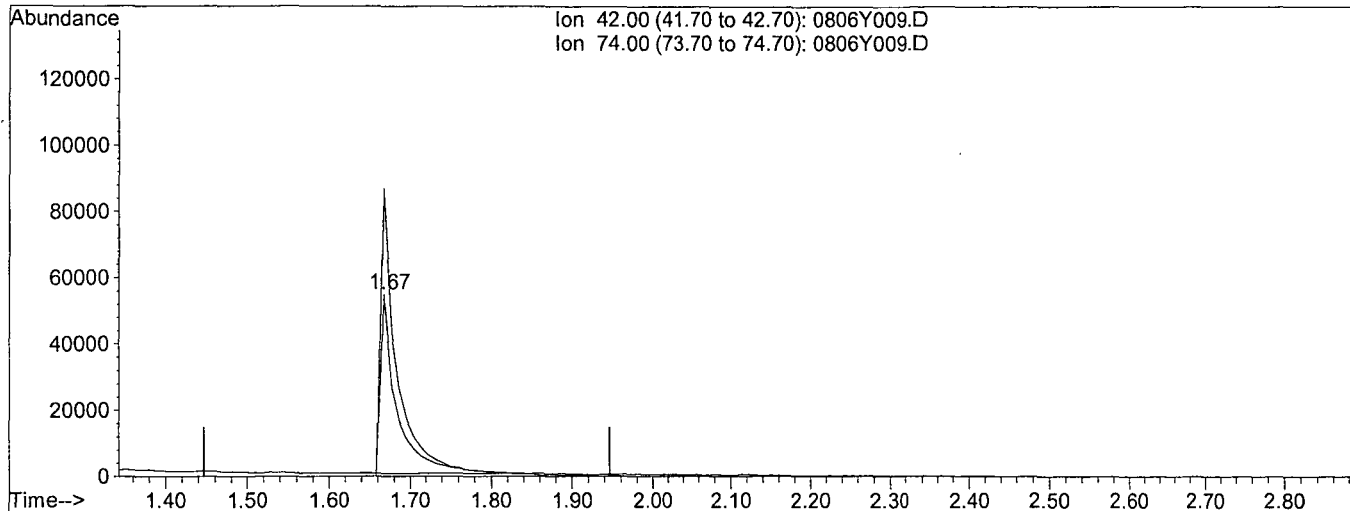
(2) 1,4-Dioxane		
1.44min	11.8557 m	
response	7054	
Ion	Exp%	Act%
58.00	100	100
88.00	197.60	341.62#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y009.D
 Acq On : 6 Aug 19 14:05
 Sample : 60ug/ml 8270 08/06/19
 Misc :
 Quant Time: Aug 11 12:56 2019

Vial: 9
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Multiple Level Calibration



TIC: 0806Y009.D

(3) n-Nitrosodimethylamine (TM)

1.67min 73.8292ppb

response 78035

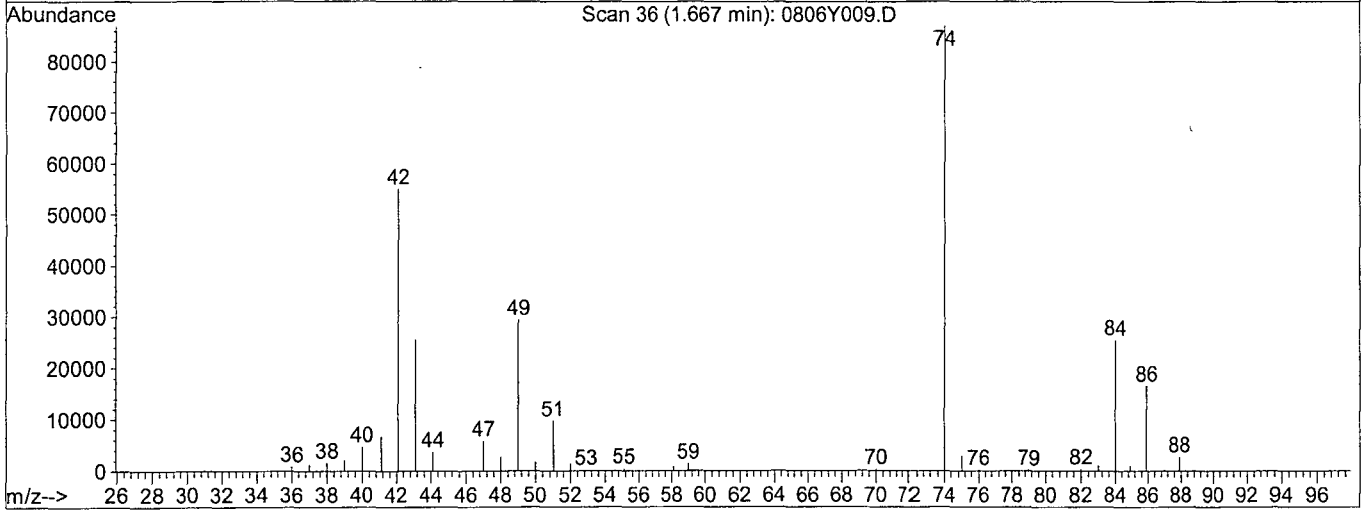
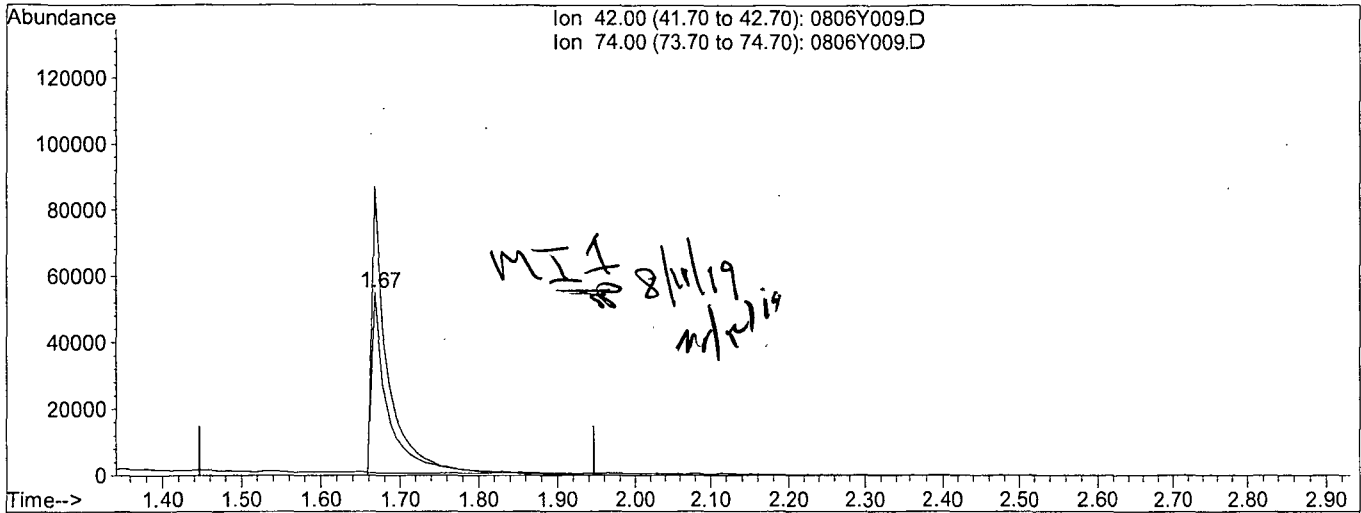
Ion	Exp%	Act%
42.00	100	100
74.00	140.40	160.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y009.D
 Acq On : 6 Aug 19 14:05
 Sample : 60ug/ml 8270 08/06/19
 Misc :
 Quant Time: Aug 7 11:37 2019

Vial: 9
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Multiple Level Calibration



TIC: 0806Y009.D

(3) n-Nitrosodimethylamine (TM)

1.67min 76.1131ppb m

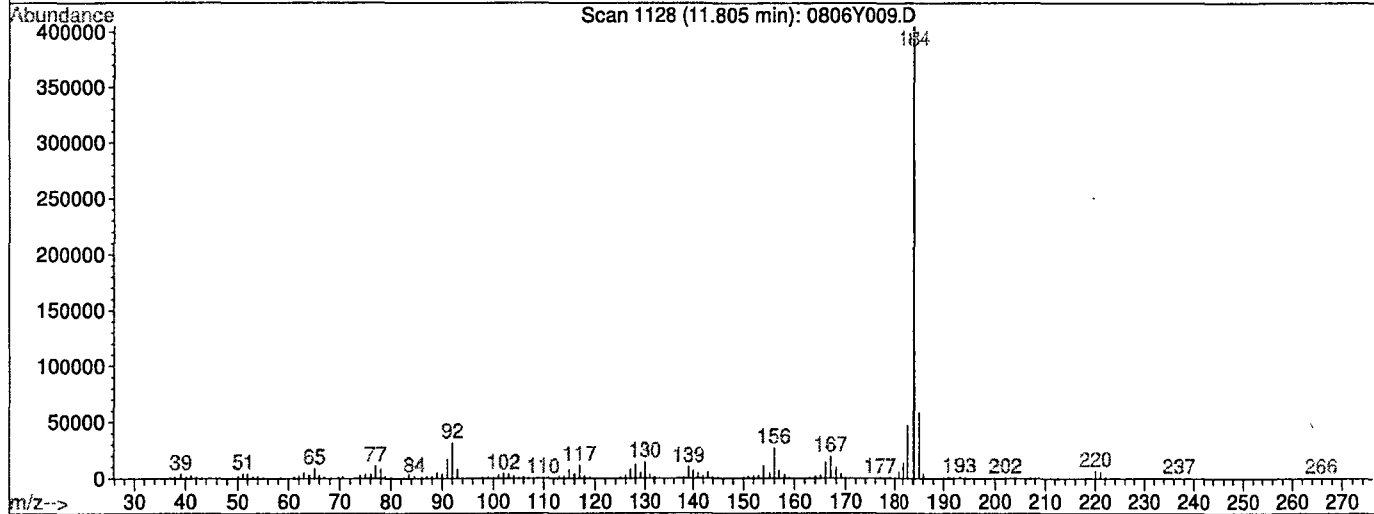
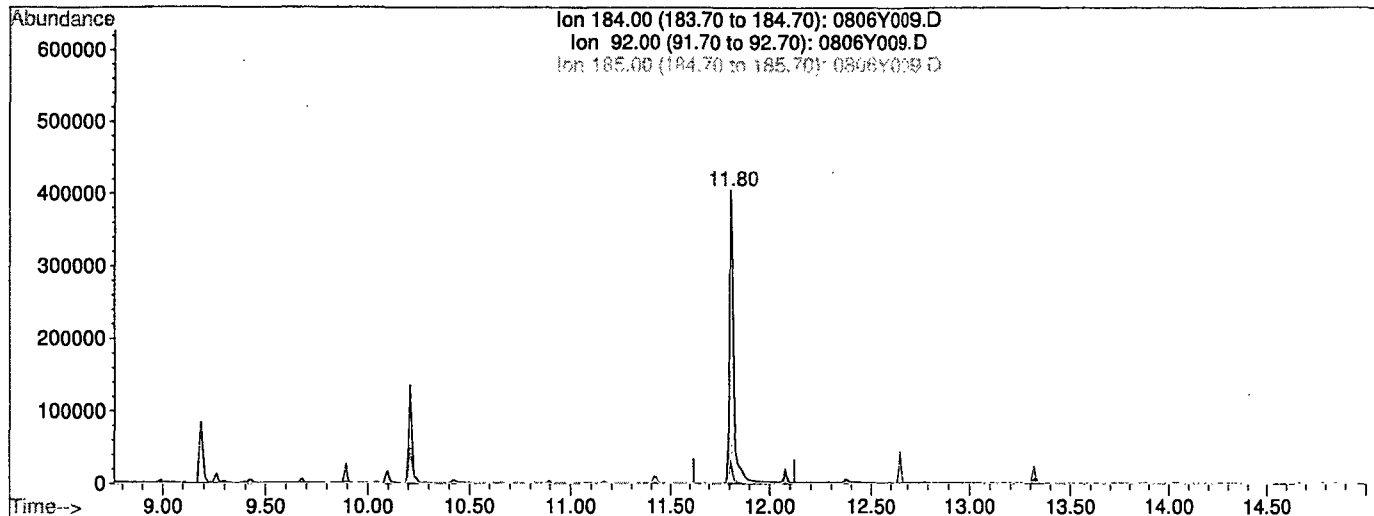
response 80449

Ion	Exp%	Act%
42.00	100	100
74.00	140.40	157.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y009.D Vial: 9
 Acq On : 6 Aug 19 14:05 Operator: MA,SS
 Sample : 60ug/ml 8270 08/06/19 Inst : Yoda
 Misc : Multiplr: 1.00
 Quant Time: Aug 6 15:56 2019 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Aug 07 11:32:51 2019
 Response via : Multiple Level Calibration



TIC: 0806Y009.D

(80) Benzidine (TM)

11.80min 67.4285ppb

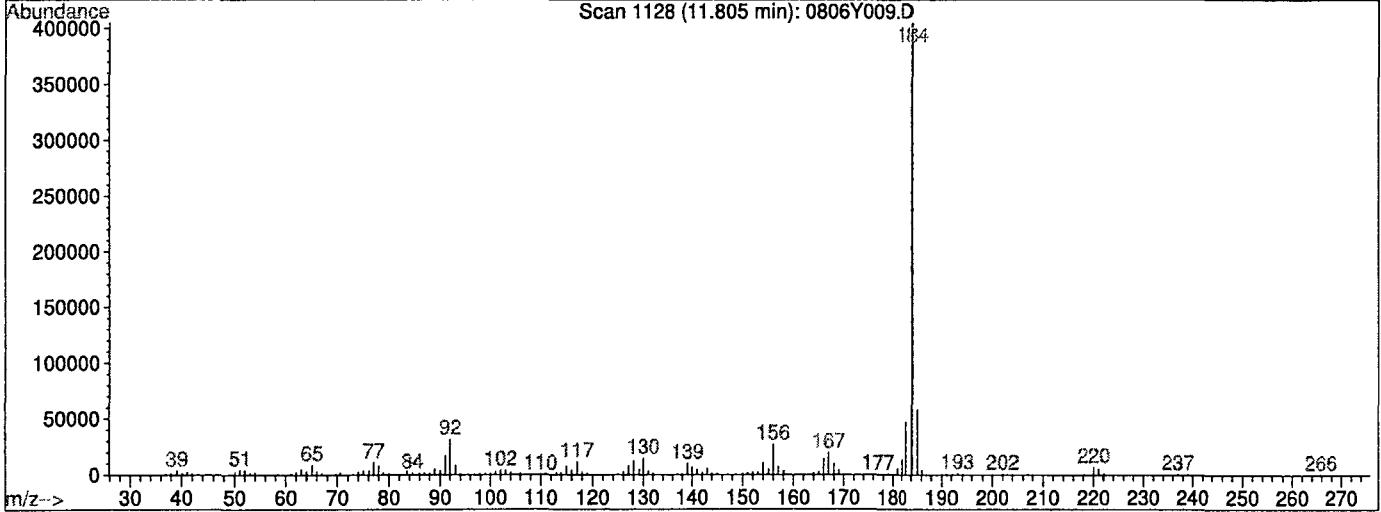
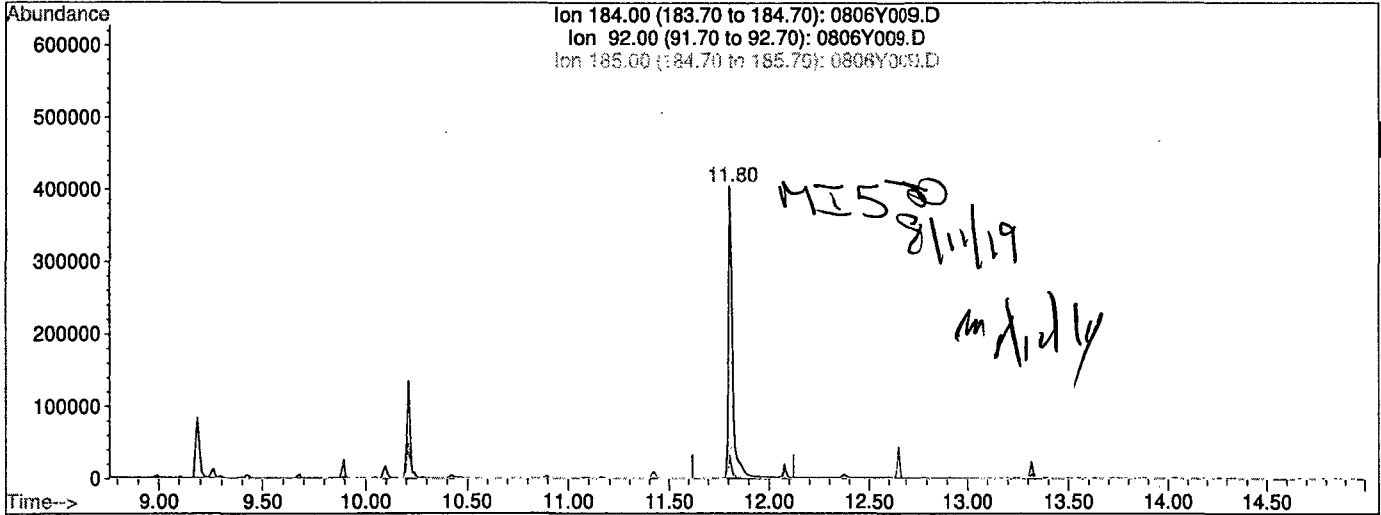
response 567755

Ion	Exp%	Act%
184.00	100	100
92.00	7.00	7.82
185.00	14.60	14.39
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y009.D Vial: 9
 Acq On : 6 Aug 19 14:05 Operator: MA,SS
 Sample : 60ug/ml 8270 08/06/19 Inst : Yoda
 Misc : Multiplr: 1.00
 Quant Time: Aug 7 11:37 2019 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Aug 07 11:32:51 2019
 Response via : Multiple Level Calibration



TIC: 0806Y009.D

(80) Benzidine (TM)		
11.80min	67.4846ppb m	
response	568227	
Ion	Exp%	Act%
184.00	100	100
92.00	7.00	7.82
185.00	14.60	14.39
0.00	0.00	0.00

Data File : M:\YODA\DATA\Y190806\0806Y010.D Vial: 10
 Acq On : 6 Aug 19 14:33 Operator: MA, SS
 Sample : 80ug/ml 8270 08/06/19 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Aug 7 12:15 2019 Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.96	152	208282	40.00000	ppb	-0.05
21) Napthalene-D8 (IS)	6.42	136	828169	40.00000	ppb	-0.06
41) Acenaphthene-D10 (IS)	8.46	164	474776	40.00000	ppb	-0.06
65) Phenanthrene-D10 (IS)	10.21	188	977367	40.00000	ppb	-0.06
79) Chrysene-D12 (IS)	13.33	240	863871	40.00000	ppb	-0.06
89) Perylene-D12 (IS)	15.05	264	1081628	40.00000	ppb	-0.08

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol (S)	3.33	112	1161009	168.15845	ppb	-0.06
Spiked Amount 200.000			Recovery =	84.079%		
6) Phenol-D6 (S)	4.59	99	1215549	167.51708	ppb	-0.04
Spiked Amount 200.000			Recovery =	83.759%		
22) Nitrobenzene-D5 (S)	5.62	82	508959	79.04226	ppb	-0.05
Spiked Amount 100.000			Recovery =	79.042%		
46) 2-Fluorobiphenyl (S)	7.68	172	1429184	85.73198	ppb	-0.05
Spiked Amount 100.000			Recovery =	85.732%		
64) 2,4,6-Tribromophenol (S)	9.41	330	568741	222.27386	ppb	-0.05
Spiked Amount 200.000			Recovery =	111.137%		
82) Terphenyl-D14 (S)	12.08	244	1941827	89.62088	ppb	-0.06
Spiked Amount 100.000			Recovery =	89.621%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.45	58	10192	19.08525		# 1
3) n-Nitrosodimethylamine	1.67	42	122205	128.81673	ppb	84
4) Pyridine	1.68	79	368222	157.46371	ppb	93
7) Phenol	4.60	94	832500	87.15644	ppb	92
8) Aniline	4.59	93	812659	87.09783	ppb	# 77
9) Bis (2-chloroethyl) ether	4.68	63	318065	77.93316	ppb	83
10) 2-Chlorophenol	4.72	128	713926	92.90654	ppb	99
11) 1,3-DCB	4.89	146	807590	93.20194	ppb	99
12) 1,4-DCB	4.98	146	816320	93.94221	ppb	99
13) Benzyl alcohol	5.16	108	392538	92.46410	ppb	96
14) 1,2-DCB	5.15	146	751189	93.60401	ppb	99
15) 2-Methylphenol	5.30	107	556115	91.25533	ppb	96
16) Bis (2-chloroisopropyl) et	5.29	45	460183	71.90885	ppb	# 67
17) Acetophenone	5.46	105	826306	91.50120	ppb	93
18) 3&4-Methylphenol	5.48	107	1296503	179.38565	ppb	99
19) n-Nitrosodi-n-propylamine	5.46	70	378412	87.46029	ppb	94
20) Hexachloroethane	5.52	117	258847	88.94718	ppb	91
23) Nitrobenzene	5.64	77	562368	83.22293	ppb	99
24) Isophorone	5.92	82	1046618	87.72111	ppb	93
25) 2-Nitrophenol	6.00	139	432793	100.30515	ppb	95
26) 2,4-Dimethylphenol	6.07	122	622665	93.12125	ppb	97
27) Benzoic acid	6.30	105	407038	95.47796	ppb	94
28) Bis (2-chloroethoxy) metha	6.16	93	676373	86.30545	ppb	99
29) 2,4-Dichlorophenol	6.29	162	621907	97.53461	ppb	99
30) 1,2,4-Trichlorobenzene	6.37	180	679904	96.29697	ppb	99
31) 3,4-Dimethylphenol	6.41	107	789087	92.08494	ppb	97
32) Naphthalene	6.45	128	1986723	92.38882	ppb	100
33) 4-Chloroaniline	6.54	127	711071	88.59702	ppb	# 94
34) 2,6-Dichlorophenol	6.54	162	563587	93.46896	ppb	99
35) Hexachloropropene	6.53	213	418356	105.32604	ppb	98
36) Hexachlorobutadiene	6.58	225	389878	100.55630	ppb	99
37) Caprolactum	7.01	55	202501	81.61597	ppb	# 88

Data File : M:\YODA\DATA\Y190806\0806Y010.D
 Acq On : 6 Aug 19 14:33
 Sample : 80ug/ml 8270 08/06/19
 Misc :

Vial: 10
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 7 12:15 2019

Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.13	107	595968	96.33312	ppb	94
39) 2-Methylnaphthalene	7.25	142	1359805	94.20798	ppb	99
40) 1-Methylnaphthalene	7.37	142	1387530	93.10157	ppb	98
42) Hexachlorocyclopentadiene	7.41	237	200663m	94.76264	ppb	98
43) 1,2,4,5-Tetrachlorobenzene	7.45	216	703536	95.30534	ppb	97
44) 2,4,6-Trichlorophenol	7.60	196	454519	98.93529	ppb	99
45) 2,4,5-Trichlorophenol	7.67	196	475462	97.52439	ppb	98
47) 1,1'-Biphenyl	7.80	154	1752300	87.84229	ppb	98
48) 2-Chloronaphthalene	7.82	162	1385935	90.20235	ppb	99
49) 2-Nitroaniline	7.97	65	298595	81.24560	ppb	90
50) Dimethyl phthalate	8.17	163	1659449	92.72876	ppb	98
51) 2,6-DNT	8.26	165	416281	97.34091	ppb	94
52) Acenaphthylene	8.31	152	2181932	90.95375	ppb	99
53) 3-Nitroaniline	8.46	138	404538	91.04724	ppb	82
54) Acenaphthene	8.50	154	1343956	88.48433	ppb	99
55) 2,4-Dinitrophenol	8.61	184	206167	84.91340	ppb	93
56) 4-Nitrophenol	8.71	65	162609	85.86926	ppb	92
57) Dibenzofuran	8.71	168	1984072	89.64043	ppb	94
58) 2,4-DNT	8.74	165	556075	97.47269	ppb	# 74
59) 2,3,4,6-Tetrachlorophenol	8.87	232	400969	105.89435	ppb	95
60) Diethyl phthalate	9.00	149	1529812	90.81174	ppb	96
61) 4-Chlorophenyl phenyl ethe	9.10	204	808353	90.84674	ppb	94
62) Fluorene	9.11	166	1538413	89.54883	ppb	100
63) 4-Nitroaniline	9.20	138	385156	90.24893	ppb	91
66) 4,6-Dinitro-2-methylphenol	9.23	198	383320	106.78937	ppb	97
67) Diphenyl amine	9.27	169	2440528	173.73950	ppb	100
68) n-Nitrosodiphenylamine	9.27	169	2440528	173.73950	ppb	100
69) 1,2-Diphenylhydrazine	9.30	77	1333687	83.99581	ppb	# 84
70) 4-Bromophenyl phenyl ether	9.68	248	558997	99.58349	ppb	96
71) Hexachlorobenzene	9.75	284	604475	103.64562	ppb	# 84
72) Atrazine	9.90	200	257901	49.39346	ppb	98
73) Pentachlorophenol	10.00	266	234094	124.03505	ppb	98
74) Phenanthrene	10.24	178	2366300	87.84593	ppb	99
75) Anthracene	10.30	178	2482256	89.70606	ppb	100
76) Carbazol	10.51	167	2295988	89.29329	ppb	98
77) Di-n-butylphthalate	10.90	149	2593870	89.91971	ppb	100
78) Fluoranthene	11.64	202	2688276	91.13134	ppb	98
80) Benzidine	11.81	184	794505m	102.61686	ppb	98
81) Pyrene	11.91	202	2809511	92.02741	ppb	99
83) Butyl benzylphthalate	12.66	149	1215587	95.41909	ppb	90
84) 3,3'-Dichlorobenzidine	13.28	252	876387	99.38449	ppb	98
85) Benz (a) anthracene	13.31	228	2616485	93.01888	ppb	99
86) Bis (2-ethylhexyl) phthala	13.32	149	1481521	94.03867	ppb	# 94
87) Chrysene	13.36	228	2660045	95.85112	ppb	100
88) Di-n-octylphthalate	14.04	149	2904132	99.94748	ppb	99
90) Benzo (b) fluoranthene	14.55	252	3316103	101.24337	ppb	97
91) Benzo (k) fluoranthene	14.58	252	2453499	75.59194	ppb	99
92) Benzo (a) pyrene	14.98	252	2822242	91.97463	ppb	97
93) Indeno (1,2,3-cd) pyrene	16.77	276	3318262	94.36206	ppb	96
94) Dibenz (a,h) anthracene	16.78	278	2905722	96.03640	ppb	97
95) Benzo (g,h,i) perylene	17.27	276	2745234	98.93392	ppb	97

Quantitation Report

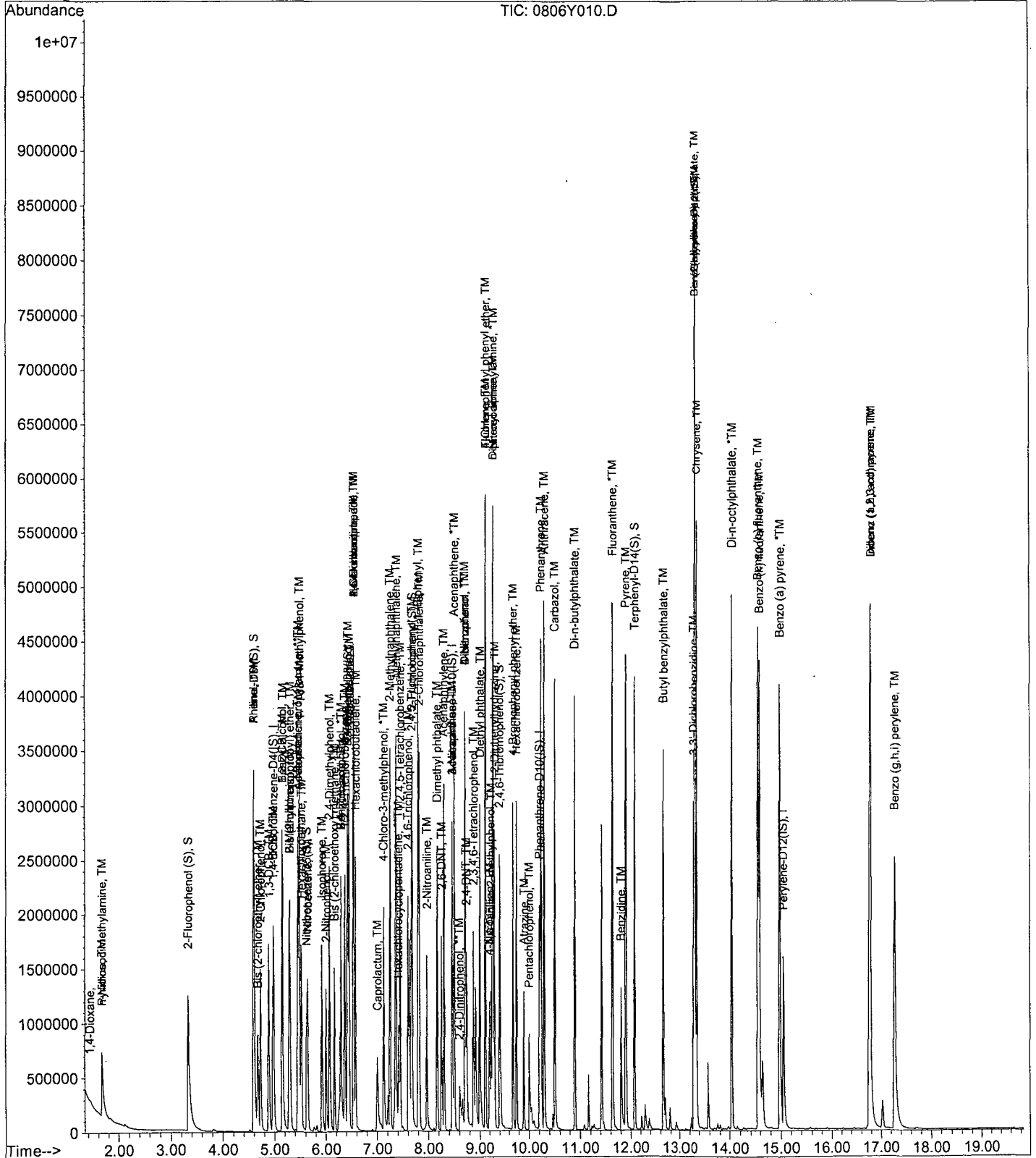
Data File : M:\YODA\DATA\Y190806\0806Y010.D
Acq On : 6 Aug 19 14:33
Sample : 80ug/ml 8270 08/06/19
Misc :

Vial: 10
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Aug 7 12:15 2019

Quant Results File: Y0806NC.RES

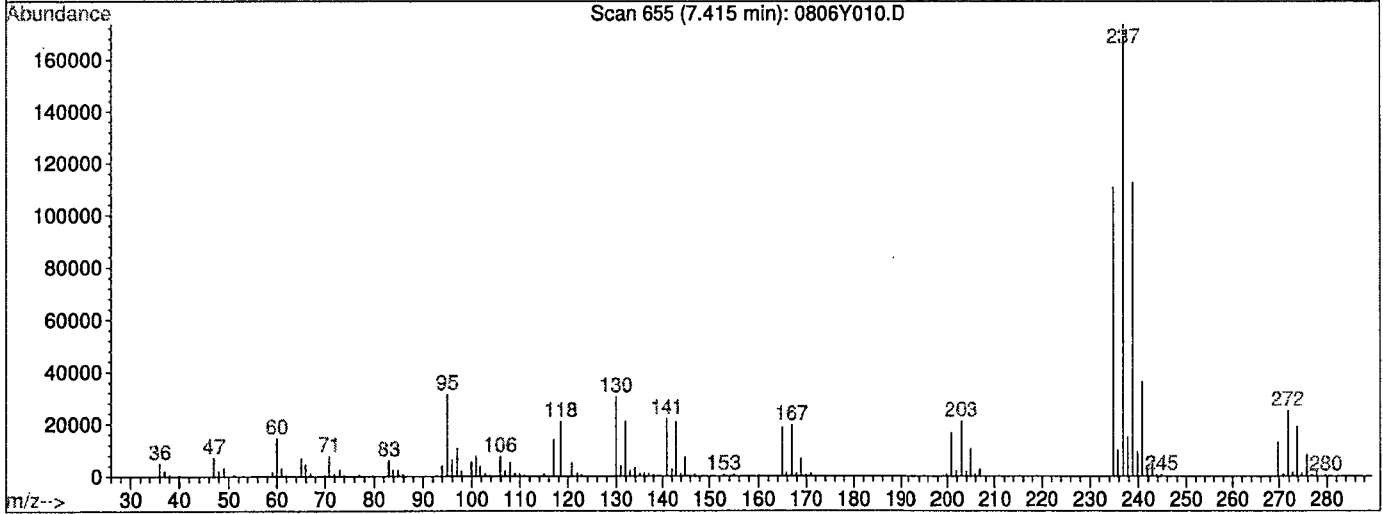
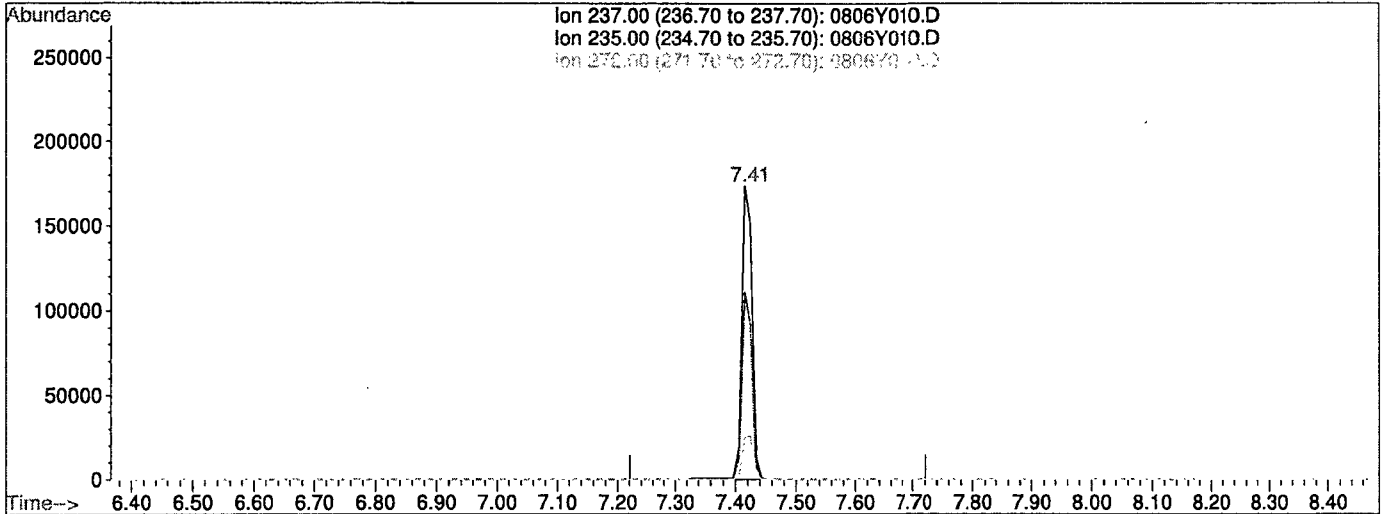
Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Aug 08 11:05:08 2019
Response via : Initial Calibration



Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y010.D Vial: 10
 Acq On : 6 Aug 19 14:33 Operator: MA,SS
 Sample : 80ug/ml 8270 08/06/19 Inst : Yoda
 Misc : Multiplr: 1.00
 Quant Time: Aug 6 14:42 2019 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Aug 07 11:14:27 2019
 Response via : Multiple Level Calibration



TIC: 0806Y010.D

(42) Hexachlorocyclopentadiene (**TM)

7.41min 94.5173ppb

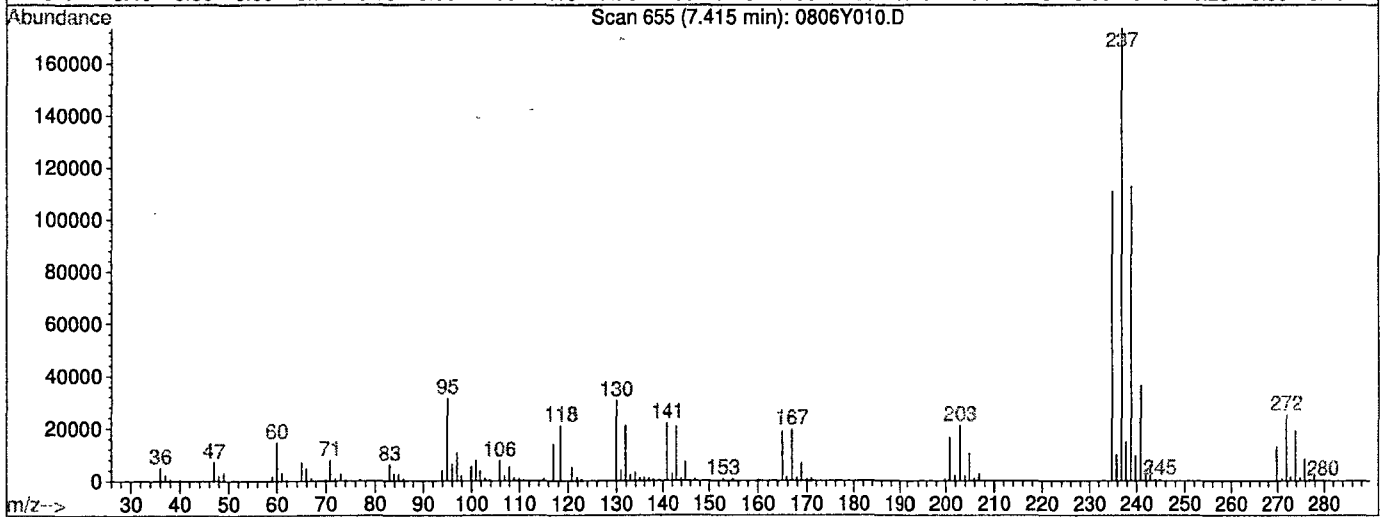
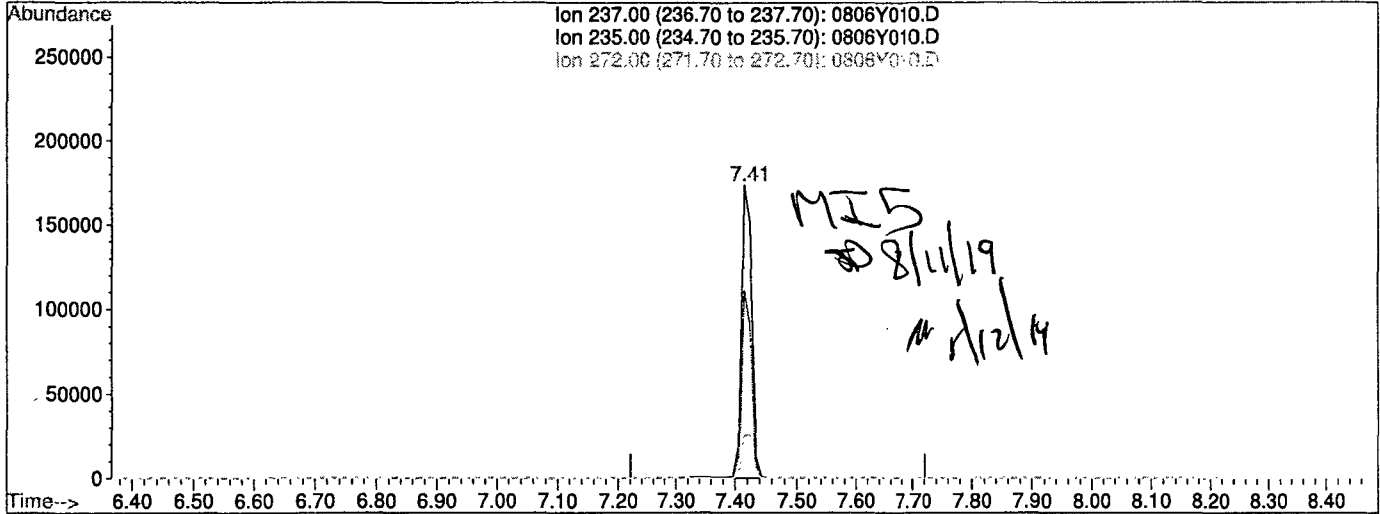
response 199710

Ion	Exp%	Act%
237.00	100	100
235.00	62.60	63.86
272.00	13.80	14.44
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y010.D Vial: 10
 Acq On : 6 Aug 19 14:33 Operator: MA,SS
 Sample : 80ug/ml 8270 08/06/19 Inst : Yoda
 Misc : Multiplr: 1.00
 Quant Time: Aug 7 11:17 2019 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Aug 07 11:14:27 2019
 Response via : Multiple Level Calibration



TIC: 0806Y010.D

(42) Hexachlorocyclopentadiene (**TM)

7.41min 94.7626ppb m

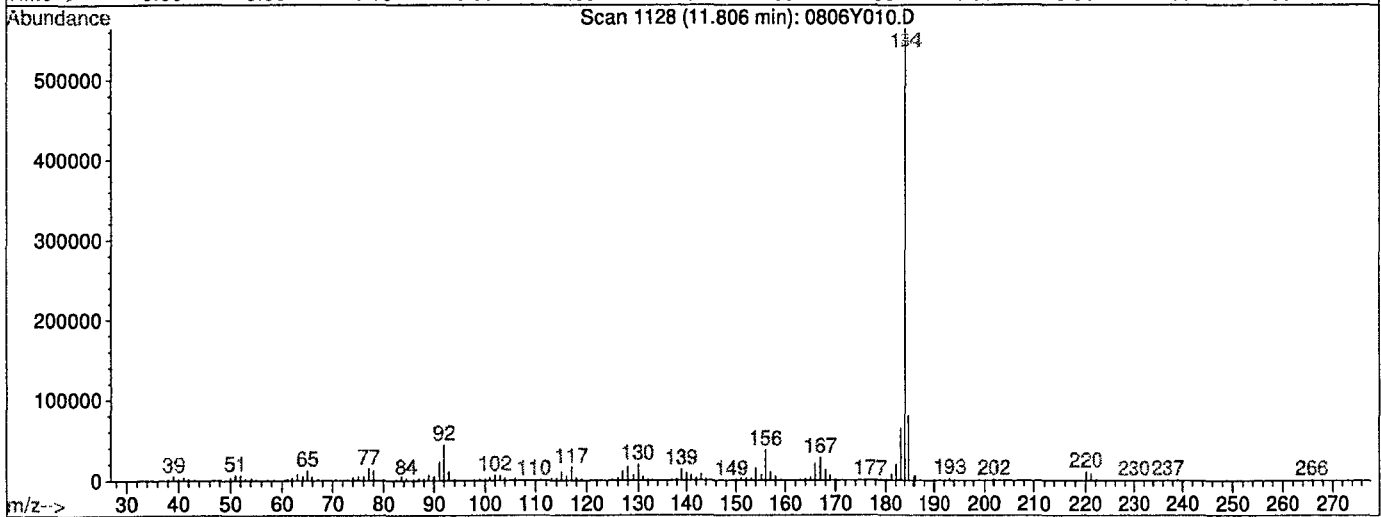
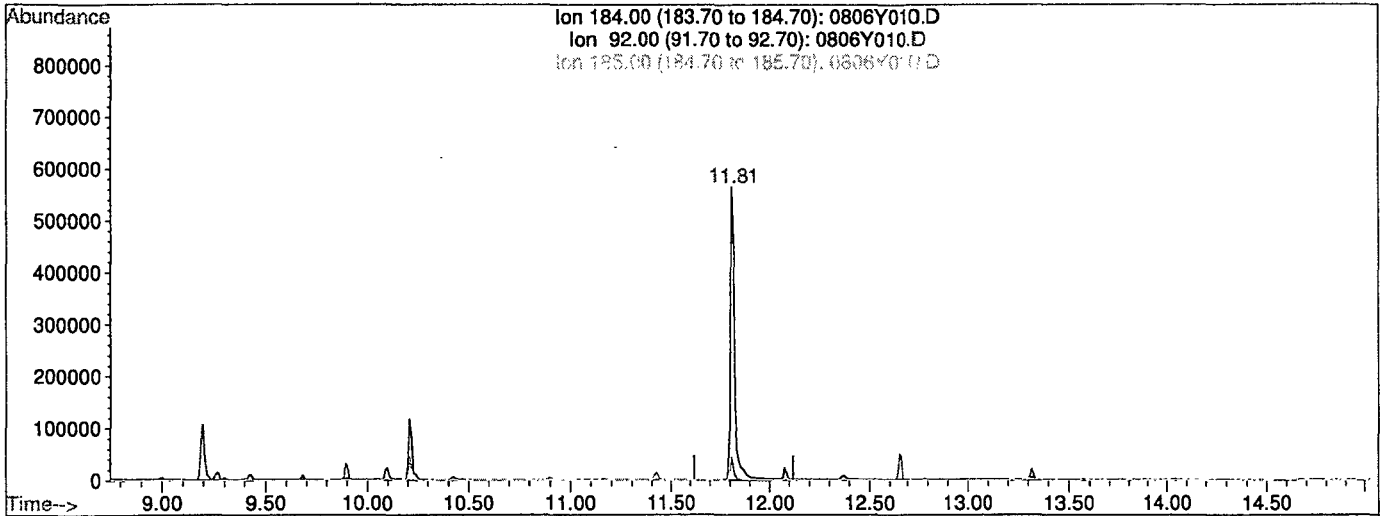
response 200663

Ion	Exp%	Act%
237.00	100	100
235.00	62.60	63.86
272.00	13.80	14.44
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y010.D Vial: 10
 Acq On : 6 Aug 19 14:33 Operator: MA,SS
 Sample : 80ug/ml 8270 08/06/19 Inst : Yoda
 Misc : Multiplr: 1.00
 Quant Time: Aug 7 11:17 2019 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Aug 07 12:06:44 2019
 Response via : Multiple Level Calibration



TIC: 0806Y010.D

(80) Benzidine (TM)

11.81min 103.7794ppb

response 803506

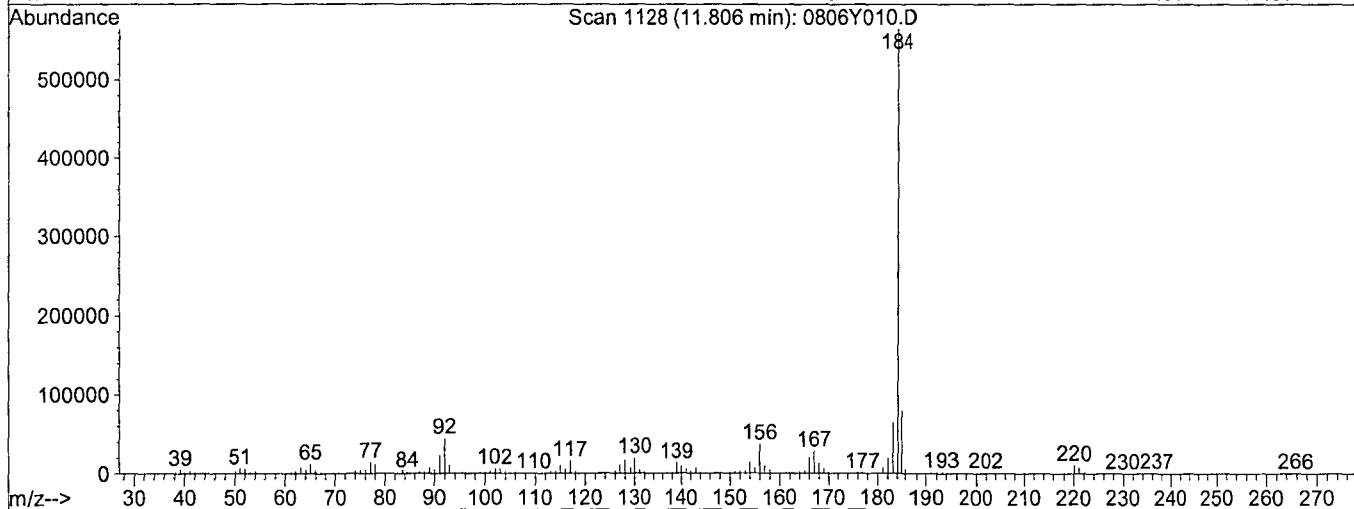
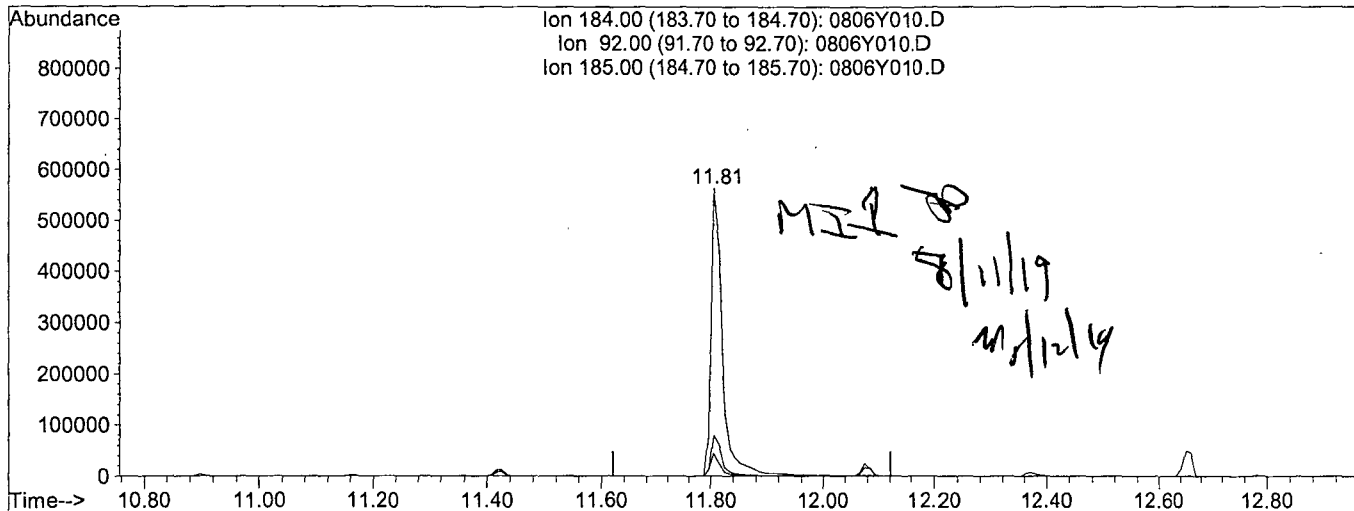
Ion	Exp%	Act%
184.00	100	100
92.00	7.00	7.80
185.00	14.60	14.10
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y010.D
 Acq On : 6 Aug 19 14:33
 Sample : 80ug/ml 8270 08/06/19
 Misc :
 Quant Time: Aug 7 12:15 2019

Vial: 10
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Multiple Level Calibration



TIC: 0806Y010.D

(80) Benzidine (TM)

11.81min 102.6169ppb m
 response 794505

Ion	Exp%	Act%
184.00	100	100
92.00	7.00	7.80
185.00	14.60	14.10
0.00	0.00	0.00

Data File : M:\YODA\DATA\Y190806\0806Y011.D
 Acq On : 6 Aug 19 15:00
 Sample : 100ug/ml 8270 08/06/19
 Misc :

Vial: 11
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 6 15:17 2019

Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.96	152	216247	40.00000	ppb	-0.06
21) Naphthalene-D8 (IS)	6.43	136	863343	40.00000	ppb	-0.05
41) Acenaphthene-D10 (IS)	8.46	164	517154	40.00000	ppb	-0.06
65) Phenanthrene-D10 (IS)	10.21	188	1072970	40.00000	ppb	-0.06
79) Chrysene-D12 (IS)	13.33	240	927584	40.00000	ppb	-0.06
89) Perylene-D12 (IS)	15.05	264	1196966	40.00000	ppb	-0.08

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.33	112	1476300	205.94886	ppb	-0.06
Spiked Amount 200.000			Recovery = 102.975%			
6) Phenol-D6 (S)	4.59	99	1521853	202.00447	ppb	-0.04
Spiked Amount 200.000			Recovery = 101.002%			
22) Nitrobenzene-D5 (S)	5.62	82	637278	94.93822	ppb	-0.05
Spiked Amount 100.000			Recovery = 94.938%			
46) 2-Fluorobiphenyl (S)	7.68	172	1764442	97.16972	ppb	-0.05
Spiked Amount 100.000			Recovery = 97.170%			
64) 2,4,6-Tribromophenol (S)	9.41	330	706732	253.56977	ppb	-0.05
Spiked Amount 200.000			Recovery = 126.785%			
82) Terphenyl-D14 (S)	12.08	244	2376920	102.16658	ppb	-0.06
Spiked Amount 100.000			Recovery = 102.167%			

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.45	58	13294	23.97705		71
3) n-Nitrosodimethylamine	1.66	42	156149	158.53464	ppb	96
4) Pyridine	1.67	79	448444	184.70583	ppb	97
7) Phenol	4.61	94	968531	97.66308	ppb #	74
8) Aniline	4.59	93	954363	98.51769	ppb #	75
9) Bis (2-chloroethyl) ether	4.68	63	378207	89.25604	ppb	85
10) 2-Chlorophenol	4.72	128	832333	104.32584	ppb	99
11) 1,3-DCB	4.89	146	945865	105.13924	ppb	99
12) 1,4-DCB	4.97	146	952013	105.52244	ppb	98
13) Benzyl alcohol	5.16	108	461193	104.63472	ppb	97
14) 1,2-DCB	5.15	146	884903	106.20441	ppb	100
15) 2-Methylphenol	5.30	107	648953	102.56721	ppb	96
16) Bis (2-chloroisopropyl) et	5.29	45	537688	80.92519	ppb #	70
17) Acetophenone	5.46	105	961427	102.54249	ppb	95
18) 3&4-Methylphenol	5.48	107	1509370	201.14606	ppb	97
19) n-Nitrosodi-n-propylamine	5.46	70	441835	98.35756	ppb	96
20) Hexachloroethane	5.52	117	303431	100.42704	ppb	92
23) Nitrobenzene	5.64	77	662128	93.99396	ppb	100
24) Isophorone	5.92	82	1222557	98.29255	ppb	96
25) 2-Nitrophenol	6.00	139	512902	114.02839	ppb	95
26) 2,4-Dimethylphenol	6.07	122	730405	104.78368	ppb	98
27) Benzoic acid	6.31	105	524694	118.06192	ppb	96
28) Bis (2-chloroethoxy) metha	6.17	93	794445	97.24145	ppb	97
29) 2,4-Dichlorophenol	6.29	162	722529	108.69866	ppb	100
30) 1,2,4-Trichlorobenzene	6.37	180	797528	108.35441	ppb	98
31) 3,4-Dimethylphenol	6.42	107	926489	103.71453	ppb	98
32) Naphthalene	6.45	128	2285654	101.95962	ppb	100
33) 4-Chloroaniline	6.54	127	779618	93.18019	ppb #	95
34) 2,6-Dichlorophenol	6.54	162	651221	103.60255	ppb	99
35) Hexachloropropene	6.54	213	485086	117.15048	ppb	99
36) Hexachlorobutadiene	6.58	225	455757	112.75856	ppb	99
37) Caprolactum	7.02	55	236140	91.29629	ppb #	88

Data File : M:\YODA\DATA\Y190806\0806Y011.D
 Acq On : 6 Aug 19 15:00
 Sample : 100ug/ml 8270 08/06/19
 Misc :

Vial: 11
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 6 15:17 2019

Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 23 08:49:48 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.13	107	692656	107.40039	ppb	97
39) 2-Methylnaphthalene	7.25	142	1585721	105.38370	ppb	98
40) 1-Methylnaphthalene	7.37	142	1604014	103.24246	ppb	99
42) Hexachlorocyclopentadiene	7.42	237	259757	104.08832	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.45	216	815187	101.38111	ppb	99
44) 2,4,6-Trichlorophenol	7.60	196	533312	106.57354	ppb	99
45) 2,4,5-Trichlorophenol	7.67	196	547720	103.13947	ppb	100
47) 1,1'-Biphenyl	7.81	154	2021932	93.05305	ppb	98
48) 2-Chloronaphthalene	7.82	162	1605444	95.92659	ppb	100
49) 2-Nitroaniline	7.97	65	352266	87.99478	ppb	97
50) Dimethyl phthalate	8.18	163	1926182	98.81360	ppb	100
51) 2,6-DNT	8.26	165	482735	103.63023	ppb	99
52) Acenaphthylene	8.31	152	2537254	97.09844	ppb	100
53) 3-Nitroaniline	8.46	138	457596	94.54935	ppb	86
54) Acenaphthene	8.50	154	1559107	94.23801	ppb	98
55) 2,4-Dinitrophenol	8.61	184	254878	94.57691	ppb	91
56) 4-Nitrophenol	8.71	65	189719	91.97565	ppb	81
57) Dibenzofuran	8.71	168	2343041	97.18411	ppb	94
58) 2,4-DNT	8.74	165	650114	104.61838	ppb	# 79
59) 2,3,4,6-Tetrachlorophenol	8.87	232	471397	114.29248	ppb	98
60) Diethyl phthalate	9.00	149	1772156	96.57723	ppb	97
61) 4-Chlorophenyl phenyl ethe	9.11	204	940634	97.05052	ppb	96
62) Fluorene	9.11	166	1743262	93.15765	ppb	99
63) 4-Nitroaniline	9.21	138	451101	97.03939	ppb	# 86
66) 4,6-Dinitro-2-methylphenol	9.23	198	449676	114.11332	ppb	89
67) Diphenyl amine	9.27	169	2754186	178.59863	ppb	99
68) n-Nitrosodiphenylamine	9.27	169	2754186	178.59863	ppb	99
69) 1,2-Diphenylhydrazine	9.30	77	1531664	87.86933	ppb	# 86
70) 4-Bromophenyl phenyl ether	9.68	248	656992	106.61247	ppb	93
71) Hexachlorobenzene	9.75	284	710567	110.98077	ppb	# 86
72) Atrazine	9.90	200	295188	51.49739	ppb	99
73) Pentachlorophenol	10.01	266	288656	139.31723	ppb	99
74) Phenanthrene	10.24	178	2749373	92.97273	ppb	100
75) Anthracene	10.30	178	2846234	93.69489	ppb	100
76) Carbazol	10.51	167	2659374	94.21037	ppb	98
77) Di-n-butylphthalate	10.90	149	3044786	96.14651	ppb	100
78) Fluoranthene	11.64	202	3095288	95.57957	ppb	99
80) Benzidine	11.81	184	901786	108.47289	ppb	99
81) Pyrene	11.91	202	3237453	98.76103	ppb	100
83) Butyl benzylphthalate	12.66	149	1432940	104.75455	ppb	90
84) 3,3'-Dichlorobenzidine	13.28	252	990638	104.62448	ppb	99
85) Benz (a) anthracene	13.31	228	3059062	101.28305	ppb	100
86) Bis (2-ethylhexyl) phthala	13.32	149	1705894	100.84314	ppb	# 94
87) Chrysene	13.36	228	2946472	98.87948	ppb	100
88) Di-n-octylphthalate	14.04	149	3312115	106.15893	ppb	100
90) Benzo (b) fluoranthene	14.55	252	3673765	101.35521	ppb	98
91) Benzo (k) fluoranthene	14.59	252	3012905	83.88246	ppb	98
92) Benzo (a) pyrene	14.98	252	3237385	95.33761	ppb	97
93) Indeno (1,2,3-cd) pyrene	16.78	276	3864101	99.29590	ppb	97
94) Dibenz (a,h) anthracene	16.78	278	3404527	101.67980	ppb	97
95) Benzo (g,h,i) perylene	17.28	276	3224401	105.00525	ppb	96

(#) = qualifier out of range (m) = manual integration
 0806Y011.D Y0806NC.M Thu Aug 08 13:00:39 2019

Quantitation Report

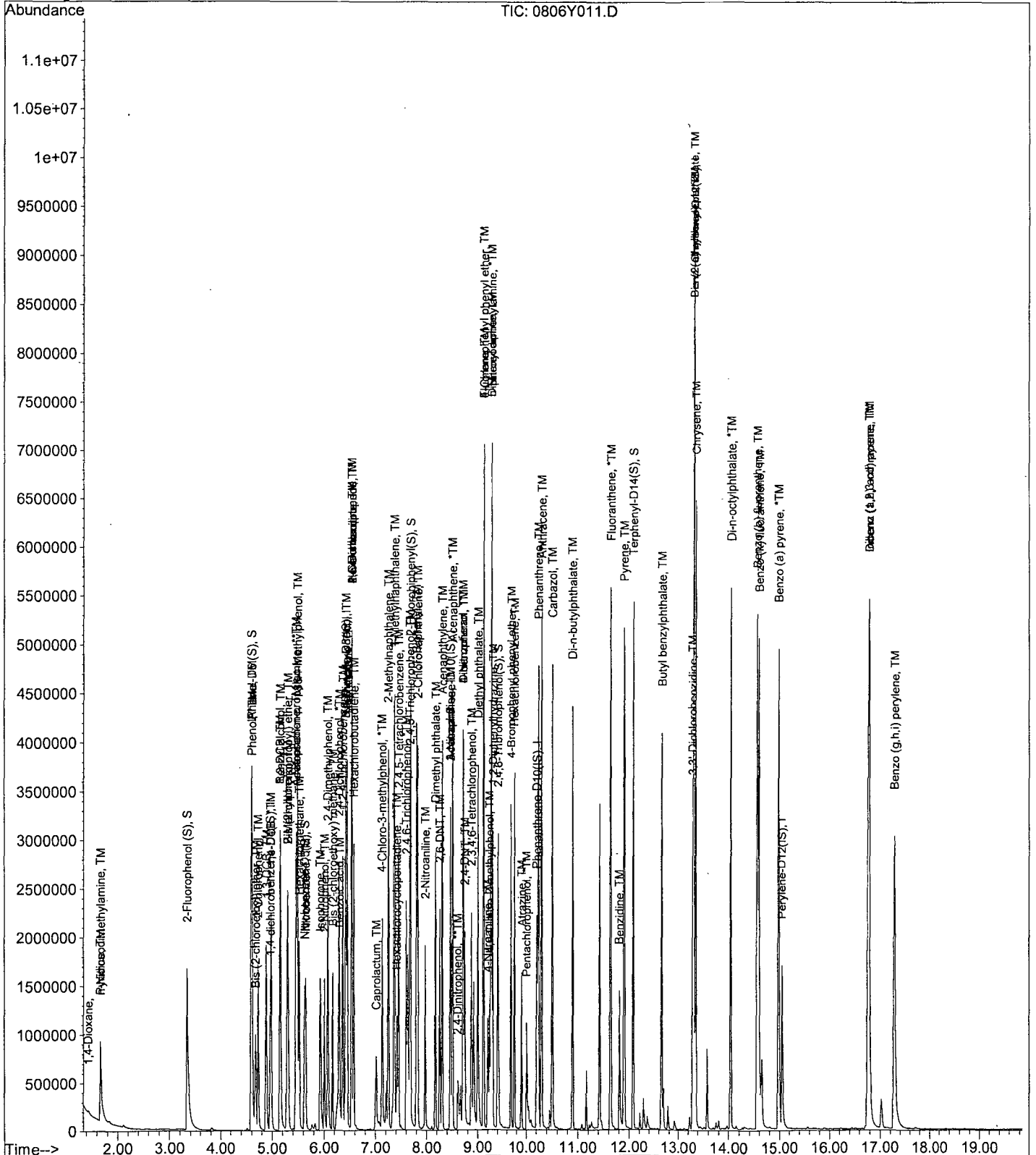
Data File : M:\YODA\DATA\Y190806\0806Y011.D
Acq On : 6 Aug 19 15:00
Sample : 100ug/ml 8270 08/06/19
Misc :

Vial: 11
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Aug 6 15:17 2019

Quant Results File: Y0806NC.RES

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Aug 08 11:05:08 2019
Response via : Initial Calibration



Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 6 Aug 19 16:50
Instrument: Yoda
Initial Cal. Date: 08/06/19
Data File: 0806Y012.D

		Compound	MEAN	CCRF	%D	%Drift	
1	L	1,4-Dioxane	0.1992	0.1708	14	L	19
2	TM	n-Nitrosodimethylamine	0.2772	0.2268	18	TM	
3	TM	Pyridine	0.7793	0.6284	19	TM	
4	*TM	Phenol	1.865	1.584	15	*TM	
5	TM	Aniline	1.820	1.488	18	TM	
6	TM	Bis (2-chloroethyl) ether	0.7098	0.5905	17	TM	
7	TM	2-Chlorophenol	1.577	1.328	16	TM	
8	TM	1,3-DCB	1.810	1.554	14	TM	
9	*TM	1,4-DCB	1.829	1.544	16	*TM	
10	TM	Benzyl alcohol	0.8547	0.7108	17	TM	
11	TM	1,2-DCB	1.708	1.459	15	TM	
12	TM	2-Methylphenol	1.263	1.042	18	TM	
13	TM	Bis (2-chloroisopropyl) ether	1.041	0.8558	18	TM	
14	TM	Acetophenone	1.866	1.557	17	TM	
15	TM	3&4-Methylphenol	1.495	1.248	16	TM	
16	**TM	n-Nitrosodi-n-propylamine	0.8617	0.7046	18	**TM	
17	TM	Hexachloroethane	0.5857	0.4925	16	TM	
18	TM	Nitrobenzene	0.3035	0.2749	9.4	TM	
19	TM	Isophorone	0.5676	0.5058	11	TM	
20	*TM	2-Nitrophenol	0.2289	0.2074	9.4	*TM	
21	TM	2,4-Dimethylphenol	0.3413	0.3010	12	TM	
22	TM	Benzoic acid	0.2353	0.2167	7.9	TM	
23	TM	Bis (2-chloroethoxy) methane	0.3734	0.3217	14	TM	
24	*TM	2,4-Dichlorophenol	0.3365	0.2968	12	*TM	
25	TM	1,2,4-Trichlorobenzene	0.3714	0.3305	11	TM	
26	TM	3,4-Dimethylphenol	0.4382	0.3787	14	TM	
27	TM	Naphthalene	1.100	0.9732	12	TM	
28	TM	4-Chloroaniline	0.3904	0.3212	18	TM	
29	TM	2,6-Dichlorophenol	0.3202	0.2818	12	TM	
30	TM	Hexachloropropene	0.2202	0.2045	7.1	TM	
31	*TM	Hexachlorobutadiene	0.2109	0.1898	10	*TM	
32	TM	Caprolactum	0.1079	0.0963	11	TM	
33	*TM	4-Chloro-3-methylphenol	0.3194	0.2874	10	*TM	
34	TM	2-Methylnaphthalene	0.7552	0.6621	12	TM	
35	TM	1-Methylnaphthalene	0.7730	0.6686	14	TM	
36	**TMQ	Hexachlorocyclopentadiene	0.1088	0.1181	8.5	**TMQ	3.5
37	TM	1,2,4,5-Tetrachlorobenzene	0.6731	0.6023	11	TM	
38	*TM	2,4,6-Trichlorophenol	0.4197	0.3763	10	*TM	
39	TM	2,4,5-Trichlorophenol	0.4447	0.4035	9.3	TM	
40	TM	1,1'-Biphenyl	1.703	1.525	10	TM	

Average

13.4

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 6 Aug 19 16:50
Instrument: Yoda
Cal. Date: 08/06/19
Data File: 0806Y012.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	2-Chloronaphthalene	1.337	1.224	8.4	TM
42	TM	2-Nitroaniline	0.2807	0.2556	8.9	TM
43	TM	Dimethyl phthalate	1.577	1.399	11	TM
44	TM	2,6-DNT	0.3778	0.3566	5.6	TM
45	TM	Acenaphthylene	2.099	1.910	9.0	TM
46	TM	3-Nitroaniline	0.3730	0.3315	11	TM
47	*TM	Acenaphthene	1.312	1.187	9.5	*TM
48	**TMQ	2,4-Dinitrophenol	0.1525	0.1369	10	**TMQ 20
49	**TMQ	4-Nitrophenol	0.1113	0.1297	17	**TMQ 12
50	TM	Dibenzofuran	1.939	1.731	11	TM
51	TM	2,4-DNT	0.5099	0.4848	4.9	TM
52	TM	2,3,4,6-Tetrachlorophenol	0.3535	0.3346	5.3	TM
53	TM	Diethyl phthalate	1.471	1.316	11	TM
54	TM	4-Chlorophenyl phenyl ether	0.8028	0.7131	11	TM
55	TM	Fluorene	1.515	1.363	10	TM
56	TM	4-Nitroaniline	0.3514	0.3045	13	TM
57	TMQ	4,6-Dinitro-2-methylphenol	0.1476	0.1480	0.24	TMQ 8.3
58	TM	Diphenyl amine	0.5970	0.5463	8.5	TM
59	*TM	n-Nitrosodiphenylamine	0.5970	0.5463	8.5	*TM
60	TM	1,2-Diphenylhydrazine	0.5805	0.4889	16	TM
61	TM	4-Bromophenyl phenyl ether	0.2586	0.2313	11	TM
62	TM	Hexachlorobenzene	0.2799	0.2555	8.7	TM
63	TM	Atrazine	0.2292	0.2152	6.1	TM
64	*TMQ	Pentachlorophenol	0.0904	0.0874	3.3	*TMQ 11
65	TM	Phenanthrene	1.134	1.026	9.5	TM
66	TM	Anthracene	1.185	1.068	9.9	TM
67	TM	Carbazol	1.092	0.9801	10	TM
68	TM	Di-n-butylphthalate	1.238	1.115	10.0	TM
69	*TM	Fluoranthene	1.290	1.186	8.0	*TM
70	TMQ	Benzidine	0.3694	0.3810	3.1	TMQ 2.6
71	TM	Pyrene	1.478	1.320	11	TM
72	TM	Butyl benzylphthalate	0.6250	0.5537	11	TM
73	TM	3,3'-Dichlorobenzidine	0.4402	0.4147	5.8	TM
74	TM	Benz (a) anthracene	1.405	1.256	11	TM
75	TM	Bis (2-ethylhexyl) phthalate	0.7984	0.7063	12	TM
76	TM	Chrysene	1.404	1.260	10	TM
77	*TM	Di-n-octylphthalate	1.505	1.368	9.1	*TM
78	TM	Benzo (b) fluoranthene	1.286	1.077	16	TM
79	TM	Benzo (k) fluoranthene	1.179	1.143	3.1	TM
80	*TM	Benzo (a) pyrene	1.183	1.065	10.0	*TM
		Average			9.2	

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 6 Aug 19 16:50
Instrument: Yoda
Cal. Date: 08/06/19
Data File: 0806Y012.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Indeno (1,2,3-cd) pyrene	1.403	1.269	9.6	TM
82	TM	Dibenz (a,h) anthracene	1.223	1.117	8.7	TM
83	TM	Benzo (g,h,i) perylene	1.146	1.027	10	TM
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118						
119						
120						

Average

9.4

Data File : M:\YODA\DATA\Y190806\0806Y012.D
 Acq On : 6 Aug 19 16:50
 Sample : SS 8270 08/06/19
 Misc :

Vial: 12
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 8 11:09 2019

Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.95	152	249605	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.42	136	959487	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.46	164	535723	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.21	188	1078823	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.32	240	980046	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.05	264	1208521	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	0.00	112	0	0.00000	ppb	
Spiked Amount 200.000			Recovery =	0.000%		
6) Phenol-D6 (S)	0.00	99	0	0.00000	ppb	
Spiked Amount 200.000			Recovery =	0.000%		
22) Nitrobenzene-D5 (S)	5.52	82	27645	4.09417	ppb	-0.09
Spiked Amount 100.000			Recovery =	4.094%		
46) 2-Fluorobiphenyl (S)	7.66	172	526	0.02734	ppb	-0.02
Spiked Amount 100.000			Recovery =	0.027%		
64) 2,4,6-Tribromophenol (S)	0.00	330	0	0.00000	ppb	
Spiked Amount 200.000			Recovery =	0.000%		
82) Terphenyl-D14 (S)	12.09	244	904	0.03494	ppb	0.02
Spiked Amount 100.000			Recovery =	0.035%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.45	58	5329	4.03928		# 1
3) n-Nitrosodimethylamine	1.67	42	70760m	40.90901	ppb	84
4) Pyridine	1.68	79	196069m	40.31678	ppb	93
7) Phenol	4.60	94	494158	42.46686	ppb	89
8) Aniline	4.59	93	464340	40.87657	ppb	# 69
9) Bis (2-chloroethyl) ether	4.67	63	184241	41.59786	ppb	84
10) 2-Chlorophenol	4.73	128	414439	42.10240	ppb	94
11) 1,3-DCB	4.89	146	484787	42.91481	ppb	100
12) 1,4-DCB	4.97	146	481812	42.21212	ppb	98
13) Benzyl alcohol	5.16	108	221781	41.58079	ppb	92
14) 1,2-DCB	5.15	146	455100	42.69215	ppb	99
15) 2-Methylphenol	5.29	107	325142	41.24309	ppb	99
16) Bis (2-chloroisopropyl) et	5.28	45	267015	41.09664	ppb	# 79
17) Acetophenone	5.45	105	485922	41.73516	ppb	96
18) 3&4-Methylphenol	5.47	107	778997	83.51206	ppb	97
19) n-Nitrosodi-n-propylamine	5.45	70	219825	40.88349	ppb	95
20) Hexachloroethane	5.52	117	153671	42.04794	ppb	93
23) Nitrobenzene	5.64	77	329687	45.28011	ppb	93
24) Isophorone	5.91	82	606586	44.55118	ppb	95
25) 2-Nitrophenol	6.00	139	248787	45.31943	ppb	94
26) 2,4-Dimethylphenol	6.07	122	361017	44.10101	ppb	99
27) Benzoic acid	6.26	105	259908	46.05516	ppb	97
28) Bis (2-chloroethoxy) metha	6.16	93	385826	43.07379	ppb	98
29) 2,4-Dichlorophenol	6.29	162	355941	44.10224	ppb	98
30) 1,2,4-Trichlorobenzene	6.37	180	396386	44.49640	ppb	99
31) 3,4-Dimethylphenol	6.41	107	454183	43.20971	ppb	98
32) Naphthalene	6.45	128	1167235	44.23032	ppb	100
33) 4-Chloroaniline	6.53	127	385201	41.13616	ppb	97
34) 2,6-Dichlorophenol	6.53	162	337977	43.99990	ppb	97
35) Hexachloropropene	6.53	213	245295	46.43114	ppb	98
36) Hexachlorobutadiene	6.58	225	227653	44.99368	ppb	99
37) Caprolactum	6.98	55	115491	44.62935	ppb	90

Data File : M:\YODA\DATA\Y190806\0806Y012.D
 Acq On : 6 Aug 19 16:50
 Sample : SS 8270 08/06/19
 Misc :

Vial: 12
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 8 11:09 2019

Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.13	107	344667	44.99260	ppb	91
39) 2-Methylnaphthalene	7.25	142	794103	43.83548	ppb	100
40) 1-Methylnaphthalene	7.36	142	801911	43.24932	ppb	99
42) Hexachlorocyclopentadiene	7.41	237	79088	48.26932	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.44	216	403344	44.74518	ppb	98
44) 2,4,6-Trichlorophenol	7.60	196	252010	44.83225	ppb	99
45) 2,4,5-Trichlorophenol	7.67	196	270229	45.37060	ppb	99
47) 1,1'-Biphenyl	7.80	154	1021371	44.76956	ppb	98
48) 2-Chloronaphthalene	7.82	162	819615	45.77948	ppb	97
49) 2-Nitroaniline	7.96	65	171160	45.52773	ppb	89
50) Dimethyl phthalate	8.17	163	936911	44.35951	ppb	99
51) 2,6-DNT	8.25	165	238817	47.20406	ppb	92
52) Acenaphthylene	8.30	152	1279329	45.50519	ppb	99
53) 3-Nitroaniline	8.45	138	221983	44.43957	ppb	# 88
54) Acenaphthene	8.50	154	794814	45.24999	ppb	99
55) 2,4-Dinitrophenol	8.61	184	91653	40.16007	ppb	96
56) 4-Nitrophenol	8.71	65	86881	44.22771	ppb	86
57) Dibenzofuran	8.70	168	1159439	44.65462	ppb	97
58) 2,4-DNT	8.73	165	324679	47.54098	ppb	82
59) 2,3,4,6-Tetrachlorophenol	8.87	232	224096	47.33666	ppb	96
60) Diethyl phthalate	8.99	149	880957	44.70903	ppb	96
61) 4-Chlorophenyl phenyl ethe	9.10	204	477552	44.41379	ppb	96
62) Fluorene	9.10	166	912695	44.96761	ppb	99
63) 4-Nitroaniline	9.19	138	203910	43.32136	ppb	# 85
66) 4,6-Dinitro-2-methylphenol	9.22	198	199572	45.84355	ppb	97
67) Diphenyl amine	9.26	169	1473445	91.51022	ppb	99
68) n-Nitrosodiphenylamine	9.26	169	1473445	91.51022	ppb	99
69) 1,2-Diphenylhydrazine	9.29	77	659236	42.10725	ppb	95
70) 4-Bromophenyl phenyl ether	9.68	248	311849	44.70939	ppb	96
71) Hexachlorobenzene	9.74	284	344585	45.64751	ppb	93
72) Atrazine	9.89	200	145134	23.48200	ppb	99
73) Pentachlorophenol	10.00	266	117860	44.26946	ppb	99
74) Phenanthrene	10.24	178	1383806	45.23760	ppb	100
75) Anthracene	10.29	178	1439816	45.06021	ppb	99
76) Carbazol	10.51	167	1321761	44.86295	ppb	100
77) Di-n-butylphthalate	10.90	149	1503320	45.01085	ppb	99
78) Fluoranthene	11.64	202	1599912	45.97993	ppb	97
80) Benzidine	11.81	184	466703	48.69544	ppb	99
81) Pyrene	11.90	202	1617555	44.67807	ppb	100
83) Butyl benzylphthalate	12.65	149	678266	44.29159	ppb	94
84) 3,3'-Dichlorobenzidine	13.28	252	508034	47.10673	ppb	# 98
85) Benz (a) anthracene	13.31	228	1538510	44.70651	ppb	100
86) Bis (2-ethylhexyl) phthala	13.31	149	865289	44.23336	ppb	96
87) Chrysene	13.36	228	1543490	44.86806	ppb	99
88) Di-n-octylphthalate	14.03	149	1675811	45.44581	ppb	# 96
90) Benzo (b) fluoranthene	14.55	252	1626702	41.87008	ppb	97
91) Benzo (k) fluoranthene	14.58	252	1726471	48.45448	ppb	98
92) Benzo (a) pyrene	14.97	252	1609331	45.01400	ppb	99
93) Indeno (1,2,3-cd) pyrene	16.76	276	1916459	45.19975	ppb	96
94) Dibenz (a,h) anthracene	16.77	278	1687694	45.67138	ppb	97
95) Benzo (g,h,i) perylene	17.27	276	1551442	44.80529	ppb	95

Quantitation Report

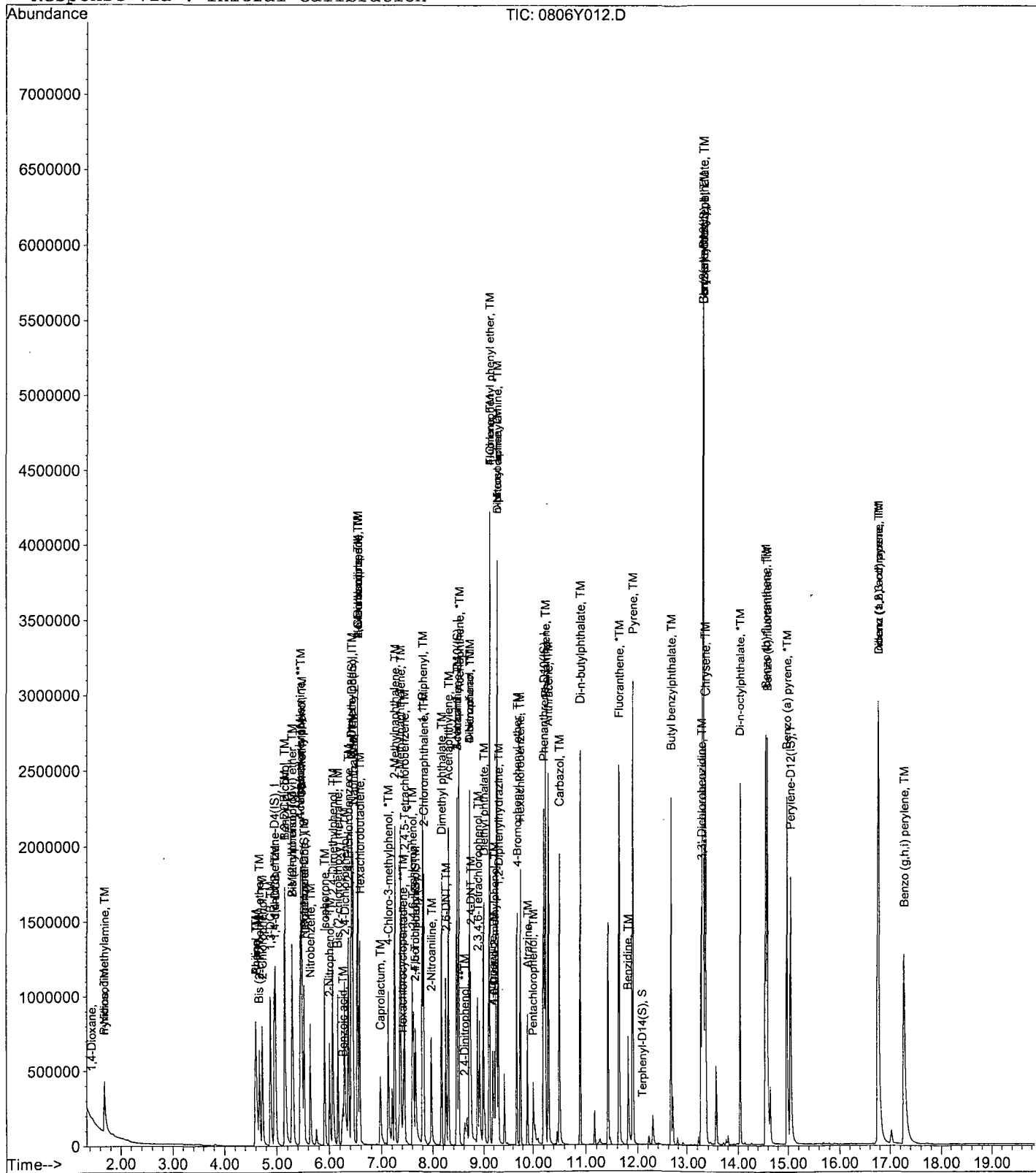
Data File : M:\YODA\DATA\Y190806\0806Y012.D
Acq On : 6 Aug 19 16:50
Sample : SS 8270 08/06/19
Misc :

Vial: 12
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Aug 8 11:09 2019

Quant Results File: Y0806NC.RES

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Aug 08 11:05:08 2019
Response via : Initial Calibration

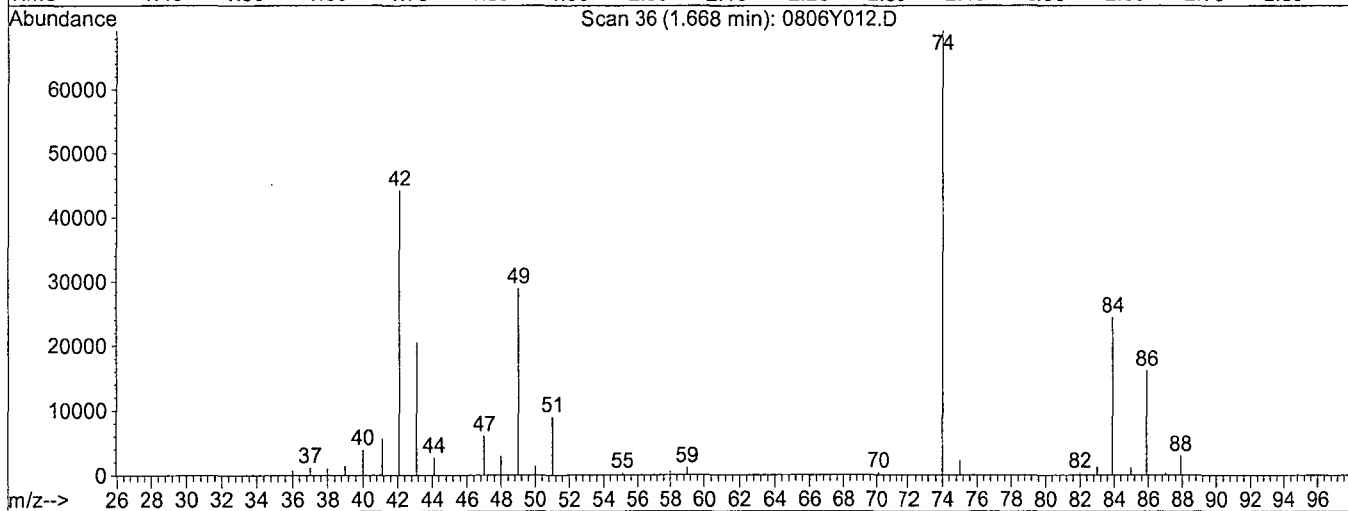
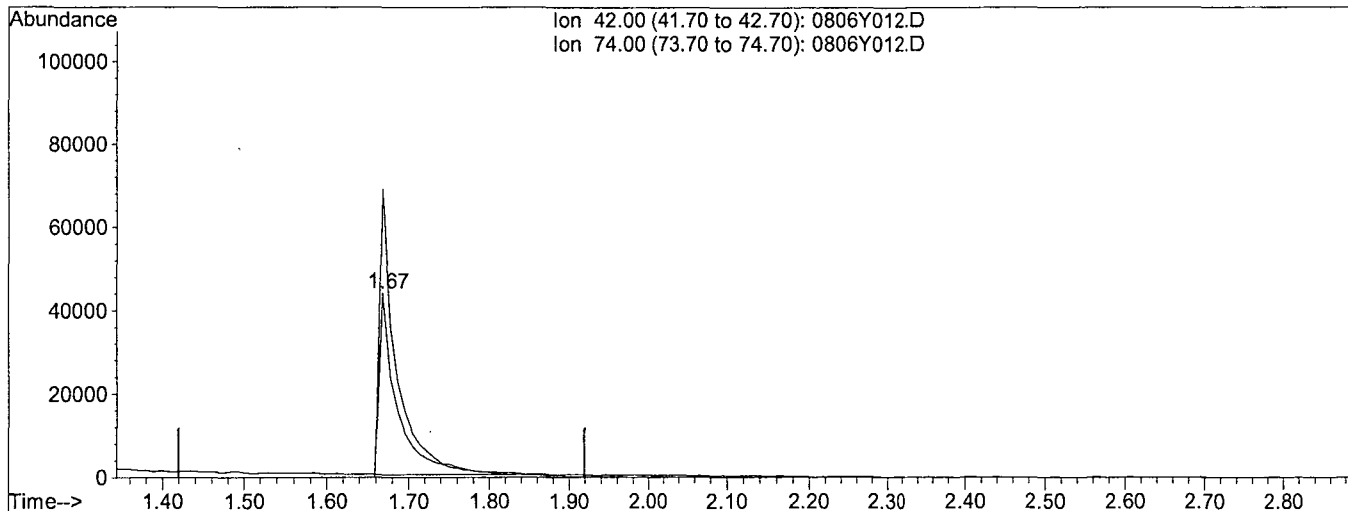


Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y012.D
 Acq On : 6 Aug 19 16:50
 Sample : SS 8270 08/06/19
 Misc :
 Quant Time: Aug 8 11:05 2019

Vial: 12
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Multiple Level Calibration



TIC: 0806Y012.D

(3) n-Nitrosodimethylamine (TM)

1.67min 39.1480ppb

response 67714

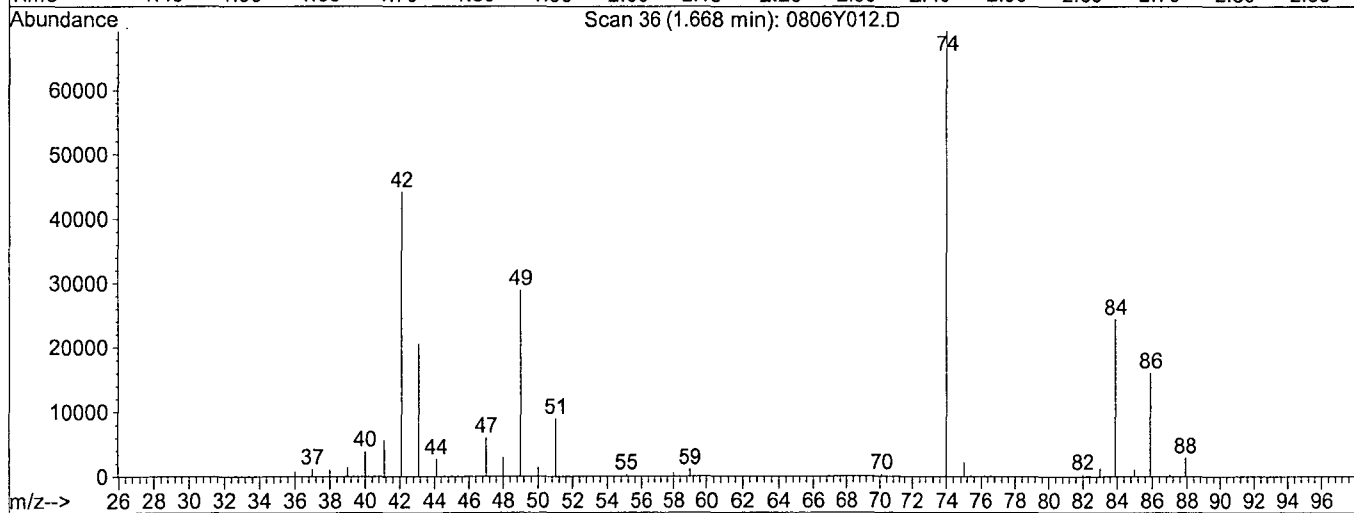
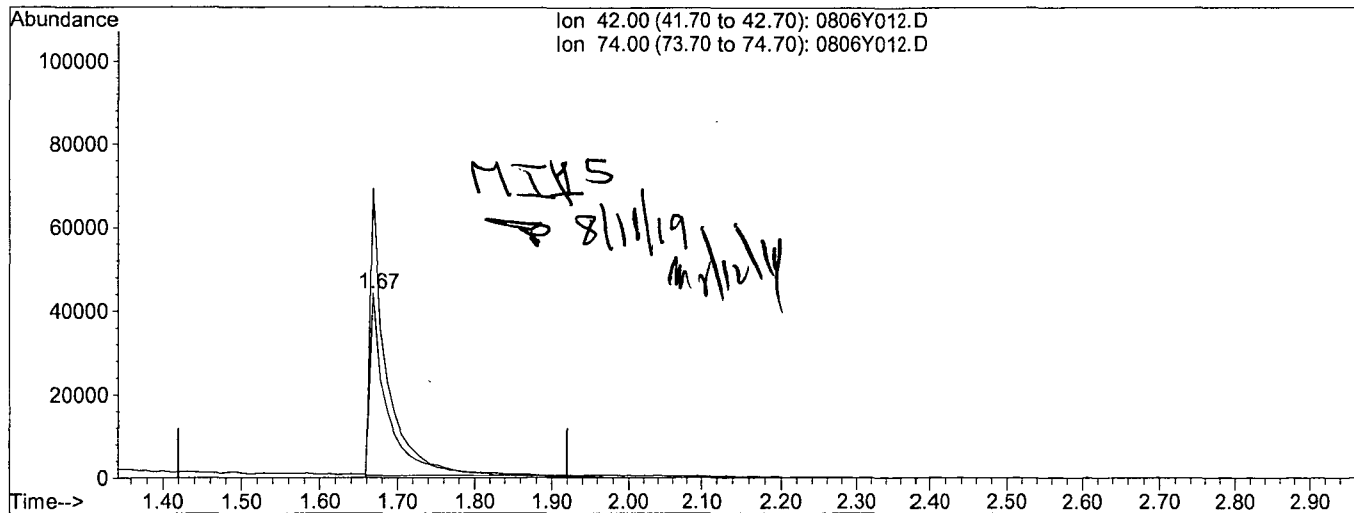
Ion	Exp%	Act%
42.00	100	100
74.00	140.40	159.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y012.D
 Acq On : 6 Aug 19 16:50
 Sample : SS 8270 08/06/19
 Misc :
 Quant Time: Aug 8 11:09 2019

Vial: 12
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Multiple Level Calibration



TIC: 0806Y012.D

(3) n-Nitrosodimethylamine (TM)

1.67min 40.9090ppb m

response 70760

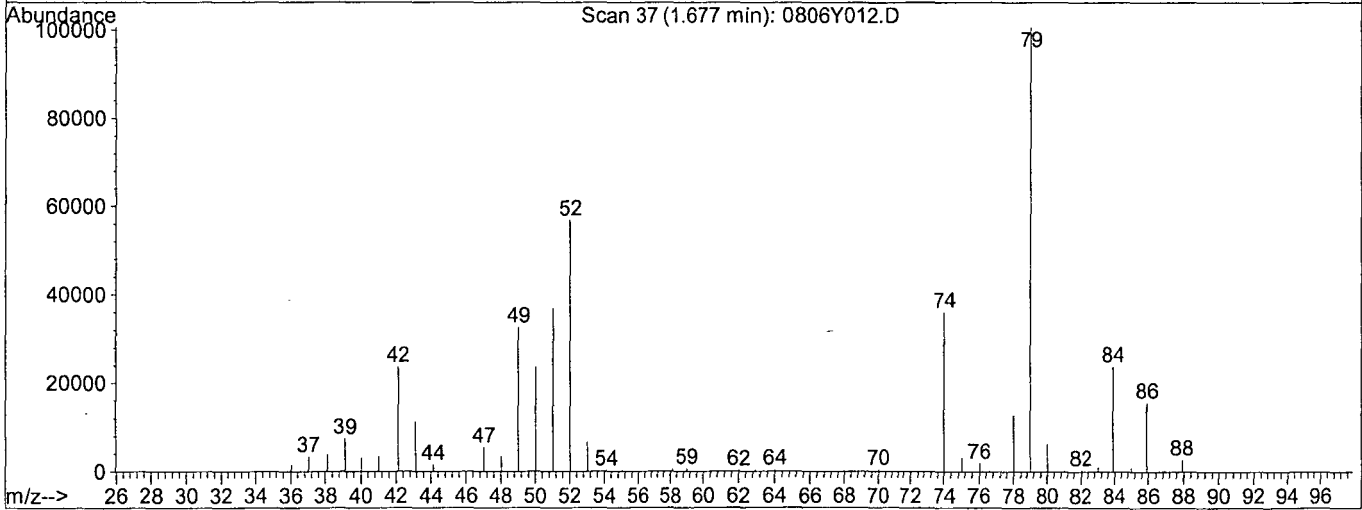
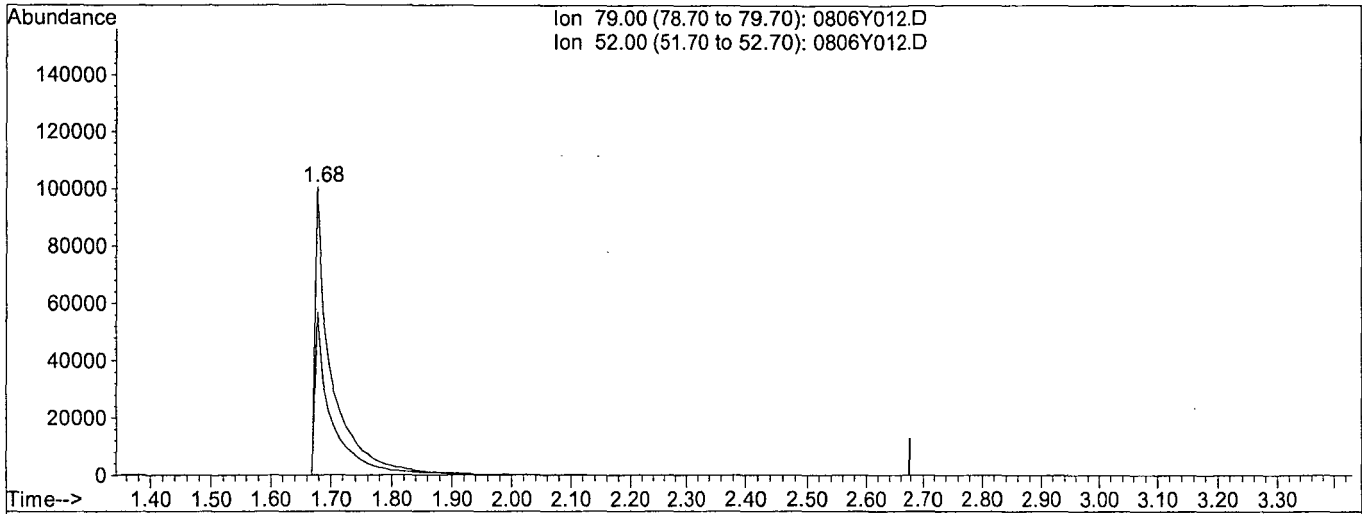
Ion	Exp%	Act%
42.00	100	100
74.00	140.40	156.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y012.D
 Acq On : 6 Aug 19 16:50
 Sample : SS 8270 08/06/19
 Misc :
 Quant Time: Aug 8 16:06 2019

Vial: 12
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Multiple Level Calibration



TIC: 0806Y012.D

(4) Pyridine (TM)

1.68min 39.7589ppb

response 193356

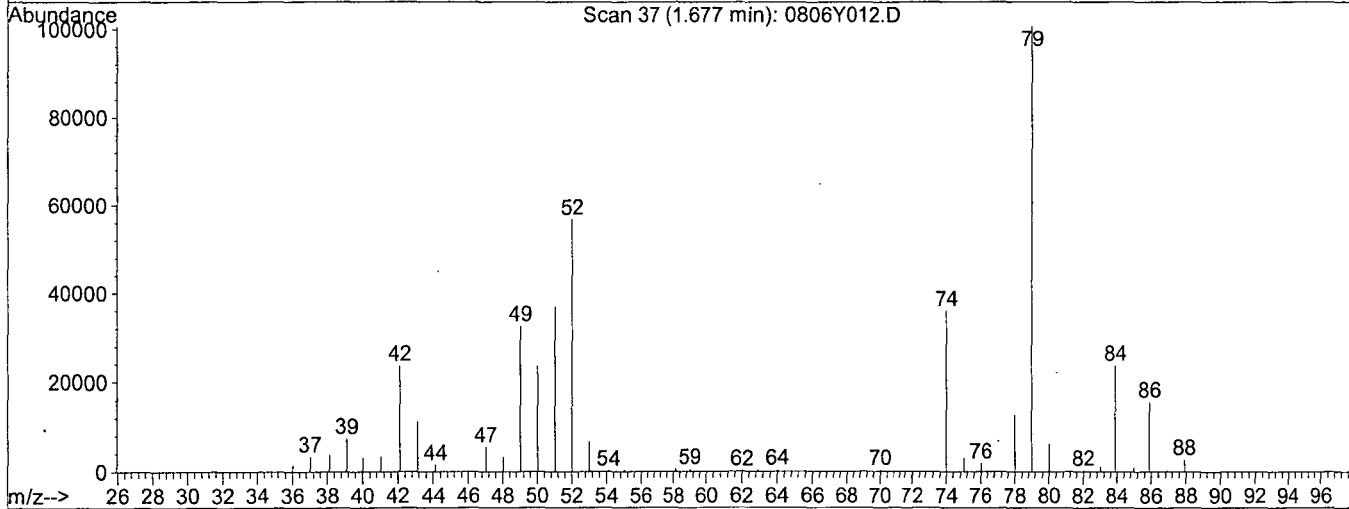
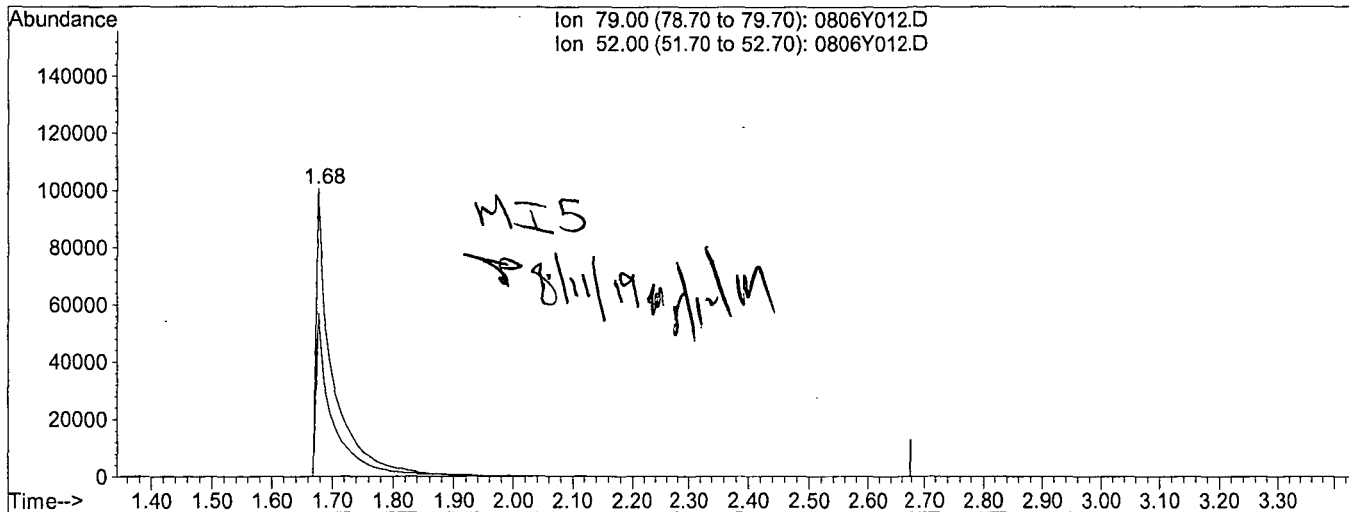
Ion	Exp%	Act%
79.00	100	100
52.00	61.50	56.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y012.D
 Acq On : 6 Aug 19 16:50
 Sample : SS 8270 08/06/19
 Misc :
 Quant Time: Aug 8 11:09 2019

Vial: 12
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Multiple Level Calibration



TIC: 0806Y012.D

(4) Pyridine (TM)
 1.68min 40.3168ppb m
 response 196069

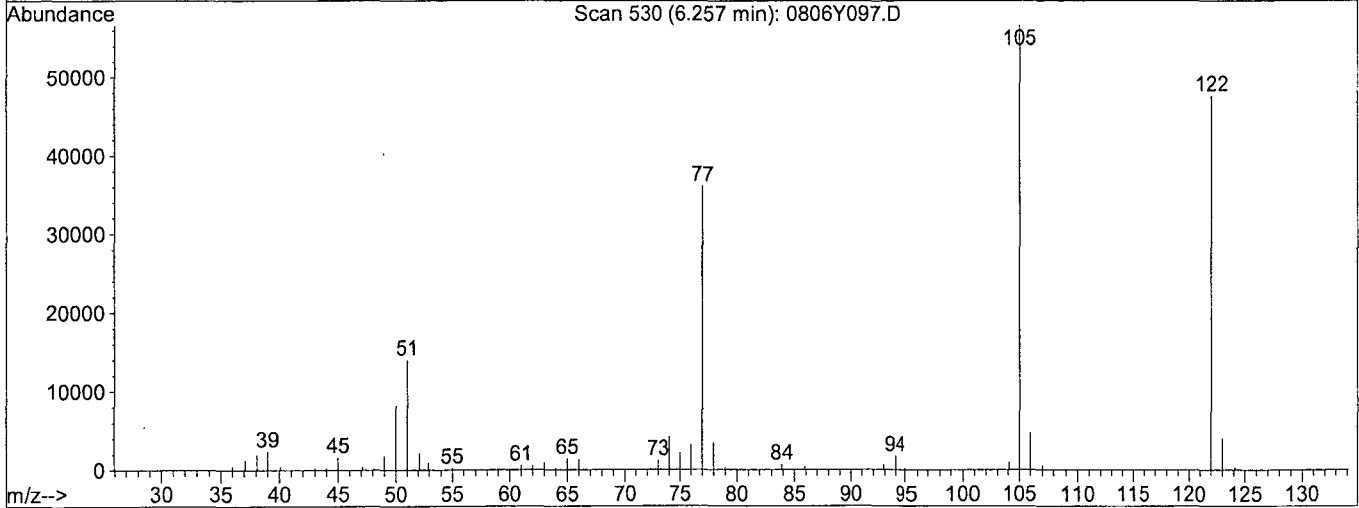
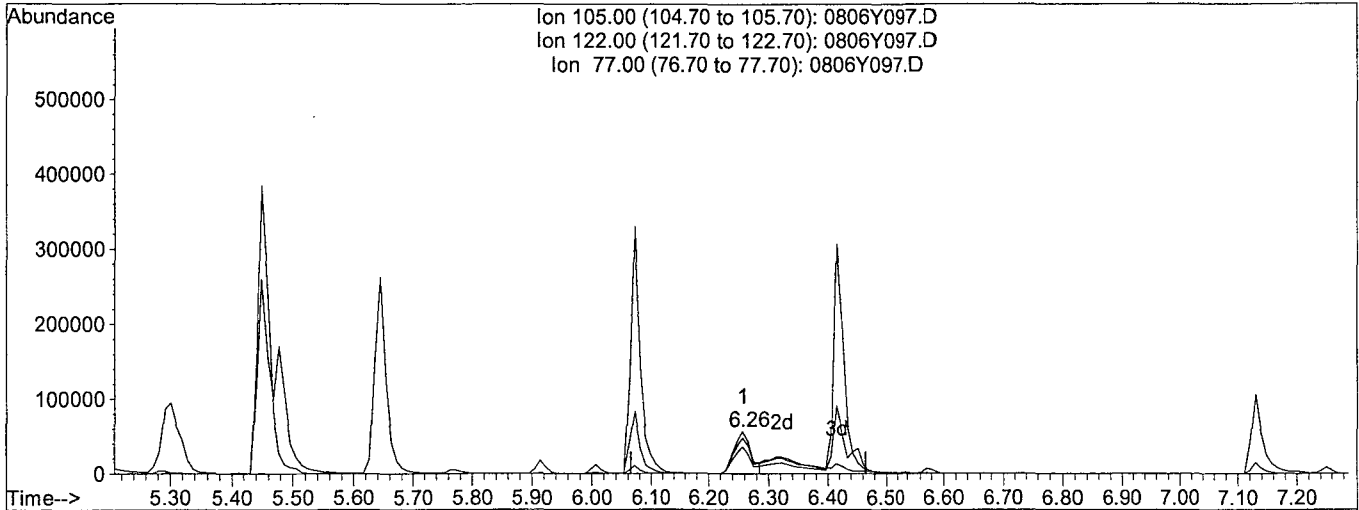
Ion	Exp%	Act%
79.00	100	100
52.00	61.50	56.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y097.D
 Acq On : 11 Aug 19 13:02
 Sample : 50ug/ml 8270 08/06/19 (2)
 Misc :
 Quant Time: Aug 11 13:10 2019

Vial: 97
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Multiple Level Calibration



TIC: 0806Y097.D

(27) Benzoic acid (TM)

6.26min 20.6493ppb

response 112828

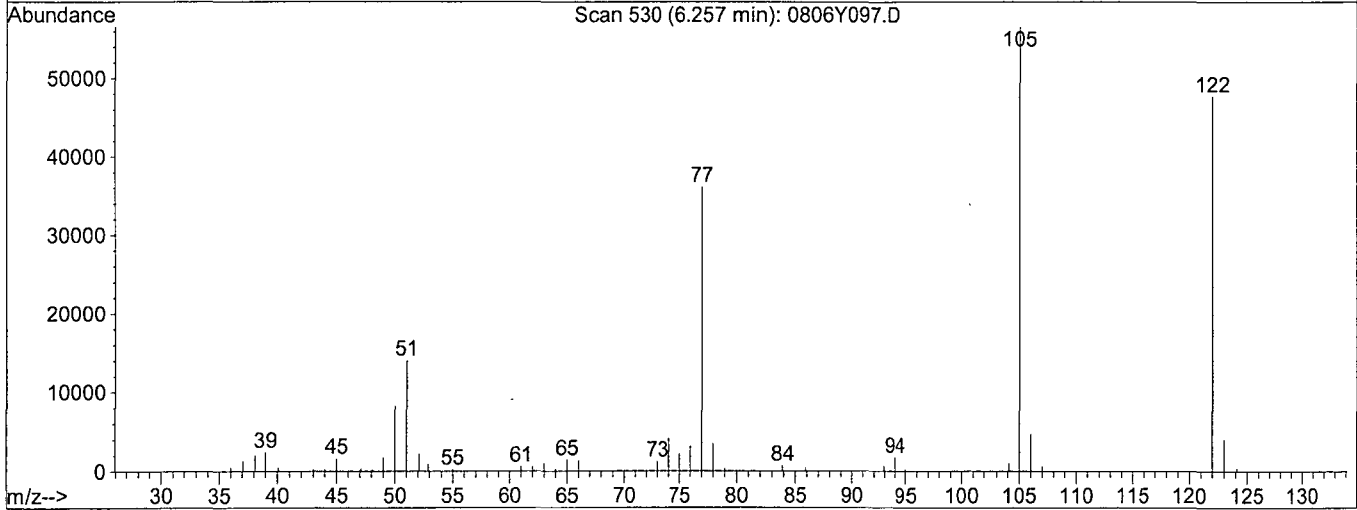
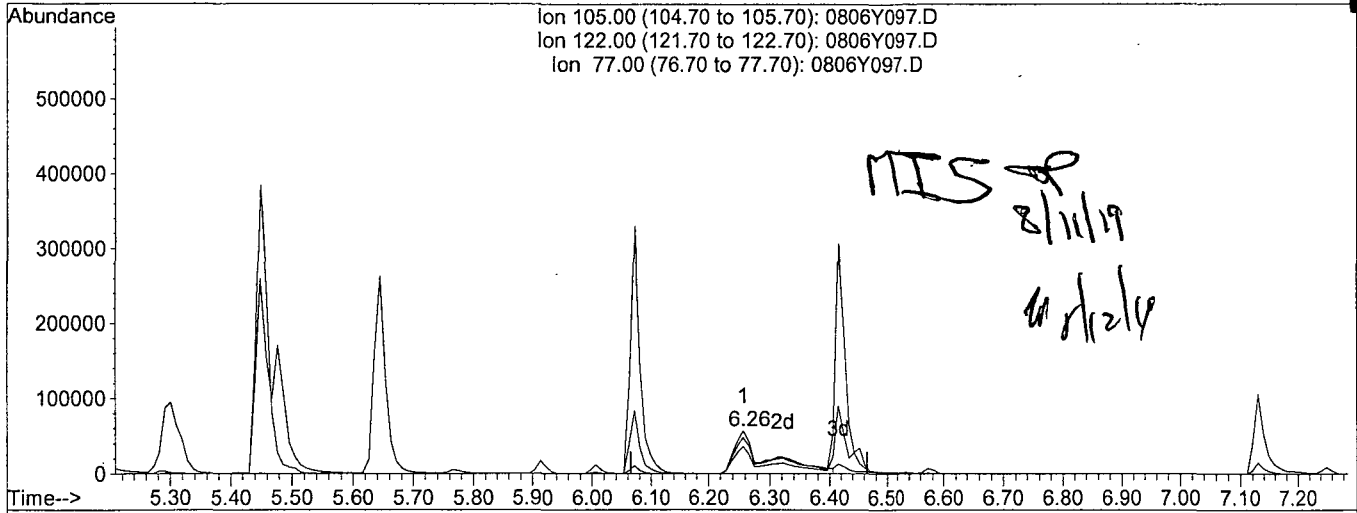
Ion	Exp%	Act%
105.00	100	100
122.00	83.60	83.75
77.00	65.60	63.36
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y097.D
 Acq On : 11 Aug 19 13:02
 Sample : 50ug/ml 8270 08/06/19 (2)
 Misc :
 Quant Time: Aug 11 13:13 2019

Vial: 97
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Multiple Level Calibration



TIC: 0806Y097.D

(27) Benzoic acid (TM)

6.26min 40.1025ppb m

response 219121

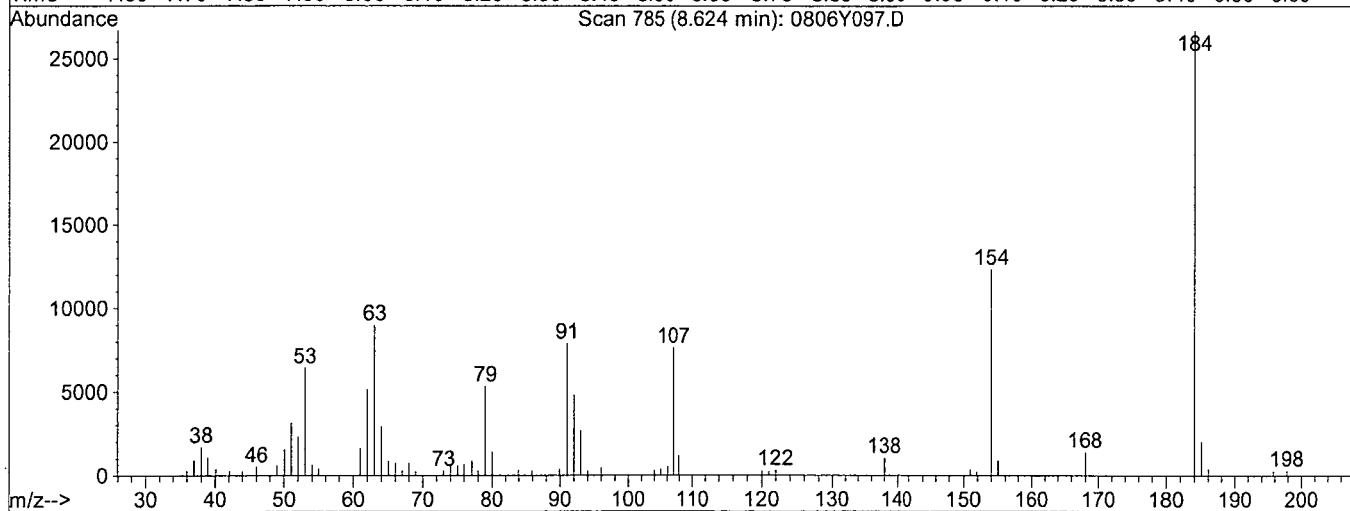
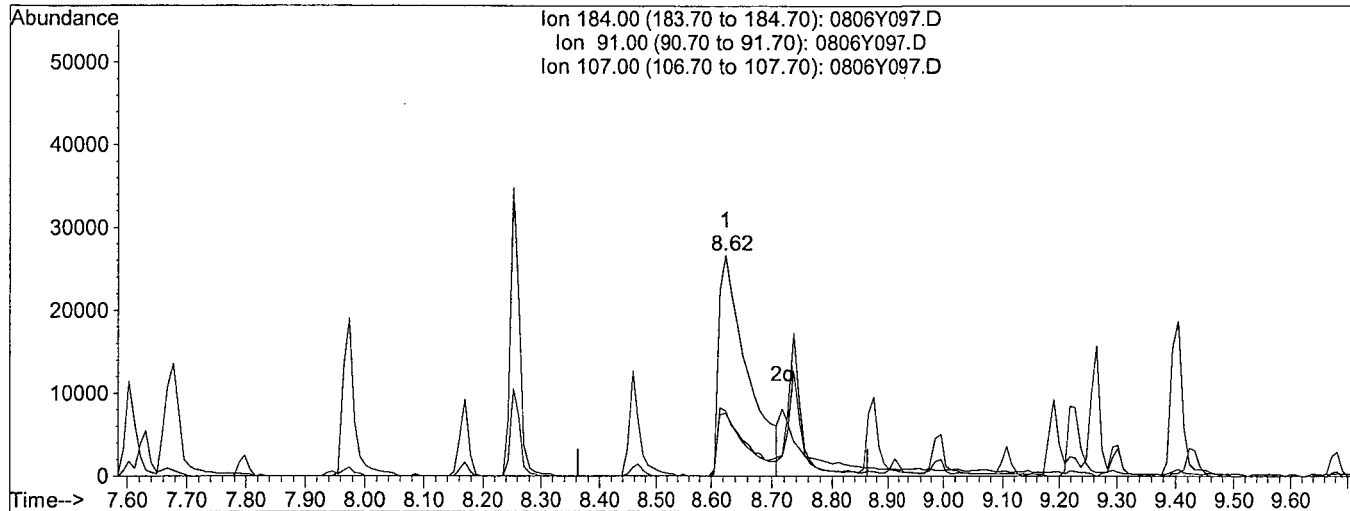
Ion	Exp%	Act%
105.00	100	100
122.00	83.60	84.25
77.00	65.60	63.79
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y097.D
 Acq On : 11 Aug 19 13:02
 Sample : 50ug/ml 8270 08/06/19 (2)
 Misc :
 Quant Time: Aug 11 13:13 2019

Vial: 97
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Multiple Level Calibration



TIC: 0806Y097.D

(55) 2,4-Dinitrophenol (**TM)

8.62min 37.9287ppb

response 85756

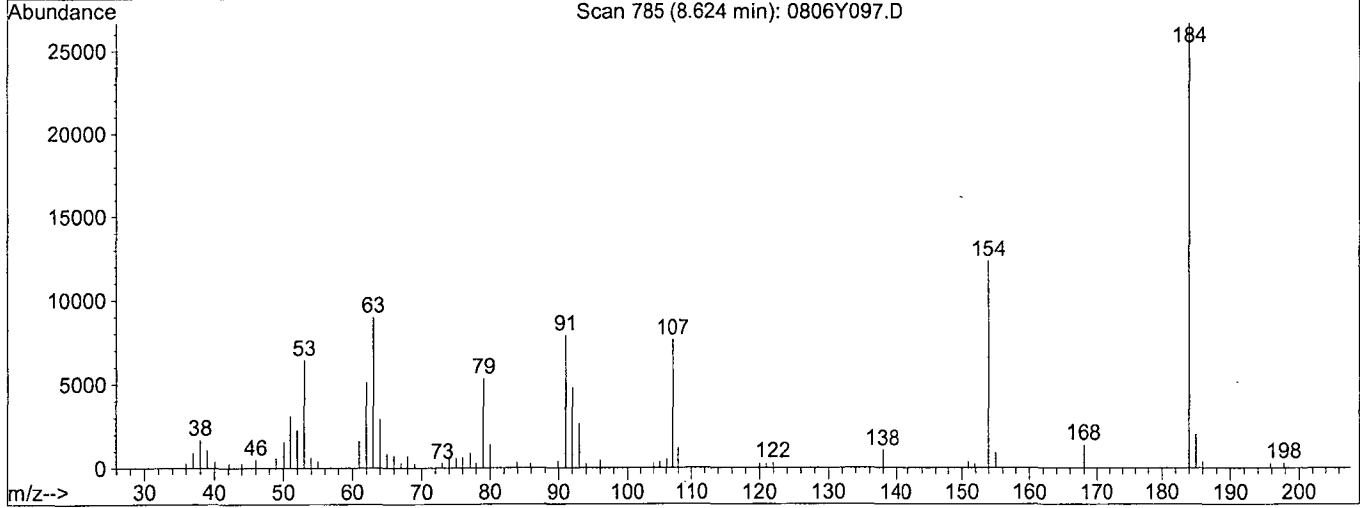
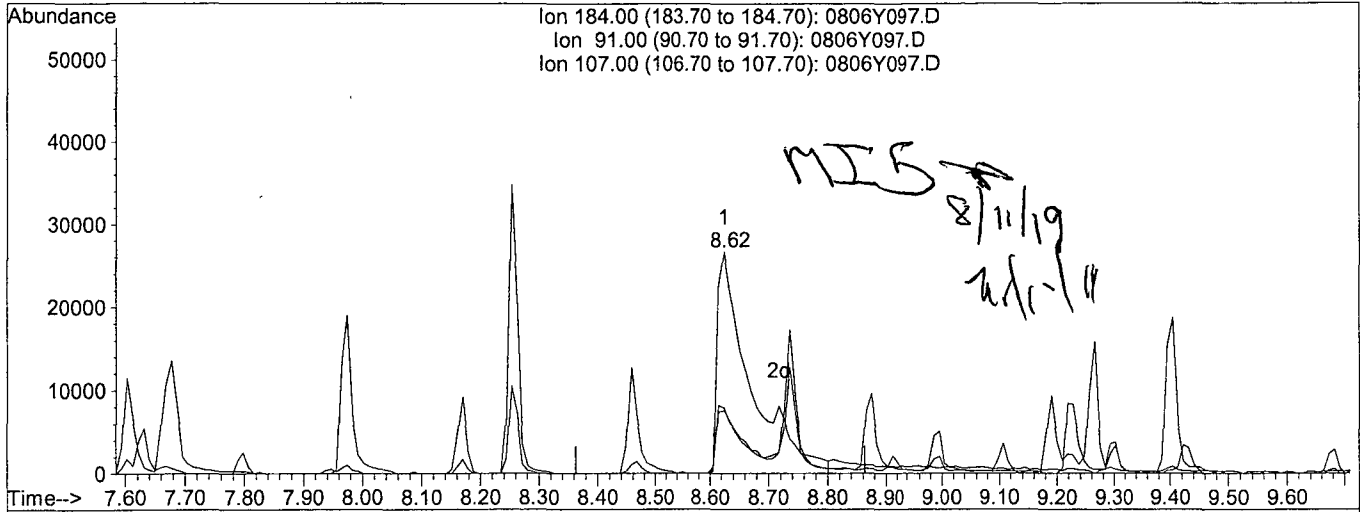
Ion	Exp%	Act%
184.00	100	100
91.00	32.70	28.72
107.00	29.50	28.45
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y097.D
 Acq On : 11 Aug 19 13:02
 Sample : 50ug/ml 8270 08/06/19 (2)
 Misc :
 Quant Time: Aug 11 13:14 2019

Vial: 97
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Multiple Level Calibration



TIC: 0806Y097.D

(55) 2,4-Dinitrophenol (**TM)

8.62min 43.7080ppb m

response 104620

Ion	Exp%	Act%
184.00	100	100
91.00	32.70	29.59
107.00	29.50	28.60
0.00	0.00	0.00

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 9 Aug 19 16:40
Instrument: Yoda
Initial Cal. Date: 08/06/19
Data File: 0806Y068.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I
2	L	1,4-Dioxane	0.1992	0.1844	7.4	L 14
3	TM	n-Nitrosodimethylamine	0.2772	0.2897	4.5	TM
4	TM	Pyridine	0.7793	0.8149	4.6	TM
5	S	2-Fluorophenol (S)	1.287	1.351	5.0	S
6	S	Phenol-D6 (S)	1.406	1.448	3.0	S
7	*TM	Phenol	1.865	1.867	0.13	*TM
8	TM	Aniline	1.820	1.776	2.4	TM
9	TM	Bis (2-chloroethyl) ether	0.7098	0.7128	0.43	TM
10	TM	2-Chlorophenol	1.577	1.576	0.08	TM
11	TM	1,3-DCB	1.810	1.786	1.3	TM
12	*TM	1,4-DCB	1.829	1.793	2.0	*TM
13	TM	Benzyl alcohol	0.8547	0.8722	2.0	TM
14	TM	1,2-DCB	1.708	1.666	2.5	TM
15	TM	2-Methylphenol	1.263	1.223	3.2	TM
16	TM	Bis (2-chloroisopropyl) ether	1.041	1.028	1.3	TM
17	TM	Acetophenone	1.866	1.823	2.3	TM
18	TM	3&4-Methylphenol	1.495	1.474	1.4	TM
19	**TM	n-Nitrosodi-n-propylamine	0.8617	0.8283	3.9	**TM
20	TM	Hexachloroethane	0.5857	0.5659	3.4	TM
21	I	Napthalene-D8(IS)	ISTD			I
22	S	Nitrobenzene-D5(S)	0.2815	0.2856	1.4	S
23	TM	Nitrobenzene	0.3035	0.3026	0.33	TM
24	TM	Isophorone	0.5676	0.5557	2.1	TM
25	*TM	2-Nitrophenol	0.2289	0.2276	0.54	*TM
26	TM	2,4-Dimethylphenol	0.3413	0.3365	1.4	TM
27	TM	Benzoic acid	0.2353	0.1969	16	TM
28	TM	Bis (2-chloroethoxy) methane	0.3734	0.3556	4.8	TM
29	*TM	2,4-Dichlorophenol	0.3365	0.3303	1.8	*TM
30	TM	1,2,4-Trichlorobenzene	0.3714	0.3610	2.8	TM
31	TM	3,4-Dimethylphenol	0.4382	0.4279	2.3	TM
32	TM	Napthalene	1.100	1.045	5.0	TM
33	TM	4-Chloroaniline	0.3904	0.4037	3.4	TM
34	TM	2,6-Dichlorophenol	0.3202	0.3086	3.6	TM
35	TM	Hexachloropropene	0.2202	0.2216	0.62	TM
36	*TM	Hexachlorobutadiene	0.2109	0.2068	2.0	*TM
37	TM	Caprolactum	0.1079	0.1063	1.5	TM
38	*TM	4-Chloro-3-methylphenol	0.3194	0.3186	0.23	*TM
39	TM	2-Methylnapthalene	0.7552	0.7373	2.4	TM
40	TM	1-Methylnapthalene	0.7730	0.7430	3.9	TM

Average

2.8

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 9 Aug 19 16:40
Instrument: Yoda
Cal. Date: 08/06/19
Data File: 0806Y068.D

		Compound	MEAN	CCRF	%D	%Drift
41	I	Acenaphthene-D10(IS)	ISTD			I
42	**TMQ	Hexachlorocyclopentadiene	0.1088	0.1251	15	**TMQ 0.72
43	TM	1,2,4,5-Tetrachlorobenzene	0.6731	0.6582	2.2	TM
44	*TM	2,4,6-Trichlorophenol	0.4197	0.4179	0.43	*TM
45	TM	2,4,5-Trichlorophenol	0.4447	0.4395	1.2	TM
46	S	2-Fluorobiphenyl(S)	1.437	1.418	1.3	S
47	TM	1,1'-Biphenyl	1.703	1.664	2.3	TM
48	TM	2-Chloronaphthalene	1.337	1.310	2.0	TM
49	TM	2-Nitroaniline	0.2807	0.2782	0.88	TM
50	TM	Dimethyl phthalate	1.577	1.556	1.3	TM
51	TM	2,6-DNT	0.3778	0.3788	0.28	TM
52	TM	Acenaphthylene	2.099	2.049	2.4	TM
53	TM	3-Nitroaniline	0.3730	0.3810	2.2	TM
54	*TM	Acenaphthene	1.312	1.261	3.8	*TM
55	**TMQ	2,4-Dinitrophenol	0.1525	0.1799	18	**TMQ 2.1
56	**TMQ	4-Nitrophenol	0.1113	0.1494	34	**TMQ 0.82
57	TM	Dibenzofuran	1.939	1.889	2.6	TM
58	TM	2,4-DNT	0.5099	0.5155	1.1	TM
59	TM	2,3,4,6-Tetrachlorophenol	0.3535	0.3597	1.8	TM
60	TM	Diethyl phthalate	1.471	1.437	2.3	TM
61	TM	4-Chlorophenyl phenyl ether	0.8028	0.7801	2.8	TM
62	TM	Fluorene	1.515	1.458	3.8	TM
63	TM	4-Nitroaniline	0.3514	0.3715	5.7	TM
64	S	2,4,6-Tribromophenol(S)	0.2671	0.2773	3.8	S
65	I	Phenanthrene-D10(IS)	ISTD			I
66	TMQ	4,6-Dinitro-2-methylphenol	0.1476	0.1638	11	TMQ 0.67
67	TM	Diphenyl amine	0.5970	0.5564	6.8	TM
68	*TM	n-Nitrosodiphenylamine	0.5970	0.5564	6.8	*TM
69	TM	1,2-Diphenylhydrazine	0.5805	0.5850	0.77	TM
70	TM	4-Bromophenyl phenyl ether	0.2586	0.2498	3.4	TM
71	TM	Hexachlorobenzene	0.2799	0.2678	4.3	TM
72	TM	Atrazine	0.2292	0.2196	4.2	TM
73	*TMQ	Pentachlorophenol	0.0904	0.1046	16	*TMQ 2.1
74	TM	Phenanthrene	1.134	1.073	5.4	TM
75	TM	Anthracene	1.185	1.117	5.7	TM
76	TM	Carbazol	1.092	1.038	5.0	TM
77	TM	Di-n-butylphthalate	1.238	1.210	2.3	TM
78	*TM	Fluoranthene	1.290	1.225	5.0	*TM
79	I	Chrysene-D12(IS)	ISTD			I
80	TMQ	Benzidine	0.3694	0.3416	7.5	TMQ 11

Average

5.3

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 9 Aug 19 16:40
Instrument: Yoda
Cal. Date: 08/06/19
Data File: 0806Y068.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Pyrene	1.478	1.440	2.6	TM
82	S	Terphenyl-D14(S)	1.056	1.027	2.7	S
83	TM	Butyl benzylphthalate	0.6250	0.6075	2.8	TM
84	TM	3,3'-Dichlorobenzidine	0.4402	0.4756	8.0	TM
85	TM	Benz (a) anthracene	1.405	1.320	6.0	TM
86	TM	Bis (2-ethylhexyl) phthalate	0.7984	0.7710	3.4	TM
87	TM	Chrysene	1.404	1.343	4.4	TM
88	*TM	Di-n-octylphthalate	1.505	1.481	1.6	*TM
89	I	Perylene-D12(IS)	ISTD			I
90	TM	Benzo (b) fluoranthene	1.286	1.150	11	TM
91	TM	Benzo (k) fluoranthene	1.179	1.216	3.1	TM
92	*TM	Benzo (a) pyrene	1.183	1.153	2.6	*TM
93	TM	Indeno (1,2,3-cd) pyrene	1.403	1.333	5.0	TM
94	TM	Dibenz (a,h) anthracene	1.223	1.175	3.9	TM
95	TM	Benzo (g,h,i) perylene	1.146	1.097	4.3	TM
96						
97						
98						
99						
100						
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117						
118						
119						
120						

Average

4.4

Data File : M:\YODA\DATA\Y190806\0806Y068.D Vial: 68
 Acq On : 9 Aug 19 16:40 Operator: MA, SS
 Sample : 50ug/ml 8270 08/06/19 (2) Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Aug 9 16:51 2019 Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.97	152	224381	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.43	136	928483	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.47	164	528294	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.22	188	1104337	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.33	240	977761	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.07	264	1193136	40.00000	ppb	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol (S)	3.36	112	757854	104.96712	ppb	0.03
Spiked Amount 200.000			Recovery =	52.483%		
6) Phenol-D6 (S)	4.60	99	812085	102.95320	ppb	0.02
Spiked Amount 200.000			Recovery =	51.477%		
22) Nitrobenzene-D5 (S)	5.63	82	331412	50.72046	ppb	0.00
Spiked Amount 100.000			Recovery =	50.720%		
46) 2-Fluorobiphenyl (S)	7.69	172	936718	49.36719	ppb	0.00
Spiked Amount 100.000			Recovery =	49.367%		
64) 2,4,6-Tribromophenol (S)	9.41	330	366212	103.79175	ppb	0.00
Spiked Amount 200.000			Recovery =	51.896%		
82) Terphenyl-D14 (S)	12.09	244	1255635	48.64930	ppb	0.00
Spiked Amount 100.000			Recovery =	48.649%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.47	58	5172	4.29793		97
3) n-Nitrosodimethylamine	1.68	42	81252	52.25555	ppb	97
4) Pyridine	1.69	79	228554	52.27969	ppb	97
7) Phenol	4.61	94	523704	50.06537	ppb	92
8) Aniline	4.60	93	498171	48.78475	ppb	# 79
9) Bis (2-chloroethyl) ether	4.68	63	199926	50.21358	ppb	84
10) 2-Chlorophenol	4.74	128	442106	49.96200	ppb	94
11) 1,3-DCB	4.89	146	500930	49.32880	ppb	98
12) 1,4-DCB	4.98	146	502765	48.99951	ppb	99
13) Benzyl alcohol	5.16	108	244625	51.01953	ppb	96
14) 1,2-DCB	5.16	146	467341	48.76882	ppb	98
15) 2-Methylphenol	5.31	107	342973	48.39553	ppb	94
16) Bis (2-chloroisopropyl) et	5.29	45	288358	49.37077	ppb	# 75
17) Acetophenone	5.46	105	511197	48.84173	ppb	95
18) 3&4-Methylphenol	5.49	107	826922	98.61549	ppb	98
19) n-Nitrosodi-n-propylamine	5.46	70	232309	48.06226	ppb	95
20) Hexachloroethane	5.53	117	158717	48.31071	ppb	95
23) Nitrobenzene	5.65	77	351143	49.83733	ppb	91
24) Isophorone	5.92	82	644896	48.94650	ppb	92
25) 2-Nitrophenol	6.01	139	264185	49.73132	ppb	92
26) 2,4-Dimethylphenol	6.08	122	390544	49.30103	ppb	99
27) Benzoic acid	6.28	105	228486	41.83920	ppb	97
28) Bis (2-chloroethoxy) metha	6.17	93	412742	47.61737	ppb	96
29) 2,4-Dichlorophenol	6.30	162	383315	49.07989	ppb	99
30) 1,2,4-Trichlorobenzene	6.37	180	418938	48.59834	ppb	98
31) 3,4-Dimethylphenol	6.42	107	496670	48.82964	ppb	98
32) Napthalene	6.46	128	1212517	47.48044	ppb	100
33) 4-Chloroaniline	6.54	127	468518	51.70443	ppb	96
34) 2,6-Dichlorophenol	6.54	162	358126	48.17986	ppb	97
35) Hexachloropropene	6.54	213	257200	50.31028	ppb	98
36) Hexachlorobutadiene	6.58	225	240029	49.02381	ppb	99
37) Caprolactum	7.00	55	123373	49.26718	ppb	# 83

Data File : M:\YODA\DATA\Y190806\0806Y068.D
 Acq On : 9 Aug 19 16:40
 Sample : 50ug/ml 8270 08/06/19 (2)
 Misc :

Vial: 68
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 9 16:51 2019

Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.14	107	369810	49.88675	ppb	93
39) 2-Methylnaphthalene	7.26	142	855766	48.81677	ppb	100
40) 1-Methylnaphthalene	7.37	142	862311	48.05982	ppb	99
42) Hexachlorocyclopentadiene	7.43	237	82633	49.64094	ppb	98
43) 1,2,4,5-Tetrachlorobenzene	7.45	216	434669	48.89832	ppb	100
44) 2,4,6-Trichlorophenol	7.61	196	275972	49.78545	ppb	100
45) 2,4,5-Trichlorophenol	7.67	196	290199	49.40866	ppb	95
47) 1,1'-Biphenyl	7.81	154	1098845	48.84278	ppb	98
48) 2-Chloronaphthalene	7.83	162	864818	48.98355	ppb	99
49) 2-Nitroaniline	7.97	65	183741	49.56149	ppb	99
50) Dimethyl phthalate	8.18	163	1027580	49.33654	ppb	99
51) 2,6-DNT	8.26	165	250149	50.13921	ppb	98
52) Acenaphthylene	8.31	152	1352960	48.80095	ppb	100
53) 3-Nitroaniline	8.47	138	251611	51.07923	ppb	# 88
54) Acenaphthene	8.51	154	832731	48.07534	ppb	99
55) 2,4-Dinitrophenol	8.62	184	118779	48.93198	ppb	94
56) 4-Nitrophenol	8.73	65	98659	49.59159	ppb	96
57) Dibenzofuran	8.72	168	1247246	48.71192	ppb	94
58) 2,4-DNT	8.74	165	340390	50.54234	ppb	# 81
59) 2,3,4,6-Tetrachlorophenol	8.88	232	237533	50.88058	ppb	93
60) Diethyl phthalate	8.99	149	949147	48.84708	ppb	100
61) 4-Chlorophenyl phenyl ethe	9.12	204	515170	48.58613	ppb	98
62) Fluorene	9.12	166	962820	48.10429	ppb	99
63) 4-Nitroaniline	9.20	138	245347	52.85778	ppb	89
66) 4,6-Dinitro-2-methylphenol	9.23	198	226175	49.66340	ppb	98
67) Diphenyl amine	9.27	169	1536091	93.19684	ppb	100
68) n-Nitrosodiphenylamine	9.27	169	1536091	93.19684	ppb	100
69) 1,2-Diphenylhydrazine	9.30	77	807491	50.38511	ppb	# 86
70) 4-Bromophenyl phenyl ether	9.69	248	344848	48.29817	ppb	91
71) Hexachlorobenzene	9.76	284	369652	47.83683	ppb	87
72) Atrazine	9.90	200	151545	23.95279	ppb	100
73) Pentachlorophenol	10.02	266	144326	51.06497	ppb	97
74) Phenanthrene	10.25	178	1481806	47.32213	ppb	99
75) Anthracene	10.30	178	1541609	47.13126	ppb	100
76) Carbazol	10.52	167	1432516	47.49883	ppb	100
77) Di-n-butylphthalate	10.91	149	1670435	48.85893	ppb	99
78) Fluoranthene	11.64	202	1691672	47.49380	ppb	99
80) Benzidine	11.82	184	417445	44.55976	ppb	99
81) Pyrene	11.91	202	1759909	48.72359	ppb	100
83) Butyl benzylphthalate	12.66	149	742506	48.59985	ppb	98
84) 3,3'-Dichlorobenzidine	13.29	252	581270	54.02339	ppb	# 97
85) Benz (a) anthracene	13.32	228	1613904	47.00693	ppb	99
86) Bis (2-ethylhexyl) phthala	13.32	149	942320	48.28374	ppb	99
87) Chrysene	13.36	228	1641325	47.82355	ppb	99
88) Di-n-octylphthalate	14.05	149	1809688	49.19107	ppb	98
90) Benzo (b) fluoranthene	14.56	252	1714687	44.70385	ppb	96
91) Benzo (k) fluoranthene	14.59	252	1813676	51.55830	ppb	99
92) Benzo (a) pyrene	14.99	252	1719484	48.71522	ppb	97
93) Indeno (1,2,3-cd) pyrene	16.78	276	1988538	47.50449	ppb	95
94) Dibenz (a,h) anthracene	16.79	278	1752609	48.03963	ppb	97
95) Benzo (g,h,i) perylene	17.29	276	1636579	47.87348	ppb	96

Quantitation Report

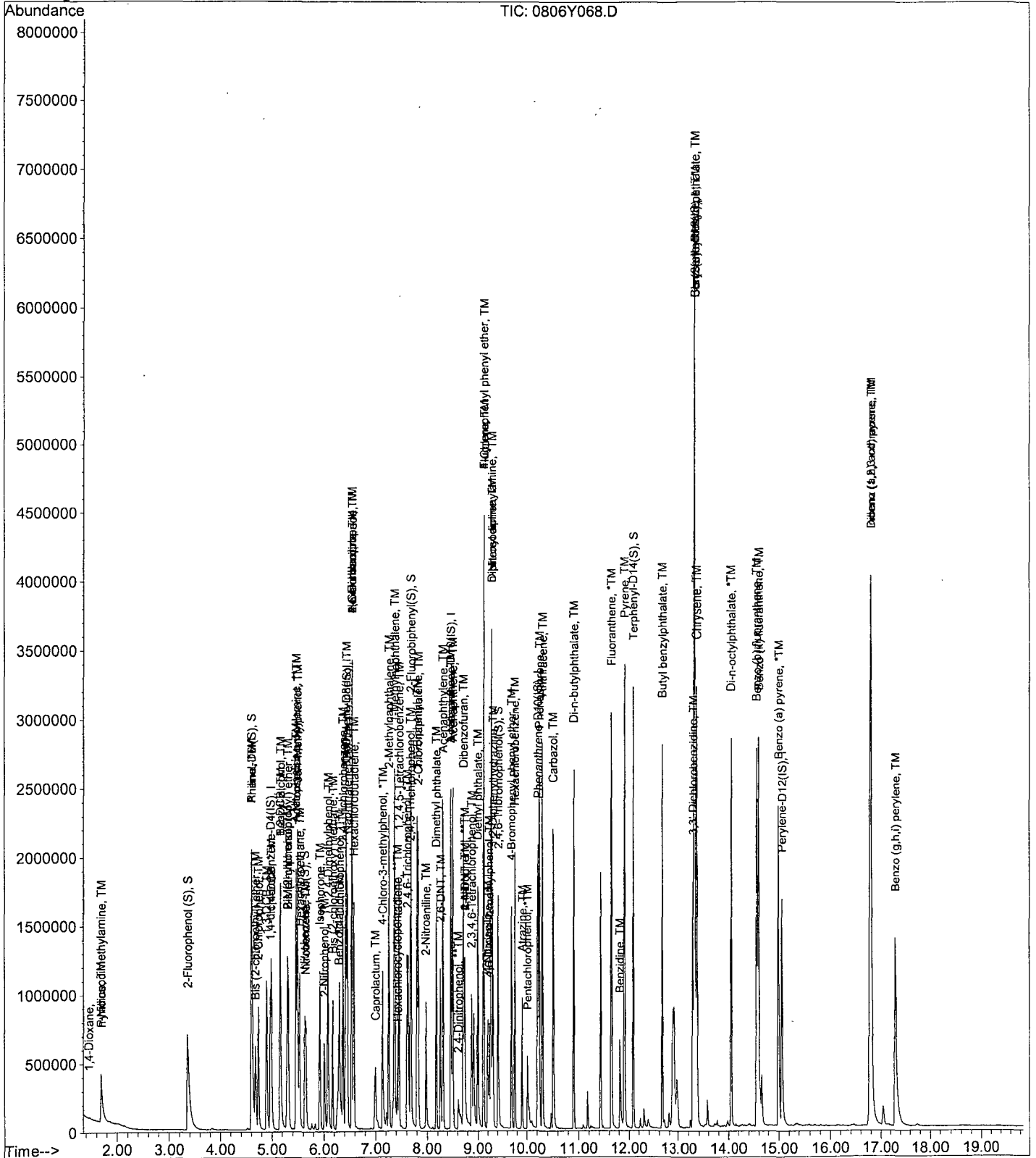
Data File : M:\YODA\DATA\Y190806\0806Y068.D
Acq On : 9 Aug 19 16:40
Sample : 50ug/ml 8270 08/06/19 (2)
Misc :

Vial: 68
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Aug 9 16:51 2019

Quant Results File: Y0806NC.RES

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Aug 08 11:05:08 2019
Response via : Initial Calibration



Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 08/10/19
Instrument: Yoda
Initial Cal. Date: 08/06/19
Data File: 0806Y092.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I
2	L	1,4-Dioxane	0.1992	0.2454	23	L 9.2
3	TM	n-Nitrosodimethylamine	0.2772	0.3070	11	TM
4	TM	Pyridine	0.7793	0.8277	6.2	TM
5	S	2-Fluorophenol (S)	1.287	1.409	9.5	S
6	S	Phenol-D6 (S)	1.406	1.510	7.4	S
7	*TM	Phenol	1.865	2.000	7.3	*TM
8	TM	Aniline	1.820	1.861	2.3	TM
9	TM	Bis (2-chloroethyl) ether	0.7098	0.7633	7.5	TM
10	TM	2-Chlorophenol	1.577	1.738	10	TM
11	TM	1,3-DCB	1.810	1.932	6.7	TM
12	*TM	1,4-DCB	1.829	1.936	5.8	*TM
13	TM	Benzyl alcohol	0.8547	0.9537	12	TM
14	TM	1,2-DCB	1.708	1.805	5.6	TM
15	TM	2-Methylphenol	1.263	1.343	6.3	TM
16	TM	Bis (2-chloroisopropyl) ether	1.041	1.111	6.7	TM
17	TM	Acetophenone	1.866	1.987	6.5	TM
18	TM	3&4-Methylphenol	1.495	1.603	7.3	TM
19	**TM	n-Nitrosodi-n-propylamine	0.8617	0.9165	6.4	**TM
20	TM	Hexachloroethane	0.5857	0.6139	4.8	TM
21	I	Napthalene-D8(IS)	ISTD			I
22	S	Nitrobenzene-D5(S)	0.2815	0.2892	2.7	S
23	TM	Nitrobenzene	0.3035	0.3167	4.3	TM
24	TM	Isophorone	0.5676	0.5830	2.7	TM
25	*TM	2-Nitrophenol	0.2289	0.2431	6.2	*TM
26	TM	2,4-Dimethylphenol	0.3413	0.3519	3.1	TM
27	TM	Benzoic acid	0.2353	0.2568	9.1	TM
28	TM	Bis (2-chloroethoxy) methane	0.3734	0.3832	2.6	TM
29	*TM	2,4-Dichlorophenol	0.3365	0.3502	4.1	*TM
30	TM	1,2,4-Trichlorobenzene	0.3714	0.3799	2.3	TM
31	TM	3,4-Dimethylphenol	0.4382	0.4515	3.0	TM
32	TM	Napthalene	1.100	1.111	1.0	TM
33	TM	4-Chloroaniline	0.3904	0.4051	3.8	TM
34	TM	2,6-Dichlorophenol	0.3202	0.3277	2.3	TM
35	TM	Hexachloropropene	0.2202	0.2351	6.8	TM
36	*TM	Hexachlorobutadiene	0.2109	0.2196	4.1	*TM
37	TM	Caprolactum	0.1079	0.1114	3.3	TM
38	*TM	4-Chloro-3-methylphenol	0.3194	0.3380	5.8	*TM
39	TM	2-Methylnapthalene	0.7552	0.7771	2.9	TM
40	TM	1-Methylnapthalene	0.7730	0.7916	2.4	TM

Average

5.9

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 08/10/19
Instrument: Yoda
Cal. Date: 08/06/19
Data File: 0806Y092.D

		Compound	MEAN	CCRF	%D		%Drift
41	I	Acenaphthene-D10(IS)	ISTD			I	
42	**TMQ	Hexachlorocyclopentadiene	0.1088	0.1137	4.5	**TMQ	5.2
43	TM	1,2,4,5-Tetrachlorobenzene	0.6731	0.6609	1.8	TM	
44	*TM	2,4,6-Trichlorophenol	0.4197	0.4174	0.54	*TM	
45	TM	2,4,5-Trichlorophenol	0.4447	0.4428	0.43	TM	
46	S	2-Fluorobiphenyl(S)	1.437	1.363	5.2	S	
47	TM	1,1'-Biphenyl	1.703	1.645	3.5	TM	
48	TM	2-Chloronaphthalene	1.337	1.290	3.5	TM	
49	TM	2-Nitroaniline	0.2807	0.2795	0.42	TM	
50	TM	Dimethyl phthalate	1.577	1.541	2.3	TM	
51	TM	2,6-DNT	0.3778	0.3794	0.44	TM	
52	TM	Acenaphthylene	2.099	2.042	2.7	TM	
53	TM	3-Nitroaniline	0.3730	0.3854	3.3	TM	
54	*TM	Acenaphthene	1.312	1.259	4.0	*TM	
55	**TMQ	2,4-Dinitrophenol	0.1525	0.1666	9.3	**TMQ	7.5
56	**TMQ	4-Nitrophenol	0.1113	0.1400	26	**TMQ	5.9
57	TM	Dibenzofuran	1.939	1.865	3.8	TM	
58	TM	2,4-DNT	0.5099	0.5158	1.2	TM	
59	TM	2,3,4,6-Tetrachlorophenol	0.3535	0.3573	1.1	TM	
60	TM	Diethyl phthalate	1.471	1.441	2.1	TM	
61	TM	4-Chlorophenyl phenyl ether	0.8028	0.7742	3.6	TM	
62	TM	Fluorene	1.515	1.451	4.3	TM	
63	TM	4-Nitroaniline	0.3514	0.3749	6.7	TM	
64	S	2,4,6-Tribromophenol(S)	0.2671	0.2669	0.10	S	
65	I	Phenanthrene-D10(IS)	ISTD			I	
66	TMQ	4,6-Dinitro-2-methylphenol	0.1476	0.1624	10	TMQ	1.4
67	TM	Diphenyl amine	0.5970	0.5700	4.5	TM	
68	*TM	n-Nitrosodiphenylamine	0.5970	0.5700	4.5	*TM	
69	TM	1,2-Diphenylhydrazine	0.5805	0.6122	5.5	TM	
70	TM	4-Bromophenyl phenyl ether	0.2586	0.2535	2.0	TM	
71	TM	Hexachlorobenzene	0.2799	0.2715	3.0	TM	
72	TM	Atrazine	0.2292	0.2103	8.2	TM	
73	*TMQ	Pentachlorophenol	0.0904	0.0950	5.1	*TMQ	5.4
74	TM	Phenanthrene	1.134	1.074	5.3	TM	
75	TM	Anthracene	1.185	1.144	3.4	TM	
76	TM	Carbazol	1.092	1.038	5.0	TM	
77	TM	Di-n-butylphthalate	1.238	1.193	3.7	TM	
78	*TM	Fluoranthene	1.290	1.238	4.1	*TM	
79	I	Chrysene-D12(IS)	ISTD			I	
80	TMQ	Benzidine	0.3694	0.1315	64	TMQ	61 *NT
Average					5.9		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 08/10/19
Instrument: Yoda
Cal. Date: 08/06/19
Data File: 0806Y092.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Pyrene	1.478	1.454	1.6	TM
82	S	Terphenyl-D14(S)	1.056	1.002	5.1	S
83	TM	Butyl benzylphthalate	0.6250	0.6157	1.5	TM
84	TM	3,3'-Dichlorobenzidine	0.4402	0.5005	14	TM
85	TM	Benz (a) anthracene	1.405	1.342	4.5	TM
86	TM	Bis (2-ethylhexyl) phthalate	0.7984	0.7721	3.3	TM
87	TM	Chrysene	1.404	1.347	4.1	TM
88	*TM	Di-n-octylphthalate	1.505	1.461	2.9	*TM
89	I	Perylene-D12(IS)	ISTD			I
90	TM	Benzo (b) fluoranthene	1.286	1.189	7.5	TM
91	TM	Benzo (k) fluoranthene	1.179	1.193	1.2	TM
92	*TM	Benzo (a) pyrene	1.183	1.150	2.8	*TM
93	TM	Indeno (1,2,3-cd) pyrene	1.403	1.328	5.4	TM
94	TM	Dibenz (a,h) anthracene	1.223	1.173	4.1	TM
95	TM	Benzo (g,h,i) perylene	1.146	1.102	3.8	TM
96						
97						
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120						

Average

4.4

Data File : M:\YODA\DATA\Y190806\0806Y092.D
 Acq On : 10 Aug 19 4:04
 Sample : 50ug/ml 8270 08/06/19 (1)
 Misc :

Vial: 92
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 11 11:08 2019

Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.96	152	227727	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.42	136	976863	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.46	164	593536	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.21	188	1218093	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.32	240	1076371	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.05	264	1303378	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.35	112	802100	109.46312	ppb	0.02
Spiked Amount 200.000			Recovery =	54.732%		
6) Phenol-D6 (S)	4.60	99	859519	107.36566	ppb	0.01
Spiked Amount 200.000			Recovery =	53.683%		
22) Nitrobenzene-D5 (S)	5.62	82	353121	51.36636	ppb	0.00
Spiked Amount 100.000			Recovery =	51.366%		
46) 2-Fluorobiphenyl (S)	7.68	172	1010973	47.42395	ppb	0.00
Spiked Amount 100.000			Recovery =	47.424%		
64) 2,4,6-Tribromophenol (S)	9.40	330	396014	99.90090	ppb	0.00
Spiked Amount 200.000			Recovery =	49.951%		
82) Terphenyl-D14 (S)	12.08	244	1348669	47.46673	ppb	0.00
Spiked Amount 100.000			Recovery =	47.467%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.47	58	6986	5.45816		56
3) n-Nitrosodimethylamine	1.69	42	87384	55.37348	ppb	84
4) Pyridine	1.70	79	235621	53.10430	ppb	93
7) Phenol	4.61	94	569321	53.62660	ppb	96
8) Aniline	4.60	93	529878	51.12732	ppb	# 78
9) Bis (2-chloroethyl) ether	4.68	63	217270	53.76792	ppb	83
10) 2-Chlorophenol	4.74	128	494774	55.09242	ppb	93
11) 1,3-DCB	4.89	146	549854	53.35098	ppb	99
12) 1,4-DCB	4.99	146	551058	52.91705	ppb	100
13) Benzyl alcohol	5.16	108	271472	55.78690	ppb	95
14) 1,2-DCB	5.15	146	513755	52.82457	ppb	99
15) 2-Methylphenol	5.30	107	382221	53.14121	ppb	94
16) Bis (2-chloroisopropyl) et	5.28	45	316380	53.37261	ppb	# 77
17) Acetophenone	5.45	105	565666	53.25181	ppb	96
18) 3&4-Methylphenol	5.48	107	912794	107.25682	ppb	95
19) n-Nitrosodi-n-propylamine	5.45	70	260899	53.18414	ppb	96
20) Hexachloroethane	5.52	117	174744	52.40755	ppb	98
23) Nitrobenzene	5.64	77	386761	52.17395	ppb	94
24) Isophorone	5.91	82	711884	51.35486	ppb	92
25) 2-Nitrophenol	6.01	139	296831	53.10940	ppb	92
26) 2,4-Dimethylphenol	6.07	122	429664	51.55316	ppb	99
27) Benzoic acid	6.28	105	313519	54.56674	ppb	98
28) Bis (2-chloroethoxy) metha	6.16	93	467972	51.31531	ppb	97
29) 2,4-Dichlorophenol	6.29	162	427577	52.03582	ppb	99
30) 1,2,4-Trichlorobenzene	6.36	180	463875	51.14615	ppb	99
31) 3,4-Dimethylphenol	6.42	107	551275	51.51387	ppb	98
32) Naphthalene	6.45	128	1356867	50.50152	ppb	99
33) 4-Chloroaniline	6.54	127	494714	51.89147	ppb	96
34) 2,6-Dichlorophenol	6.54	162	400201	51.17385	ppb	97
35) Hexachloropropene	6.54	213	287091	53.37595	ppb	99
36) Hexachlorobutadiene	6.57	225	268168	52.05837	ppb	99
37) Caprolactum	6.99	55	136037	51.63390	ppb	# 86

Data File : M:\YODA\DATA\Y190806\0806Y092.D
 Acq On : 10 Aug 19 4:04
 Sample : 50ug/ml 8270 08/06/19 (1)
 Misc :

Vial: 92
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 11 11:08 2019

Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.13	107	412719	52.91774	ppb	90
39) 2-Methylnaphthalene	7.25	142	948937	51.45075	ppb	99
40) 1-Methylnaphthalene	7.36	142	966591	51.20369	ppb	99
42) Hexachlorocyclopentadiene	7.42	237	84384	47.39665	ppb	98
43) 1,2,4,5-Tetrachlorobenzene	7.45	216	490312	49.09491	ppb	100
44) 2,4,6-Trichlorophenol	7.60	196	309703	49.72919	ppb	100
45) 2,4,5-Trichlorophenol	7.66	196	328528	49.78611	ppb	95
47) 1,1'-Biphenyl	7.80	154	1220184	48.27451	ppb	99
48) 2-Chloronaphthalene	7.82	162	956871	48.24003	ppb	99
49) 2-Nitroaniline	7.97	65	207393	49.79217	ppb	96
50) Dimethyl phthalate	8.17	163	1143314	48.85929	ppb	100
51) 2,6-DNT	8.25	165	281484	50.21819	ppb	98
52) Acenaphthylene	8.30	152	1515027	48.63986	ppb	100
53) 3-Nitroaniline	8.46	138	285919	51.66380	ppb #	88
54) Acenaphthene	8.50	154	934229	48.00645	ppb	99
55) 2,4-Dinitrophenol	8.62	184	123601	46.26782	ppb	94
56) 4-Nitrophenol	8.72	65	103901	47.05228	ppb	90
57) Dibenzofuran	8.71	168	1383334	48.08823	ppb	97
58) 2,4-DNT	8.74	165	382695	50.57780	ppb #	79
59) 2,3,4,6-Tetrachlorophenol	8.88	232	265099	50.54344	ppb	93
60) Diethyl phthalate	9.00	149	1068949	48.96556	ppb	96
61) 4-Chlorophenyl phenyl ethe	9.11	204	574391	48.21676	ppb	99
62) Fluorene	9.11	166	1076393	47.86722	ppb	99
63) 4-Nitroaniline	9.19	138	278112	53.33060	ppb #	89
66) 4,6-Dinitro-2-methylphenol	9.23	198	247291	49.32329	ppb #	87
67) Diphenyl amine	9.27	169	1735716	95.47377	ppb	98
68) n-Nitrosodiphenylamine	9.27	169	1735716	95.47377	ppb	98
69) 1,2-Diphenylhydrazine	9.29	77	932143	52.73127	ppb	90
70) 4-Bromophenyl phenyl ether	9.68	248	385987	49.01136	ppb	92
71) Hexachlorobenzene	9.75	284	413336	48.49464	ppb	90
72) Atrazine	9.90	200	160138	22.94722	ppb	99
73) Pentachlorophenol	10.01	266	144640	47.32386	ppb	99
74) Phenanthrene	10.24	178	1635124	47.34180	ppb	100
75) Anthracene	10.30	178	1742418	48.29569	ppb	100
76) Carbazol	10.51	167	1580030	47.49741	ppb	99
77) Di-n-butylphthalate	10.90	149	1816232	48.16226	ppb	99
78) Fluoranthene	11.63	202	1884643	47.97015	ppb	99
80) Benzidine	11.82	184	176954	19.35197	ppb	99
81) Pyrene	11.90	202	1956376	49.20080	ppb	99
83) Butyl benzylphthalate	12.65	149	828468	49.25853	ppb	99
84) 3,3'-Dichlorobenzidine	13.29	252	673347	56.84779	ppb #	97
85) Benz (a) anthracene	13.31	228	1805411	47.76733	ppb	99
86) Bis (2-ethylhexyl) phthala	13.31	149	1038801	48.35101	ppb	99
87) Chrysene	13.35	228	1811724	47.95236	ppb	100
88) Di-n-octylphthalate	14.04	149	1965492	48.53160	ppb	98
90) Benzo (b) fluoranthene	14.55	252	1936903	46.22612	ppb	98
91) Benzo (k) fluoranthene	14.58	252	1944083	50.59100	ppb	98
92) Benzo (a) pyrene	14.97	252	1873443	48.58772	ppb	98
93) Indeno (1,2,3-cd) pyrene	16.77	276	2163718	47.31742	ppb	95
94) Dibenz (a,h) anthracene	16.78	278	1911452	47.96204	ppb	96
95) Benzo (g,h,i) perylene	17.28	276	1795699	48.08517	ppb	94

Quantitation Report

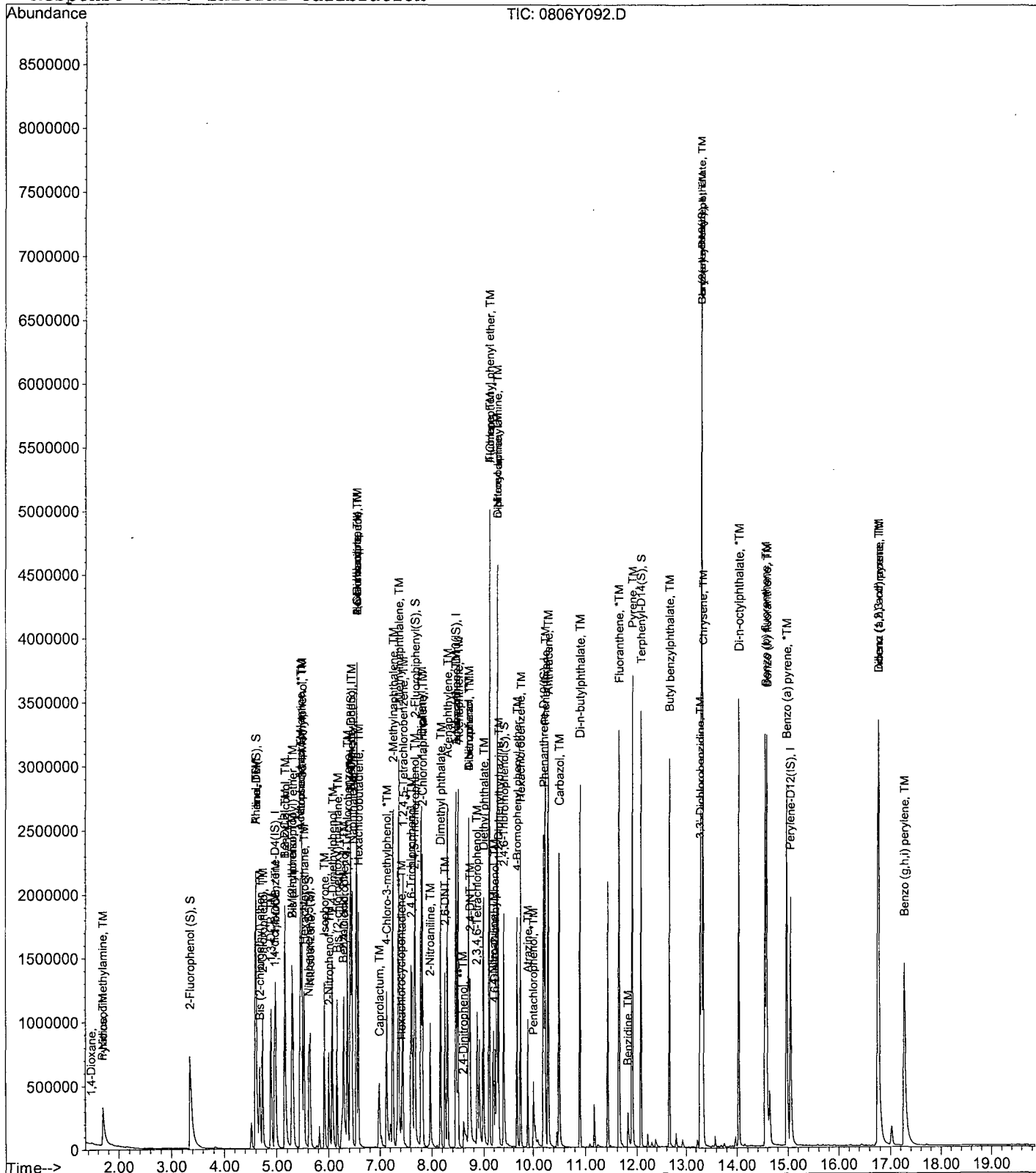
Data File : M:\YODA\DATA\Y190806\0806Y092.D
Acq On : 10 Aug 19 4:04
Sample : 50ug/ml 8270 08/06/19 (1)
Misc :

Vial: 92
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Aug 11 11:08 2019

Quant Results File: Y0806NC.RES

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Aug 08 11:05:08 2019
Response via : Initial Calibration



Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 08/11/19
Instrument: Yoda
Initial Cal. Date: 08/06/19
Data File: 0806Y097.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I	
2	L	1,4-Dioxane	0.1992	0.2180	9.5	L	1.2
3	TM	n-Nitrosodimethylamine	0.2772	0.2863	3.3	TM	
4	TM	Pyridine	0.7793	0.7839	0.58	TM	
5	S	2-Fluorophenol (S)	1.287	1.335	3.8	S	
6	S	Phenol-D6 (S)	1.406	1.429	1.6	S	
7	*TM	Phenol	1.865	1.869	0.20	*TM	
8	TM	Aniline	1.820	1.741	4.4	TM	
9	TM	Bis (2-chloroethyl) ether	0.7098	0.7064	0.48	TM	
10	TM	2-Chlorophenol	1.577	1.580	0.17	TM	
11	TM	1,3-DCB	1.810	1.775	2.0	TM	
12	*TM	1,4-DCB	1.829	1.795	1.9	*TM	
13	TM	Benzyl alcohol	0.8547	0.8629	0.95	TM	
14	TM	1,2-DCB	1.708	1.682	1.5	TM	
15	TM	2-Methylphenol	1.263	1.235	2.2	TM	
16	TM	Bis (2-chloroisopropyl) ether	1.041	1.018	2.2	TM	
17	TM	Acetophenone	1.866	1.833	1.8	TM	
18	TM	3&4-Methylphenol	1.495	1.460	2.3	TM	
19	**TM	n-Nitrosodi-n-propylamine	0.8617	0.8330	3.3	**TM	
20	TM	Hexachloroethane	0.5857	0.5770	1.5	TM	
21	I	Napthalene-D8(IS)	ISTD			I	
22	S	Nitrobenzene-D5(S)	0.2815	0.2875	2.1	S	
23	TM	Nitrobenzene	0.3035	0.3043	0.25	TM	
24	TM	Isophorone	0.5676	0.5595	1.4	TM	
25	*TM	2-Nitrophenol	0.2289	0.2289	0.00	*TM	
26	TM	2,4-Dimethylphenol	0.3413	0.3317	2.8	TM	
27	TM	Benzoic acid	0.2353	0.1887	20	TM	
28	TM	Bis (2-chloroethoxy) methane	0.3734	0.3620	3.1	TM	
29	*TM	2,4-Dichlorophenol	0.3365	0.3334	0.91	*TM	
30	TM	1,2,4-Trichlorobenzene	0.3714	0.3623	2.4	TM	
31	TM	3,4-Dimethylphenol	0.4382	0.4263	2.7	TM	
32	TM	Napthalene	1.100	1.068	3.0	TM	
33	TM	4-Chloroaniline	0.3904	0.3890	0.36	TM	
34	TM	2,6-Dichlorophenol	0.3202	0.3061	4.4	TM	
35	TM	Hexachloropropene	0.2202	0.2262	2.7	TM	
36	*TM	Hexachlorobutadiene	0.2109	0.2098	0.53	*TM	
37	TM	Caprolactum	0.1079	0.1065	1.2	TM	
38	*TM	4-Chloro-3-methylphenol	0.3194	0.3199	0.17	*TM	
39	TM	2-Methylnapthalene	0.7552	0.7373	2.4	TM	
40	TM	1-Methylnapthalene	0.7730	0.7484	3.2	TM	
Average					2.6		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 08/11/19
Instrument: Yoda
Cal. Date: 08/06/19
Data File: 0806Y097.D

		Compound	MEAN	CCRF	%D	%Drift
41	I	Acenaphthene-D10(IS)	ISTD			I
42	**TMQ	Hexachlorocyclopentadiene	0.1088	0.1095	0.60	**TMQ 6.9
43	TM	1,2,4,5-Tetrachlorobenzene	0.6731	0.6525	3.0	TM
44	*TM	2,4,6-Trichlorophenol	0.4197	0.4095	2.4	*TM
45	TM	2,4,5-Trichlorophenol	0.4447	0.4252	4.4	TM
46	S	2-Fluorobiphenyl(S)	1.437	1.400	2.5	S
47	TM	1,1'-Biphenyl	1.703	1.623	4.7	TM
48	TM	2-Chloronaphthalene	1.337	1.283	4.0	TM
49	TM	2-Nitroaniline	0.2807	0.2762	1.6	TM
50	TM	Dimethyl phthalate	1.577	1.509	4.3	TM
51	TM	2,6-DNT	0.3778	0.3672	2.8	TM
52	TM	Acenaphthylene	2.099	2.010	4.2	TM
53	TM	3-Nitroaniline	0.3730	0.3706	0.63	TM
54	*TM	Acenaphthene	1.312	1.255	4.3	*TM
55	**TMQ	2,4-Dinitrophenol	0.1525	0.1540	1.0	**TMQ 13
56	**TMQ	4-Nitrophenol	0.1113	0.1330	20	**TMQ 9.7
57	TM	Dibenzofuran	1.939	1.881	3.0	TM
58	TM	2,4-DNT	0.5099	0.5098	0.03	TM
59	TM	2,3,4,6-Tetrachlorophenol	0.3535	0.3522	0.37	TM
60	TM	Diethyl phthalate	1.471	1.430	2.8	TM
61	TM	4-Chlorophenyl phenyl ether	0.8028	0.7719	3.8	TM
62	TM	Fluorene	1.515	1.445	4.7	TM
63	TM	4-Nitroaniline	0.3514	0.3562	1.3	TM
64	S	2,4,6-Tribromophenol(S)	0.2671	0.2732	2.3	S
65	I	Phenanthrene-D10(IS)	ISTD			I
66	TMQ	4,6-Dinitro-2-methylphenol	0.1476	0.1592	7.8	TMQ 2.9
67	TM	Diphenyl amine	0.5970	0.5650	5.4	TM
68	*TM	n-Nitrosodiphenylamine	0.5970	0.5650	5.4	*TM
69	TM	1,2-Diphenylhydrazine	0.5805	0.6145	5.9	TM
70	TM	4-Bromophenyl phenyl ether	0.2586	0.2551	1.4	TM
71	TM	Hexachlorobenzene	0.2799	0.2739	2.1	TM
72	TM	Atrazine	0.2292	0.2200	4.0	TM
73	*TMQ	Pentachlorophenol	0.0904	0.0984	8.9	*TMQ 2.7
74	TM	Phenanthrene	1.134	1.079	4.9	TM
75	TM	Anthracene	1.185	1.143	3.5	TM
76	TM	Carbazol	1.092	1.053	3.6	TM
77	TM	Di-n-butylphthalate	1.238	1.214	2.0	TM
78	*TM	Fluoranthene	1.290	1.252	2.9	*TM
79	I	Chrysene-D12(IS)	ISTD			I
80	TMQ	Benzidine	0.3694	0.2443	34	TMQ 33 *NT
Average					4.6	

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 08/11/19
Instrument: Yoda
Cal. Date: 08/06/19
Data File: 0806Y097.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Pyrene	1.478	1.423	3.7	TM
82	S	Terphenyl-D14(S)	1.056	1.035	2.0	S
83	TM	Butyl benzylphthalate	0.6250	0.5999	4.0	TM
84	TM	3,3'-Dichlorobenzidine	0.4402	0.4748	7.9	TM
85	TM	Benz (a) anthracene	1.405	1.324	5.7	TM
86	TM	Bis (2-ethylhexyl) phthalate	0.7984	0.7589	4.9	TM
87	TM	Chrysene	1.404	1.353	3.6	TM
88	*TM	Di-n-octylphthalate	1.505	1.457	3.2	*TM
89	I	Perylene-D12(IS)	ISTD			I
90	TM	Benzo (b) fluoranthene	1.286	1.295	0.67	TM
91	TM	Benzo (k) fluoranthene	1.179	1.091	7.5	TM
92	*TM	Benzo (a) pyrene	1.183	1.151	2.7	*TM
93	TM	Indeno (1,2,3-cd) pyrene	1.403	1.324	5.7	TM
94	TM	Dibenz (a,h) anthracene	1.223	1.168	4.5	TM
95	TM	Benzo (g,h,i) perylene	1.146	1.081	5.7	TM
96						
97						
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120						

Average

4.4

Data File : M:\YODA\DATA\Y190806\0806Y097.D
 Acq On : 11 Aug 19 13:02
 Sample : 50ug/ml 8270 08/06/19 (2)
 Misc :

Vial: 97
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 11 13:14 2019

Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.96	152	225604	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.42	136	928988	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.47	164	543418	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.21	188	1103181	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.32	240	1000989	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.05	264	1215670	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.34	112	753157	103.75106	ppb	0.01
Spiked Amount 200.000			Recovery =	51.876%		
6) Phenol-D6 (S)	4.60	99	805836	101.60716	ppb	0.01
Spiked Amount 200.000			Recovery =	50.804%		
22) Nitrobenzene-D5 (S)	5.62	82	333816	51.06060	ppb	0.00
Spiked Amount 100.000			Recovery =	51.061%		
46) 2-Fluorobiphenyl (S)	7.68	172	951082	48.72919	ppb	0.00
Spiked Amount 100.000			Recovery =	48.729%		
64) 2,4,6-Tribromophenol (S)	9.40	330	371203	102.27828	ppb	0.00
Spiked Amount 200.000			Recovery =	51.139%		
82) Terphenyl-D14 (S)	12.08	244	1294726	48.99982	ppb	0.00
Spiked Amount 100.000			Recovery =	49.000%		

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.45	58	6149	4.93770		56
3) n-Nitrosodimethylamine	1.67	42	80729	51.63774	ppb	96
4) Pyridine	1.68	79	221051	50.28934	ppb	96
7) Phenol	4.60	94	526942	50.10183	ppb	92
8) Aniline	4.60	93	490871	47.80929	ppb	# 79
9) Bis (2-chloroethyl) ether	4.67	63	199197	49.75927	ppb	87
10) 2-Chlorophenol	4.73	128	445589	50.08263	ppb	93
11) 1,3-DCB	4.89	146	500482	49.01751	ppb	99
12) 1,4-DCB	4.98	146	506223	49.06908	ppb	98
13) Benzyl alcohol	5.16	108	243330	50.47433	ppb	95
14) 1,2-DCB	5.15	146	474427	49.23989	ppb	100
15) 2-Methylphenol	5.30	107	348387	48.89299	ppb	94
16) Bis (2-chloroisopropyl) et	5.28	45	287130	48.89402	ppb	# 73
17) Acetophenone	5.45	105	516900	49.11889	ppb	96
18) 3&4-Methylphenol	5.48	107	823737	97.70312	ppb	94
19) n-Nitrosodi-n-propylamine	5.45	70	234900	48.33486	ppb	97
20) Hexachloroethane	5.52	117	162706	49.25642	ppb	96
23) Nitrobenzene	5.64	77	353346	50.12274	ppb	93
24) Isophorone	5.91	82	649708	49.28492	ppb	93
25) 2-Nitrophenol	6.01	139	265754	49.99948	ppb	94
26) 2,4-Dimethylphenol	6.07	122	385240	48.60503	ppb	99
27) Benzoic acid	6.26	105	219121m	40.10252	ppb	99
28) Bis (2-chloroethoxy) metha	6.16	93	420381	48.47231	ppb	98
29) 2,4-Dichlorophenol	6.29	162	387146	49.54347	ppb	100
30) 1,2,4-Trichlorobenzene	6.36	180	420740	48.78084	ppb	98
31) 3,4-Dimethylphenol	6.41	107	494977	48.63674	ppb	99
32) Napthalene	6.45	128	1239839	48.52394	ppb	99
33) 4-Chloroaniline	6.54	127	451698	49.82112	ppb	98
34) 2,6-Dichlorophenol	6.54	162	355490	47.79923	ppb	98
35) Hexachloropropene	6.54	213	262676	51.35350	ppb	98
36) Hexachlorobutadiene	6.57	225	243640	49.73427	ppb	100
37) Caprolactum	6.99	55	123715	49.37690	ppb	# 87

Data File : M:\YODA\DATA\Y190806\0806Y097.D
 Acq On : 11 Aug 19 13:02
 Sample : 50ug/ml 8270 08/06/19 (2)
 Misc :

Vial: 97
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 11 13:14 2019

Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.13	107	371497	50.08708	ppb	96
39) 2-Methylnaphthalene	7.25	142	856185	48.81413	ppb	97
40) 1-Methylnaphthalene	7.36	142	869075	48.41047	ppb	99
42) Hexachlorocyclopentadiene	7.42	237	74376	46.53200	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.45	216	443250	48.47588	ppb	99
44) 2,4,6-Trichlorophenol	7.60	196	278185	48.78797	ppb	98
45) 2,4,5-Trichlorophenol	7.67	196	288832	47.80729	ppb	99
47) 1,1'-Biphenyl	7.80	154	1102424	47.63808	ppb	99
48) 2-Chloronaphthalene	7.83	162	871824	48.00606	ppb	98
49) 2-Nitroaniline	7.97	65	187643	49.20535	ppb	86
50) Dimethyl phthalate	8.17	163	1024855	47.83625	ppb	99
51) 2,6-DNT	8.25	165	249399	48.59763	ppb	88
52) Acenaphthylene	8.30	152	1365487	47.88203	ppb	100
53) 3-Nitroaniline	8.46	138	251750	49.68507	ppb #	93
54) Acenaphthene	8.50	154	852308	47.83611	ppb	100
55) 2,4-Dinitrophenol	8.62	184	104620m	43.70795	ppb	95
56) 4-Nitrophenol	8.73	65	90370	45.13547	ppb	95
57) Dibenzofuran	8.71	168	1277462	48.50347	ppb	96
58) 2,4-DNT	8.74	165	346261	49.98317	ppb	84
59) 2,3,4,6-Tetrachlorophenol	8.87	232	239223	49.81644	ppb	96
60) Diethyl phthalate	9.00	149	971026	48.58225	ppb	97
61) 4-Chlorophenyl phenyl ethe	9.11	204	524350	48.07560	ppb	97
62) Fluorene	9.11	166	981480	47.67183	ppb	99
63) 4-Nitroaniline	9.19	138	241934	50.67185	ppb	91
66) 4,6-Dinitro-2-methylphenol	9.23	198	219481	48.54831	ppb	90
67) Diphenyl amine	9.26	169	1558130	94.63303	ppb	100
68) n-Nitrosodiphenylamine	9.26	169	1558130	94.63303	ppb	100
69) 1,2-Diphenylhydrazine	9.29	77	847316	52.92548	ppb	96
70) 4-Bromophenyl phenyl ether	9.68	248	351763	49.31828	ppb	97
71) Hexachlorobenzene	9.75	284	377683	48.92734	ppb	96
72) Atrazine	9.90	200	151653	23.99498	ppb	99
73) Pentachlorophenol	10.01	266	135696	48.67088	ppb	100
74) Phenanthrene	10.24	178	1487507	47.55397	ppb	99
75) Anthracene	10.30	178	1575757	48.22574	ppb	99
76) Carbazol	10.51	167	1452323	48.20604	ppb	99
77) Di-n-butylphthalate	10.90	149	1674275	49.02256	ppb	99
78) Fluoranthene	11.64	202	1726918	48.53414	ppb	97
80) Benzidine	11.82	184	305644	33.64882	ppb	99
81) Pyrene	11.90	202	1780329	48.14517	ppb	99
83) Butyl benzylphthalate	12.65	149	750676	47.99444	ppb	94
84) 3,3'-Dichlorobenzidine	13.28	252	594118	53.93616	ppb	98
85) Benz (a) anthracene	13.31	228	1657014	47.14262	ppb	99
86) Bis (2-ethylhexyl) phthala	13.31	149	949616	47.52848	ppb	97
87) Chrysene	13.36	228	1692920	48.18225	ppb	100
88) Di-n-octylphthalate	14.04	149	1822579	48.39186	ppb #	96
90) Benzo (b) fluoranthene	14.56	252	1967198	50.33642	ppb	96
91) Benzo (k) fluoranthene	14.58	252	1658046	46.26044	ppb	99
92) Benzo (a) pyrene	14.98	252	1749369	48.64321	ppb	97
93) Indeno (1,2,3-cd) pyrene	16.78	276	2011263	47.15676	ppb	95
94) Dibenz (a,h) anthracene	16.78	278	1774821	47.74671	ppb	98
95) Benzo (g,h,i) perylene	17.28	276	1642473	47.15530	ppb	97

Quantitation Report

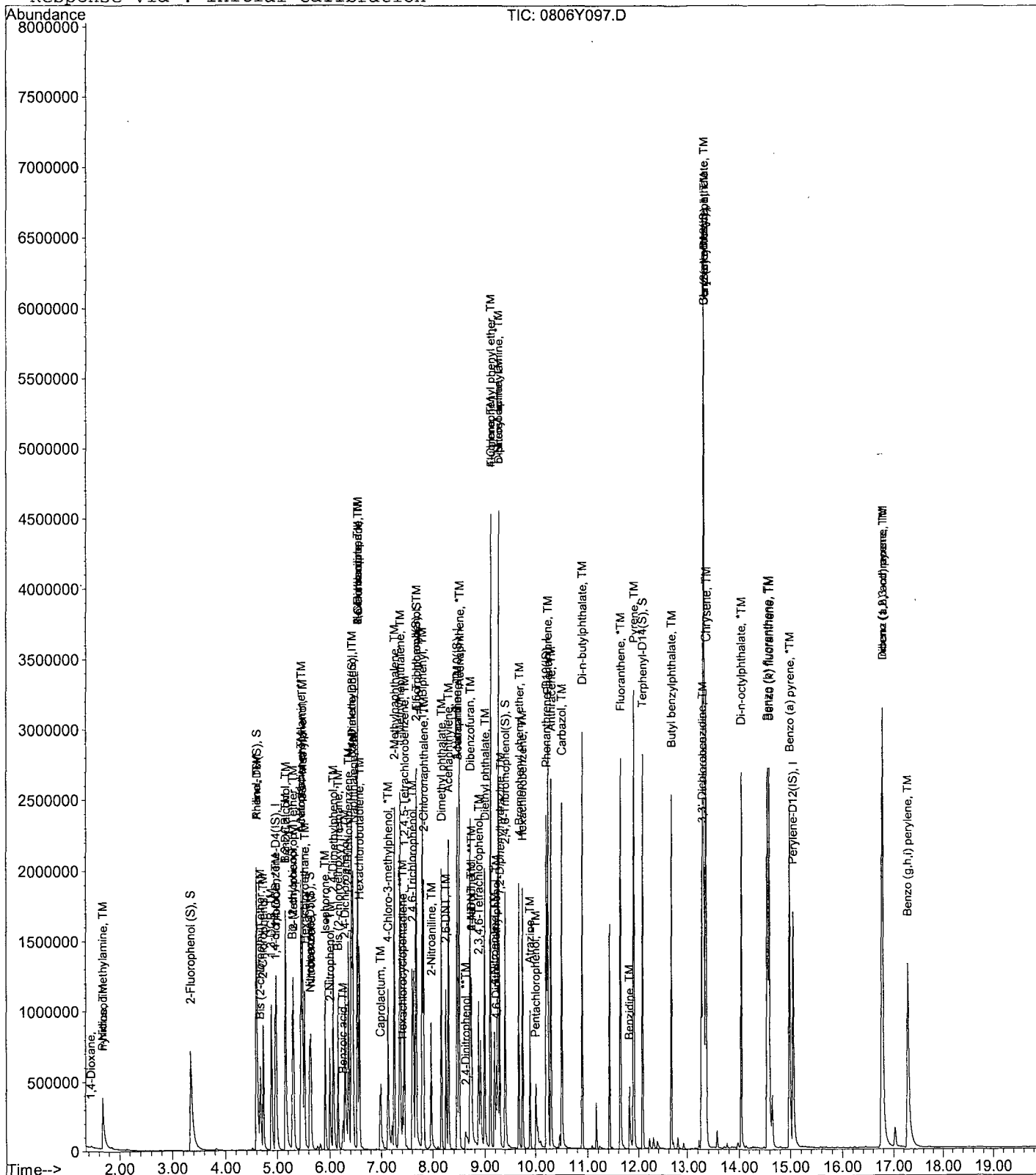
Data File : M:\YODA\DATA\Y190806\0806Y097.D
Acq On : 11 Aug 19 13:02
Sample : 50ug/ml 8270 08/06/19 (2)
Misc :

Vial: 97
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Aug 11 13:14 2019

Quant Results File: Y0806NC.RES

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Aug 08 11:05:08 2019
Response via : Initial Calibration

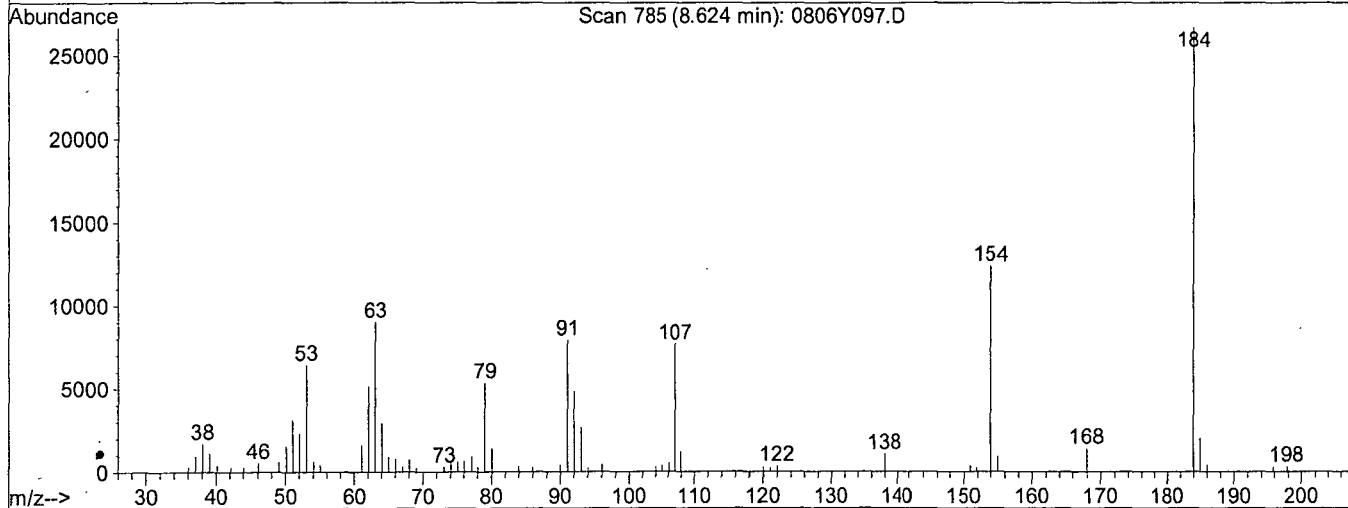
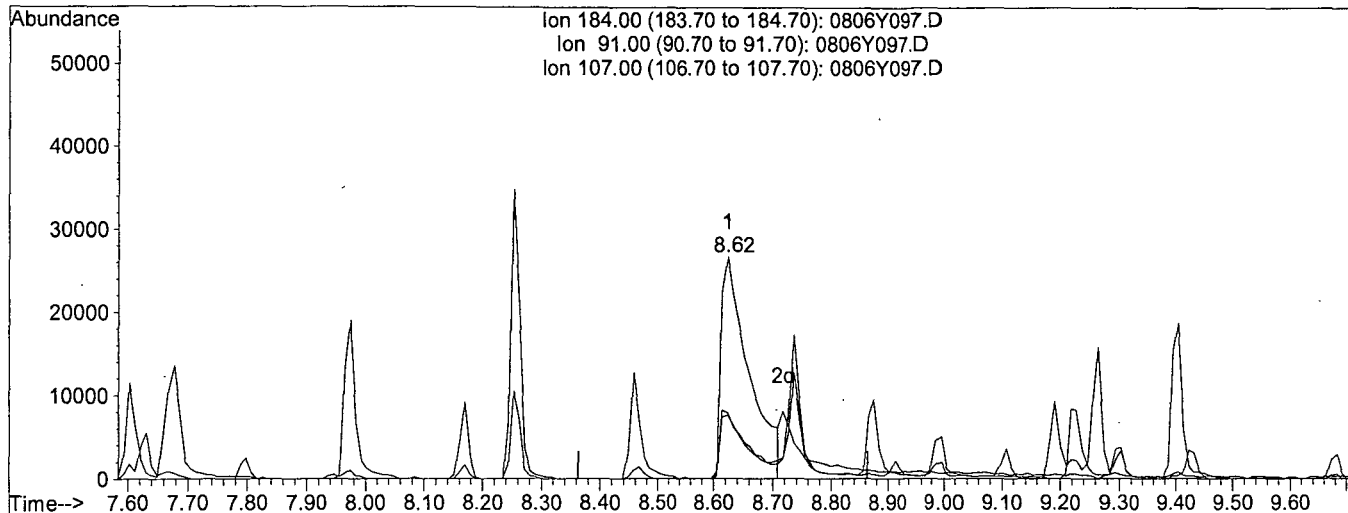


Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y097.D
 Acq On : 11 Aug 19 13:02
 Sample : 50ug/ml 8270 08/06/19 (2)
 Misc :
 Quant Time: Aug 27 9:46 2019

Vial: 97
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190822\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Multiple Level Calibration



TIC: 0806Y097.D

(55) 2,4-Dinitrophenol (**TM)

8.62min 37.9287ppb

response 85756

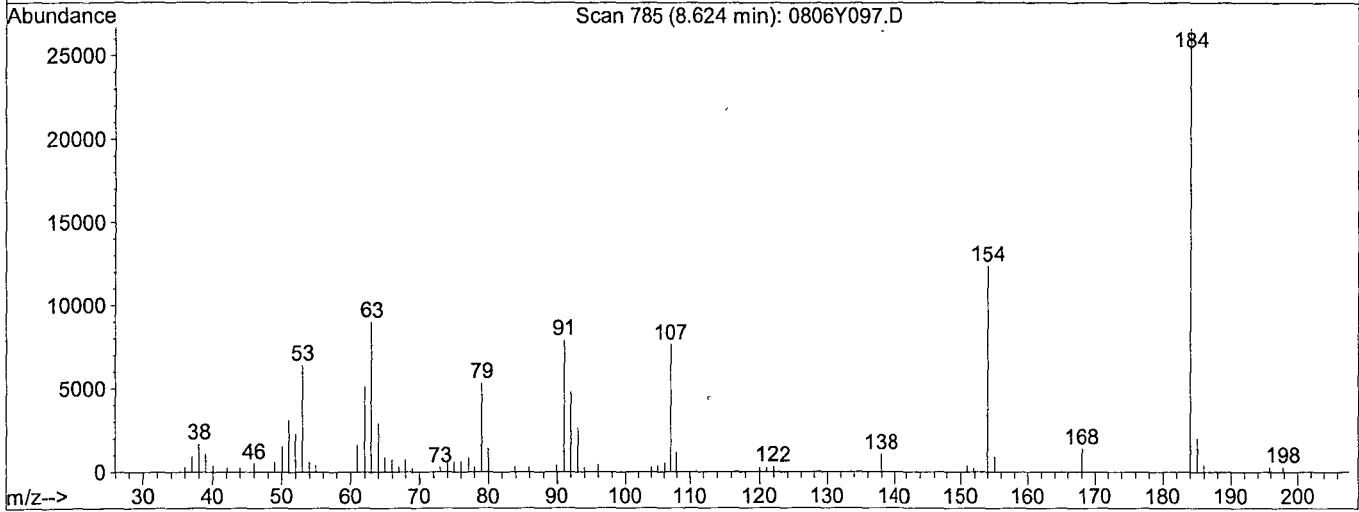
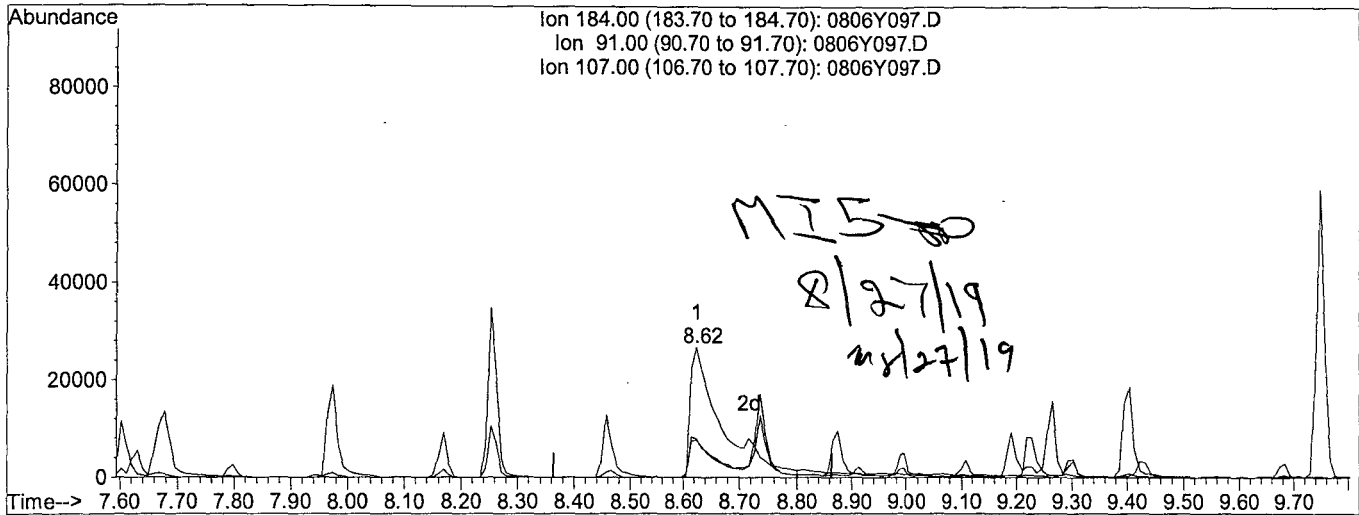
Ion	Exp%	Act%
184.00	100	100
91.00	32.70	28.72
107.00	29.50	28.45
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y097.D
 Acq On : 11 Aug 19 13:02
 Sample : 50ug/ml 8270 08/06/19 (2)
 Misc :
 Quant Time: Aug 11 13:14 2019

Vial: 97
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190822\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Multiple Level Calibration



TIC: 0806Y097.D

(55) 2,4-Dinitrophenol (**TM)

8.62min 43.7080ppb m

response 104620

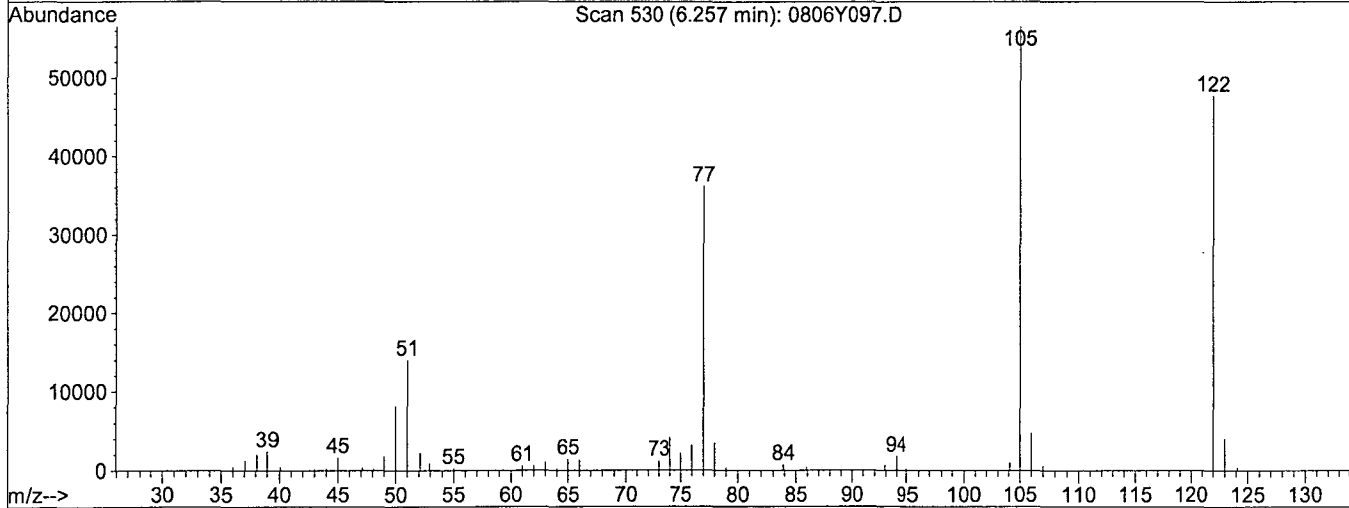
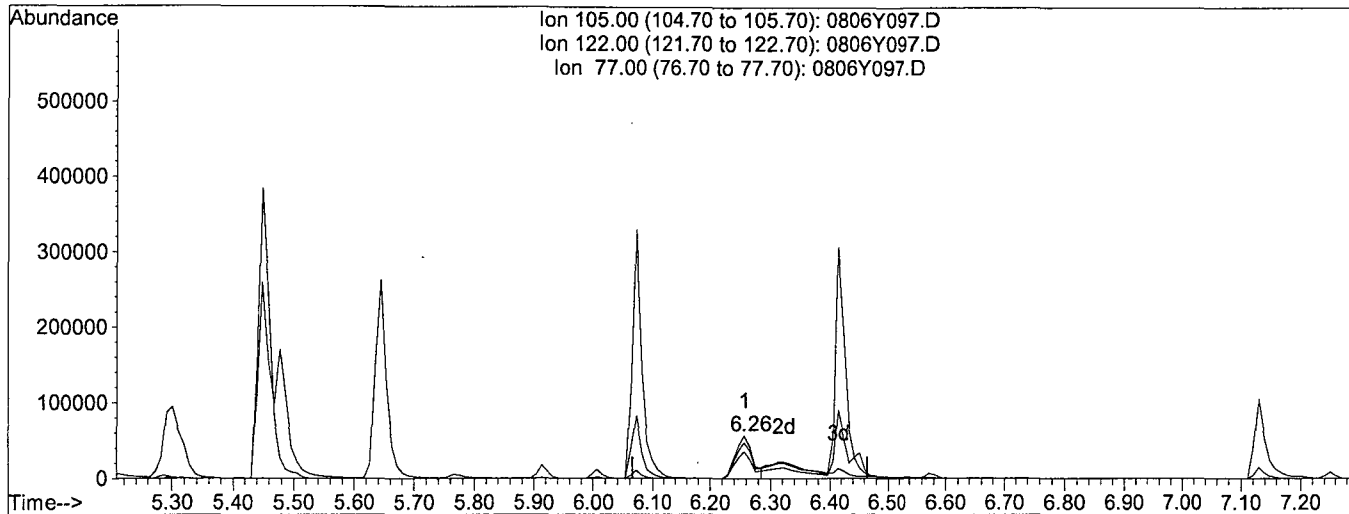
Ion	Exp%	Act%
184.00	100	100
91.00	32.70	29.59
107.00	29.50	28.60
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y097.D
 Acq On : 11 Aug 19 13:02
 Sample : 50ug/ml 8270 08/06/19 (2)
 Misc :
 Quant Time: Aug 27 9:47 2019

Vial: 97
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190822\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Multiple Level Calibration



TIC: 0806Y097.D

(27) Benzoic acid (TM)
 6.26min 20.6493ppb
 response 112828

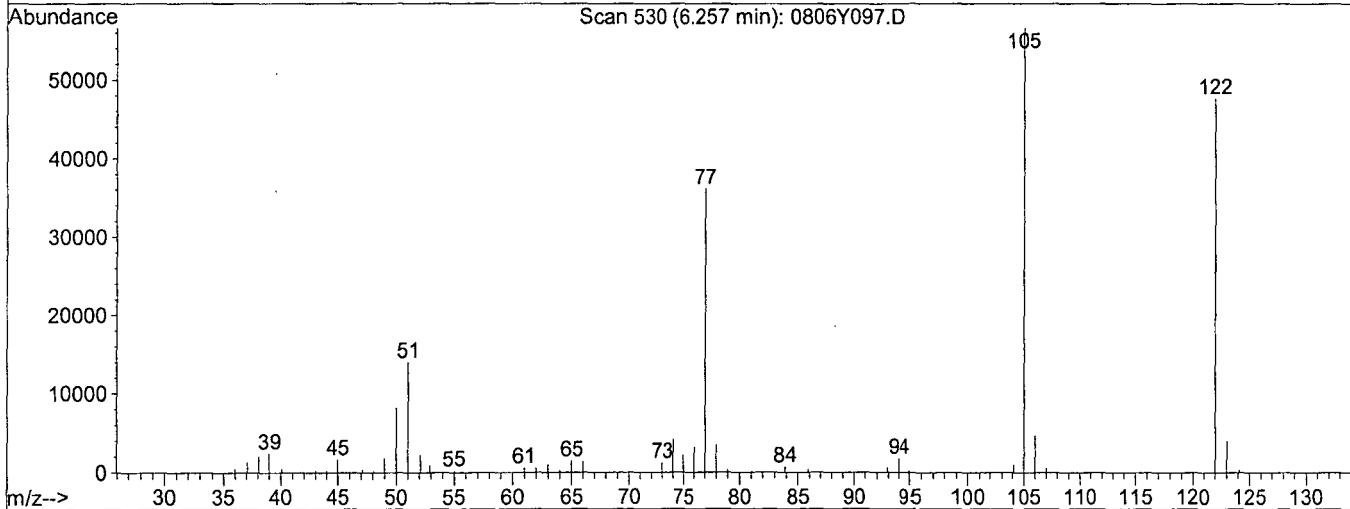
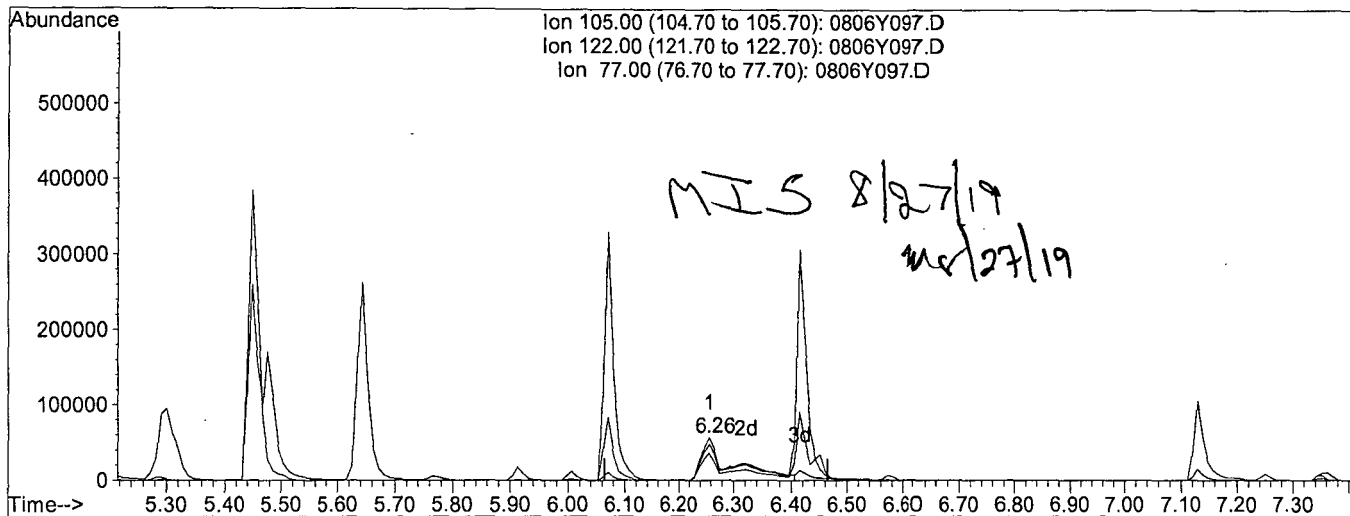
Ion	Exp%	Act%
105.00	100	100
122.00	83.60	83.75
77.00	65.60	63.36
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y097.D
 Acq On : 11 Aug 19 13:02
 Sample : 50ug/ml 8270 08/06/19 (2)
 Misc :
 Quant Time: Aug 11 13:14 2019

Vial: 97
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190822\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Multiple Level Calibration



TIC: 0806Y097.D

(27) Benzoic acid (TM)
 6.26min 40.1025ppb m
 response 219121

Ion	Exp%	Act%
105.00	100	100
122.00	83.60	84.25
77.00	65.60	63.79
0.00	0.00	0.00

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 08/12/19

Matrix: _____

Instrument: Yoda

Initial Cal. Date: 08/06/19

Data File: 0806Y122.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I
2	L	1,4-Dioxane	0.1992	0.2172	9.1	L 1.6
3	TM	n-Nitrosodimethylamine	0.2772	0.2903	4.7	TM
4	TM	Pyridine	0.7793	0.7484	4.0	TM
5	S	2-Fluorophenol (S)	1.287	1.422	10	S
6	S	Phenol-D6 (S)	1.406	1.509	7.3	S
7	*TM	Phenol	1.865	1.992	6.8	*TM
8	TM	Aniline	1.820	1.801	1.1	TM
9	TM	Bis (2-chloroethyl) ether	0.7098	0.7708	8.6	TM
10	TM	2-Chlorophenol	1.577	1.718	8.9	TM
11	TM	1,3-DCB	1.810	1.912	5.6	TM
12	*TM	1,4-DCB	1.829	1.903	4.0	*TM
13	TM	Benzyl alcohol	0.8547	0.9562	12	TM
14	TM	1,2-DCB	1.708	1.795	5.1	TM
15	TM	2-Methylphenol	1.263	1.354	7.2	TM
16	TM	Bis (2-chloroisopropyl) ether	1.041	1.107	6.4	TM
17	TM	Acetophenone	1.866	2.006	7.5	TM
18	TM	3&4-Methylphenol	1.495	1.584	5.9	TM
19	**TM	n-Nitrosodi-n-propylamine	0.8617	0.9197	6.7	**TM
20	TM	Hexachloroethane	0.5857	0.6096	4.1	TM
21	I	Napthalene-D8(IS)	ISTD			I
22	S	Nitrobenzene-D5(S)	0.2815	0.2957	5.1	S
23	TM	Nitrobenzene	0.3035	0.3178	4.7	TM
24	TM	Isophorone	0.5676	0.5930	4.5	TM
25	*TM	2-Nitrophenol	0.2289	0.2491	8.9	*TM
26	TM	2,4-Dimethylphenol	0.3413	0.3599	5.5	TM
27	TM	Benzoic acid	0.2353	0.2099	11	TM
28	TM	Bis (2-chloroethoxy) methane	0.3734	0.3848	3.1	TM
29	*TM	2,4-Dichlorophenol	0.3365	0.3558	5.7	*TM
30	TM	1,2,4-Trichlorobenzene	0.3714	0.3876	4.4	TM
31	TM	3,4-Dimethylphenol	0.4382	0.4543	3.7	TM
32	TM	Napthalene	1.100	1.115	1.4	TM
33	TM	4-Chloroaniline	0.3904	0.4062	4.0	TM
34	TM	2,6-Dichlorophenol	0.3202	0.3304	3.2	TM
35	TM	Hexachloropropene	0.2202	0.2368	7.5	TM
36	*TM	Hexachlorobutadiene	0.2109	0.2263	7.3	*TM
37	TM	Caprolactum	0.1079	0.1176	9.0	TM
38	*TM	4-Chloro-3-methylphenol	0.3194	0.3465	8.5	*TM
39	TM	2-Methylnapthalene	0.7552	0.7915	4.8	TM
40	TM	1-Methylnapthalene	0.7730	0.8105	4.9	TM

Average

6.1

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 08/12/19

Matrix: 0

Instrument: Yoda

Cal. Date: 08/06/19

Data File: 0806Y122.D

		Compound	MEAN	CCRF	%D		%Drift
41	I	Acenaphthene-D10(IS)	ISTD			I	
42	**TMQ	Hexachlorocyclopentadiene	0.1088	0.1312	21	**TMQ	1.6
43	TM	1,2,4,5-Tetrachlorobenzene	0.6731	0.6596	2.0	TM	
44	*TM	2,4,6-Trichlorophenol	0.4197	0.4212	0.35	*TM	
45	TM	2,4,5-Trichlorophenol	0.4447	0.4341	2.4	TM	
46	S	2-Fluorobiphenyl(S)	1.437	1.344	6.4	S	
47	TM	1,1'-Biphenyl	1.703	1.647	3.3	TM	
48	TM	2-Chloronaphthalene	1.337	1.273	4.8	TM	
49	TM	2-Nitroaniline	0.2807	0.2827	0.70	TM	
50	TM	Dimethyl phthalate	1.577	1.547	1.9	TM	
51	TM	2,6-DNT	0.3778	0.3854	2.0	TM	
52	TM	Acenaphthylene	2.099	2.030	3.3	TM	
53	TM	3-Nitroaniline	0.3730	0.3802	1.9	TM	
54	*TM	Acenaphthene	1.312	1.254	4.4	*TM	
55	**TMQ	2,4-Dinitrophenol	0.1525	0.1589	4.2	**TMQ	11
56	**TMQ	4-Nitrophenol	0.1113	0.1438	29	**TMQ	3.9
57	TM	Dibenzofuran	1.939	1.870	3.5	TM	
58	TM	2,4-DNT	0.5099	0.5206	2.1	TM	
59	TM	2,3,4,6-Tetrachlorophenol	0.3535	0.3692	4.5	TM	
60	TM	Diethyl phthalate	1.471	1.450	1.4	TM	
61	TM	4-Chlorophenyl phenyl ether	0.8028	0.7691	4.2	TM	
62	TM	Fluorene	1.515	1.457	3.9	TM	
63	TM	4-Nitroaniline	0.3514	0.3813	8.5	TM	
64	S	2,4,6-Tribromophenol(S)	0.2671	0.2736	2.4	S	
65	I	Phenanthrene-D10(IS)	ISTD			I	
66	TMQ	4,6-Dinitro-2-methylphenol	0.1476	0.1587	7.5	TMQ	3.1
67	TM	Diphenyl amine	0.5970	0.5650	5.4	TM	
68	*TM	n-Nitrosodiphenylamine	0.5970	0.5650	5.4	*TM	
69	TM	1,2-Diphenylhydrazine	0.5805	0.6065	4.5	TM	
70	TM	4-Bromophenyl phenyl ether	0.2586	0.2605	0.71	TM	
71	TM	Hexachlorobenzene	0.2799	0.2778	0.76	TM	
72	TM	Atrazine	0.2292	0.2010	12	TM	
73	*TMQ	Pentachlorophenol	0.0904	0.1075	19	*TMQ	4.4
74	TM	Phenanthrene	1.134	1.083	4.5	TM	
75	TM	Anthracene	1.185	1.135	4.2	TM	
76	TM	Carbazol	1.092	1.045	4.3	TM	
77	TM	Di-n-butylphthalate	1.238	1.221	1.4	TM	
78	*TM	Fluoranthene	1.290	1.252	3.0	*TM	
79	I	Chrysene-D12(IS)	ISTD			I	
80	TMQ	Benzidine	0.3694	0.1322	64	TMQ	61

Average

6.9

*NT

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 08/12/19
Instrument: Yoda
Cal. Date: 08/06/19
Data File: 0806Y122.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Pyrene	1.478	1.492	0.97	TM
82	S	Terphenyl-D14(S)	1.056	1.019	3.5	S
83	TM	Butyl benzylphthalate	0.6250	0.6397	2.3	TM
84	TM	3,3'-Dichlorobenzidine	0.4402	0.5206	18	TM
85	TM	Benz (a) anthracene	1.405	1.359	3.2	TM
86	TM	Bis (2-ethylhexyl) phthalate	0.7984	0.7744	3.0	TM
87	TM	Chrysene	1.404	1.353	3.6	TM
88	*TM	Di-n-octylphthalate	1.505	1.467	2.5	*TM
89	I	Perylene-D12(IS)	ISTD			I
90	TM	Benzo (b) fluoranthene	1.286	1.253	2.5	TM
91	TM	Benzo (k) fluoranthene	1.179	1.108	6.0	TM
92	*TM	Benzo (a) pyrene	1.183	1.150	2.8	*TM
93	TM	Indeno (1,2,3-cd) pyrene	1.403	1.335	4.9	TM
94	TM	Dibenz (a,h) anthracene	1.223	1.170	4.3	TM
95	TM	Benzo (g,h,i) perylene	1.146	1.106	3.5	TM
96						
97						
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117						
118						
119						
120						

Average

4.4

Data File : M:\YODA\DATA\Y190806\0806Y122.D
 Acq On : 12 Aug 19 00:46
 Sample : 50ug/ml 8270 08/06/19 (1)
 Misc :

Vial: 22
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 12 8:03 2019

Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.96	152	304246	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.42	136	1293195	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.46	164	806041	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.21	188	1659792	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.33	240	1441395	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.06	264	1786900	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.33	112	1081514	110.47426	ppb	0.00
Spiked Amount 200.000			Recovery =	55.237%		
6) Phenol-D6 (S)	4.59	99	1147721	107.30894	ppb	0.00
Spiked Amount 200.000			Recovery =	53.654%		
22) Nitrobenzene-D5 (S)	5.62	82	478043	52.52812	ppb	0.00
Spiked Amount 100.000			Recovery =	52.528%		
46) 2-Fluorobiphenyl (S)	7.68	172	1354157	46.77536	ppb	0.00
Spiked Amount 100.000			Recovery =	46.775%		
64) 2,4,6-Tribromophenol (S)	9.41	330	551300	102.40869	ppb	0.00
Spiked Amount 200.000			Recovery =	51.205%		
82) Terphenyl-D14 (S)	12.08	244	1835378	48.23791	ppb	0.00
Spiked Amount 100.000			Recovery =	48.238%		

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.45	58	8261	4.92198		99
3) n-Nitrosodimethylamine	1.67	42	110394	52.36065	ppb	79
4) Pyridine	1.68	79	284641	48.01786	ppb	92
7) Phenol	4.61	94	757527	53.40855	ppb	# 74
8) Aniline	4.58	93	685018	49.47306	ppb	# 69
9) Bis (2-chloroethyl) ether	4.67	63	293127	54.29614	ppb	86
10) 2-Chlorophenol	4.73	128	653272	54.44634	ppb	94
11) 1,3-DCB	4.88	146	727297	52.81977	ppb	99
12) 1,4-DCB	4.97	146	723717	52.01837	ppb	98
13) Benzyl alcohol	5.16	108	363643	55.93350	ppb	98
14) 1,2-DCB	5.15	146	682597	52.53321	ppb	99
15) 2-Methylphenol	5.30	107	514830	53.57601	ppb	94
16) Bis (2-chloroisopropyl) et	5.28	45	421168	53.18075	ppb	# 72
17) Acetophenone	5.45	105	762766	53.74713	ppb	97
18) 3&4-Methylphenol	5.48	107	1204613	105.94717	ppb	98
19) n-Nitrosodi-n-propylamine	5.46	70	349767	53.36766	ppb	94
20) Hexachloroethane	5.52	117	231836	52.04297	ppb	98
23) Nitrobenzene	5.64	77	513725	52.34936	ppb	97
24) Isophorone	5.92	82	958599	52.23708	ppb	91
25) 2-Nitrophenol	6.00	139	402733	54.43134	ppb	94
26) 2,4-Dimethylphenol	6.07	122	581781	52.72972	ppb	97
27) Benzoic acid	6.30	105	339252	44.60219	ppb	95
28) Bis (2-chloroethoxy) metha	6.16	93	622069	51.52705	ppb	99
29) 2,4-Dichlorophenol	6.29	162	575102	52.86918	ppb	99
30) 1,2,4-Trichlorobenzene	6.37	180	626577	52.18624	ppb	99
31) 3,4-Dimethylphenol	6.42	107	734436	51.84173	ppb	100
32) Napthalene	6.45	128	1803134	50.69497	ppb	100
33) 4-Chloroaniline	6.54	127	656553	52.02130	ppb	# 94
34) 2,6-Dichlorophenol	6.54	162	534017	51.58158	ppb	98
35) Hexachloropropene	6.53	213	382838	53.76637	ppb	98
36) Hexachlorobutadiene	6.58	225	365785	53.63881	ppb	98
37) Caprolactum	7.01	55	190023	54.48208	ppb	90

(#) = qualifier out of range (m) = manual integration
 0806Y122.D Y0806NC.M Mon Aug 12 08:03:41 2019

Data File : M:\YODA\DATA\Y190806\0806Y122.D
 Acq On : 12 Aug 19 00:46
 Sample : 50ug/ml 8270 08/06/19 (1)
 Misc :

Vial: 22
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Aug 12 8:03 2019

Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.14	107	560149	54.25254	ppb	88
39) 2-Methylnaphthalene	7.25	142	1279413	52.40042	ppb	100
40) 1-Methylnaphthalene	7.36	142	1310165	52.42690	ppb	99
42) Hexachlorocyclopentadiene	7.42	237	132183	50.79271	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.44	216	664540	48.99762	ppb	99
44) 2,4,6-Trichlorophenol	7.60	196	424340	50.17298	ppb	99
45) 2,4,5-Trichlorophenol	7.67	196	437353	48.80427	ppb	98
47) 1,1'-Biphenyl	7.80	154	1659859	48.35637	ppb	98
48) 2-Chloronaphthalene	7.82	162	1282291	47.60260	ppb	99
49) 2-Nitroaniline	7.97	65	284792	50.34828	ppb	95
50) Dimethyl phthalate	8.17	163	1558924	49.05650	ppb	98
51) 2,6-DNT	8.26	165	388350	51.01767	ppb	95
52) Acenaphthylene	8.31	152	2045142	48.34876	ppb	99
53) 3-Nitroaniline	8.46	138	383060	50.96829	ppb	# 83
54) Acenaphthene	8.50	154	1263732	47.81797	ppb	99
55) 2,4-Dinitrophenol	8.61	184	160141	44.71400	ppb	96
56) 4-Nitrophenol	8.72	65	144882	48.07364	ppb	89
57) Dibenzofuran	8.71	168	1884201	48.23129	ppb	98
58) 2,4-DNT	8.74	165	524530	51.04667	ppb	# 75
59) 2,3,4,6-Tetrachlorophenol	8.87	232	372013	52.22816	ppb	96
60) Diethyl phthalate	8.99	149	1461286	49.29001	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.10	204	774869	47.89703	ppb	95
62) Fluorene	9.10	166	1468025	48.07184	ppb	99
63) 4-Nitroaniline	9.20	138	384165	54.24560	ppb	92
66) 4,6-Dinitro-2-methylphenol	9.23	198	329358	48.44881	ppb	94
67) Diphenyl amine	9.27	169	2344618	94.64644	ppb	99
68) n-Nitrosodiphenylamine	9.27	169	2344618	94.64644	ppb	99
69) 1,2-Diphenylhydrazine	9.30	77	1258310	52.23964	ppb	# 80
70) 4-Bromophenyl phenyl ether	9.68	248	540383	50.35615	ppb	96
71) Hexachlorobenzene	9.75	284	576268	49.61829	ppb	# 83
72) Atrazine	9.90	200	208543	21.93098	ppb	99
73) Pentachlorophenol	10.01	266	222997	52.19028	ppb	99
74) Phenanthrene	10.24	178	2247749	47.76048	ppb	100
75) Anthracene	10.30	178	2354062	47.88513	ppb	100
76) Carbazol	10.51	167	2168847	47.84762	ppb	97
77) Di-n-butylphthalate	10.90	149	2533219	49.29865	ppb	100
78) Fluoranthene	11.64	202	2597457	48.51959	ppb	99
80) Benzidine	11.82	184	238117	19.43959	ppb	100
81) Pyrene	11.91	202	2688246	50.48563	ppb	99
83) Butyl benzylphthalate	12.66	149	1152505	51.17142	ppb	90
84) 3,3'-Dichlorobenzidine	13.29	252	938047	59.13958	ppb	# 97
85) Benz (a) anthracene	13.31	228	2448854	48.38344	ppb	100
86) Bis (2-ethylhexyl) phthala	13.32	149	1395272	48.49658	ppb	# 93
87) Chrysene	13.36	228	2438524	48.19744	ppb	100
88) Di-n-octylphthalate	14.04	149	2643835	48.74910	ppb	100
90) Benzo (b) fluoranthene	14.55	252	2799187	48.72834	ppb	98
91) Benzo (k) fluoranthene	14.59	252	2475956	46.99715	ppb	96
92) Benzo (a) pyrene	14.98	252	2568629	48.59120	ppb	97
93) Indeno (1,2,3-cd) pyrene	16.77	276	2981866	47.56403	ppb	95
94) Dibenz (a,h) anthracene	16.78	278	2613831	47.83897	ppb	98
95) Benzo (g,h,i) perylene	17.28	276	2471292	48.26939	ppb	96

Quantitation Report

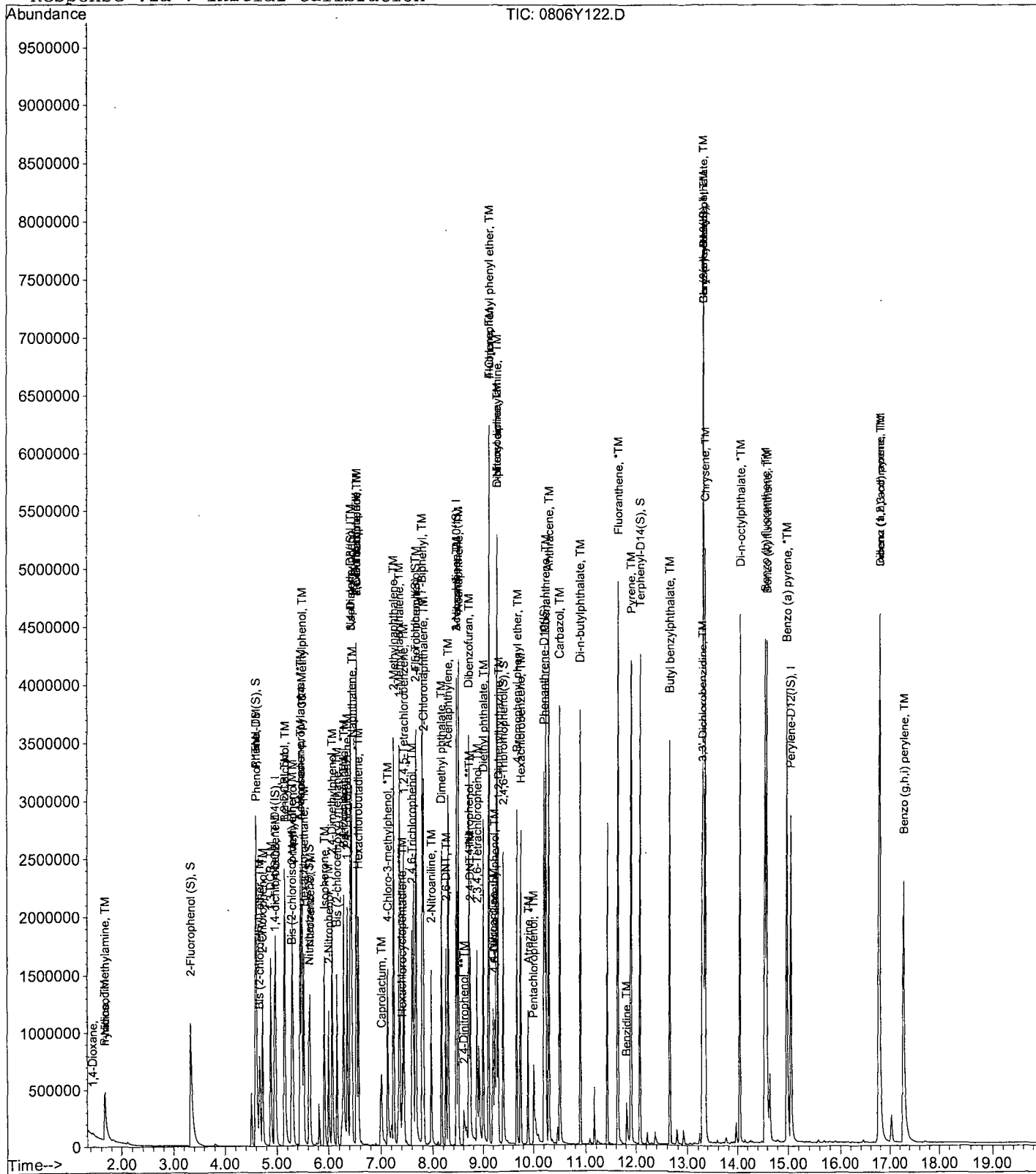
Data File : M:\YODA\DATA\Y190806\0806Y122.D
Acq On : 12 Aug 19 00:46
Sample : 50ug/ml 8270 08/06/19 (1)
Misc :

Vial: 22
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Aug 12 8:03 2019

Quant Results File: Y0806NC.RES

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Aug 08 11:05:08 2019
Response via : Initial Calibration



ORGANICS
Raw Data

Data File : M:\YODA\DATA\Y190806\0806Y074.D Vial: 74
 Acq On : 9 Aug 19 19:42 Operator: MA,SS
 Sample : AZ95860W19 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Aug 12 14:08 2019 Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.96	152	217894	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.42	136	896567	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.46	164	568934	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.21	188	1162557	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.32	240	1101932	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.05	264	1257013	40.00000	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.35	112	1189403	212.05455	ppb	0.02
Spiked Amount	250.000		Recovery	=	84.822%	
6) Phenol-D6 (S)	4.59	99	1309735	213.73351	ppb	0.00
Spiked Amount	250.000		Recovery	=	85.494%	
22) Nitrobenzene-D5 (S)	5.61	82	670204	132.77709	ppb	0.00
Spiked Amount	125.000		Recovery	=	106.222%	
46) 2-Fluorobiphenyl (S)	7.68	172	1780478	108.91557	ppb	0.00
Spiked Amount	125.000		Recovery	=	87.133%	
64) 2,4,6-Tribromophenol (S)	9.40	330	638364	210.00153	ppb	0.00
Spiked Amount	250.000		Recovery	=	84.001%	
82) Terphenyl-D14 (S)	12.09	244	2265772	97.36825	ppb	0.00
Spiked Amount	125.000		Recovery	=	77.894%	
Target Compounds						
86) Bis (2-ethylhexyl) phthala	13.31	149	123562	7.02223	ppb	99

Quantitation Report

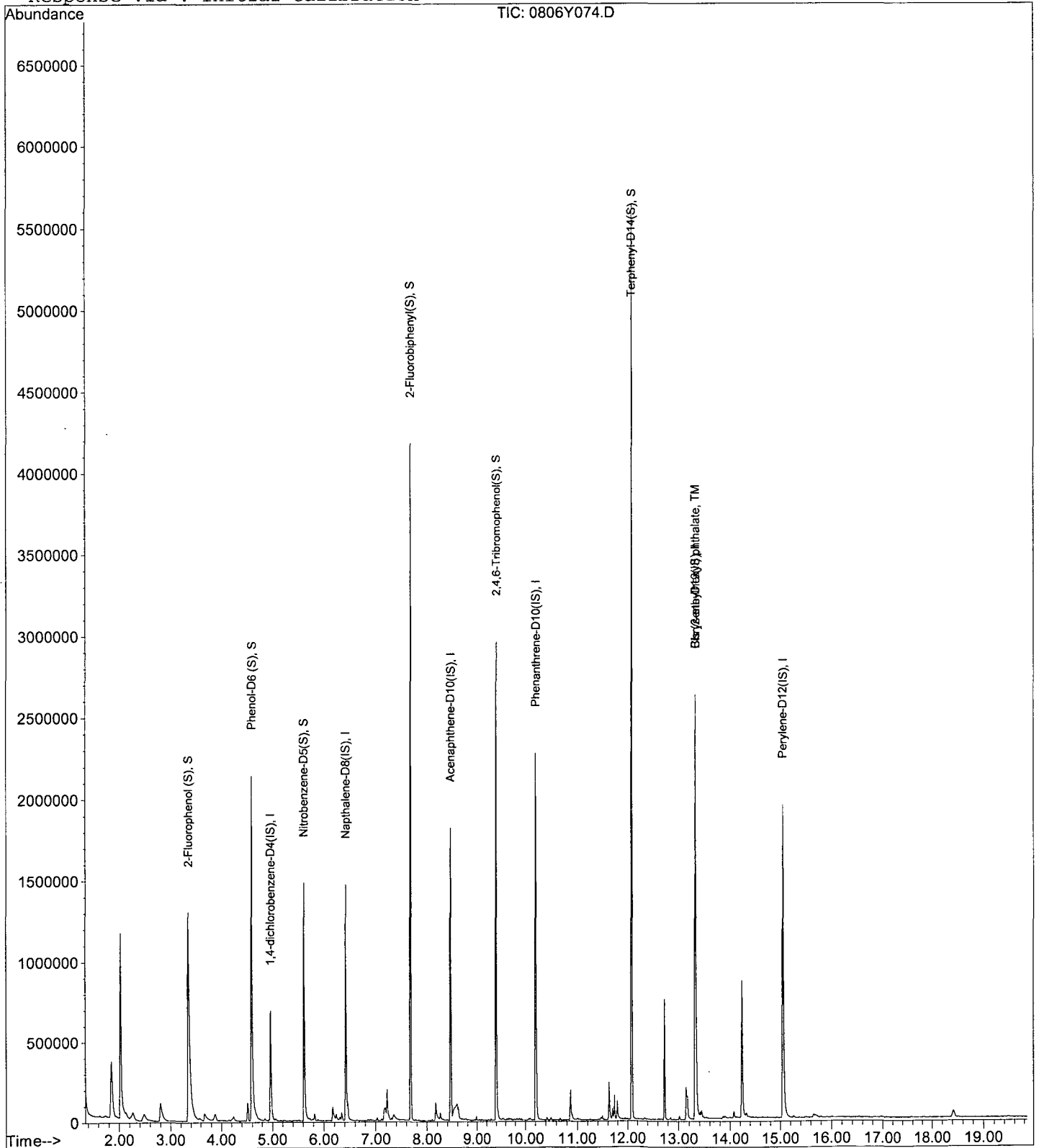
Data File : M:\YODA\DATA\Y190806\0806Y074.D
Acq On : 9 Aug 19 19:42
Sample : AZ95860W19 1/800
Misc :

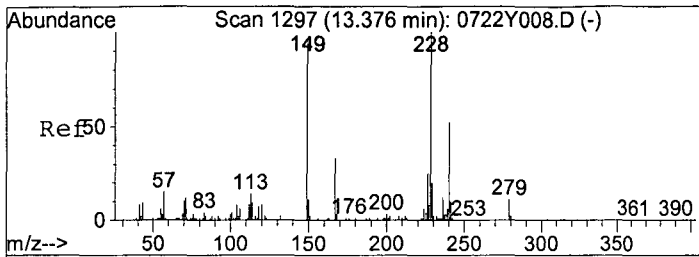
Vial: 74
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Aug 12 14:08 2019

Quant Results File: Y0806NC.RES

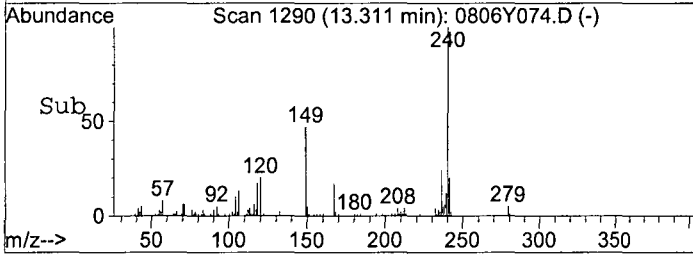
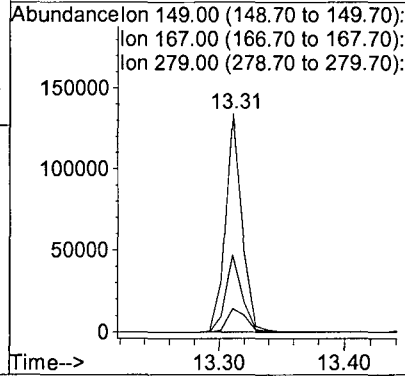
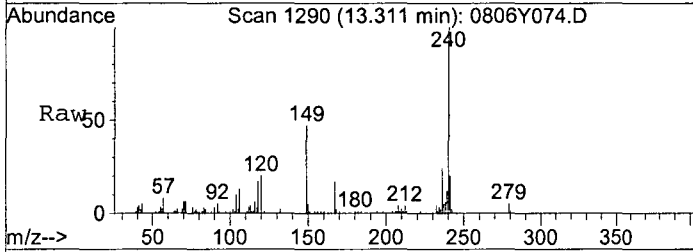
Method : M:\YODA\DATA\Y190822\Y0806NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Aug 08 11:05:08 2019
Response via : Initial Calibration





#86
 Bis (2-ethylhexyl) phthalate
 Concen: 7.02223 ppb
 RT: 13.31 min Scan# 1290
 Delta R.T. -0.00 min
 Lab File: 0806Y074.D
 Acq: 9 Aug 19 19:42

Tgt Ion	Ratio	Lower	Upper
149	100		
167	35.3	24.7	45.9
279	10.6	8.5	15.7



Data File : M:\YODA\DATA\Y190806\0806Y110.D Vial: 10
 Acq On : 11 Aug 19 19:10 Operator: MA,SS
 Sample : 190805A BLK 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Aug 12 15:39 2019 Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.95	152	239413	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.42	136	988590	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.46	164	513864	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.21	188	1166372	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.32	240	1094792	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.05	264	562191	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.34	112	1236276	200.60028	ppb	0.00
Spiked Amount 250.000			Recovery =	80.240%		
6) Phenol-D6 (S)	4.59	99	1181040	175.40878	ppb	0.00
Spiked Amount 250.000			Recovery =	70.164%		
22) Nitrobenzene-D5 (S)	5.61	82	673533	121.01565	ppb	0.00
Spiked Amount 125.000			Recovery =	96.813%		
46) 2-Fluorobiphenyl (S)	7.67	172	1805769	122.30078	ppb	0.00
Spiked Amount 125.000			Recovery =	97.841%		
64) 2,4,6-Tribromophenol (S)	9.40	330	662575	241.32528	ppb	0.00
Spiked Amount 250.000			Recovery =	96.530%		
82) Terphenyl-D14 (S)	12.08	244	2306705	99.77377	ppb	0.00
Spiked Amount 125.000			Recovery =	79.819%		

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

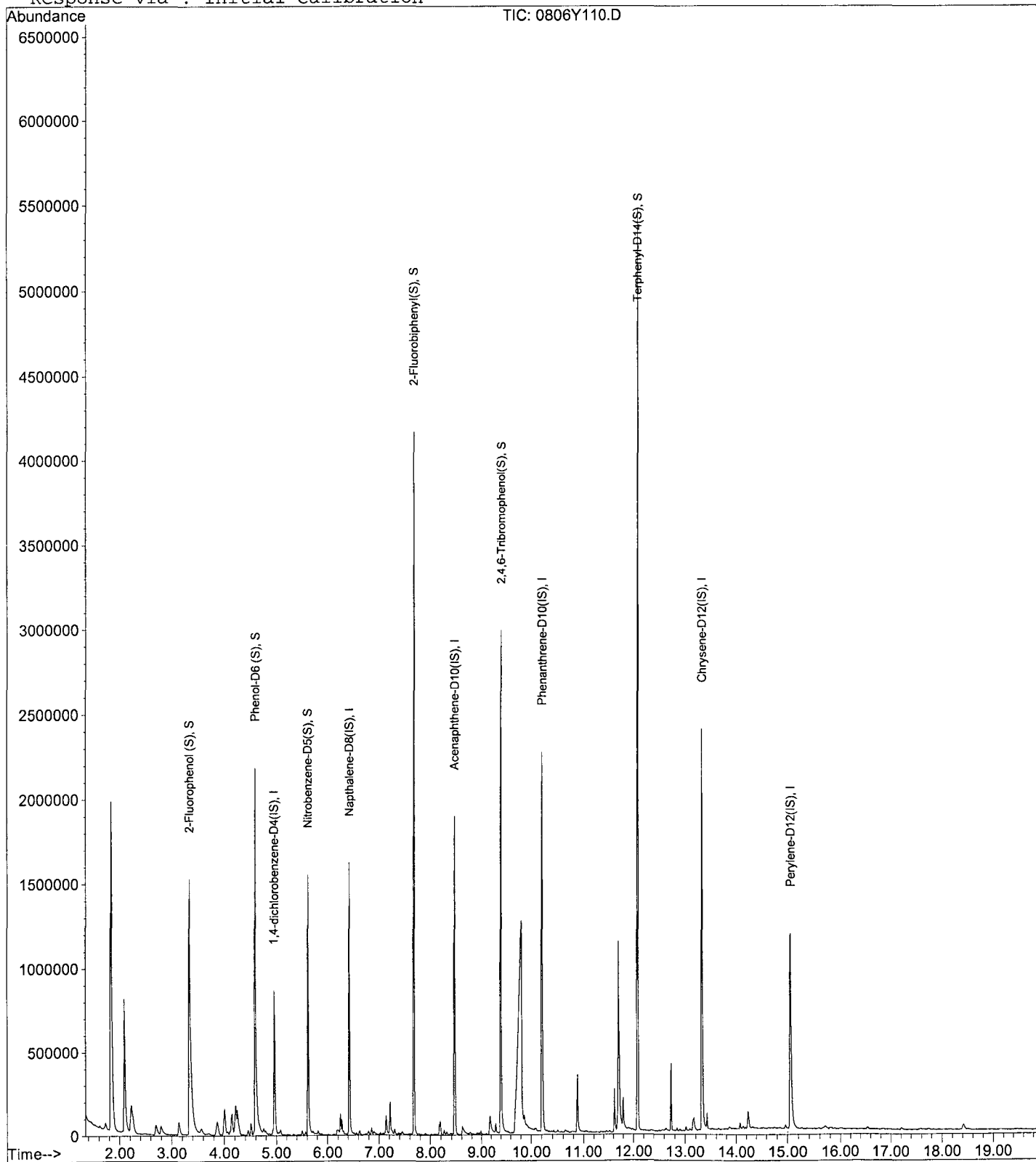
Data File : M:\YODA\DATA\Y190806\0806Y110.D
Acq On : 11 Aug 19 19:10
Sample : 190805A BLK 1/800
Misc :

Vial: 10
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Aug 12 15:39 2019

Quant Results File: Y0806NC.RES

Method : M:\YODA\DATA\Y190822\Y0806NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Aug 08 11:05:08 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190806\0806Y070.D
 Acq On : 9 Aug 19 17:50
 Sample : 190805A LCS-1 1/800
 Misc :

Vial: 70
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Aug 11 12:08 2019

Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.96	152	252923	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.42	136	1013266	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.46	164	596989	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.21	188	1218162	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.33	240	1103463	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.05	264	1316437	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.35	112	1324170	203.38516	ppb	0.02
Spiked Amount 250.000			Recovery =	81.354%		
6) Phenol-D6 (S)	4.59	99	1405051	197.53235	ppb	0.00
Spiked Amount 250.000			Recovery =	79.013%		
22) Nitrobenzene-D5 (S)	5.62	82	664939	116.56206	ppb	0.00
Spiked Amount 125.000			Recovery =	93.250%		
46) 2-Fluorobiphenyl (S)	7.68	172	1827098	106.51500	ppb	0.00
Spiked Amount 125.000			Recovery =	85.212%		
64) 2,4,6-Tribromophenol (S)	9.40	330	680264	213.26870	ppb	0.00
Spiked Amount 250.000			Recovery =	85.308%		
82) Terphenyl-D14 (S)	12.08	244	2442469	104.81592	ppb	0.00
Spiked Amount 125.000			Recovery =	83.853%		

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.45	58	4836	4.62519		84
3) n-Nitrosodimethylamine	1.68	42	68706	49.00053	ppb	90
4) Pyridine	1.70	79	93989	23.84125	ppb	90
7) Phenol	4.61	94	478962	50.77622	ppb	# 78
8) Aniline	4.60	93	243610	26.45504	ppb	# 77
9) Bis (2-chloroethyl) ether	4.68	63	177753	49.50814	ppb	79
10) 2-Chlorophenol	4.73	128	396850	49.73333	ppb	95
11) 1,3-DCB	4.89	146	404276	44.14781	ppb	100
12) 1,4-DCB	4.98	146	416912	45.05872	ppb	99
13) Benzyl alcohol	5.16	108	218325	50.49482	ppb	96
14) 1,2-DCB	5.15	146	393304	45.51395	ppb	99
15) 2-Methylphenol	5.30	107	301824	47.22880	ppb	96
16) Bis (2-chloroisopropyl) et	5.29	45	253521	48.13485	ppb	# 82
17) Acetophenone	5.45	105	468055	49.59152	ppb	97
18) 3&4-Methylphenol	5.48	107	735591	97.28027	ppb	99
19) n-Nitrosodi-n-propylamine	5.46	70	207739	47.66109	ppb	93
20) Hexachloroethane	5.52	117	119455	40.32107	ppb	92
23) Nitrobenzene	5.64	77	328101	53.33826	ppb	99
24) Isophorone	5.91	82	585126	50.86767	ppb	95
25) 2-Nitrophenol	6.00	139	236934	51.08692	ppb	96
26) 2,4-Dimethylphenol	6.07	122	339183	49.04340	ppb	97
27) Benzoic acid	6.27	105	216971	45.50782	ppb	97
28) Bis (2-chloroethoxy) metha	6.16	93	382143	50.49788	ppb	99
29) 2,4-Dichlorophenol	6.29	162	352824	51.74476	ppb	96
30) 1,2,4-Trichlorobenzene	6.36	180	355699	47.26229	ppb	99
31) 3,4-Dimethylphenol	6.42	107	440491	49.60359	ppb	99
32) Napthalene	6.45	128	1090736	48.92232	ppb	99
33) 4-Chloroaniline	6.54	127	220060	27.81654	ppb	# 94
34) 2,6-Dichlorophenol	6.54	162	329725	50.80916	ppb	99
35) Hexachloropropene	6.53	213	71668	16.05726	ppb	98
36) Hexachlorobutadiene	6.58	225	174602	40.84633	ppb	98
37) Caprolactum	6.98	55	104854	47.96043	ppb	# 84

(#) = qualifier out of range (m) = manual integration

Data File : M:\YODA\DATA\Y190806\0806Y070.D
 Acq On : 9 Aug 19 17:50
 Sample : 190805A LCS-1 1/800
 Misc :

Vial: 70
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Aug 11 12:08 2019

Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.13	107	335894	51.90023	ppb	98
39) 2-Methylnaphthalene	7.25	142	741512	48.44988	ppb	99
40) 1-Methylnaphthalene	7.37	142	765884	48.89244	ppb	98
42) Hexachlorocyclopentadiene	7.42	237	1231	6.90342	ppb #	87
43) 1,2,4,5-Tetrachlorobenzene	7.44	216	368395	45.84251	ppb	98
44) 2,4,6-Trichlorophenol	7.60	196	268464	53.57261	ppb	99
45) 2,4,5-Trichlorophenol	7.66	196	266002	50.09697	ppb	100
47) 1,1'-Biphenyl	7.79	154	965057	47.45001	ppb	99
48) 2-Chloronaphthalene	7.82	162	769163	48.19071	ppb	98
49) 2-Nitroaniline	7.97	65	163225	48.70173	ppb	90
50) Dimethyl phthalate	8.17	163	979351	52.01287	ppb	99
51) 2,6-DNT	8.26	165	229569	50.89924	ppb	91
52) Acenaphthylene	8.31	152	1186819	47.35297	ppb	99
53) 3-Nitroaniline	8.45	138	178112	39.99699	ppb #	96
54) Acenaphthene	8.50	154	755872	48.27088	ppb	99
55) 2,4-Dinitrophenol	8.61	184	133267	60.84518	ppb	91
56) 4-Nitrophenol	8.72	65	101847	57.59882	ppb	84
57) Dibenzofuran	8.70	168	1125573	48.62685	ppb	98
58) 2,4-DNT	8.73	165	312057	51.25448	ppb	88
59) 2,3,4,6-Tetrachlorophenol	8.87	232	227462	53.89597	ppb	94
60) Diethyl phthalate	8.99	149	881370	50.17447	ppb	97
61) 4-Chlorophenyl phenyl ethe	9.10	204	475485	49.60414	ppb	96
62) Fluorene	9.11	166	886870	49.01376	ppb	99
63) 4-Nitroaniline	9.19	138	203476	48.49095	ppb	94
66) 4,6-Dinitro-2-methylphenol	9.22	198	204035	52.94872	ppb	90
67) Diphenyl amine	9.26	169	1303344	89.60864	ppb	100
68) n-Nitrosodiphenylamine	9.26	169	1303344	89.60864	ppb	100
69) 1,2-Diphenylhydrazine	9.30	77	757313	53.54841	ppb #	77
70) 4-Bromophenyl phenyl ether	9.68	248	309648	49.14483	ppb	98
71) Hexachlorobenzene	9.75	284	334858	49.10623	ppb #	81
72) Atrazine	9.89	200	126929	22.73432	ppb	98
73) Pentachlorophenol	10.00	266	158260	63.53269	ppb	99
74) Phenanthrene	10.24	178	1346415	48.72574	ppb	100
75) Anthracene	10.30	178	1395140	48.33472	ppb	100
76) Carbazol	10.51	167	1290267	48.48078	ppb	99
77) Di-n-butylphthalate	10.90	149	1530194	50.71862	ppb	100
78) Fluoranthene	11.64	202	1545165	49.15891	ppb	99
80) Benzidine	11.82	184	700	-1.09218	ppb #	1
81) Pyrene	11.91	202	1603346	49.16559	ppb	100
83) Butyl benzylphthalate	12.66	149	693858	50.30261	ppb	90
84) 3,3'-Dichlorobenzidine	13.28	252	183187	18.85747	ppb	99
85) Benz (a) anthracene	13.31	228	1500048	48.39208	ppb	99
86) Bis (2-ethylhexyl) phthala	13.32	149	874851	49.65026	ppb	95
87) Chrysene	13.36	228	1523299	49.16062	ppb	99
88) Di-n-octylphthalate	14.04	149	1664448	50.11154	ppb	100
90) Benzo (b) fluoranthene	14.55	252	1665604	49.19621	ppb	98
91) Benzo (k) fluoranthene	14.59	252	1557340	50.15592	ppb	98
92) Benzo (a) pyrene	14.98	252	1463567	46.97632	ppb	98
93) Indeno (1,2,3-cd) pyrene	16.77	276	1714596	46.40476	ppb	95
94) Dibenz (a,h) anthracene	16.78	278	1597583	49.61100	ppb	96
95) Benzo (g,h,i) perylene	17.28	276	1536606	50.92376	ppb	95

(#) = qualifier out of range (m) = manual integration
 0806Y070.D Y0806NC.M Wed Aug 28 11:55:47 2019

Data File : M:\YODA\DATA\Y190806\0806Y071.D
 Acq On : 9 Aug 19 18:18
 Sample : 190805A LCSD-1 1/800
 Misc :

Vial: 71
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Aug 11 12:08 2019

Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.96	152	243064	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.42	136	987334	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.46	164	574558	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.21	188	1175208	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.32	240	1064713	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.05	264	1261825	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.35	112	1319986	210.96602	ppb	0.02
Spiked Amount 250.000			Recovery =	84.386%		
6) Phenol-D6 (S)	4.59	99	1419442	207.64978	ppb	0.00
Spiked Amount 250.000			Recovery =	83.060%		
22) Nitrobenzene-D5 (S)	5.62	82	659935	118.72330	ppb	0.00
Spiked Amount 125.000			Recovery =	94.978%		
46) 2-Fluorobiphenyl (S)	7.68	172	1808936	109.57326	ppb	0.00
Spiked Amount 125.000			Recovery =	87.658%		
64) 2,4,6-Tribromophenol (S)	9.40	330	675567	220.06476	ppb	0.00
Spiked Amount 250.000			Recovery =	88.026%		
82) Terphenyl-D14 (S)	12.08	244	2388732	106.24067	ppb	0.00
Spiked Amount 125.000			Recovery =	84.993%		

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.45	58	5429	5.23657		66
3) n-Nitrosodimethylamine	1.68	42	70823	52.55913	ppb	98
4) Pyridine	1.70	79	104461	27.57235	ppb	94
7) Phenol	4.61	94	480064	52.95733	ppb	# 78
8) Aniline	4.60	93	277592	31.36808	ppb	# 76
9) Bis (2-chloroethyl) ether	4.68	63	177003	51.29889	ppb	80
10) 2-Chlorophenol	4.73	128	389340	50.77125	ppb	95
11) 1,3-DCB	4.89	146	406187	46.15566	ppb	99
12) 1,4-DCB	4.98	146	414323	46.59520	ppb	100
13) Benzyl alcohol	5.16	108	215459	51.85322	ppb	95
14) 1,2-DCB	5.15	146	389572	46.91066	ppb	99
15) 2-Methylphenol	5.30	107	302483	49.25176	ppb	97
16) Bis (2-chloroisopropyl) et	5.29	45	250213	49.43371	ppb	# 88
17) Acetophenone	5.45	105	460603	50.78143	ppb	97
18) 3&4-Methylphenol	5.47	107	729080	100.33010	ppb	91
19) n-Nitrosodi-n-propylamine	5.46	70	204690	48.86638	ppb	91
20) Hexachloroethane	5.52	117	120698	42.39313	ppb	93
23) Nitrobenzene	5.64	77	323420	53.95821	ppb	97
24) Isophorone	5.91	82	577503	51.52359	ppb	95
25) 2-Nitrophenol	6.00	139	235154	52.03483	ppb	95
26) 2,4-Dimethylphenol	6.07	122	341678	50.70174	ppb	98
27) Benzoic acid	6.27	105	243181	52.34477	ppb	98
28) Bis (2-chloroethoxy) metha	6.16	93	376509	51.06014	ppb	98
29) 2,4-Dichlorophenol	6.29	162	346127	52.09585	ppb	99
30) 1,2,4-Trichlorobenzene	6.37	180	350693	47.82100	ppb	99
31) 3,4-Dimethylphenol	6.41	107	440101	50.86134	ppb	98
32) Napthalene	6.45	128	1081315	49.77360	ppb	99
33) 4-Chloroaniline	6.53	127	235650	30.56953	ppb	99
34) 2,6-Dichlorophenol	6.53	162	328908	52.01444	ppb	95
35) Hexachloropropene	6.53	213	72616	16.69698	ppb	99
36) Hexachlorobutadiene	6.58	225	179280	43.04226	ppb	97
37) Caprolactum	6.98	55	106696	50.08476	ppb	# 85

(#) = qualifier out of range (m) = manual integration
 0806Y071.D Y0806NC.M Wed Aug 28 11:55:51 2019

Data File : M:\YODA\DATA\Y190806\0806Y071.D
 Acq On : 9 Aug 19 18:18
 Sample : 190805A LCSD-1 1/800
 Misc :

Vial: 71
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Aug 11 12:08 2019

Quant Results File: Y0806NC.RES

Quant Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Aug 08 11:05:08 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC722

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.13	107	334340	53.01695	ppb	97
39) 2-Methylnaphthalene	7.25	142	731847	49.07431	ppb	100
40) 1-Methylnaphthalene	7.36	142	753871	49.38956	ppb	98
42) Hexachlorocyclopentadiene	7.41	237	1682	8.71604	ppb	93
43) 1,2,4,5-Tetrachlorobenzene	7.44	216	364186	47.08801	ppb	99
44) 2,4,6-Trichlorophenol	7.60	196	265480	55.04540	ppb	98
45) 2,4,5-Trichlorophenol	7.67	196	267311	52.30893	ppb	99
47) 1,1'-Biphenyl	7.80	154	969220	49.51515	ppb	99
48) 2-Chloronaphthalene	7.82	162	768493	50.02848	ppb	97
49) 2-Nitroaniline	7.97	65	156575	48.54143	ppb	84
50) Dimethyl phthalate	8.17	163	974921	53.79901	ppb	99
51) 2,6-DNT	8.25	165	227738	52.46456	ppb	91
52) Acenaphthylene	8.30	152	1173865	48.66462	ppb	100
53) 3-Nitroaniline	8.45	138	180923	42.21437	ppb	# 94
54) Acenaphthene	8.50	154	748908	49.69331	ppb	100
55) 2,4-Dinitrophenol	8.60	184	131554	61.98700	ppb	100
56) 4-Nitrophenol	8.72	65	101622	59.31007	ppb	92
57) Dibenzofuran	8.71	168	1104061	49.55963	ppb	97
58) 2,4-DNT	8.73	165	308621	52.66909	ppb	82
59) 2,3,4,6-Tetrachlorophenol	8.87	232	222819	54.85701	ppb	95
60) Diethyl phthalate	8.99	149	875510	51.78668	ppb	97
61) 4-Chlorophenyl phenyl ethe	9.10	204	464706	50.37231	ppb	97
62) Fluorene	9.10	166	881547	50.62162	ppb	100
63) 4-Nitroaniline	9.19	138	202512	50.14536	ppb	92
66) 4,6-Dinitro-2-methylphenol	9.22	198	201371	53.92038	ppb	88
67) Diphenyl amine	9.26	169	1181439	84.19619	ppb	100
68) n-Nitrosodiphenylamine	9.26	169	1181439	84.19619	ppb	100
69) 1,2-Diphenylhydrazine	9.30	77	707457	51.85152	ppb	# 75
70) 4-Bromophenyl phenyl ether	9.68	248	308624	50.77261	ppb	99
71) Hexachlorobenzene	9.74	284	330950	50.30702	ppb	95
72) Atrazine	9.89	200	123188	22.87072	ppb	98
73) Pentachlorophenol	10.00	266	152096	63.34067	ppb	99
74) Phenanthrene	10.24	178	1335143	50.08384	ppb	99
75) Anthracene	10.30	178	1355791	48.68829	ppb	100
76) Carbazol	10.51	167	1267743	49.37550	ppb	99
77) Di-n-butylphthalate	10.90	149	1506498	51.75828	ppb	100
78) Fluoranthene	11.64	202	1524003	50.25780	ppb	98
80) Benzidine	11.88	184	2124	-0.85179	ppb	# 22
81) Pyrene	11.90	202	1570694	49.91727	ppb	99
83) Butyl benzylphthalate	12.65	149	674545	50.68227	ppb	93
84) 3,3'-Dichlorobenzidine	13.28	252	227996	24.32435	ppb	98
85) Benz (a) anthracene	13.31	228	1449468	48.46218	ppb	99
86) Bis (2-ethylhexyl) phthala	13.31	149	888573	52.26438	ppb	# 95
87) Chrysene	13.36	228	1522980	50.93914	ppb	100
88) Di-n-octylphthalate	14.04	149	1661004	51.82788	ppb	98
90) Benzo (b) fluoranthene	14.55	252	1727031	53.21830	ppb	97
91) Benzo (k) fluoranthene	14.58	252	1454510	48.87159	ppb	99
92) Benzo (a) pyrene	14.98	252	1436450	48.10142	ppb	97
93) Indeno (1,2,3-cd) pyrene	16.77	276	1690428	47.73076	ppb	95
94) Dibenz (a,h) anthracene	16.77	278	1573674	50.98357	ppb	98
95) Benzo (g,h,i) perylene	17.28	276	1525301	52.73688	ppb	95

(#) = qualifier out of range (m) = manual integration
 0806Y071.D Y0806NC.M Wed Aug 28 11:55:52 2019

Quantitation Report

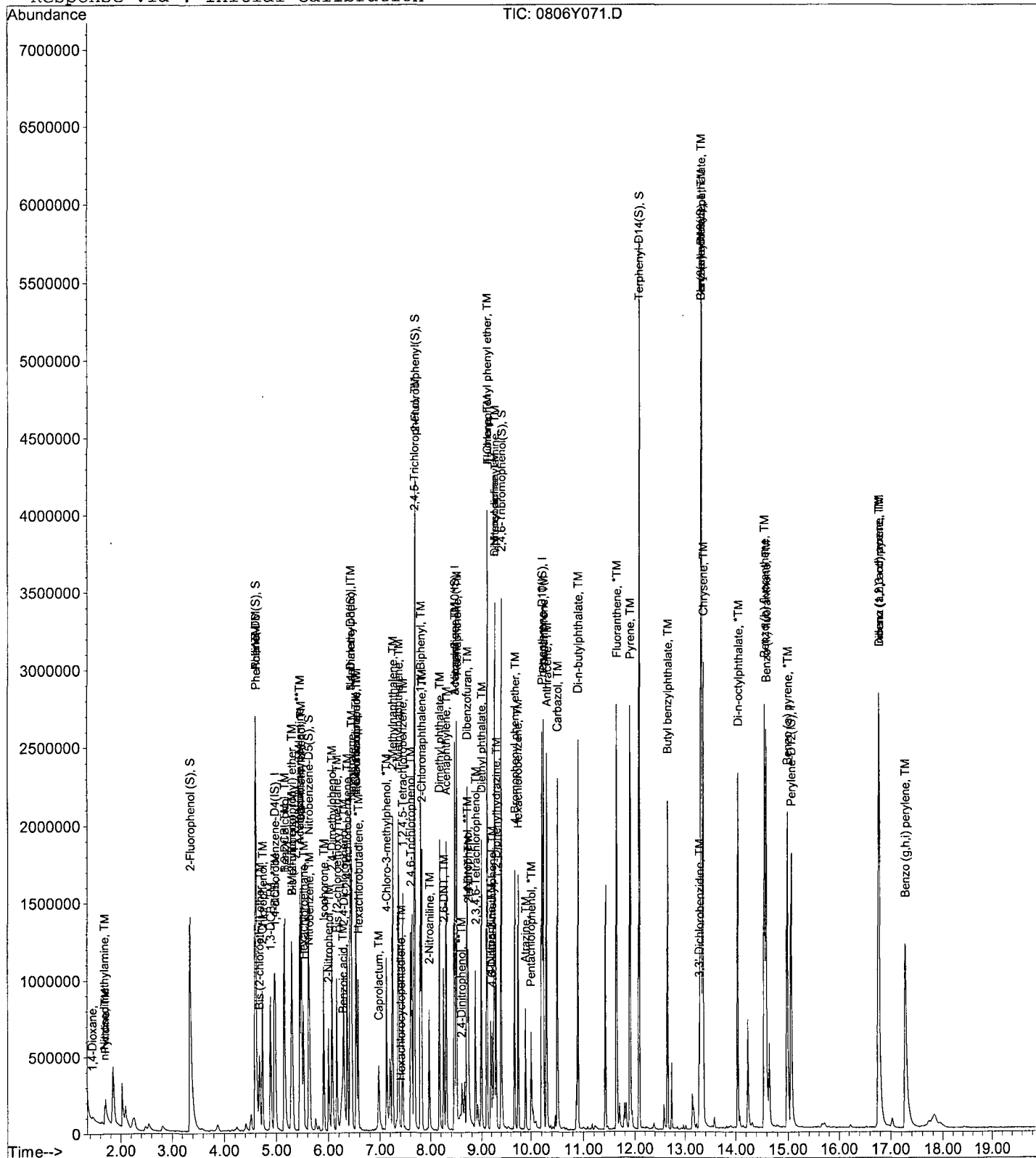
Data File : M:\YODA\DATA\Y190806\0806Y071.D
Acq On : 9 Aug 19 18:18
Sample : 190805A LCSD-1 1/800
Misc :

Vial: 71
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Aug 11 12:08 2019

Quant Results File: Y0806NC.RES

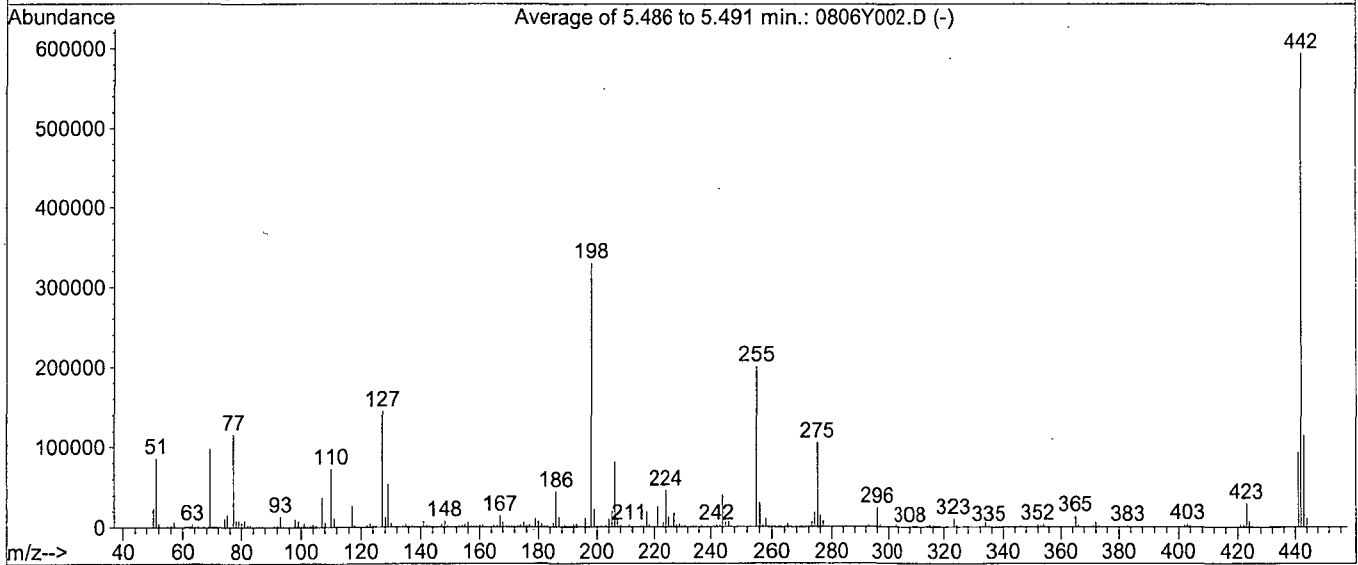
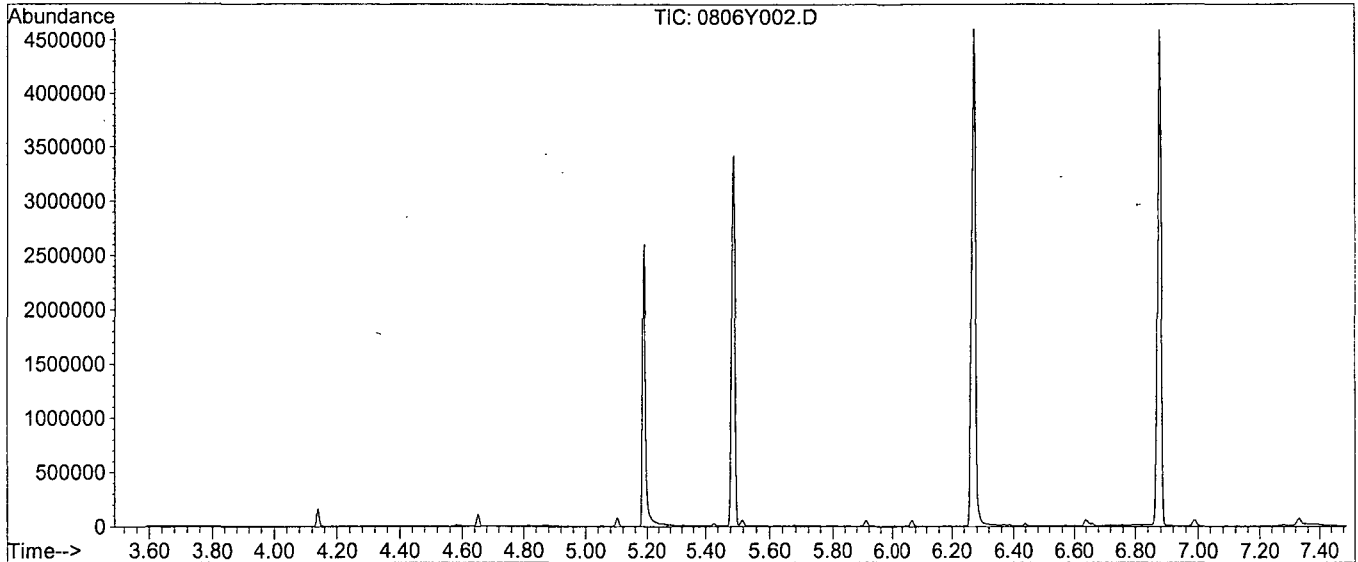
Method : M:\YODA\DATA\Y190822\Y0806NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Aug 08 11:05:08 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y190806\0806Y002.D
 Acq On : 6 Aug 19 10:07
 Sample : SV TUNE 07/11/19
 Misc :

Vial: 2
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C



Spectrum Information: Average of 5.486 to 5.491 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	25.9	85685	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.9	850	PASS
127	198	10	80	43.8	144640	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	330283	PASS
199	198	5	9	6.8	22333	PASS
275	198	10	60	31.9	105283	PASS
365	198	1	100	4.0	13283	PASS
441	442	0.01	24	15.7	93523	PASS
442	198	50	500	180.1	594773	PASS
443	442	15	24	19.3	114872	PASS

Data File Name: 0806Y002.D
Data File Path: M:\YODA\DATA\Y190806\
Operator: MA,SS
Date Acquired: 6 Aug 19 10:07
Method File: DFTPP2.M
Sample Name: SV TUNE 07/11/19
Vial Number: 2
Instrument Name: Yoda

#	Name	Ret Time	Target Response
1)	DDT	6.88	36148400
2)	DDD	6.44	183359
3)	DDE	6.64	543430

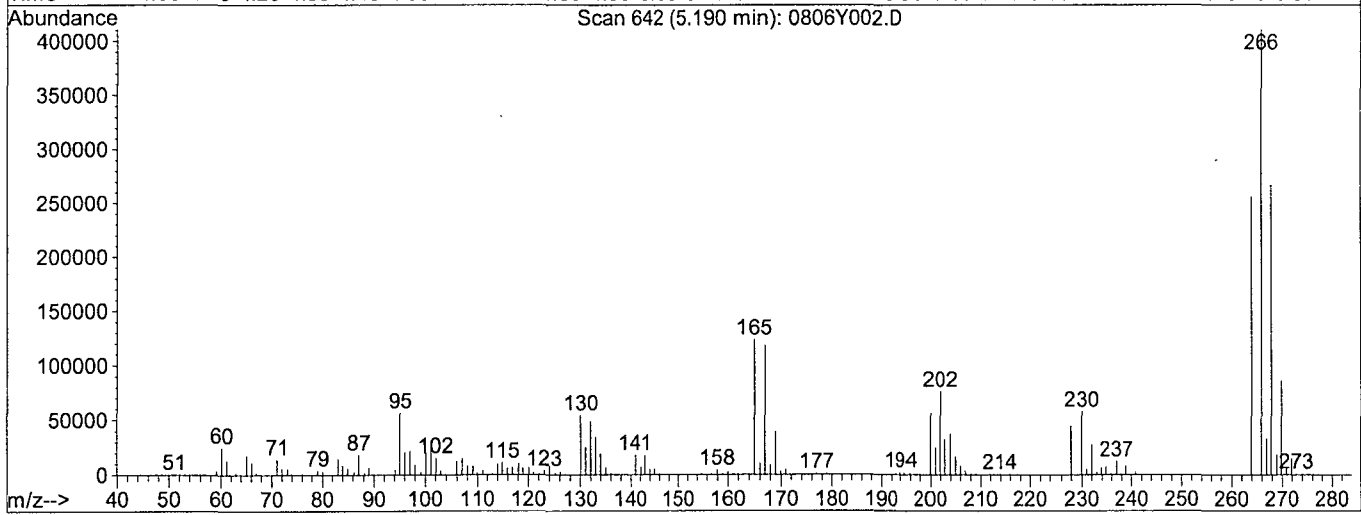
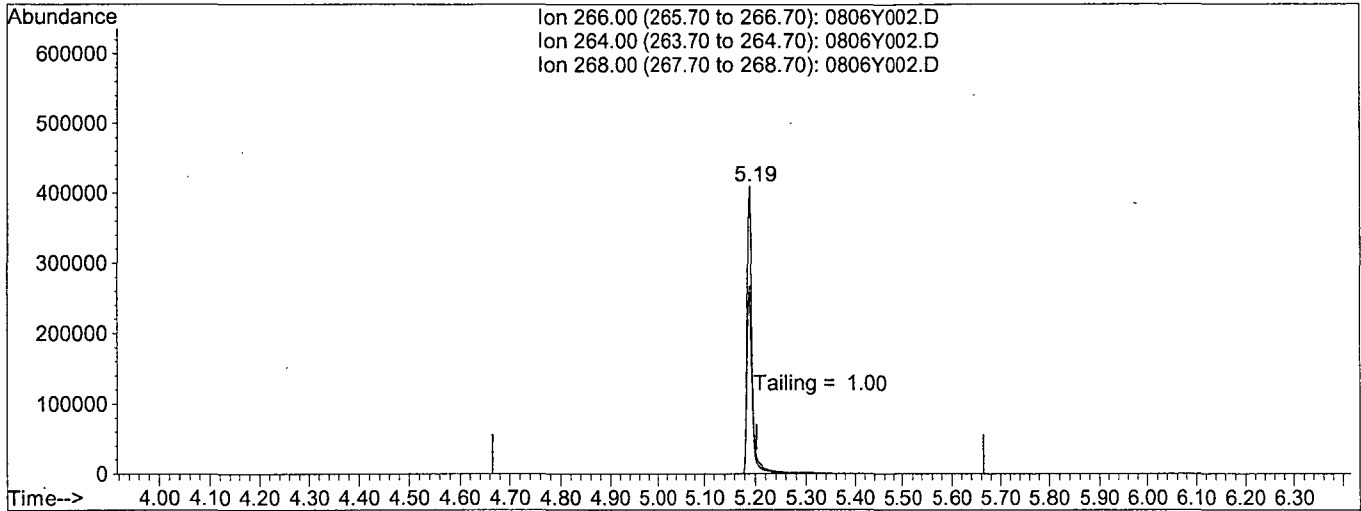
Breakdown 1.97

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y002.D
Acq On : 6 Aug 19 10:07
Sample : SV TUNE 07/11/19
Misc :
Quant Time: Aug 6 10:31 2019

Vial: 2
Operator: MA, SS
Inst : Yoda
Multiplr: 1.00
Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 01 09:41:50 2019
Response via : Single Level Calibration



TIC: 0806Y002.D

(5) Pentachlorophenol

5.19min 0.0000

response 2775848

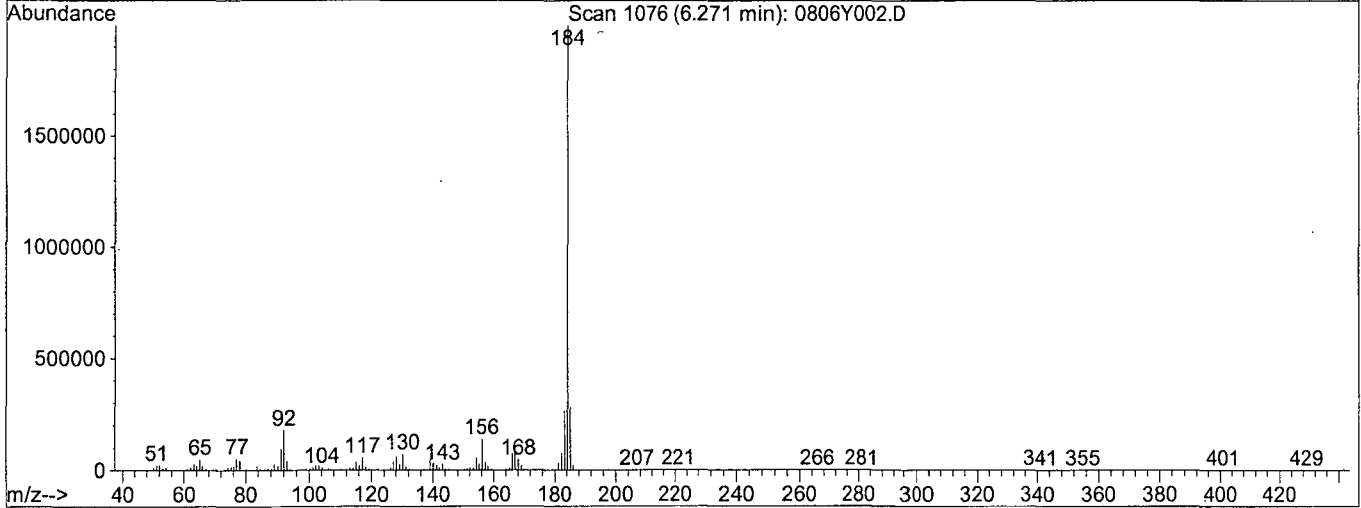
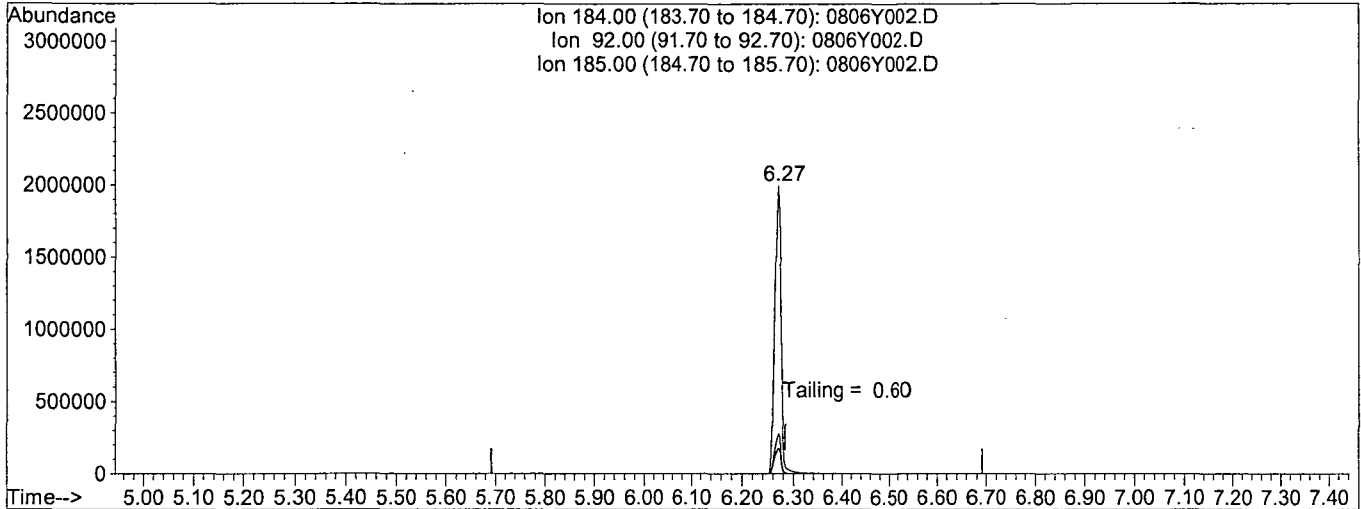
Ion	Exp%	Act%
266.00	100	100
264.00	63.70	62.60
268.00	63.90	64.25
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y002.D
 Acq On : 6 Aug 19 10:07
 Sample : SV TUNE 07/11/19
 Misc :
 Quant Time: Aug 6 10:31 2019

Vial: 2
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Thu Aug 01 09:41:50 2019
 Response via : Single Level Calibration



TIC: 0806Y002.D

(6) Benzidine

6.27min 0.0000

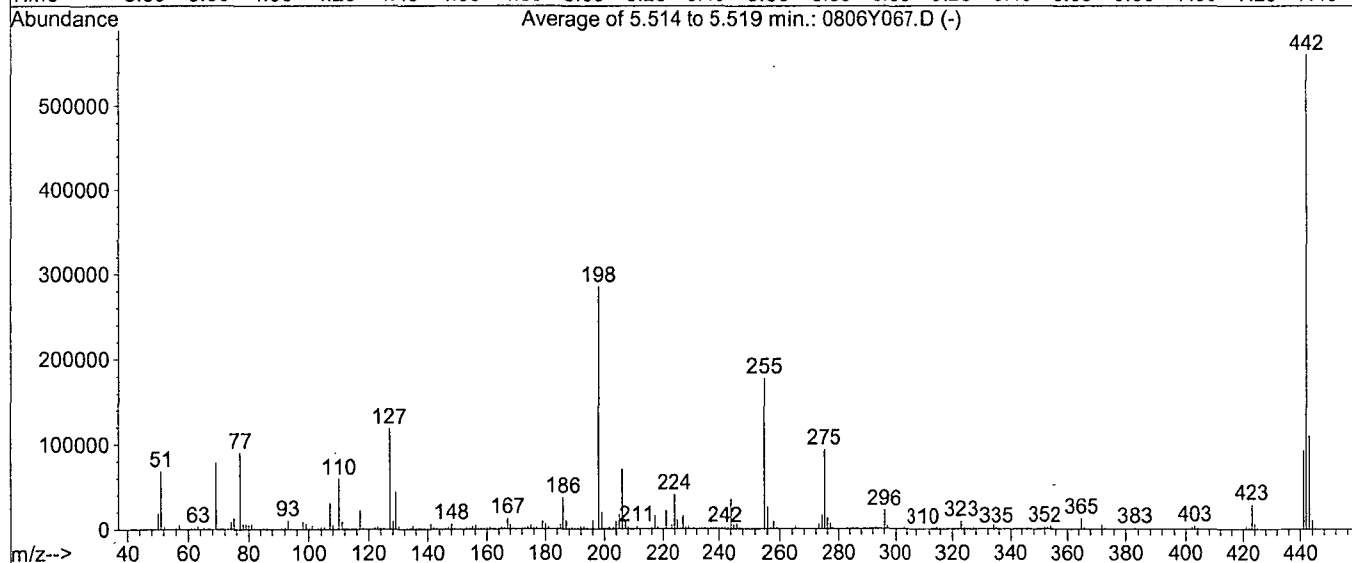
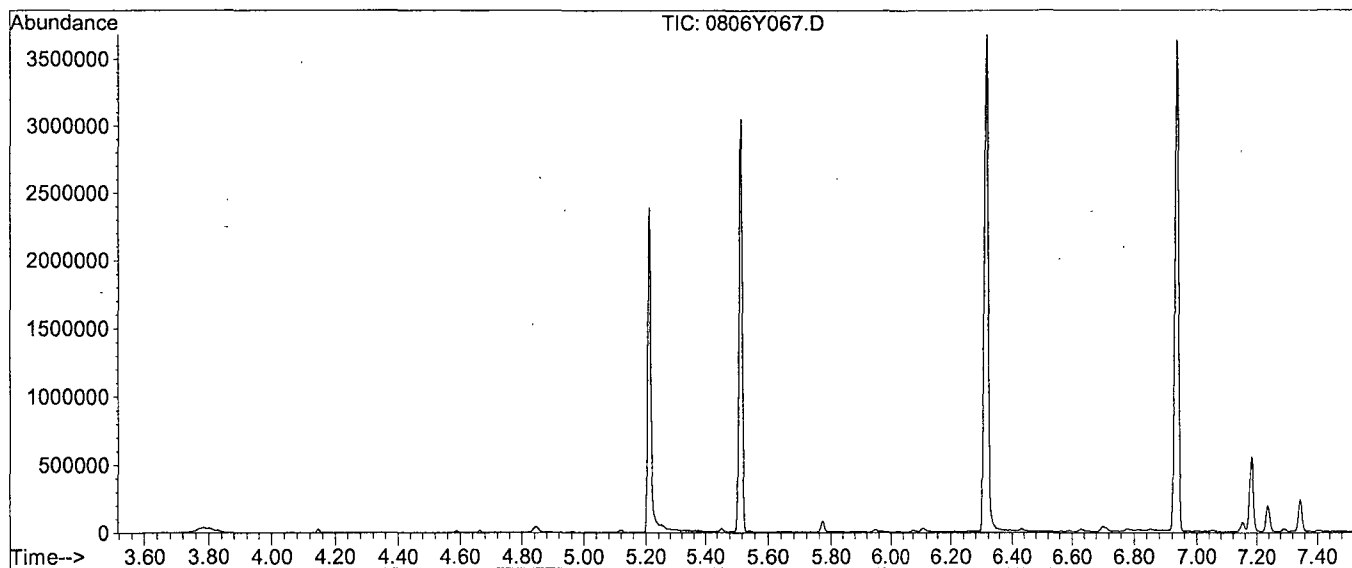
response 16233904

Ion	Exp%	Act%
184.00	100	100
92.00	8.80	9.00
185.00	14.30	14.08
0.00	0.00	0.00

Data File : M:\YODA\DATA\Y190806\0806Y067.D
 Acq On : 9 Aug 19 16:07
 Sample : SV TUNE 7/11/19
 Misc :

Vial: 67
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C



Spectrum Information: Average of 5.514 to 5.519 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	24.0	68396	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.2	182	PASS
127	198	10	80	41.7	118768	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	285013	PASS
199	198	5	9	6.9	19610	PASS
275	198	10	60	32.9	93664	PASS
365	198	1	100	4.5	12826	PASS
441	442	0.01	24	16.6	92997	PASS
442	198	50	500	197.0	561536	PASS
443	442	15	24	19.6	110219	PASS

Data File Name: 0806Y067.D
Data File Path: M:\YODA\DATA\Y190806\
Operator: MA,SS
Date Acquired: 9 Aug 19 16:07
Method File: DFTPP2.M
Sample Name: SV TUNE 7/11/19
Vial Number: 67
Instrument Name: Yoda

#	Name	Ret Time	Target Response
1)	DDT	6.88	29935600
2)	DDD	6.44	224626
3)	DDE	6.64	144833

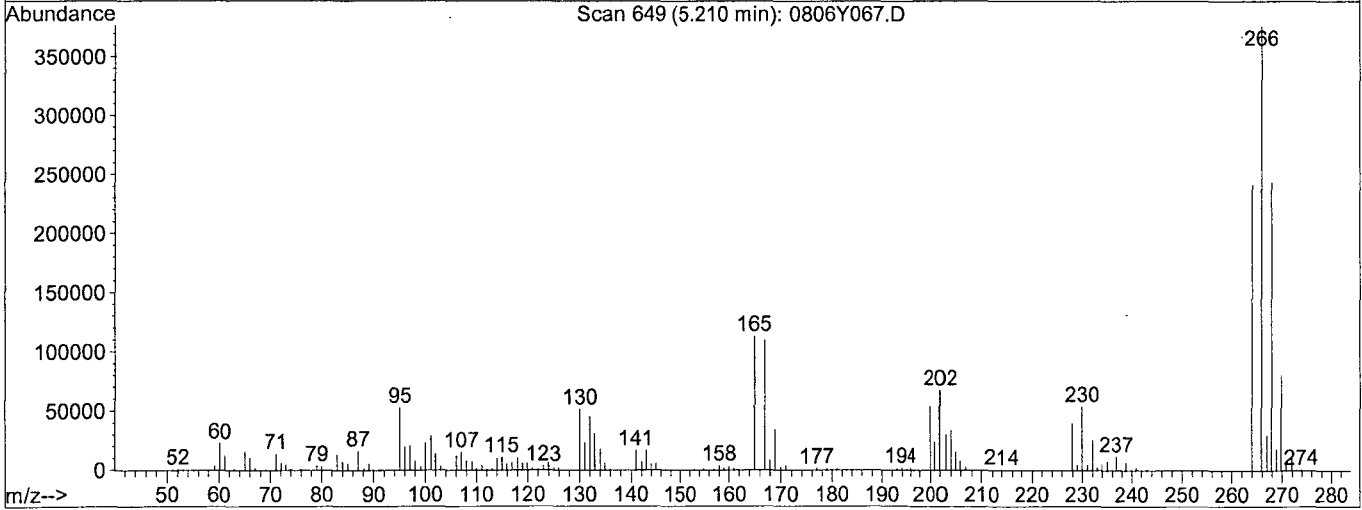
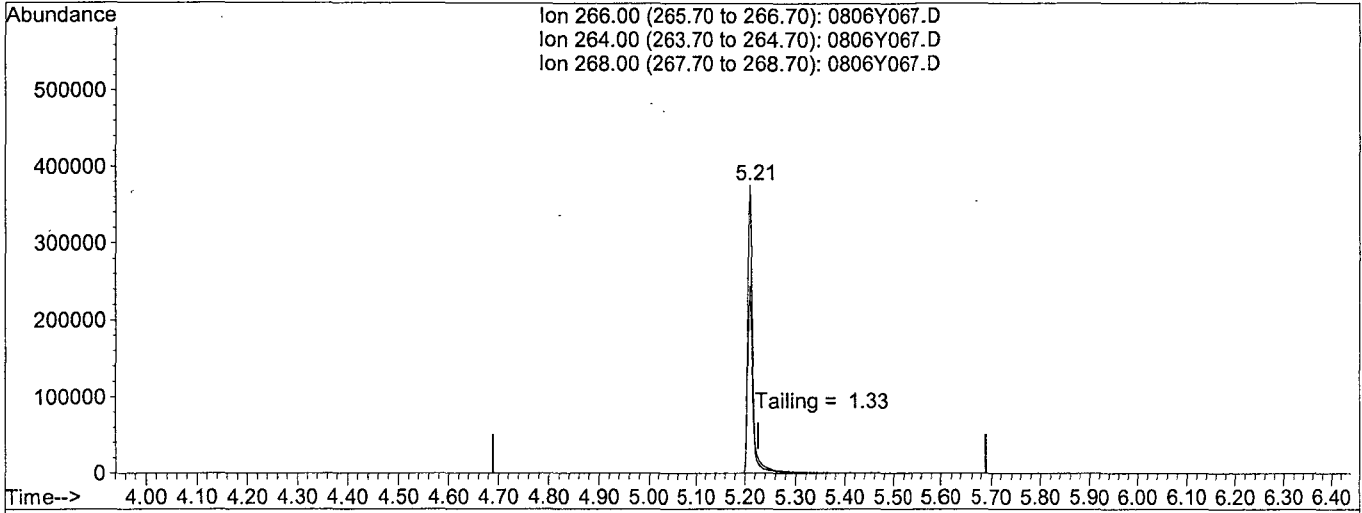
Breakdown 1.22

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y067.D
 Acq On : 9 Aug 19 16:07
 Sample : SV TUNE 7/11/19
 Misc :
 Quant Time: Aug 9 16:20 2019

Vial: 67
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Tue Aug 06 12:25:14 2019
 Response via : Single Level Calibration



TIC: 0806Y067.D

(5) Pentachlorophenol

5.21min 0.0000

response 2622083

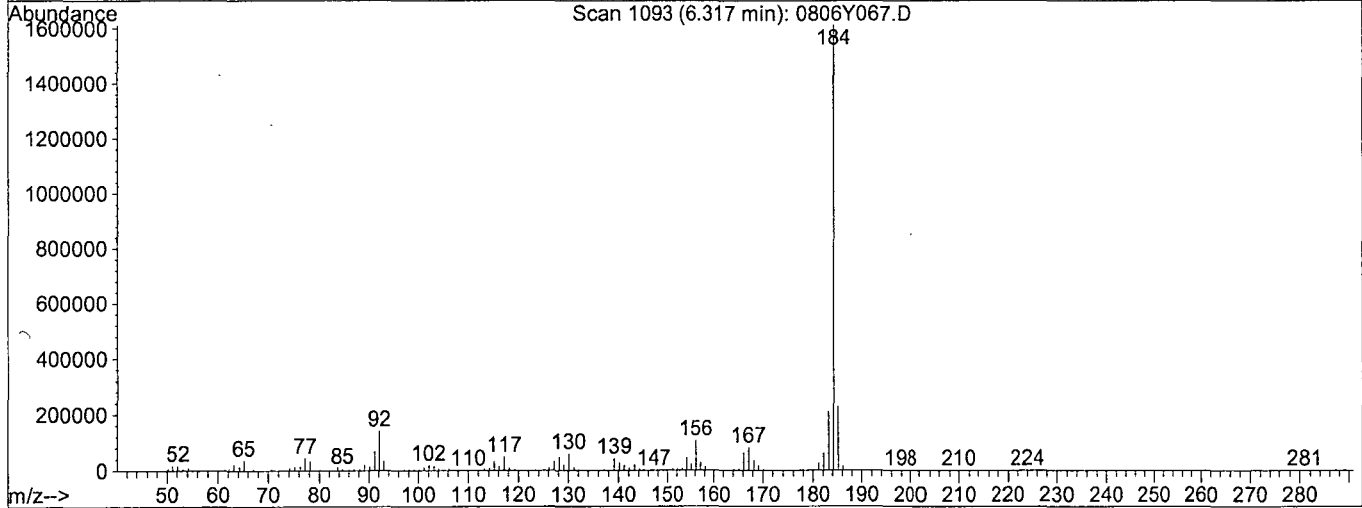
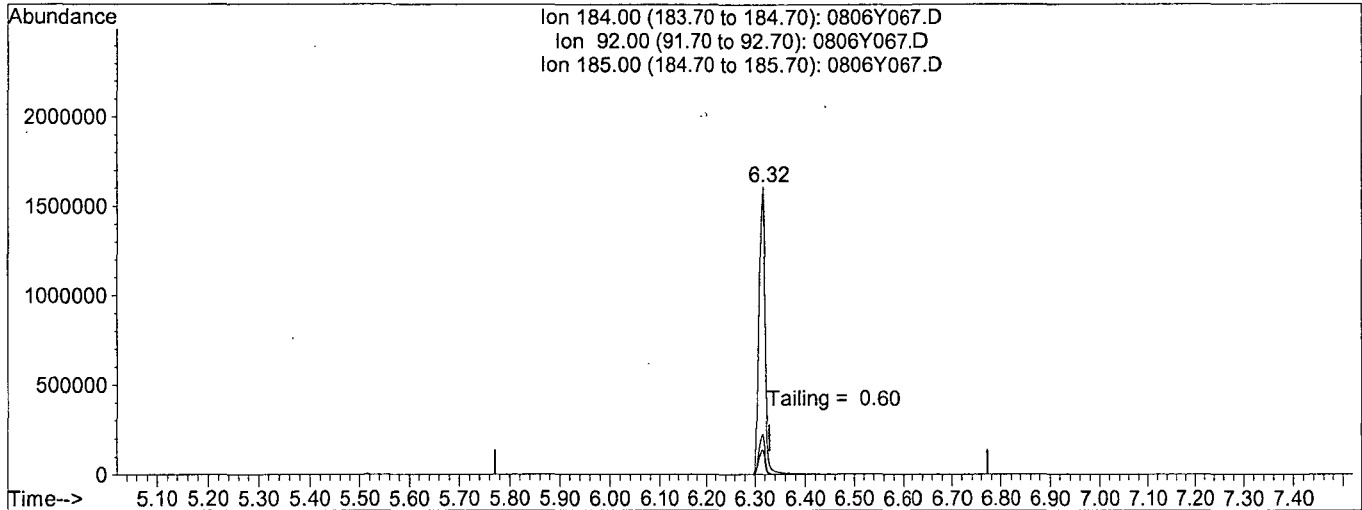
Ion	Exp%	Act%
266.00	100	100
264.00	62.50	63.35
268.00	65.20	63.08
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y067.D
 Acq On : 9 Aug 19 16:07
 Sample : SV TUNE 7/11/19
 Misc :
 Quant Time: Aug 9 16:20 2019

Vial: 67
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Tue Aug 06 12:25:14 2019
 Response via : Single Level Calibration



TIC: 0806Y067.D

(6) Benzidine

6.32min 0.0000

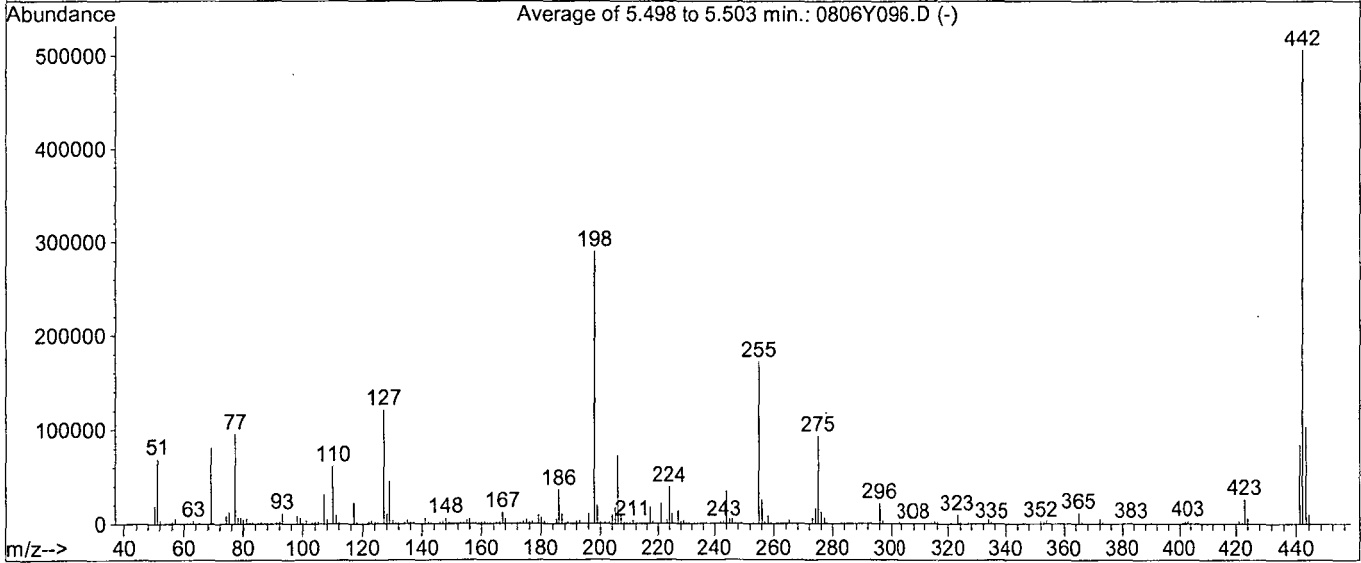
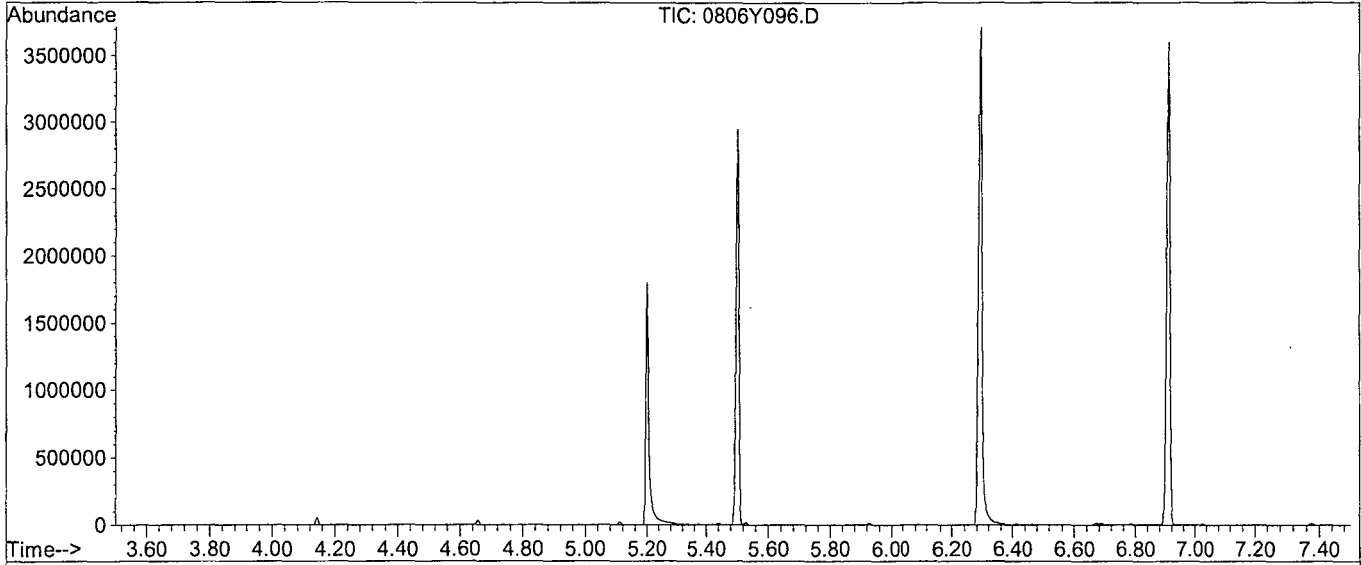
response 13373575

Ion	Exp%	Act%
184.00	100	100
92.00	8.90	8.84
185.00	14.00	13.98
0.00	0.00	0.00

Data File : M:\YODA\DATA\Y190806\0806Y096.D
 Acq On : 11 Aug 19 12:47
 Sample : SV TUNE 7/11/19
 Misc :

Vial: 96
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Method : M:\YODA\DATA\Y190806\Y0806NC.M (RTE Integrator)
 Title : EPA 8270C



Spectrum Information: Average of 5.498 to 5.503 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	23.9	69333	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.2	131	PASS
127	198	10	80	41.8	121053	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	289899	PASS
199	198	5	9	6.7	19541	PASS
275	198	10	60	32.0	92864	PASS
365	198	1	100	4.0	11663	PASS
441	442	0.01	24	16.5	83853	PASS
442	198	50	500	174.8	506795	PASS
443	442	15	24	20.4	103147	PASS

Data File Name: 0806Y096.D
Data File Path: M:\YODA\DATA\Y190806\
Operator: MA,SS
Date Acquired: 11 Aug 2019 12:47
Method File: DFTPP2.M
Sample Name: SV TUNE 7/11/19
Vial Number: 96
Instrument Name: Yoda

#	Name	Ret Time	Target Response
1)	DDT	6.88	28557200
2)	DDD	6.44	112349
3)	DDE	6.64	52563

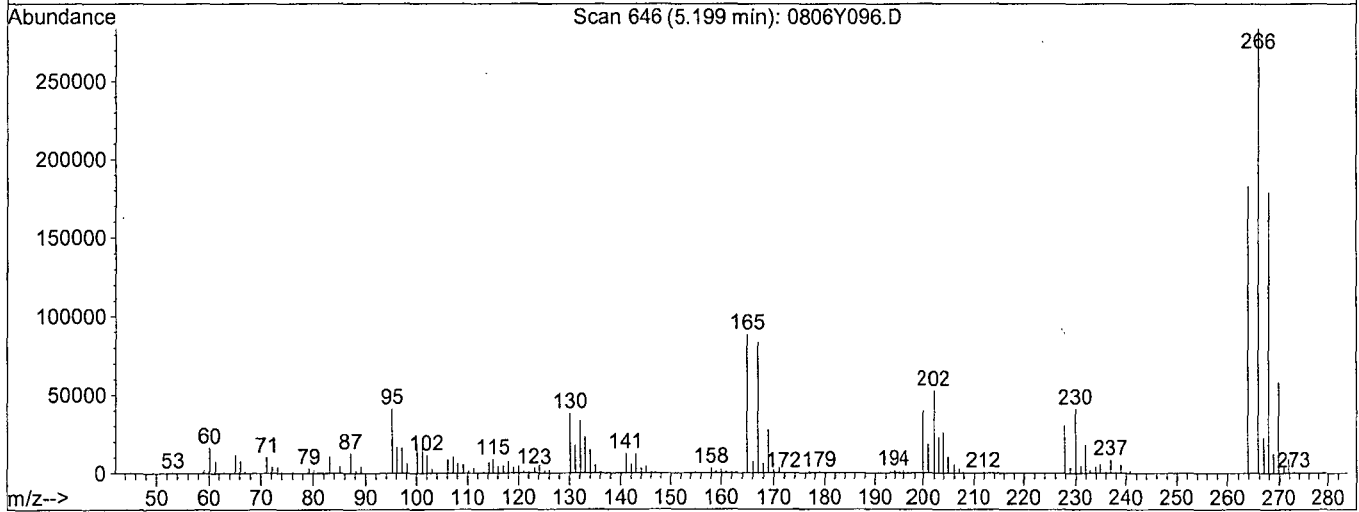
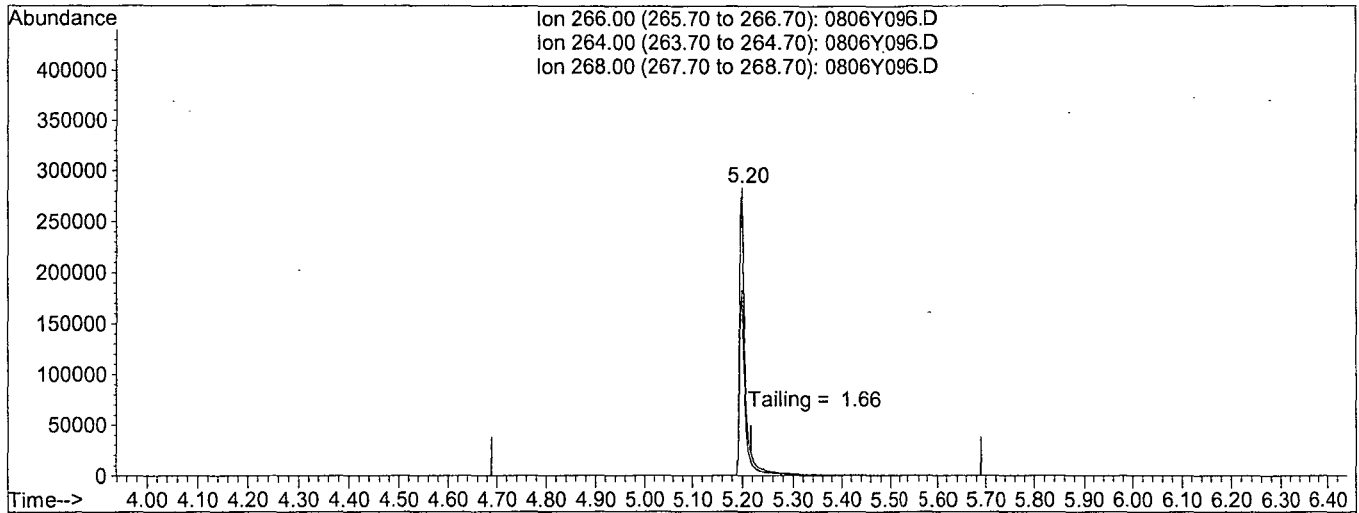
Breakdown 0.57

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y096.D
 Acq On : 11 Aug 19 12:47
 Sample : SV TUNE 7/11/19
 Misc :
 Quant Time: Aug 11 12:42 2019

Vial: 96
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Tue Aug 06 12:25:14 2019
 Response via : Single Level Calibration



TIC: 0806Y096.D

(5) Pentachlorophenol

5.20min 0.0000

response 2118674

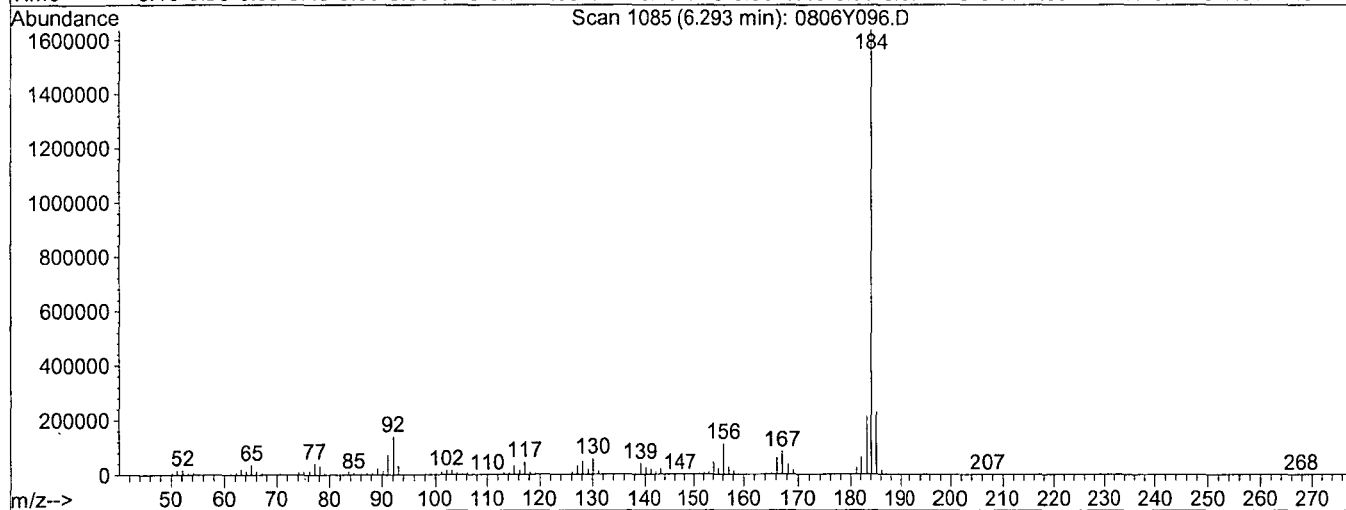
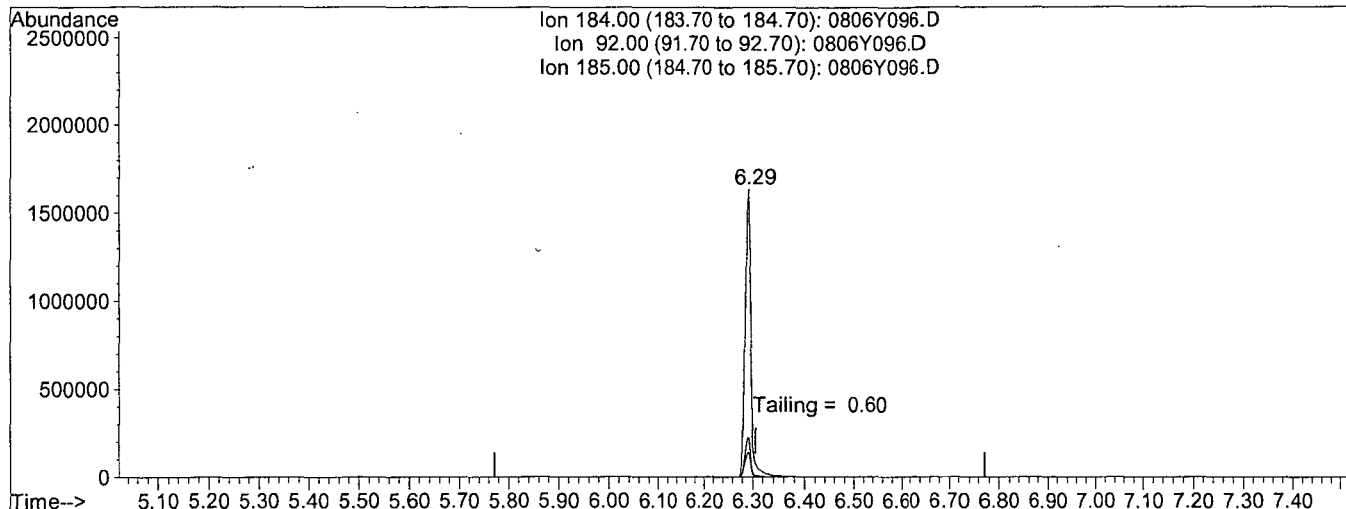
Ion	Exp%	Act%
266.00	100	100
264.00	62.50	62.72
268.00	65.20	61.33
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y190806\0806Y096.D
 Acq On : 11 Aug 19 12:47
 Sample : SV TUNE 7/11/19
 Misc :
 Quant Time: Aug 11 12:42 2019

Vial: 96
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y190806\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Tue Aug 06 12:25:14 2019
 Response via : Single Level Calibration



TIC: 0806Y096.D

(6) Benzidine

6.29min 0.0000

response 12737319

Ion	Exp%	Act%
184.00	100	100
92.00	8.90	8.80
185.00	14.00	14.14
0.00	0.00	0.00

Name of Final Standard **8270 Full Scan Standard Curve**

Prep'd By (Initials)

JPPrep Date 08/06/19Exp Date 10/20/19

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	4 uL	200uL	MC 56258 192uL	4 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	4 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	08/01/19	07/10/20	4 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	5 uL	200uL	MC 56258 190uL	5 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	5 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	08/01/19	07/10/20	4 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	5 uL	100uL	MC 56258 90uL	10 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	5 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	08/01/19	07/10/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	10 uL	100uL	MC 56258 80uL	20 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	10 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	08/01/19	07/10/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	20 uL	100uL	MC 56258 60uL	40 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	20 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	08/01/19	07/10/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	50 uL	200 uL	MC 56258 100uL	50 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	50 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	08/01/19	07/10/20	4 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	30 uL	100uL	MC 56258 40uL	60 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	30 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	08/01/19	07/10/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	40 uL	100uL	MC 56258 20uL	80 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	40 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	08/01/19	07/10/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	03/05/19	10/20/19	50 uL	100uL	na	100 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	50 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	08/01/19	07/10/20	2 uL	*	*	*

Name of Final Standard **8270 Full Scan Second Source**

Prep'd By (Initials)

JPPrep Date 08/06/19Exp Date 01/08/20

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
8270 SS Stock	o2si	8270 SS Stock	200 ug/mL	03/05/19	01/08/20	50 uL	200uL	MC 56258 150uL	50 ug/mL
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	08/01/19	07/10/20	4 uL	*	*	*

Name of Final Standard **8270 Full Scan Spike** Prep'd By (Initials) **GA**
 Prep Date **03/05/19**
 Exp Date **10/20/19**

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
10001	Absolute	10001	2000	051018-39827 051018-39828	03/05/20	2.0 mL	20 mL	NA	200 ug/mL
10002	Absolute	10002	2000	051018-39832 051018-39833	03/05/20	2.0 mL	*	*	200 ug/mL
10004	Absolute	10004	2000	031618-39836 031618-39839	01/30/20	2.0 mL	*	*	200 ug/mL
10005	Absolute	10005	2000	032018-40011 032018-40012	01/30/20	2.0 mL	*	*	200 ug/mL
10006	Absolute	10006	2000	071318-39842 071318-39843	01/30/20	2.0 mL	*	*	200 ug/mL
10007	Absolute	10007	2000	080116-40016 080116-40017	01/30/20	2.0 mL	*	*	200 ug/mL
10018	Absolute	10018	2000	062718-39847 062718-39848	01/30/20	2.0 mL	*	*	200 ug/mL
70023	Absolute	70023	1000	091217-39852 091217-39853	01/30/20	2.0 mL	*	*	100 ug/mL
82705	Absolute	82705	2000	081418-40020 081418-40021	01/30/20	2.0 mL	*	*	200 ug/mL
94552	Absolute	94552	various	102017-40026 102017-40027	10/20/19	2.0 mL	*	*	various

Name of Final Standard **8270 SS STOCK** Prep'd By (Initials) **GA**
 Prep Date **03/05/19**
 Exp Date **01/08/20**

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
10001	Absolute	10001	2000	031618-39202	03/05/20	1.0 mL	10 mL	NA	200 ug/mL
10002	Absolute	10002	2000	G34-020217-38182	02/02/20	1.0 mL	*	*	200 ug/mL
10004	Absolute	10004	2000	010815-38625	01/08/20	1.0 mL	*	*	200 ug/mL
10005	Absolute	10005	2000	041317-37804	03/05/20	1.0 mL	*	*	200 ug/mL
10006	Absolute	10006	2000	011718-38827	03/05/20	1.0 mL	*	*	200 ug/mL
10007	Absolute	10007	2000	020515-38627	02/05/20	1.0 mL	*	*	200 ug/mL
10018	Absolute	10018	2000	G34-030216-38195	03/05/20	1.0 mL	*	*	200 ug/mL
70023	Absolute	70023	1000	013118-38830	03/05/20	1.0 mL	*	*	100 ug/mL
82705	Absolute	82705	2000	090617-38832	03/05/20	1.0 mL	*	*	200 ug/mL
94552	Absolute	94552	various	013118-40453	01/31/20	1.0 mL	*	*	various

Name of Final Standard Semivolatle (SV) Tuning Solution
 Prep Date 07/11/19
 Exp Date 09/30/19

Prep'd By (Initials)

JP

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Semivolatle GC/MS Tuning Standard	Ultra Scientific	GCM-150-1	1,000 ug/mL	CR3789-38879	09/30/19	1,250 uL	25 mL	MC #58240	50 ug/mL

Name of Final Standard 8270 Surrogate 200/400 ppm
 Prep Date 07/10/19
 Exp Date 06/24/20

Prep'd By (Initials)

GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
8270 Acid Surrogate Mix	Restek	33029	10,000 ug/mL	A0141104-39902	06/24/20	200 uL	5 mL	MC 56258 4,600 uL	400 ug/mL
8270 B/N Surrogate Mix	Restek	31086	5000 ug/mL	A0141697-40114	06/24/20	200 uL	*	*	200 ug/mL

Name of Final Standard 8270 Internal Standard Ampules (2)
 Prep Date 08/01/19
 Exp Date 7/10/20 and 8/1/20

Prep'd By (Initials)

GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Semivolatle Internal Standard	Restek	31206	2000ug/mL	A0144261 - 40464 A0144261 - 40465	7/10/20 8/01/20	2 mL	2 mL	NA	2000ug/mL

Name of Final Standard 8270 Spike **Prep'd By (Initials)** GA
Prep Date 06/19/19
Exp Date 12/19/19

Initial Standard Information					Final Standard Information				
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent (or APPL Prep Date)	Final Standard Conc (range)
8270 Stock spike	APPL	8270 STD	200:100 ug/mL	06/06/19	01/31/20	12.5 mL	50 mL	Methanol 208858	50:25 ug/mL

Name of Final Standard 8270 Surrogate 100/200 ppm **Prep'd By (Initials)** GA
Prep Date 06/24/19
Exp Date 04/10/20

Initial Standard Information					Final Standard Information				
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
8270 Acid Surrogate Mix	Restek	33029	10,000 ug/mL	A0141104 39901 A0141104 - 39902	04/10/20 6/24/20	10 mL	500 mL	Acetone #1017171	200 ug/mL
8270 B/N Surrogate Mix	Restek	31086	5000 ug/mL	A0141697 40112 40113 40114	04/10/20 06/24/19	10 mL	*	*	100 ug/mL

Organic Extraction Worksheet

Method	Continuous Liquid/Liquid SVOC 3520C	Extraction Set	190805A	Extraction Method	LIQ003	Units	mL
Spiked ID 1	8270T Spike 7/18/19-10/20/19	Surrogate ID 1	8270 Surrogate 6/24/19-4/10/19				
Spiked ID 2	Sim Spike 7/24/19-7/9/19	Surrogate ID 2	SIM Surrogate 7/19/19-7/1/20				
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:		yes			
Spiked ID 7		Ext. Start Time:		08/05/19 11:10			
Spiked ID 8		Ext. End Time:		08/08/19 16:30			
		GC Requires Extract By:		08/07/19 0:00			
pH1	2	08/05/19 13:35	Water Bath Temp 1 °C	72/71.2 EWB5 °			
pH2	14	08/06/19 8:05	Water Bath Temp 2 °C	75/74.9 EWB6			
pH3			Water Bath Temp 3 °C				

Spiked By: DL

Date 08/05/19

Witnessed By: CFM

Date 08/05/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	190805A Bk			1,0.050	1,2	800	1	2/1	08/05/19 11:10	
					equip	e-hp51 E-WB5				
2	190805A LCS-1	1	1	1	1	800	1	2/1	08/05/19 11:10	
					equip	e-hp50 E-WB5				
3	190805A LCS-2	0.125	2	0.050	2	800	1	2/1	08/05/19 11:10	
					equip	E-HP48 E-WB5				
4	190805A LCS-D-1	1	1	1	1	800	1	2/1	08/05/19 11:10	
					equip	E-HP49 E-WB5				
5	190805A LCS-D-2	0.125	2	0.050	2	800	1	2/1	08/05/19 11:10	
					equip	E-HP47 E-WB5				
6	AZ95765 AZ95765W13			1,0.050	1,2	800	1	2/1	08/05/19 11:10	89644
					equip	E-HP25 E-WB5				
7	AZ95858 AZ95858W10			1,0.050	1,2	800	1	2/1	08/05/19 11:10	89677
					equip	E-HP26 E-WB6				
8	AZ95860 AZ95860W19			1,0.050	1,2	800	1	2/1	08/05/19 11:10	89674
					equip	E-HP27 E-WB6				
9	AZ95987 MS-1 AZ95987W29	1	1	1	1	800	1	2/1	08/05/19 11:10	
					equip	E-HP29 E-WB6				
10	AZ95987 MSD-1 AZ95987W40	1	1	1	1	800	1	2/1	08/05/19 11:10	
					equip	E-HP30 E-WB6				
11	AZ95987 MS-2 AZ95987W39	0.125	2	0.050	2	800	1	2/1	08/05/19 11:10	
					equip	E-HP17 E-WB6				
12	AZ95987 MSD-2 AZ95987W36	0.125	2	0.050	2	800	1	2/1	08/05/19 11:10	
					equip	E-HP16 E-WB6				
13	AZ95987 AZ95987W34			1,0.050	1,2	800	1	2/1	08/05/19 11:10	89682
					equip	E-HP28 E-WB6				
14	AZ95988 AZ95988W09			1,0.050	1,2	800	1	2/1	08/05/19 11:10	89682
					equip	E-HP28 E-WB6				
15	AZ96149 AZ96149W21			1,0.050	1,2	800	1	2/1	08/05/19 11:10	89702
					equip	E-HP15 E-WB6				
16	AZ96152 AZ96152W16			1,0.050	1,2	800	1	2/1	08/05/19 11:10	89702
					equip	E-HP14 E-WB6				

Solvent and Lot#	
PH Strips	HC863463
Dichloromethane (DCM)	58240
1+1 H2SO4	7/2/19
10N NaOH	7/16/19
Filter Paper	400163
Acidified Na2SO4	8/2/19
B. Na2SO4	2019010772

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	JP
Date	8/9/19
Time	10:20
Refrigerator	6C-C

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	08/12/19 2:52:27 PM

Reviewed By: *SS* Page 382 of 745 Date *8/12/19*

Injection Log

Directory: M:\YODA\DATA\Y190806\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	2	0806Y002.D	1	SV TUNE 07/11/19		6 Aug 19 10:07
2	3	0806Y003.D	1	50ug/ml 8270 08/06/19		6 Aug 19 10:53
3	4	0806Y004.D	1	4ug/ml 8270 08/06/19		6 Aug 19 11:45
4	5	0806Y005.D	1	5ug/ml 8270 08/06/19		6 Aug 19 12:13
5	6	0806Y006.D	1	10ug/ml 8270 08/06/19		6 Aug 19 12:41
6	7	0806Y007.D	1	20ug/ml 8270 08/06/19		6 Aug 19 13:09
7	8	0806Y008.D	1	40ug/ml 8270 08/06/19		6 Aug 19 13:37
8	9	0806Y009.D	1	60ug/ml 8270 08/06/19		6 Aug 19 14:05
9	10	0806Y010.D	1	80ug/ml 8270 08/06/19		6 Aug 19 14:33
10	11	0806Y011.D	1	100ug/ml 8270 08/06/19		6 Aug 19 15:00
11	12	0806Y012.D	1	SS 8270 08/06/19		6 Aug 19 16:50
12	67	0806Y067.D	1	SV TUNE 7/11/19		9 Aug 19 16:07
13	68	0806Y068.D	1	50ug/ml 8270 08/06/19 (2)		9 Aug 19 16:40
14	70	0806Y070.D	1.25	190805A LCS-1 1/800		9 Aug 19 17:50
15	71	0806Y071.D	1.25	190805A LCSD-1 1/800		9 Aug 19 18:18
16	74	0806Y074.D	1.25	AZ95860W19 1/800		9 Aug 19 19:42
17	92	0806Y092.D	1	50ug/ml 8270 08/06/19 (1)		10 Aug 19 4:04
18	96	0806Y096.D	1	SV TUNE 7/11/19		11 Aug 19 12:47
19	97	0806Y097.D	1	50ug/ml 8270 08/06/19 (2)		11 Aug 19 13:02
20	10	0806Y110.D	1.25	190805A BLK 1/800		11 Aug 19 19:10
21	22	0806Y122.D	1	50ug/ml 8270 08/06/19 (1)		12 Aug 19 00:46

ORGANICS
Raw Data

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 07/30/19
Instrument: Linus

Initials: _____

0730L004.D 0730L005.D 0730L006.D 0730L007.D 0730L003.D 0730L008.D 0730L009.D 0730L010.D

	Compound	1	2	3	4	5	6	7	8			Avg	%RSD	Type	r ²	Q	MRF
1	I 1,4-dichlorobenzene-D4(IS)																
2	TM 2-(2-Methoxyethoxy)ethanol	0.0513	0.0486	0.0503	0.0603	0.0658	0.0514	0.0494	0.0498			0.05	12	TM			
3	I Napthalene-D8(IS)																
4	I Acenaphthene-D10(IS)																
5	I Phenanthrene-D10(IS)																
6	I Chrysene-D12(IS)																
7	I Perylene-D12(IS)																
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35																	

Data File : M:\LINUS\DATA\L190730M\0730L003.D
 Acq On : 30 Jul 19 11:54
 Sample : 500ug/ml MEE 04/30/19
 Misc :

Vial: 3
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Jul 30 15:11 2019

Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.15	152	1252960m	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.06	136	4766611	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3290611	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	6280174	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	7882794	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	8242249	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.72	45	1031220	602.48523	ppb	100

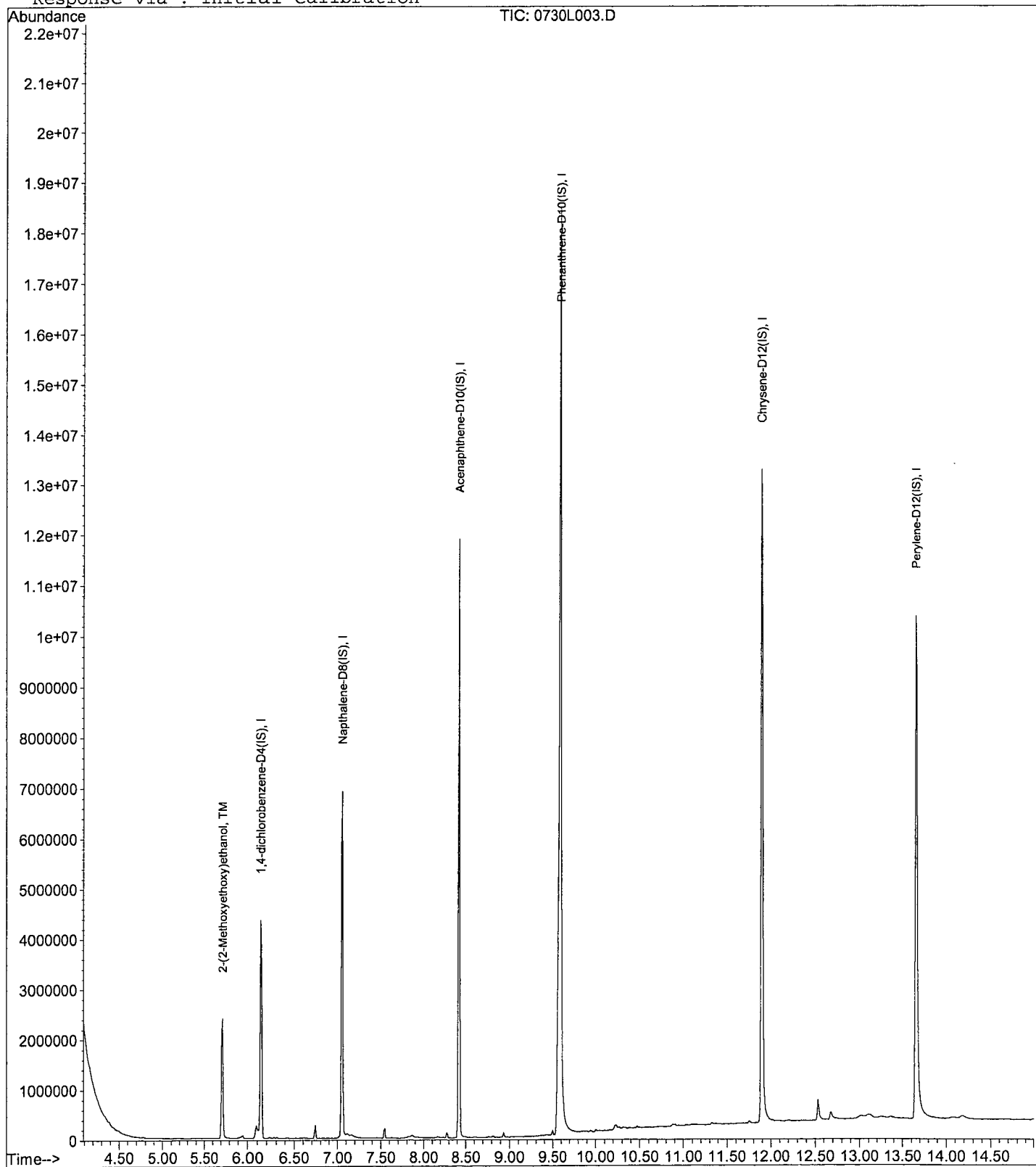
Data File : M:\LINUS\DATA\L190730M\0730L003.D
Acq On : 30 Jul 19 11:54
Sample : 500ug/ml MEE 04/30/19
Misc :

Vial: 3
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:11 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration

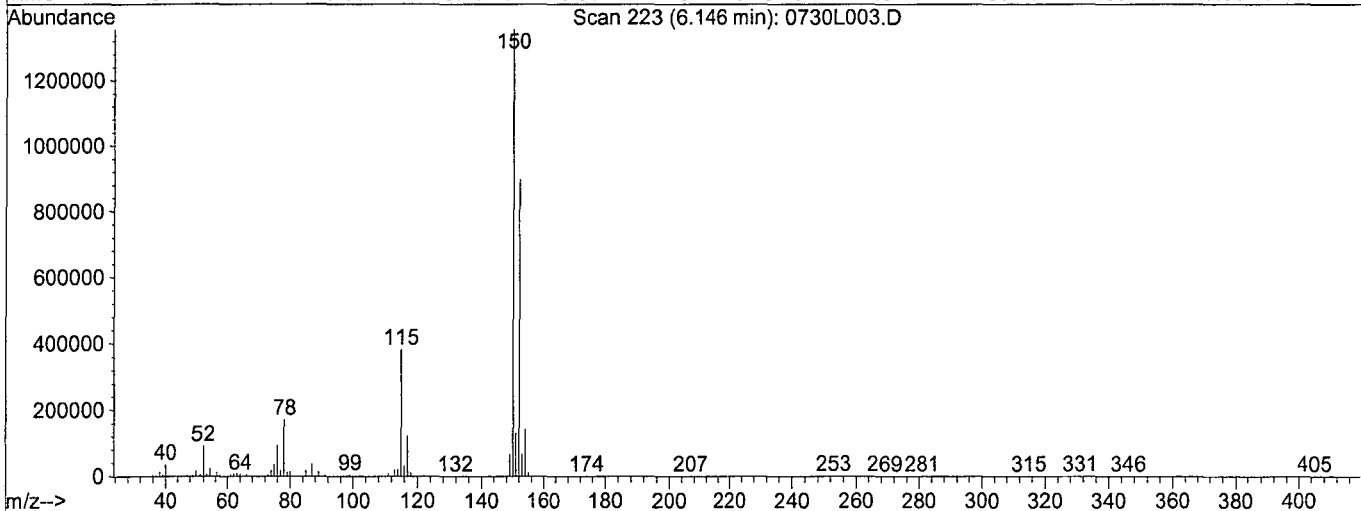
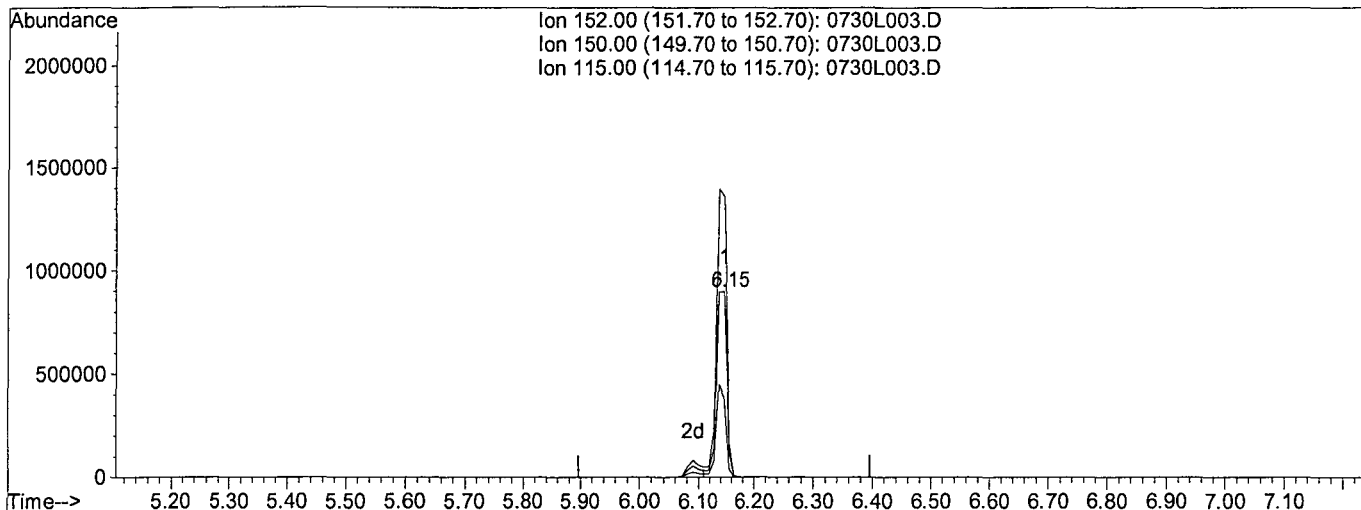


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L003.D
 Acq On : 30 Jul 19 11:54
 Sample : 500ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:11 2019

Vial: 3
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L003.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.15min 40.0000ppb

response 1162118

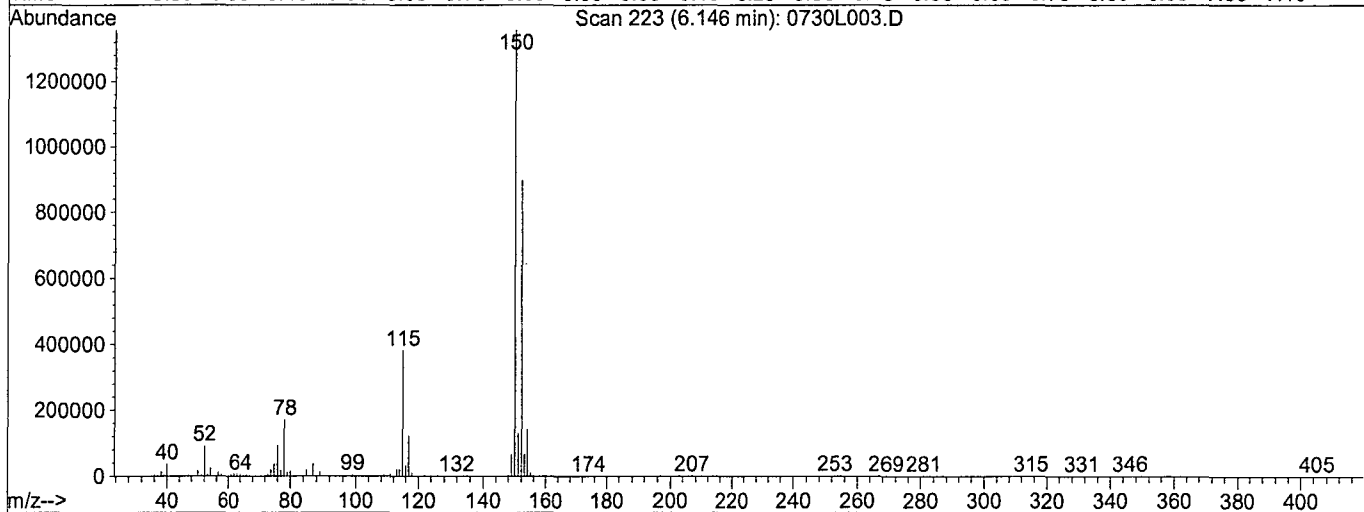
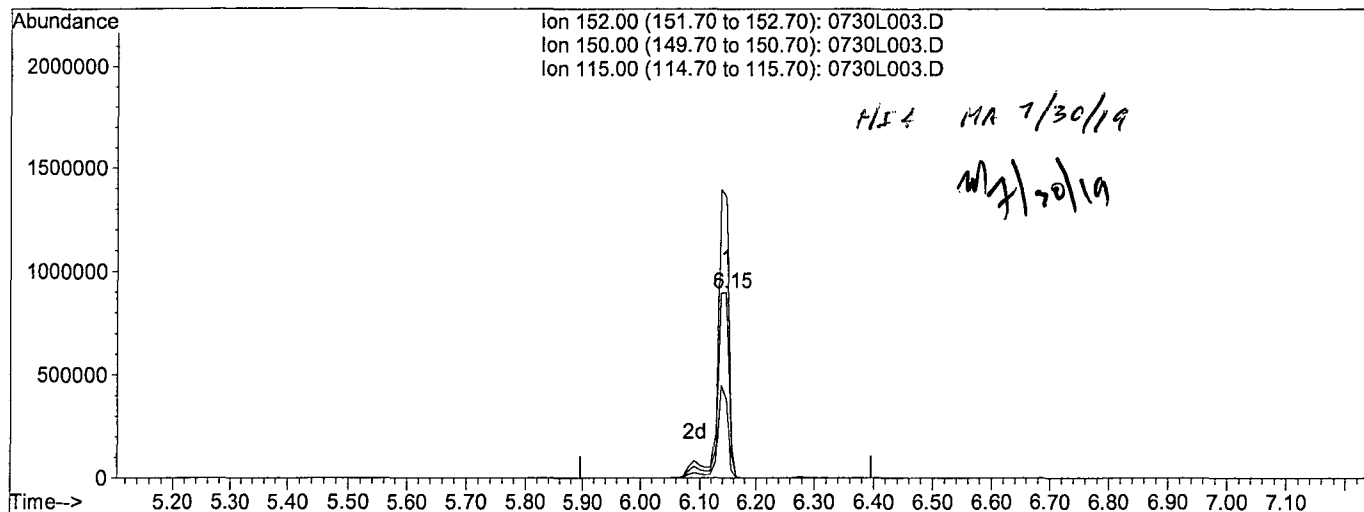
Ion	Exp%	Act%
152.00	100	100
150.00	151.30	151.29
115.00	42.60	42.59
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L003.D
 Acq On : 30 Jul 19 11:54
 Sample : 500ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:11 2019

Vial: 3
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L003.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.15min 40.0000ppb m

response 1252960

Ion	Exp%	Act%
152.00	100	100
150.00	151.30	151.32
115.00	42.60	42.57
0.00	0.00	0.00

Data File : M:\LINUS\DATA\L190730M\0730L004.D Vial: 4
 Acq On : 30 Jul 19 12:18 Operator: MA
 Sample : 50ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 30 15:11 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.10	152	1583836	40.00000	ppb	-0.05
3) Napthalene-D8 (IS)	7.05	136	4068946	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3257857	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7336759	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	7870725	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	9316764	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	5.67	45	101552	46.93648	ppb	98

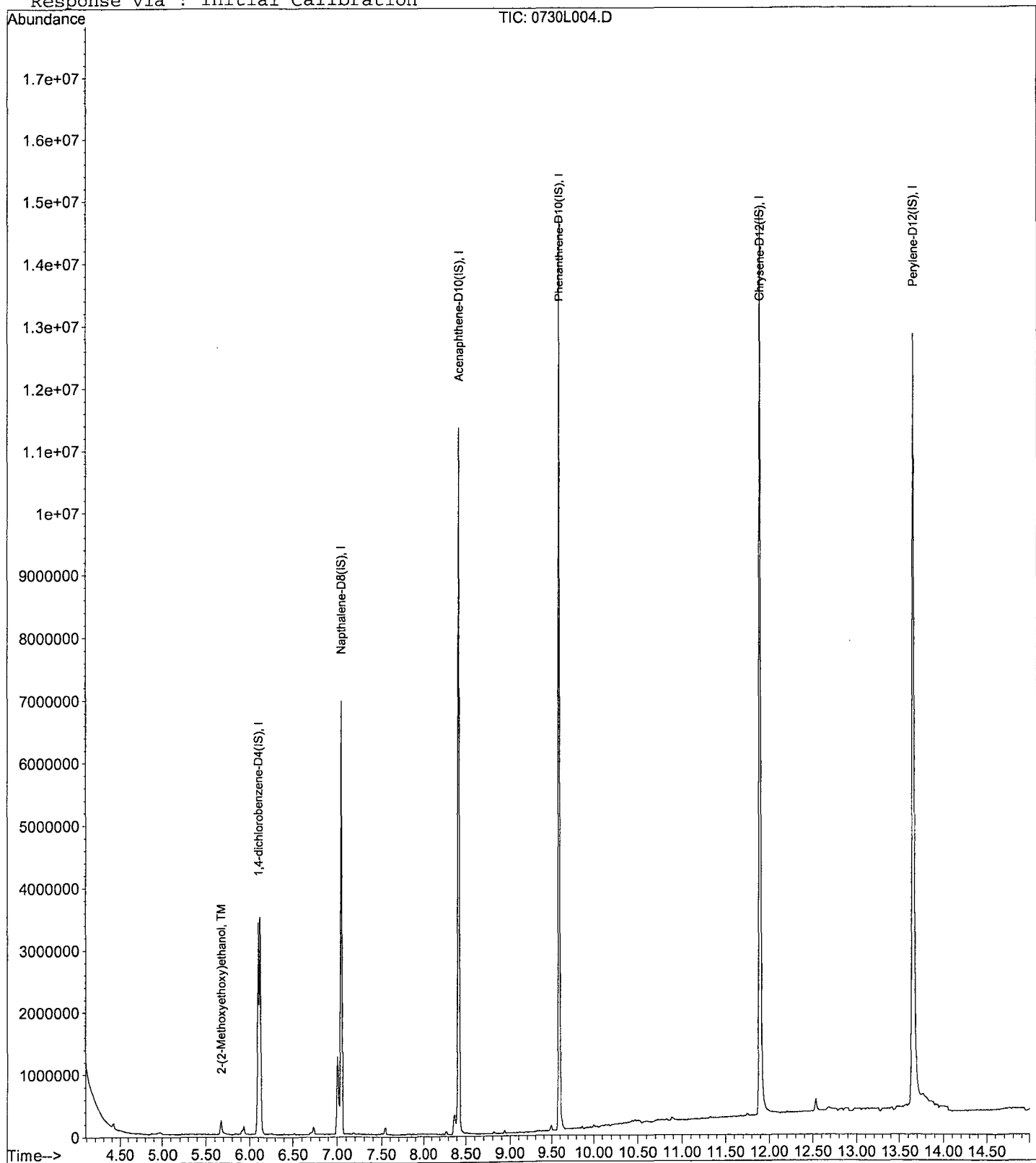
Data File : M:\LINUS\DATA\L190730M\0730L004.D
Acq On : 30 Jul 19 12:18
Sample : 50ug/ml MEE 04/30/19
Misc :

Vial: 4
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:11 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L005.D
 Acq On : 30 Jul 19 13:17
 Sample : 100ug/ml MEE 04/30/19
 Misc :

Vial: 5
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Jul 30 15:11 2019

Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.10	152	1470082	40.00000	ppb	-0.05
3) Napthalene-D8 (IS)	7.05	136	4360086	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3657157	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.60	188	7715173	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.93	240	7945115	40.00000	ppb	0.04
7) Perylene-D12 (IS)	13.71	264	7813985	40.00000	ppb	0.06

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.66	45	178738	89.00361	ppb	96

Quantitation Report

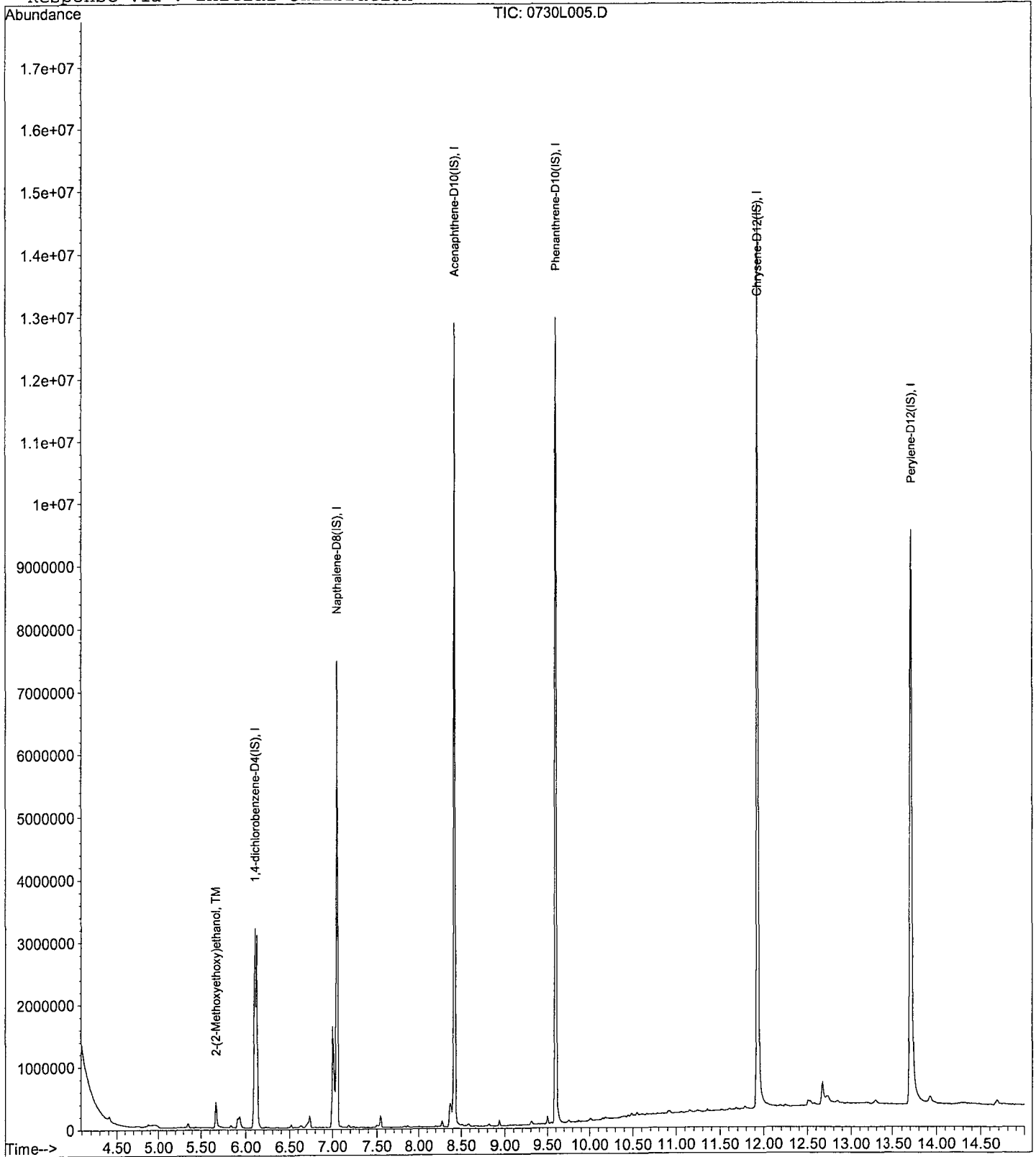
Data File : M:\LINUS\DATA\L190730M\0730L005.D
Acq On : 30 Jul 19 13:17
Sample : 100ug/ml MEE 04/30/19
Misc :

Vial: 5
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:11 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L006.D
 Acq On : 30 Jul 19 13:41
 Sample : 200ug/ml MEE 04/30/19
 Misc :

Vial: 6
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Jul 30 15:12 2019

Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.13	152	1461825m	40.00000	ppb	-0.02
3) Napthalene-D8 (IS)	7.05	136	5084767	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3673311	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7619869	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	8245101	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	8432192	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.68	45	367317	183.94074	ppb	99

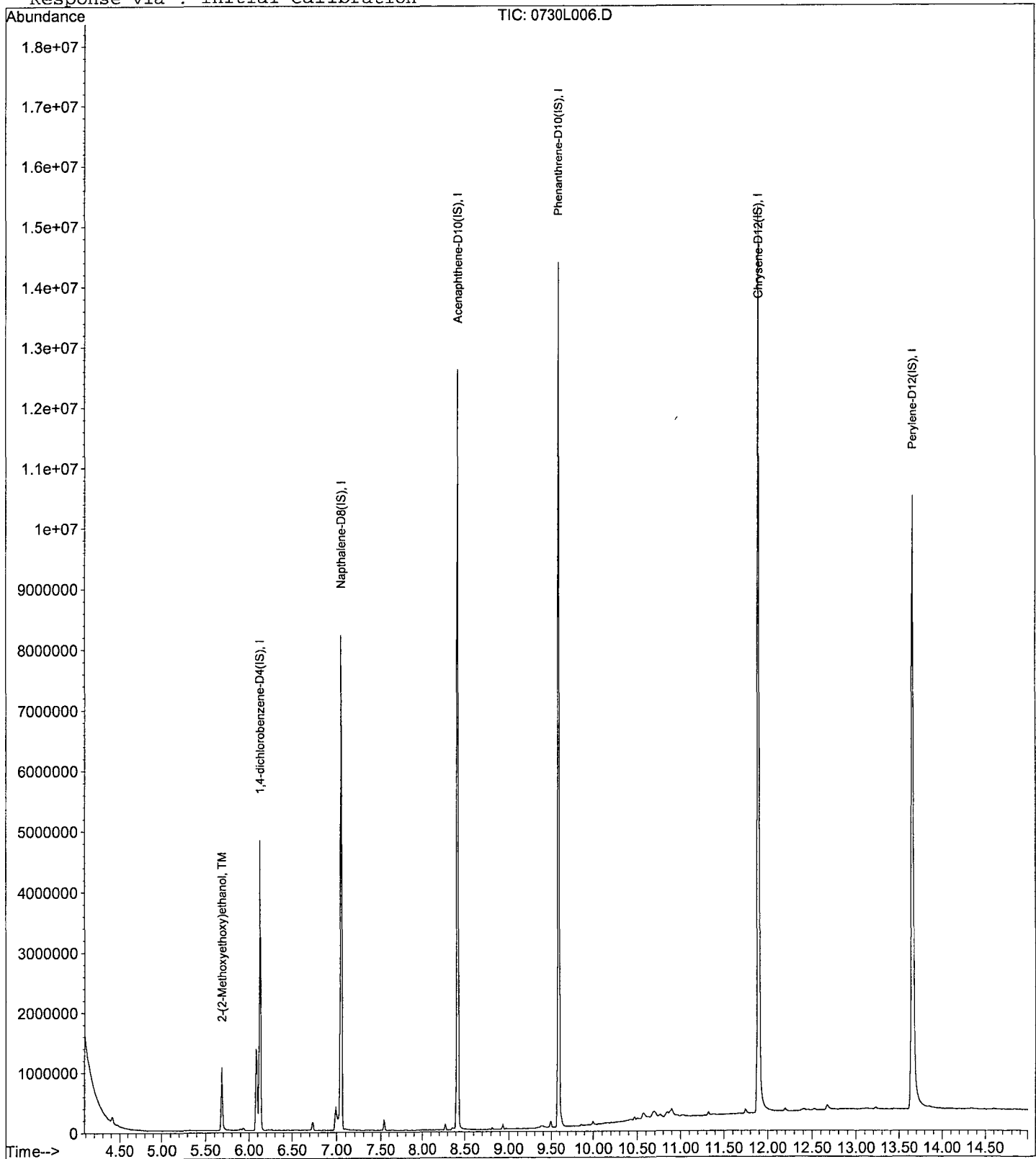
Data File : M:\LINUS\DATA\L190730M\0730L006.D
Acq On : 30 Jul 19 13:41
Sample : 200ug/ml MEE 04/30/19
Misc :

Vial: 6
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:12 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration

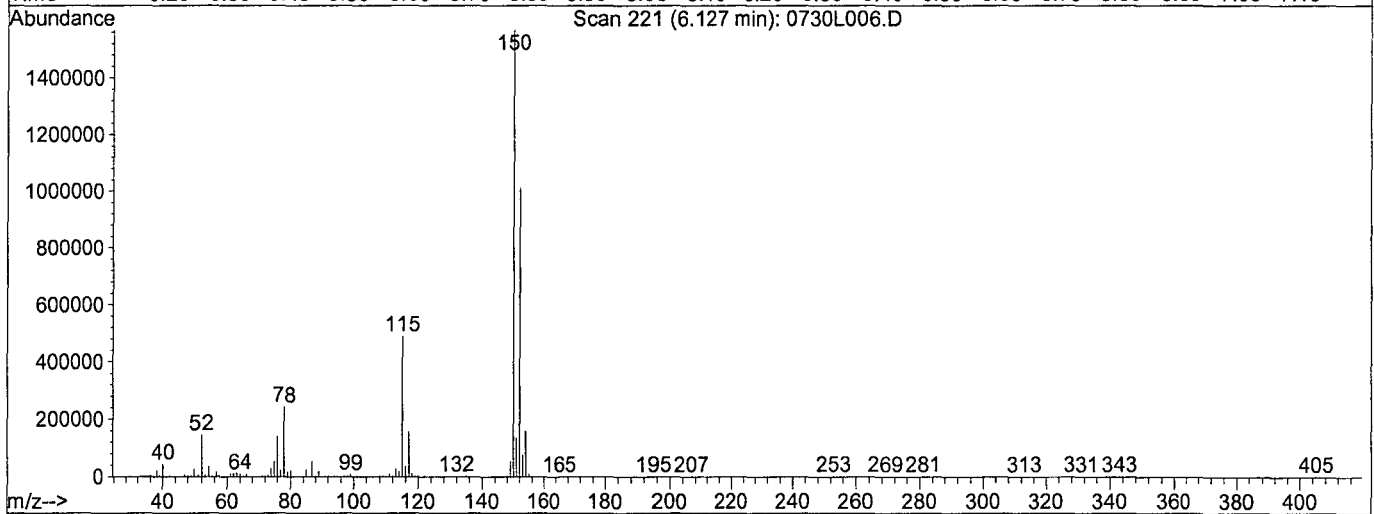
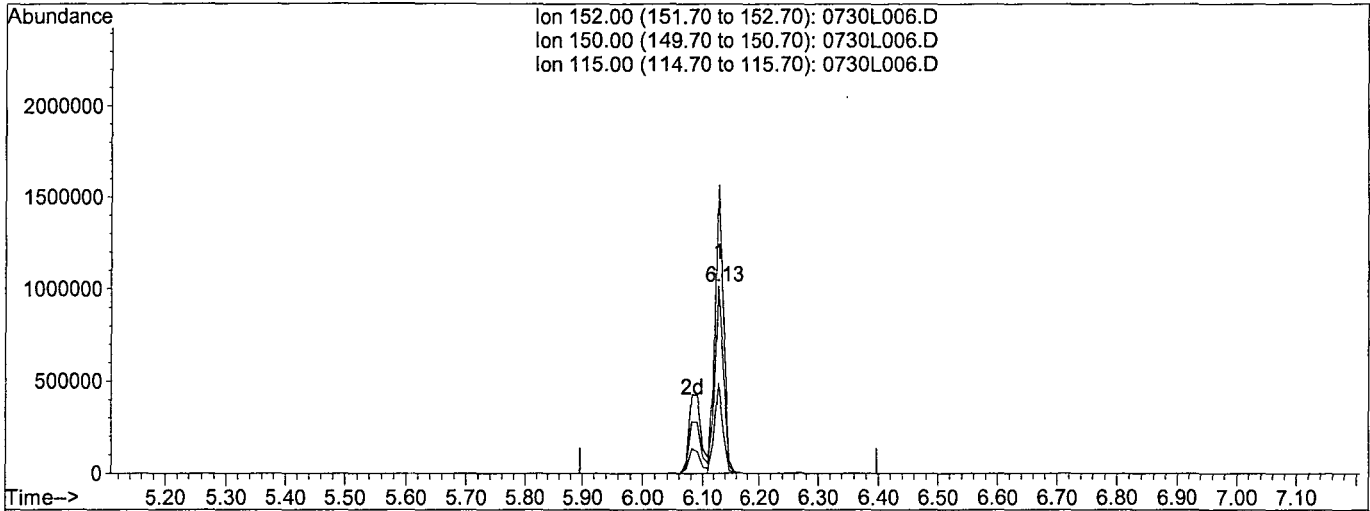


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L006.D
 Acq On : 30 Jul 19 13:41
 Sample : 200ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:11 2019

Vial: 6
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L006.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb

response 1047104

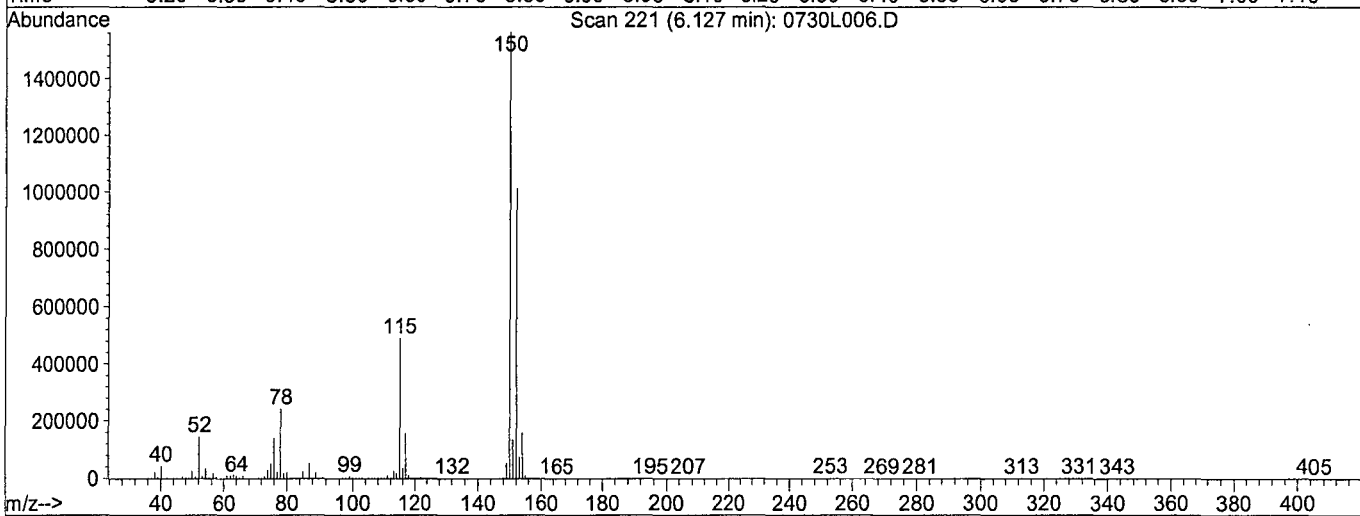
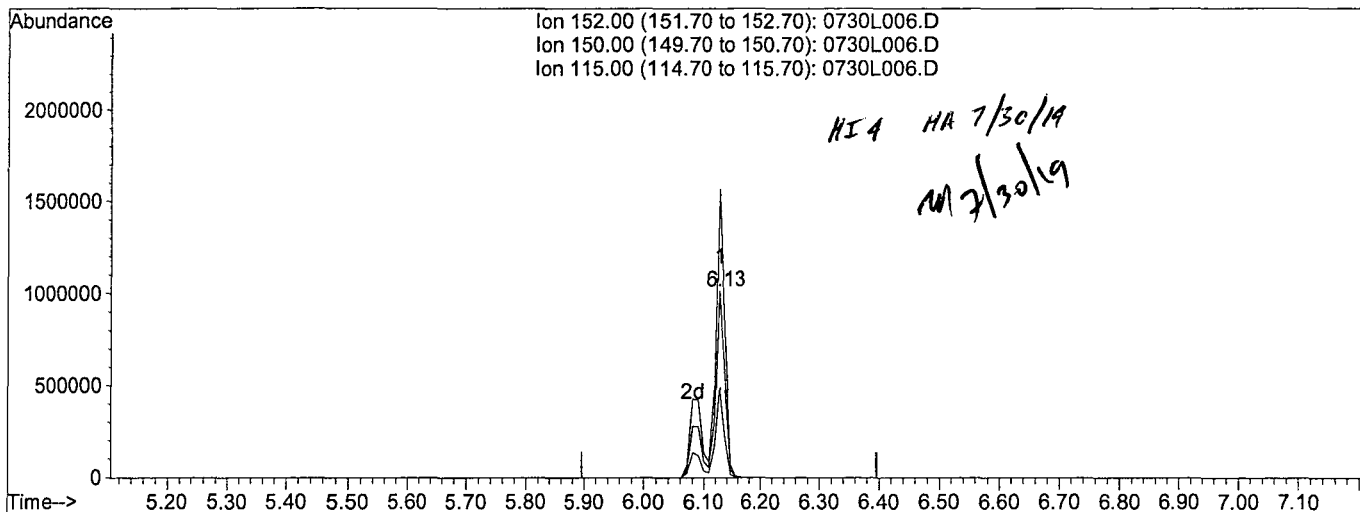
Ion	Exp%	Act%
152.00	100	100
150.00	151.30	154.77
115.00	42.60	48.39
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L006.D
 Acq On : 30 Jul 19 13:41
 Sample : 200ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:12 2019

Vial: 6
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L006.D

(1) 1,4-dichlorobenzene-D4(S) (I)

6.13min 40.0000ppb m

response 1461825

Ion	Exp%	Act%
152.00	100	100
150.00	151.30	154.73
115.00	42.60	48.40
0.00	0.00	0.00

Data File : M:\LINUS\DATA\L190730M\0730L007.D Vial: 7
 Acq On : 30 Jul 19 14:04 Operator: MA
 Sample : 400ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 30 15:13 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.13	152	1382825m	40.00000	ppb	-0.02
3) Napthalene-D8 (IS)	7.05	136	4970142	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3606286	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7424397	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.88	240	7867434	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.64	264	7875034	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	5.69	45	833210	441.08221	ppb	98

Quantitation Report

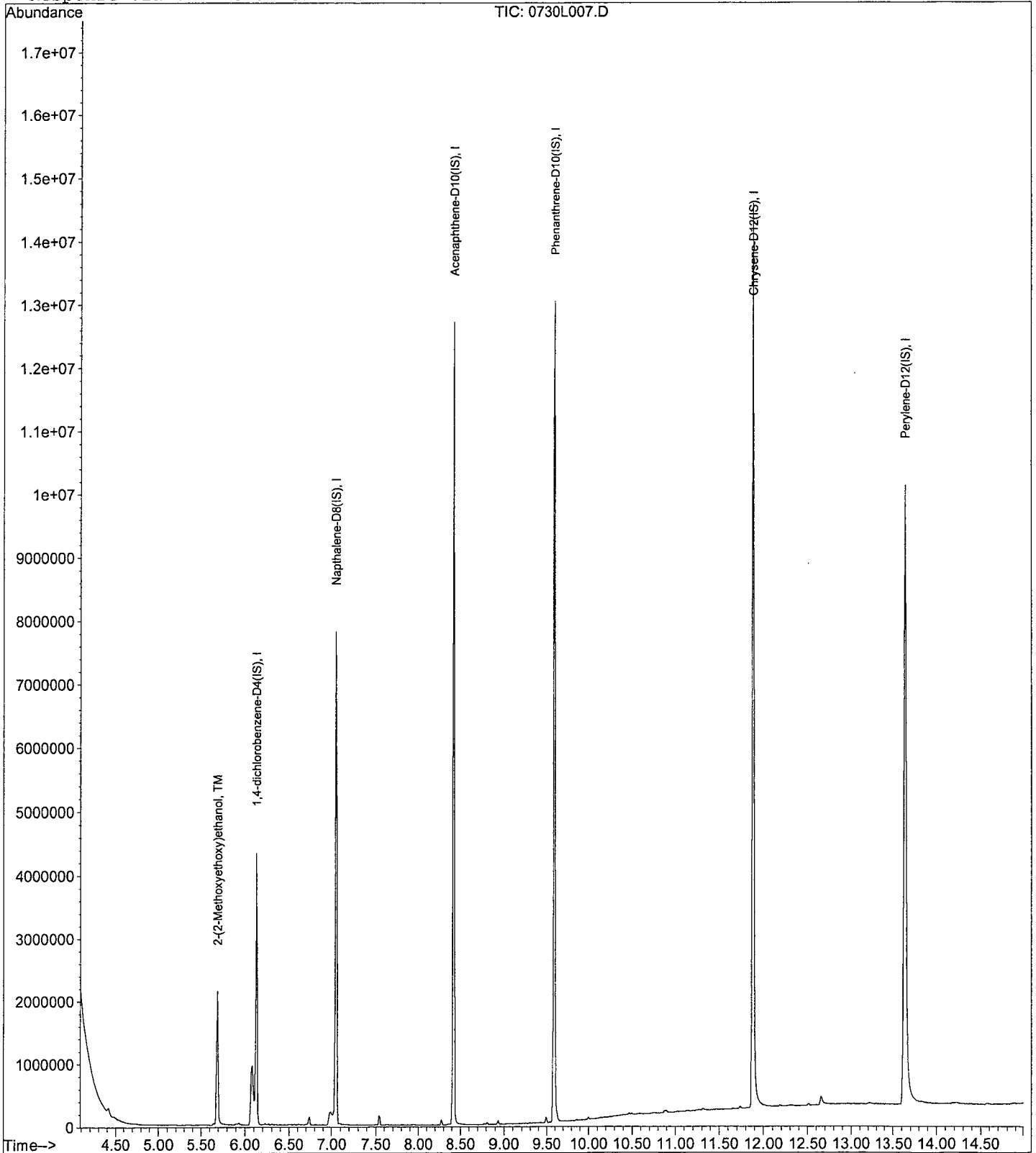
Data File : M:\LINUS\DATA\L190730M\0730L007.D
Acq On : 30 Jul 19 14:04
Sample : 400ug/ml MEE 04/30/19
Misc :

Vial: 7
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:13 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration

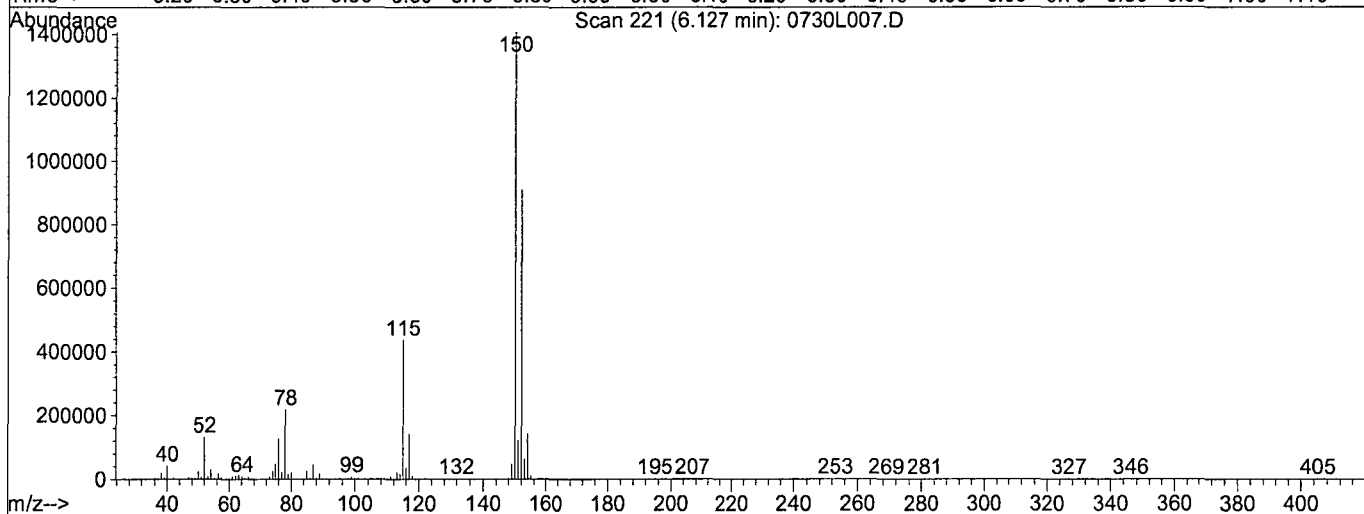
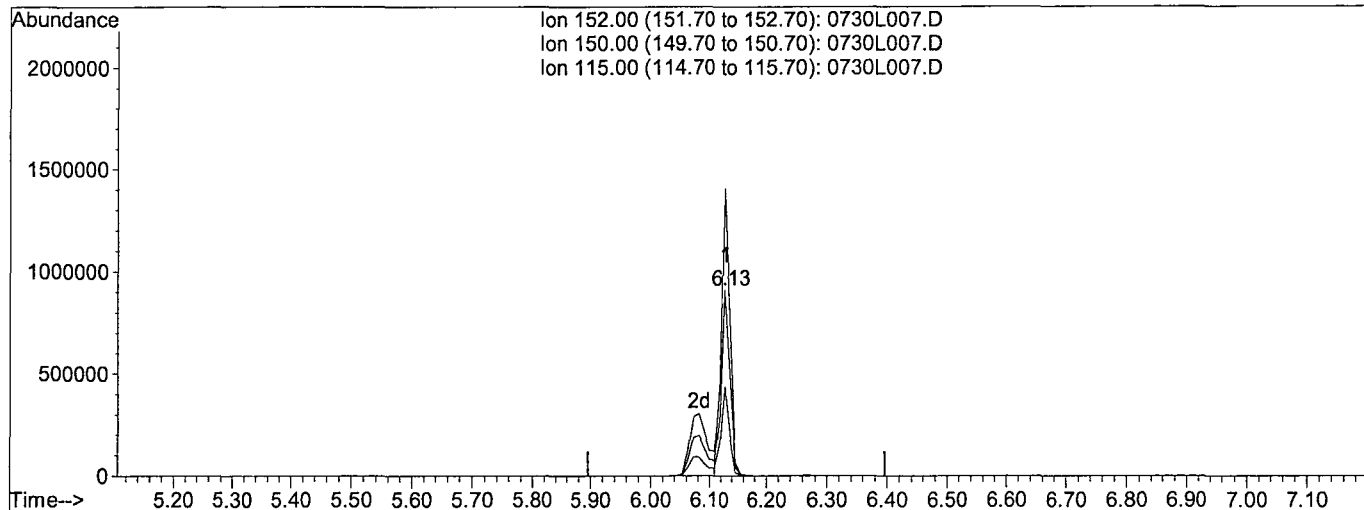


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L007.D
 Acq On : 30 Jul 19 14:04
 Sample : 400ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:11 2019

Vial: 7
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L007.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb

response 957510

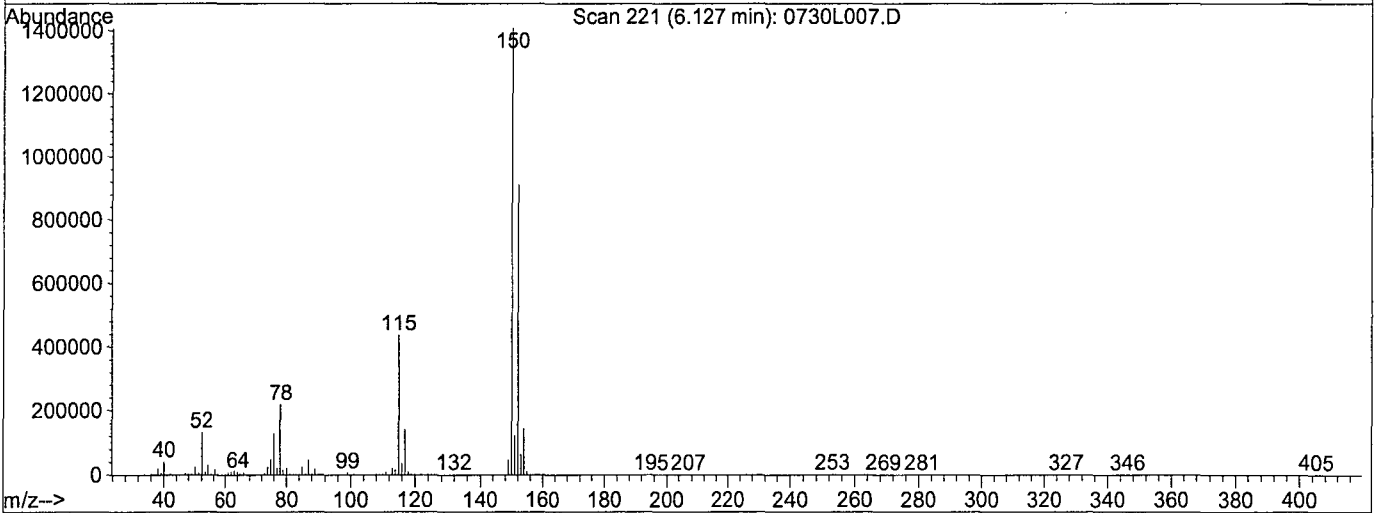
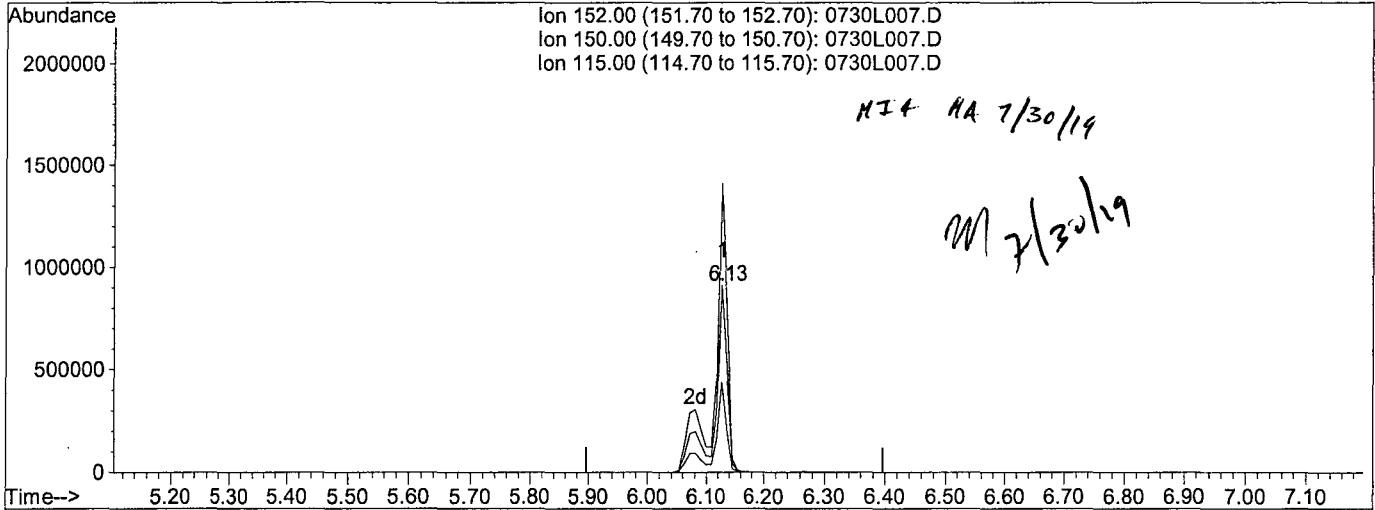
Ion	Exp%	Act%
152.00	100	100
150.00	151.30	154.57
115.00	42.60	47.94
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L007.D
 Acq On : 30 Jul 19 14:04
 Sample : 400ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:13 2019

Vial: 7
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L007.D

(1) 1,4-dichlorobenzene-D4(1S) (I)

6.13min 40.0000ppb m
 response 1382825

Ion	Exp%	Act%
152.00	100	100
150.00	151.30	154.56
115.00	42.60	47.96
0.00	0.00	0.00

Data File : M:\LINUS\DATA\L190730M\0730L008.D Vial: 8
 Acq On : 30 Jul 19 14:27 Operator: MA
 Sample : 600ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Jul 30 15:13 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.12	152	1716822m	40.00000	ppb	-0.03
3) Napthalene-D8 (IS)	7.05	136	6268016	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	4318908	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	9164097	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	9844624	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	9933894	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.69	45	1324145	564.60219	ppb	100

Quantitation Report

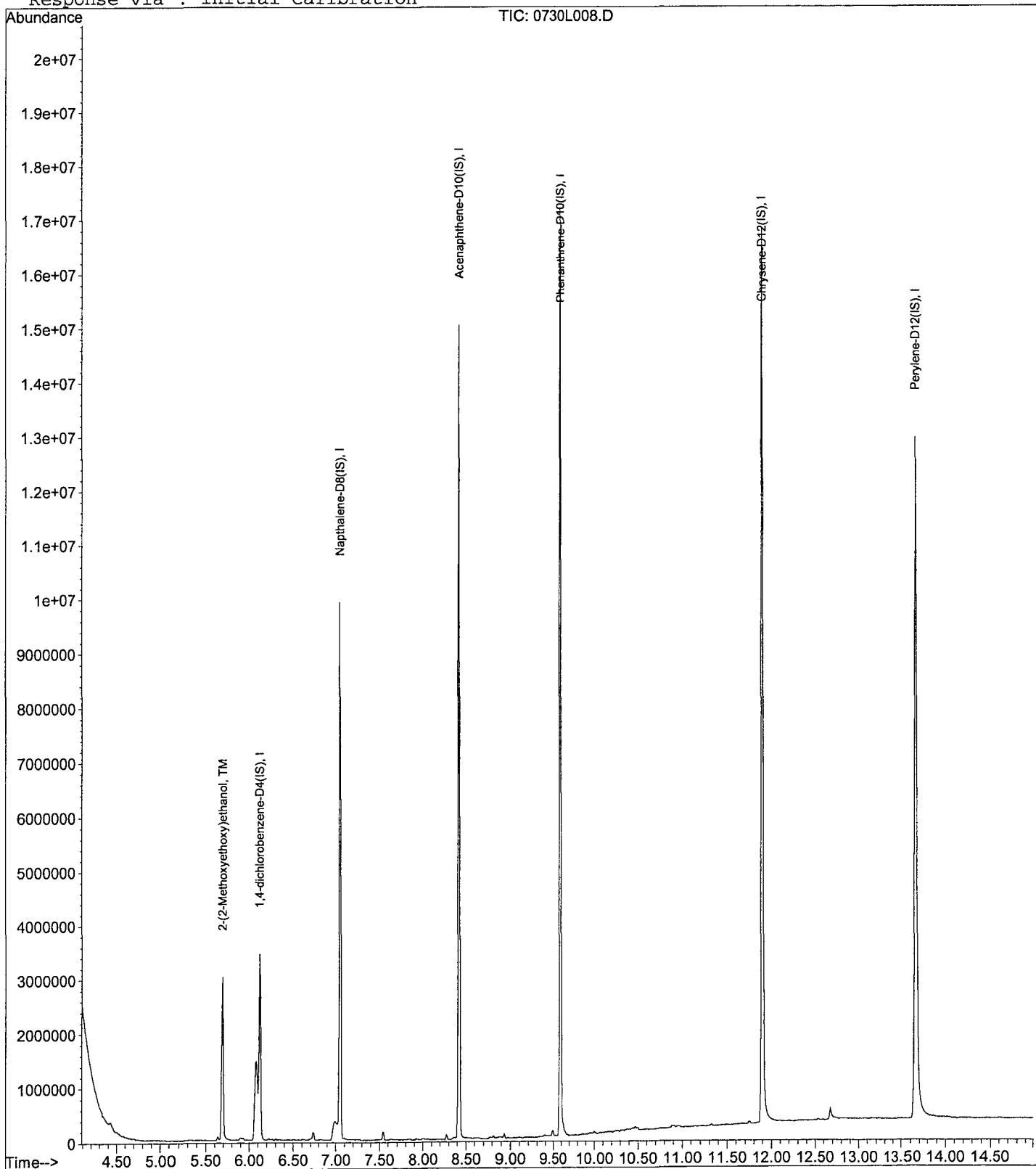
Data File : M:\LINUS\DATA\L190730M\0730L008.D
Acq On : 30 Jul 19 14:27
Sample : 600ug/ml MEE 04/30/19
Misc :

Vial: 8
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:13 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration

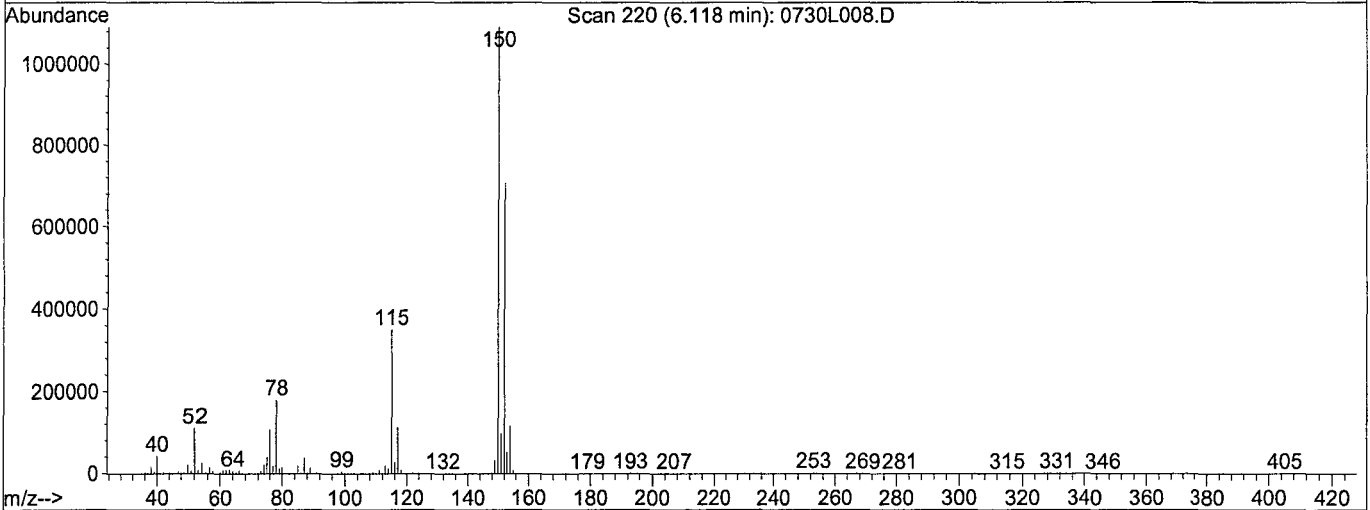
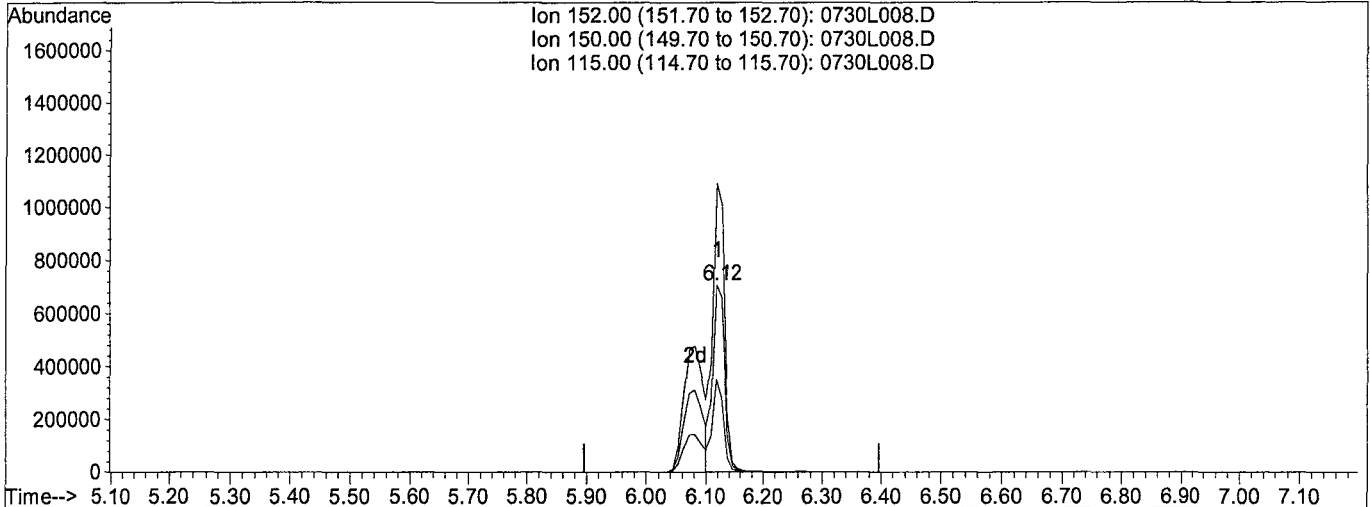


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L008.D
 Acq On : 30 Jul 19 14:27
 Sample : 600ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:11 2019

Vial: 8
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L008.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.12min 40.0000ppb

response 1002516

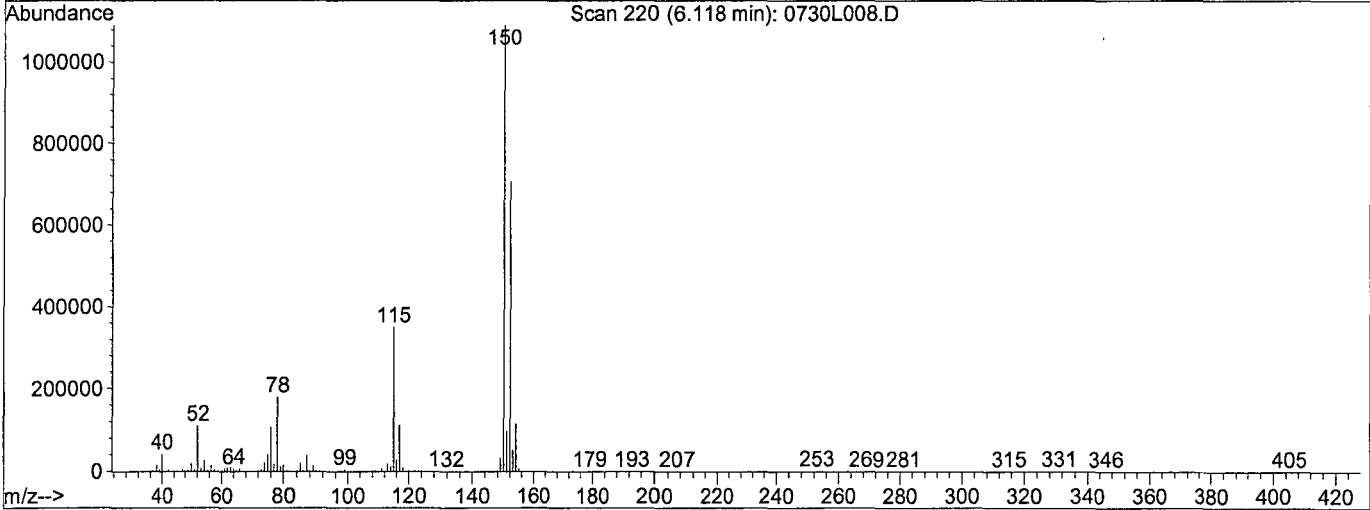
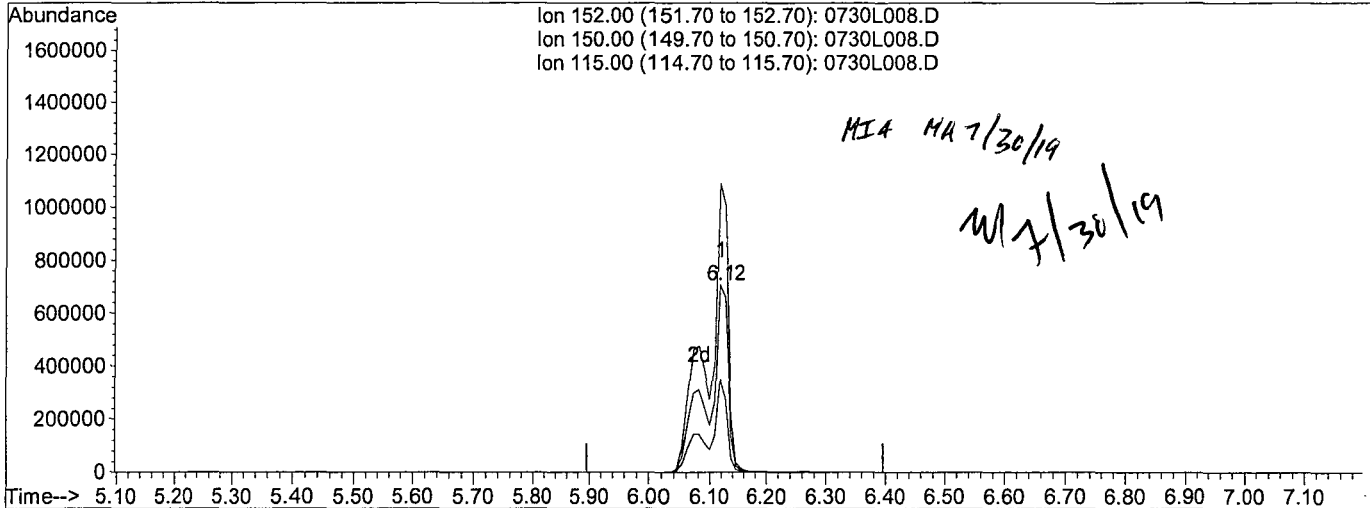
Ion	Exp%	Act%
152.00	100	100
150.00	151.30	154.35
115.00	42.60	49.55
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L008.D
 Acq On : 30 Jul 19 14:27
 Sample : 600ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:13 2019

Vial: 8
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L008.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.12min 40.0000ppb m

response 1716822

Ion	Exp%	Act%
152.00	100	100
150.00	151.30	154.38
115.00	42.60	49.62
0.00	0.00	0.00

Data File : M:\LINUS\DATA\L190730M\0730L009.D
 Acq On : 30 Jul 19 14:51
 Sample : 800ug/ml MEE 04/30/19
 Misc :

Vial: 9
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Jul 30 15:10 2019

Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.12	152	1669070m	40.00000	ppb	-0.03
3) Napthalene-D8 (IS)	7.05	136	5374930	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	4141489	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	8405653	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	9474975	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	9450888	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.69	45	1649063	723.26089	ppb	99

Quantitation Report

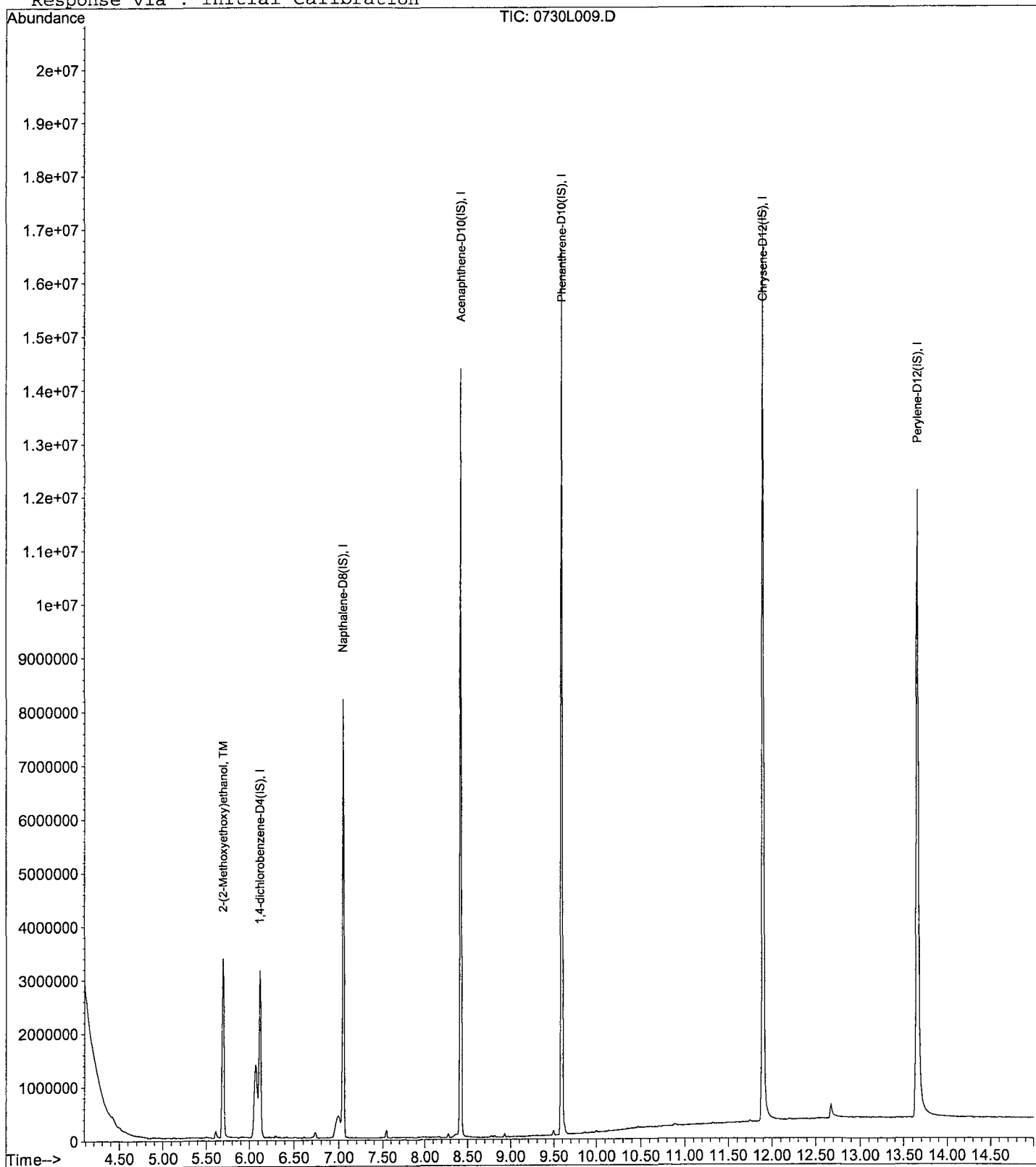
Data File : M:\LINUS\DATA\L190730M\0730L009.D
Acq On : 30 Jul 19 14:51
Sample : 800ug/ml MEE 04/30/19
Misc :

Vial: 9
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:10 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration

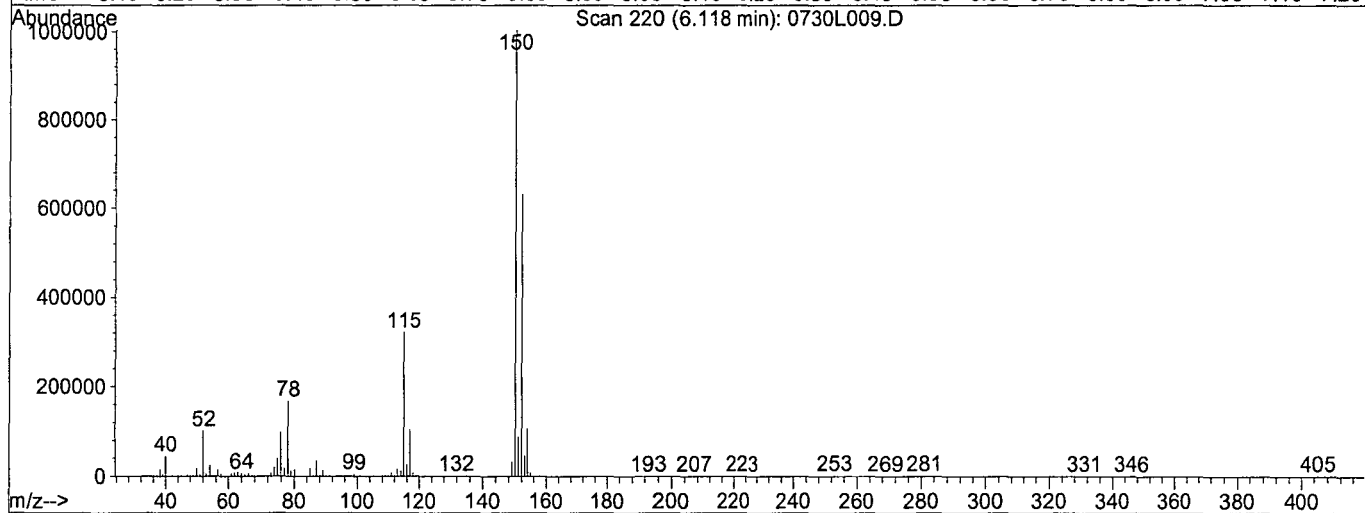
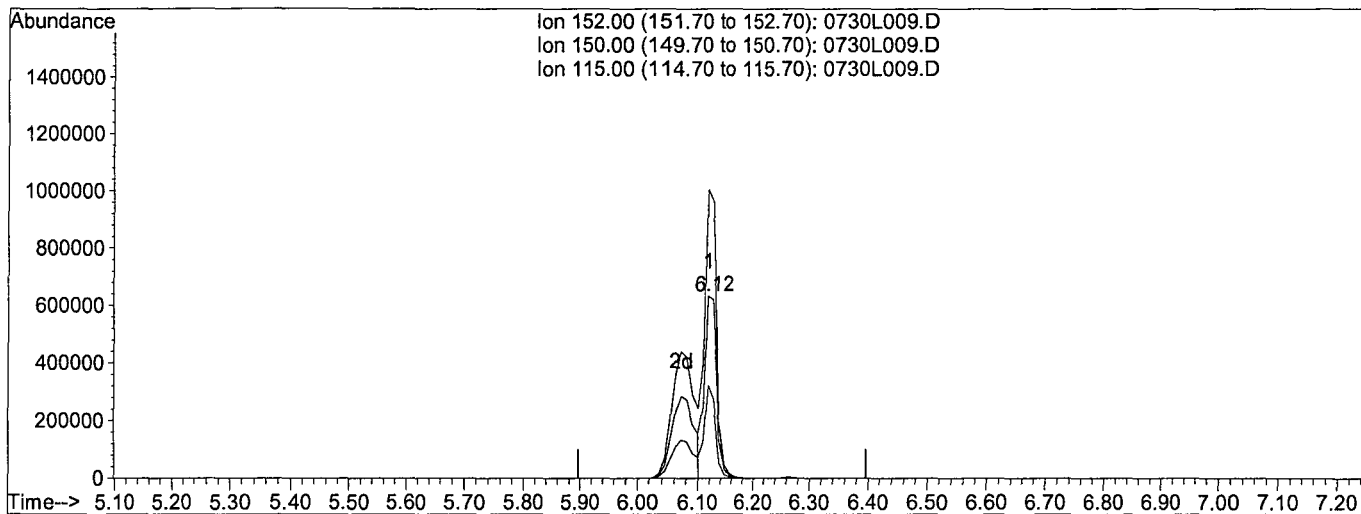


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L009.D
 Acq On : 30 Jul 19 14:51
 Sample : 800ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:10 2019

Vial: 9
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L009.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.12min 40.0000ppb

response 933046

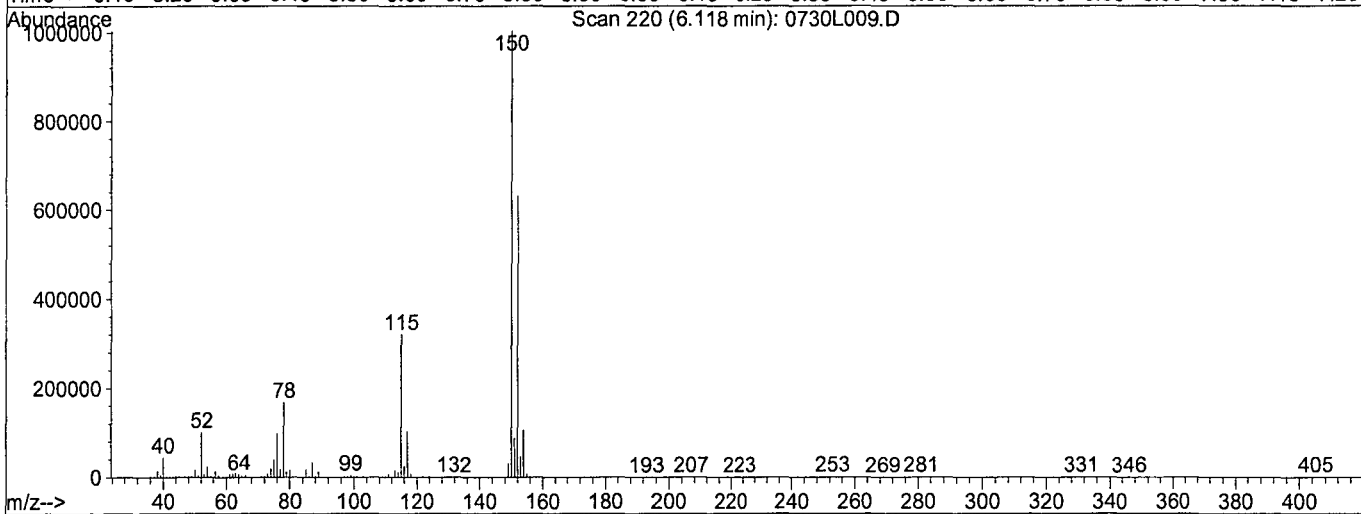
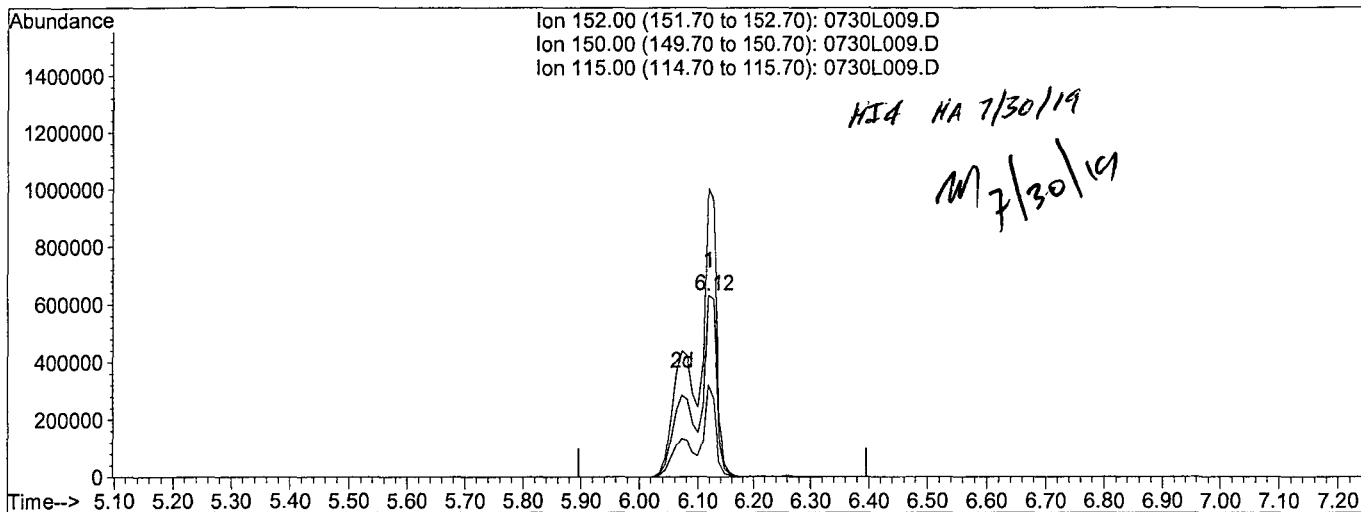
Ion	Exp%	Act%
152.00	100	100
150.00	151.30	158.87
115.00	42.60	50.79
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L009.D
 Acq On : 30 Jul 19 14:51
 Sample : 800ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:10 2019

Vial: 9
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:09:12 2019
 Response via : Multiple Level Calibration



TIC: 0730L009.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.12min 40.0000ppb m

response 1669070

Ion	Exp%	Act%
152.00	100	100
150.00	151.30	158.89
115.00	42.60	50.84
0.00	0.00	0.00

Data File : M:\LINUS\DATA\L190730M\0730L010.D
 Acq On : 30 Jul 19 15:13
 Sample : 1000ug/ml MEE 04/30/19
 Misc :

Vial: 10
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Jul 30 15:42 2019

Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:12:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.13	152	1481485m	40.00000	ppb	-0.02
3) Napthalene-D8 (IS)	7.05	136	5786003	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	4262349	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	8581509	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	9894804	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	9883087	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	5.71	45	1845695	925.02058	ppb	99

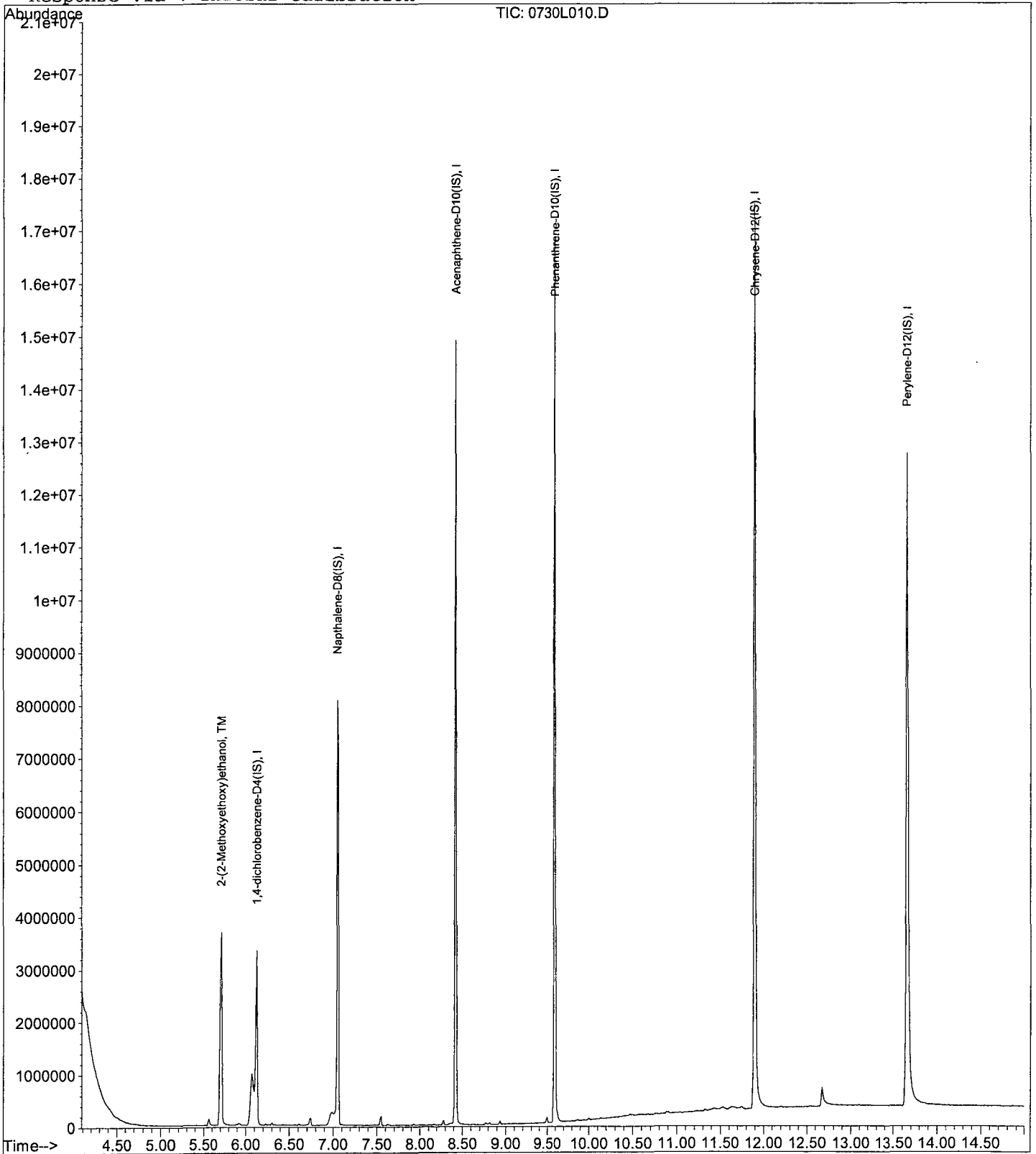
Data File : M:\LINUS\DATA\L190730M\0730L010.D
Acq On : 30 Jul 19 15:13
Sample : 1000ug/ml MEE 04/30/19
Misc :

Vial: 10
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 15:42 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration

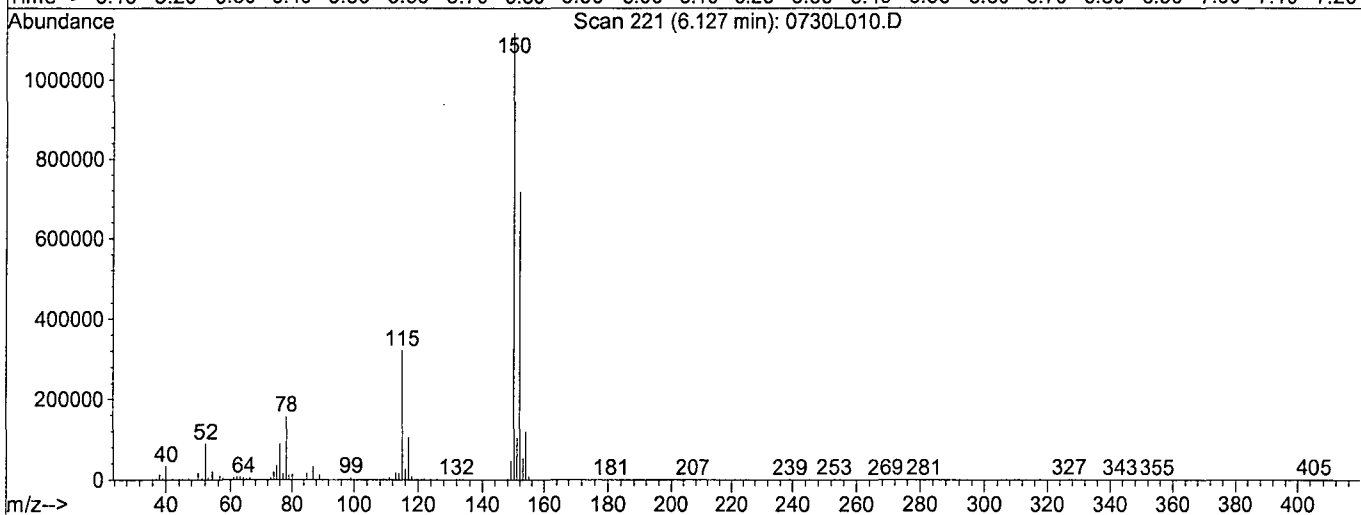
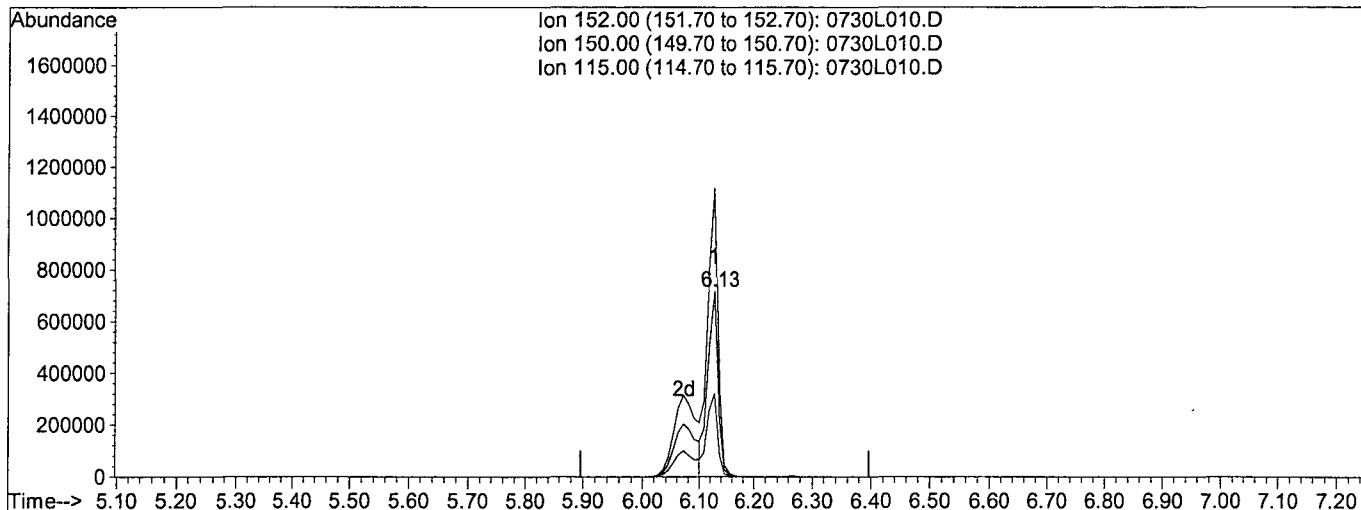


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L010.D
 Acq On : 30 Jul 19 15:13
 Sample : 1000ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:42 2019

Vial: 10
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:12:18 2019
 Response via : Multiple Level Calibration



TIC: 0730L010.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb

response 924804

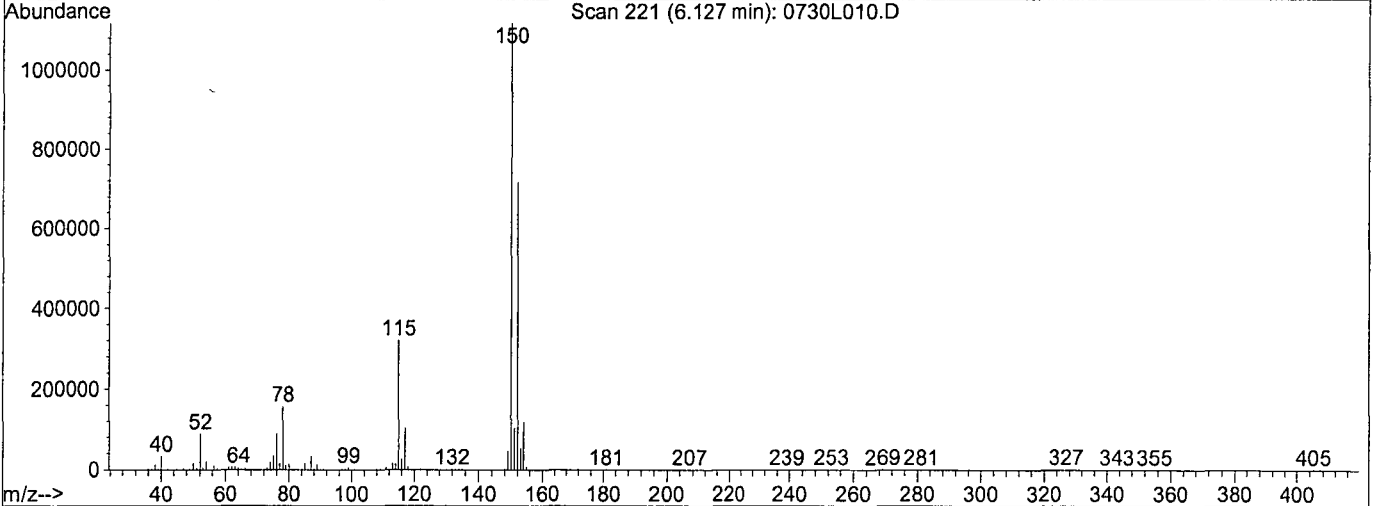
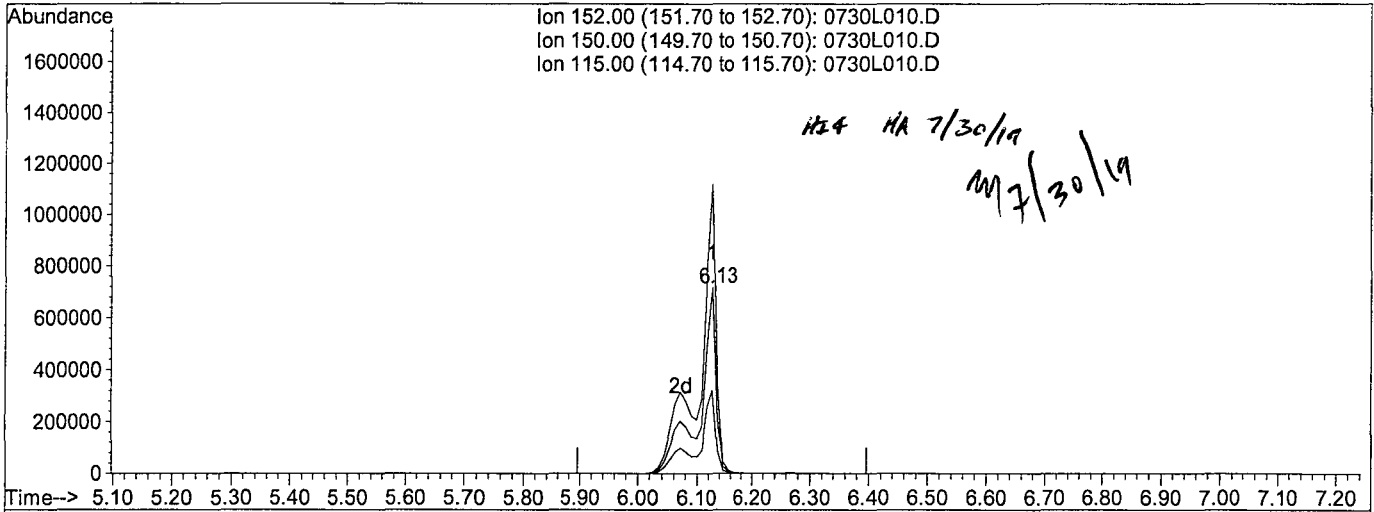
Ion	Exp%	Act%
152.00	100	100
150.00	151.30	156.03
115.00	42.60	44.84
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L010.D
 Acq On : 30 Jul 19 15:13
 Sample : 1000ug/ml MEE 04/30/19
 Misc :
 Quant Time: Jul 30 15:42 2019

Vial: 10
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:12:18 2019
 Response via : Multiple Level Calibration



TIC: 0730L010.D

(1) 1,4-dichlorobenzene-D4(1S) (I)

6.13min 40.0000ppb m

response 1481485

Ion	Exp%	Act%
152.00	100	100
150.00	151.30	156.01
115.00	42.60	44.87
0.00	0.00	0.00

2MEE
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 07/30/19
Instrument: Linus
Initial Cal. Date: 07/30/19
Data File: 0730L011.D

	Compound	MEAN	CCRF	%D	%Drift
1	TM 2-(2-Methoxyethoxy)ethanol	0.0534	0.0617	16	TM
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					

Average

16.0

Data File : M:\LINUS\DATA\L190730M\0730L011.D
 Acq On : 30 Jul 19 15:37
 Sample : SS MEE 04/30/19
 Misc :

Vial: 11
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Jul 30 17:38 2019

Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.13	152	1382961m	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.05	136	4594613	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	3598325	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	7544561	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	8541977	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	9241872	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.68	45	1066714	578.11784	ppb	98

Quantitation Report

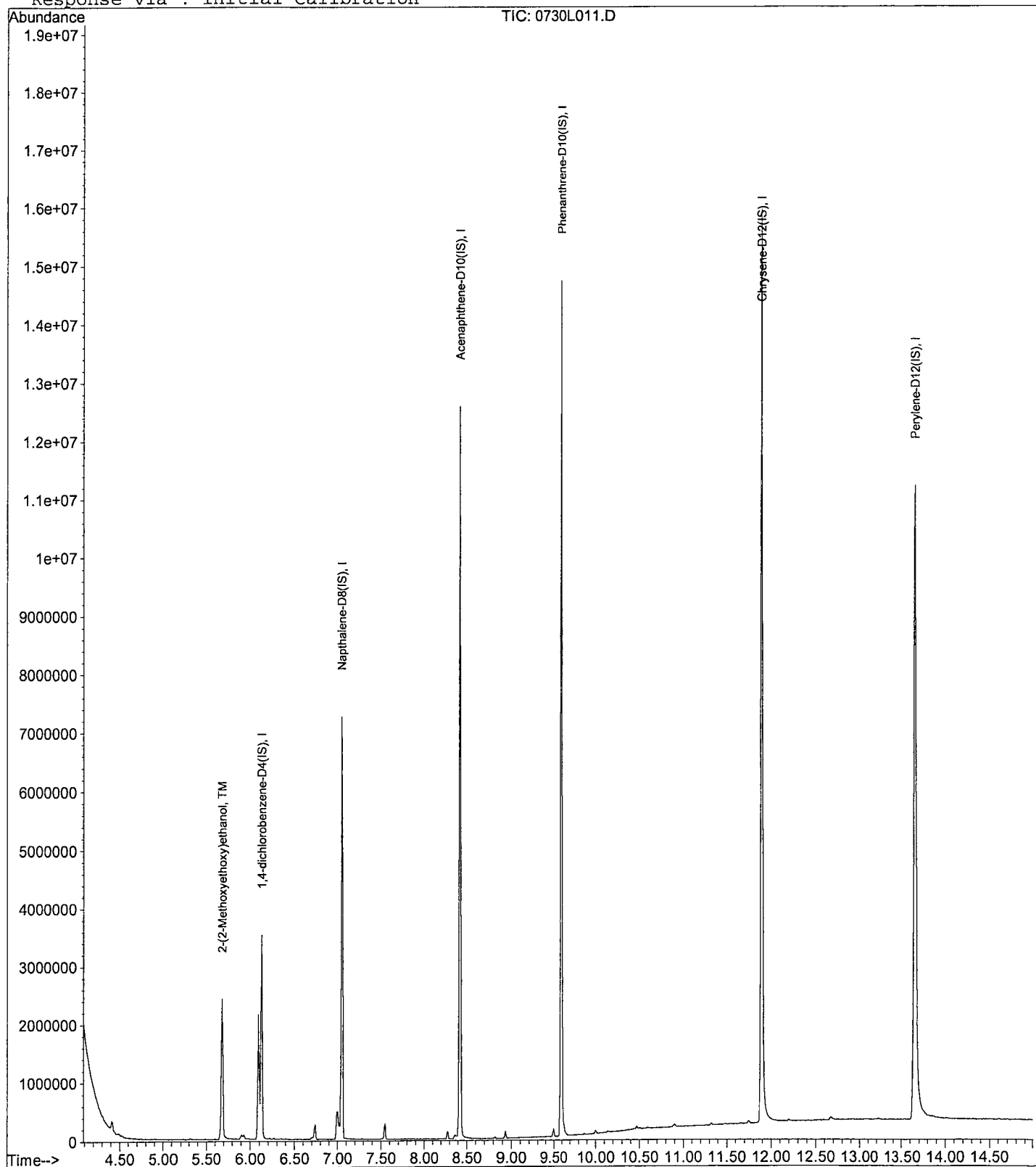
Data File : M:\LINUS\DATA\L190730M\0730L011.D
Acq On : 30 Jul 19 15:37
Sample : SS MEE 04/30/19
Misc :

Vial: 11
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Jul 30 17:38 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration

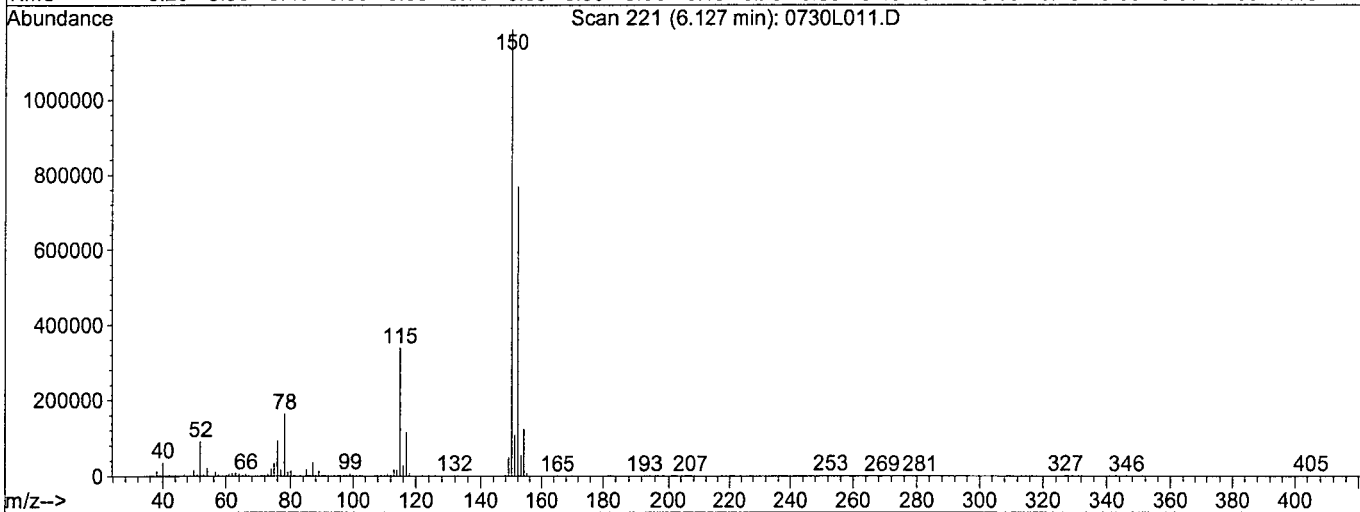
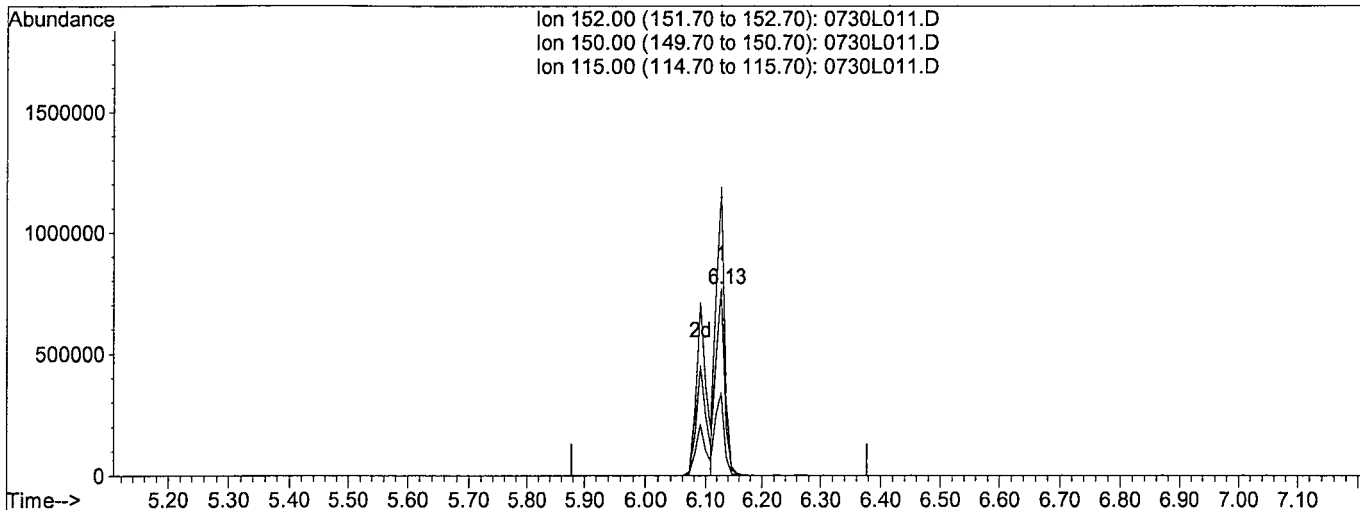


Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L011.D
 Acq On : 30 Jul 19 15:37
 Sample : SS MEE 04/30/19
 Misc :
 Quant Time: Jul 30 17:38 2019

Vial: 11
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Multiple Level Calibration



TIC: 0730L011.D

(1) 1,4-dichlorobenzene-D4(1S) (I)

6.13min 40.0000ppb

response 826966

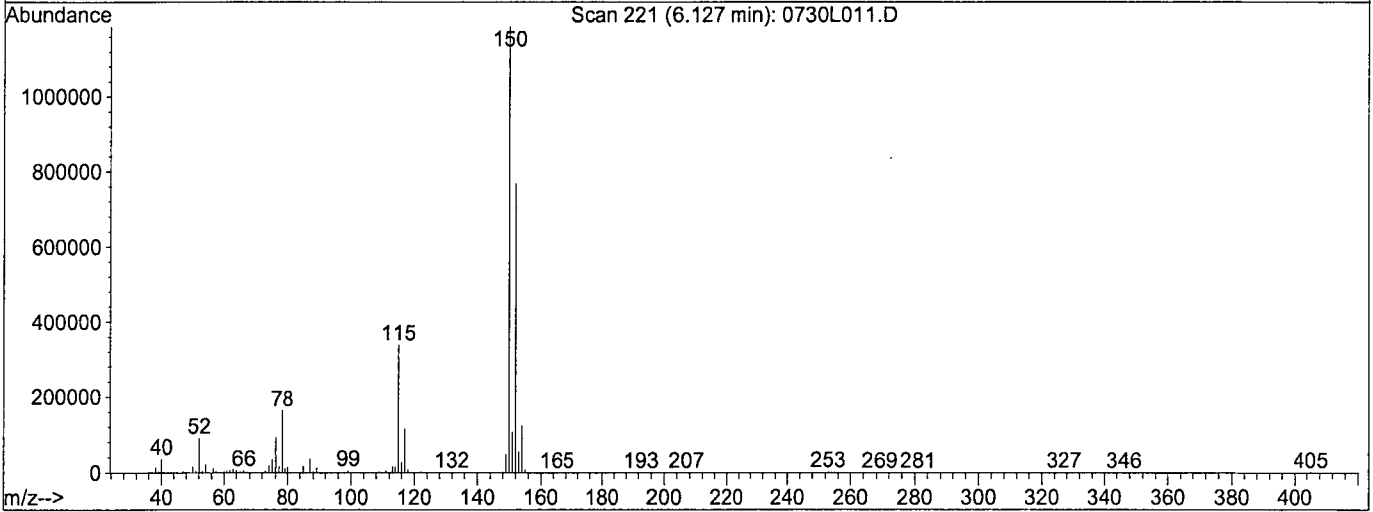
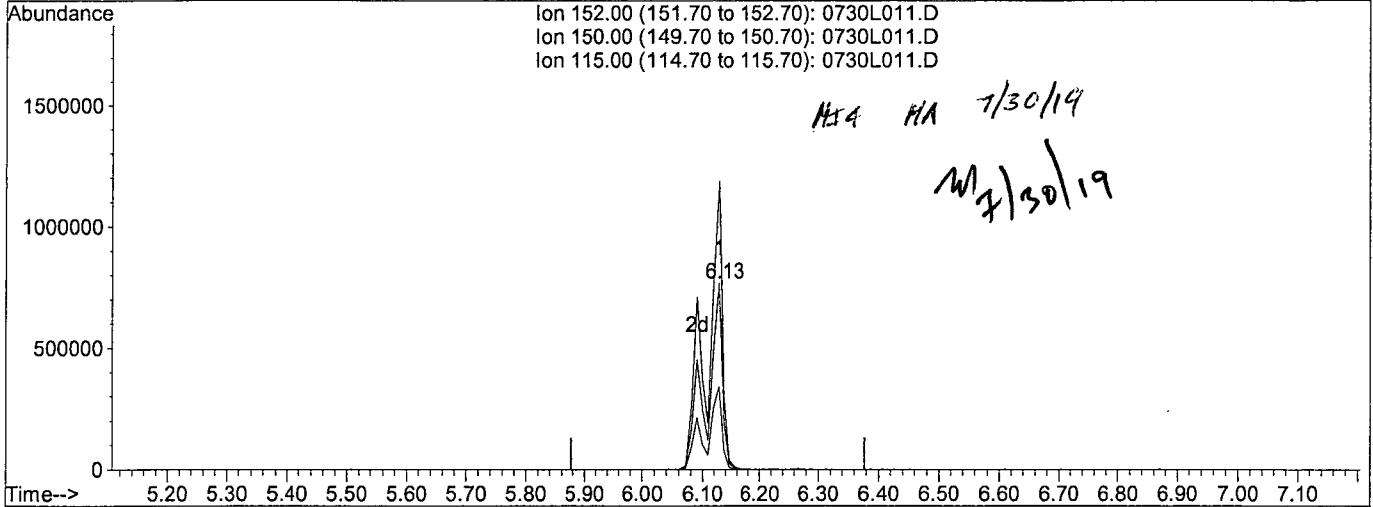
Ion	Exp%	Act%
152.00	100	100
150.00	154.60	154.55
115.00	44.10	44.04
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L011.D
 Acq On : 30 Jul 19 15:37
 Sample : SS MEE 04/30/19
 Misc :
 Quant Time: Jul 30 17:38 2019

Vial: 11
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Multiple Level Calibration



TIC: 0730L011.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

6.13min 40.0000ppb m

response 1382961

Ion	Exp%	Act%
152.00	100	100
150.00	154.60	154.57
115.00	44.10	44.07
0.00	0.00	0.00

2MEE
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 6 Aug 19 15:01
Instrument: Linus
Initial Cal. Date: 7/30/2019
Data File: 0730L042.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I
2	TM	2-(2-Methoxyethoxy)ethanol	0.0534	0.0602	13	TM
3	I	Napthalene-D8(IS)	ISTD			I
4	I	Acenaphthene-D10(IS)	ISTD			I
5	I	Phenanthrene-D10(IS)	ISTD			I
6	I	Chrysene-D12(IS)	ISTD			I
7	I	Perylene-D12(IS)	ISTD			I
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40		Average			13.0	

2MEE
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 6 Aug 19 19:35

Matrix: _____

Instrument: Linus

Initial Cal. Date: 7/30/2019

Data File: 0730L053.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I
2	TM	2-(2-Methoxyethoxy)ethanol	0.0534	0.0666	25	TM
3	I	Napthalene-D8(IS)	ISTD			I
4	I	Acenaphthene-D10(IS)	ISTD			I
5	I	Phenanthrene-D10(IS)	ISTD			I
6	I	Chrysene-D12(IS)	ISTD			I
7	I	Perylene-D12(IS)	ISTD			I
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
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22						
23						
24						
25						
26						
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28						
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30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40		Average			25.0	

Data File : M:\LINUS\DATA\L190730M\0730L053.D Vial: 53
 Acq On : 6 Aug 19 19:35 Operator: MA
 Sample : 500ug/ml MEE 04/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Aug 7 9:13 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.13	152	1891608m	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.05	136	7411538	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	5398229	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	10076981	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.92	240	11820492	40.00000	ppb	0.03
7) Perylene-D12 (IS)	13.70	264	12380720	40.00000	ppb	0.05

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.69	45	1573909	623.62969	ppb	98

Quantitation Report

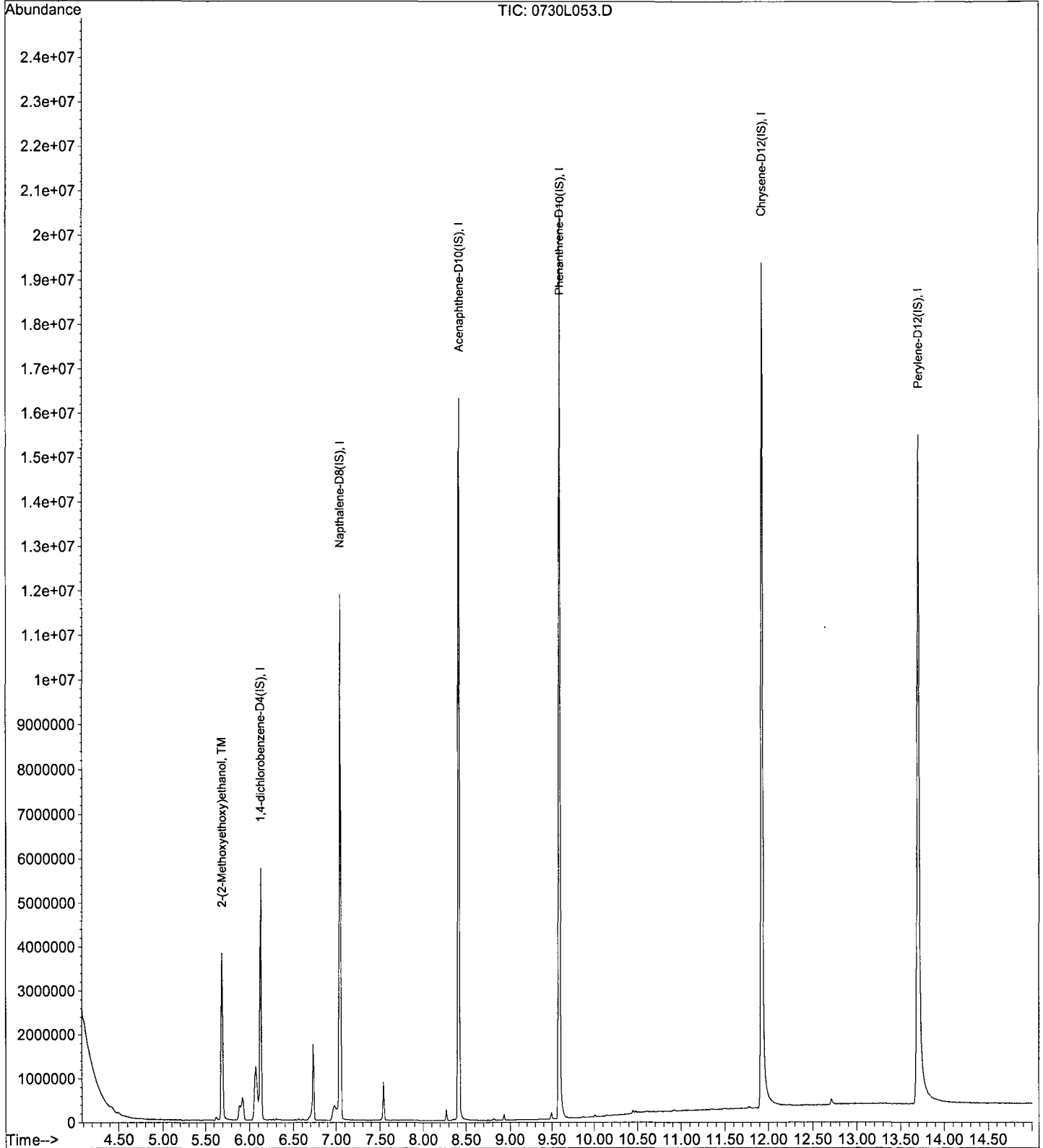
Data File : M:\LINUS\DATA\L190730M\0730L053.D
Acq On : 6 Aug 19 19:35
Sample : 500ug/ml MEE 04/30/19
Misc :

Vial: 53
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Aug 7 9:13 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



ORGANICS
Raw Data

Data File : M:\LINUS\DATA\L190730M\0730L046.D Vial: 46
 Acq On : 6 Aug 19 16:52 Operator: MA
 Sample : AZ95860W17 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Aug 6 17:15 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.14	152	1526010	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.05	136	5605565	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.41	164	3431070	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.58	188	7491236	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.90	240	7033531	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.67	264	8159085	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

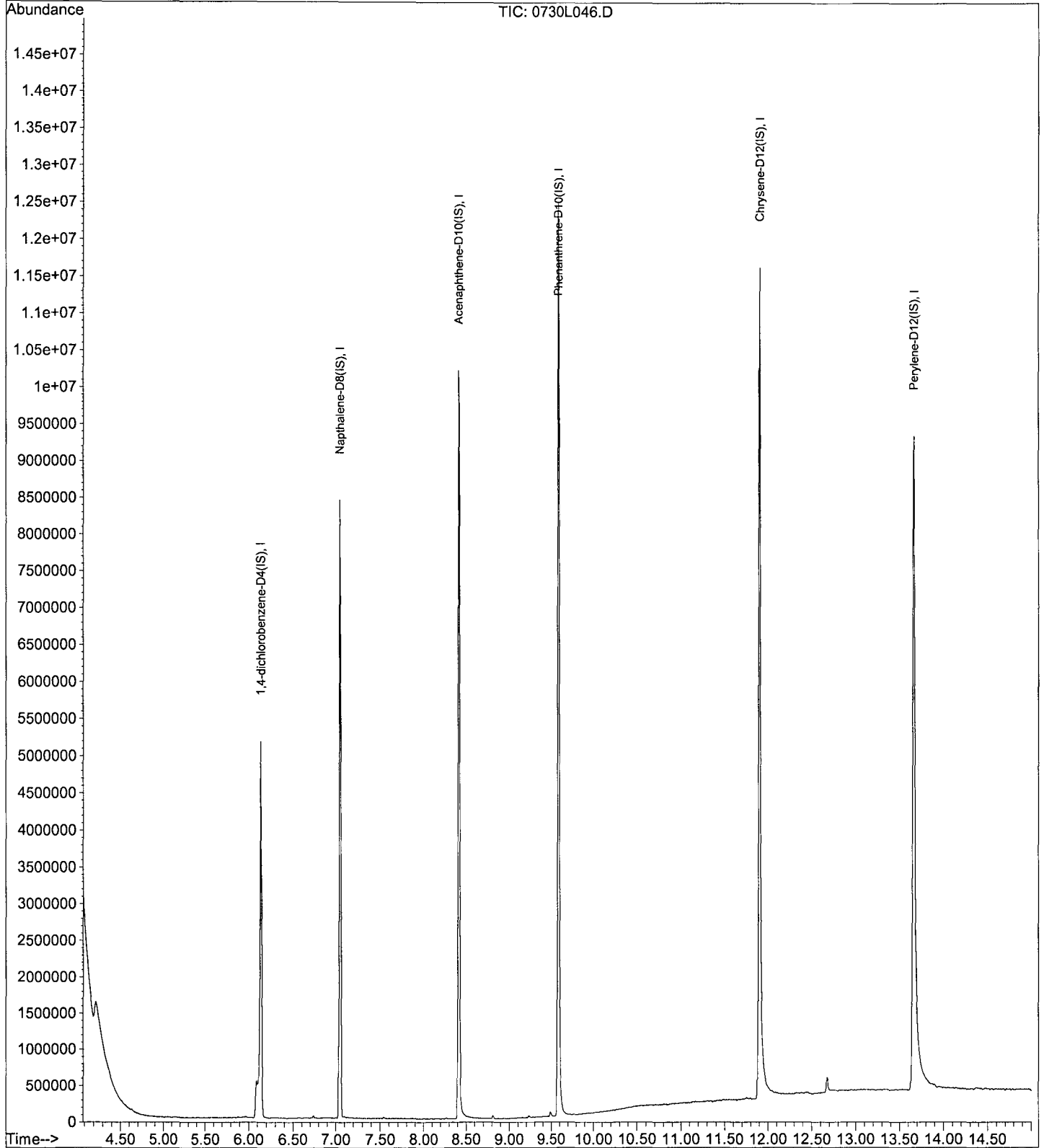
Data File : M:\LINUS\DATA\L190730M\0730L046.D
Acq On : 6 Aug 19 16:52
Sample : AZ95860W17 2/500
Misc :

Vial: 46
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Aug 6 17:15 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L043.D Vial: 43
 Acq On : 6 Aug 19 15:42 Operator: MA
 Sample : 190805A BLK 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Aug 6 16:03 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.14	152	1925988	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.05	136	7179462	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.42	164	4452669	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	9681201	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.95	240	10463457	40.00000	ppb	0.06
7) Perylene-D12 (IS)	13.74	264	11742486	40.00000	ppb	0.08

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

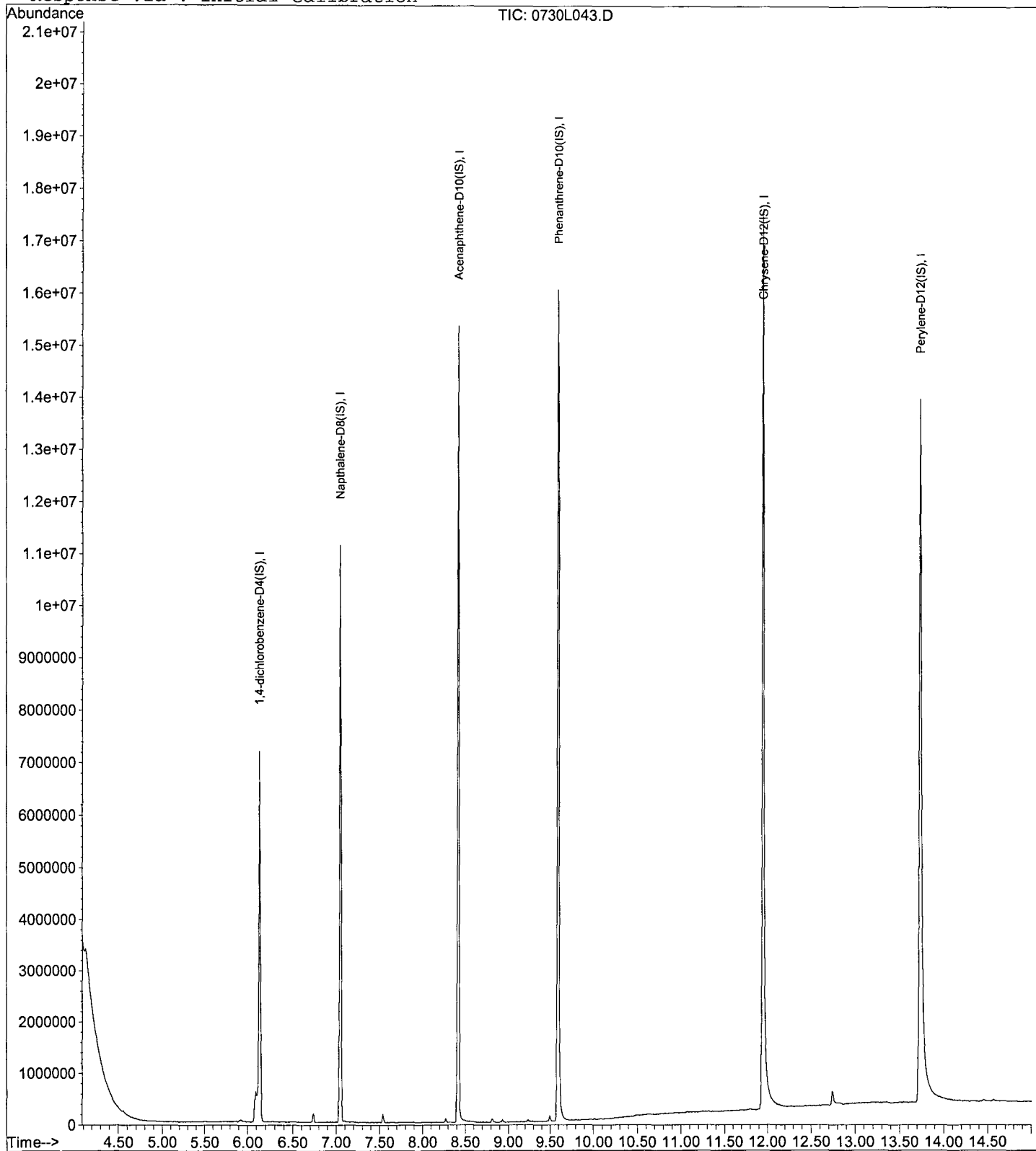
Data File : M:\LINUS\DATA\L190730M\0730L043.D
Acq On : 6 Aug 19 15:42
Sample : 190805A BLK 2/500
Misc :

Vial: 43
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Aug 6 16:03 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L044.D
 Acq On : 6 Aug 19 16:05
 Sample : 190805A LCS-1 2/500
 Misc :

Vial: 44
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Aug 6 16:24 2019

Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.12	152	1863633m	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.05	136	7185959	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.41	164	4365451	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.59	188	9559902	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.90	240	10256347	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.67	264	11544138	40.00000	ppb	0.02

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	5.69	45	143087	57.54639	ppb	98

Quantitation Report

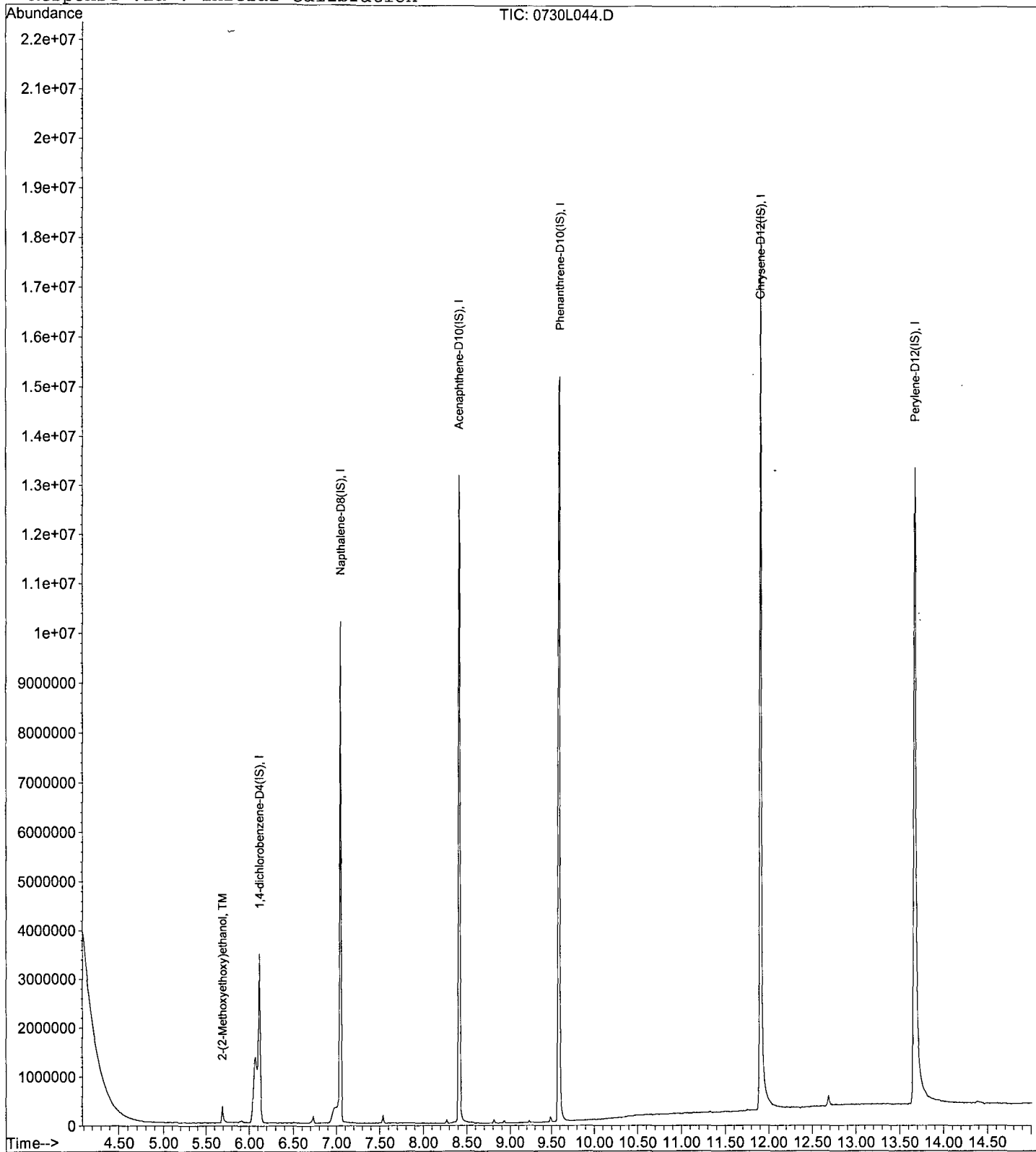
Data File : M:\LINUS\DATA\L190730M\0730L044.D
Acq On : 6 Aug 19 16:05
Sample : 190805A LCS-1 2/500
Misc :

Vial: 44
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Aug 6 16:24 2019

Quant Results File: LMEE0430.RES

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L045.D Vial: 45
 Acq On : 6 Aug 19 16:28 Operator: MA
 Sample : 190805A LCSD-1 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Aug 6 17:02 2019 Quant Results File: LMEE0430.RES

Quant Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Jul 30 15:59:18 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	6.14	152	1841759	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	7.05	136	7141979	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	8.41	164	4500672	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	9.58	188	9772903	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	11.89	240	10448514	40.00000	ppb	0.00
7) Perylene-D12 (IS)	13.66	264	11906501	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	5.75	45	177984	72.43133	ppb	98

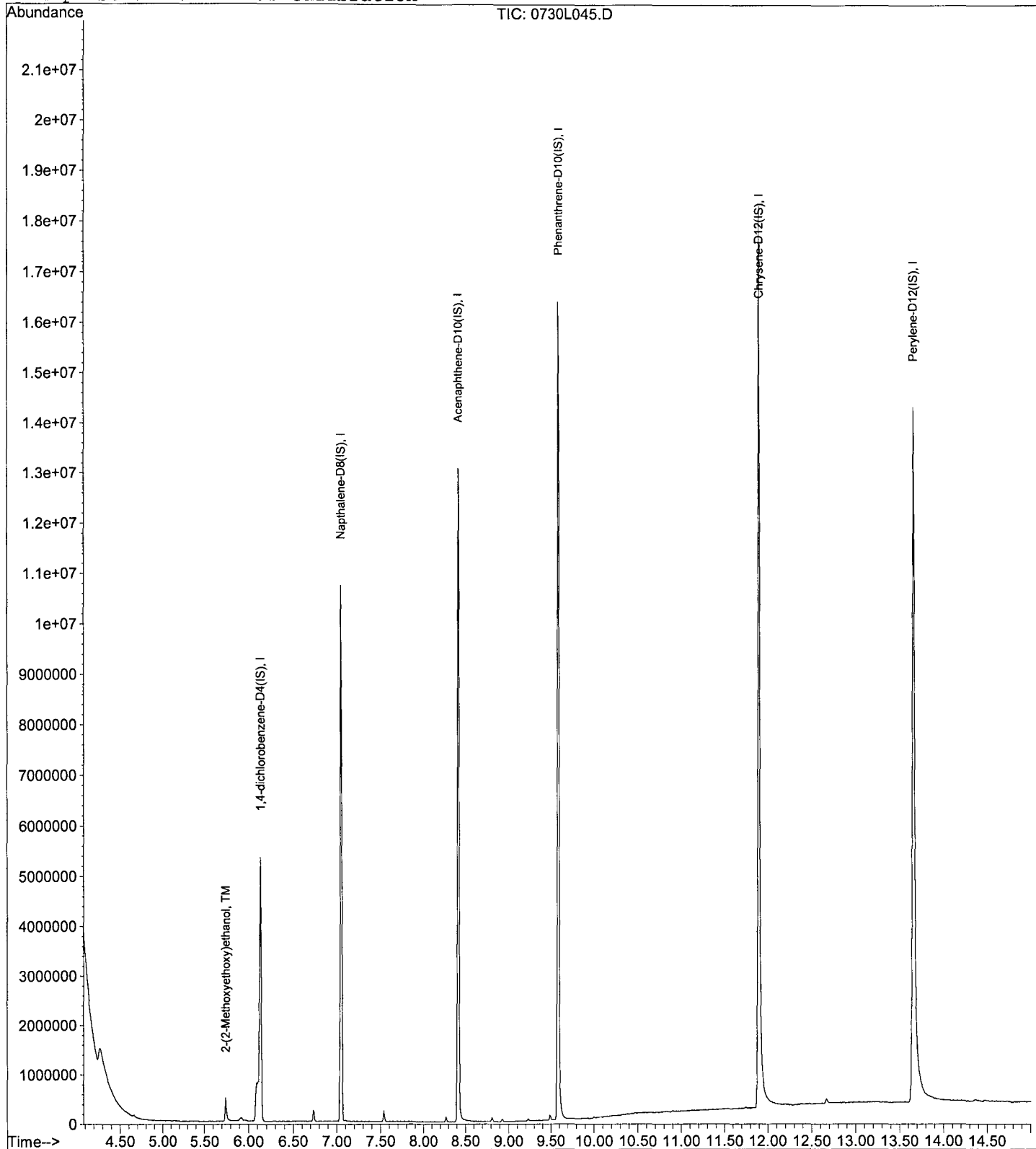
Data File : M:\LINUS\DATA\L190730M\0730L045.D
Acq On : 6 Aug 19 16:28
Sample : 190805A LCSD-1 2/500
Misc :

Vial: 45
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Aug 6 17:02 2019

Quant Results File: LMEE0430.RES

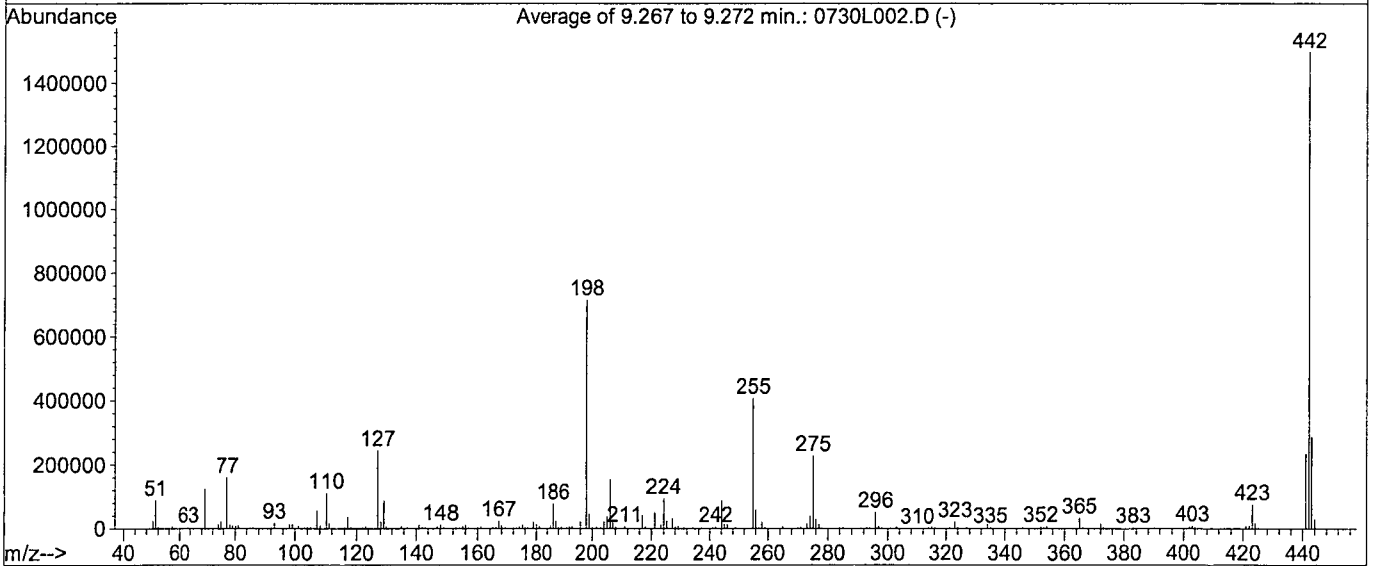
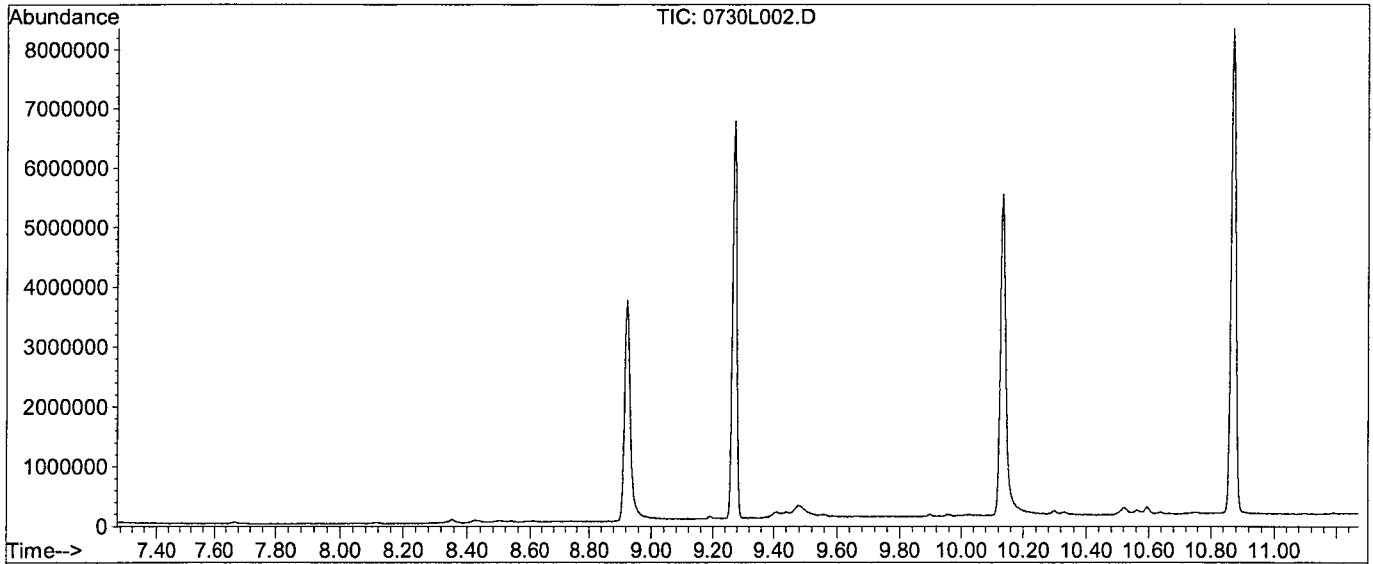
Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jul 30 15:59:18 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L190730M\0730L002.D
 Acq On : 30 Jul 19 9:38
 Sample : SV TUNE 7/11/19
 Misc :

Vial: 13
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Method : M:\LINUS\DATA\L190730M\LMEE0430.M (RTE Integrator)
 Title : EPA 8270C



AutoFind: Scans 1278, 1279, 1280; Background Corrected with Scan 1264

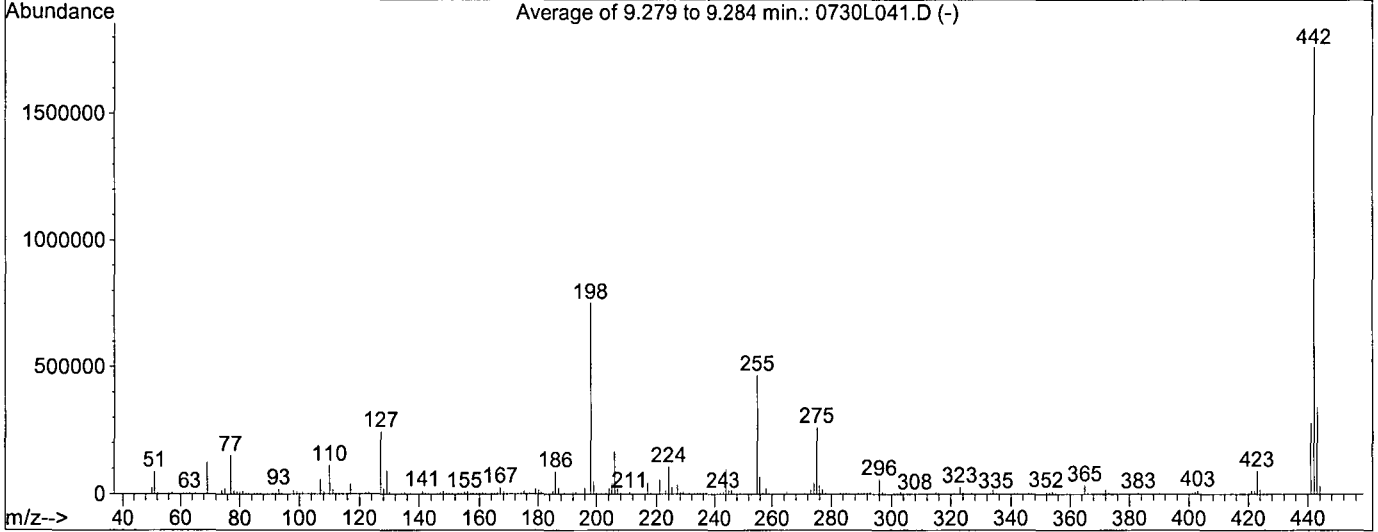
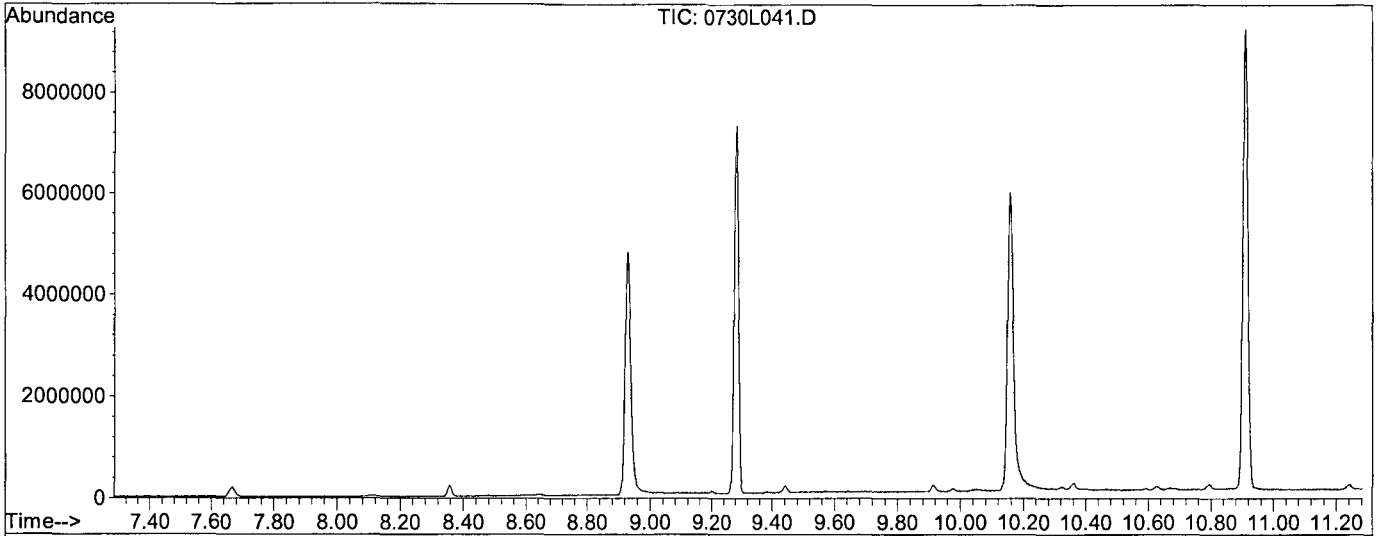
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	12.4	88440	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.7	913	PASS
127	198	10	80	34.1	244050	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	715371	PASS
199	198	5	9	6.5	46251	PASS
275	198	10	60	31.8	227456	PASS
365	198	1	100	4.6	32808	PASS
441	442	0.01	24	15.6	234091	PASS
442	198	50	500	209.5	1498965	PASS
443	442	15	24	19.1	286635	PASS

DFTPP

Data File : M:\LINUS\DATA\L190730M\0730L041.D
 Acq On : 6 Aug 19 10:30
 Sample : SV Tune 07/11/19
 Misc :

Vial: 2
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Method : M:\LINUS\DATA\L190730M\DFTPP2.M (Chemstation Integrator)
 Title :



AutoFind: Scans 1283, 1284, 1285; Background Corrected with Scan 1271

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	11.5	86347	PASS
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	121965	PASS
70	69	0.00	2	0.6	699	PASS
127	198	10	80	32.5	243797	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	750943	PASS
199	198	5	9	6.4	48381	PASS
275	198	10	60	34.6	260032	PASS
365	198	1	100	4.3	32627	PASS
441	442	0.01	24	15.8	278379	PASS
442	198	50	500	235.0	1764864	PASS
443	442	15	24	19.3	340629	PASS

Data File Name: 0730L002.D
Data File Path: M:\LINUS\DATA\L190730M\
Operator: MA
Date Acquired: 30 Jul 2019 09:38
Method File: DFTPP2.M
Sample Name: SV TUNE 7/11/19
Vial Number: 13
Instrument Name: Linus

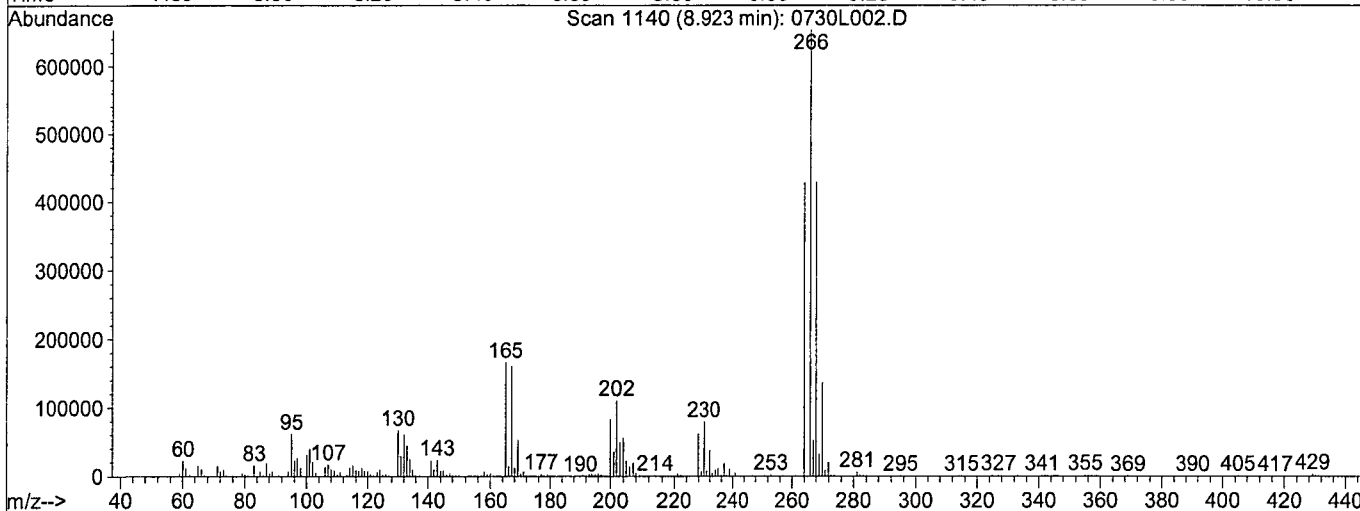
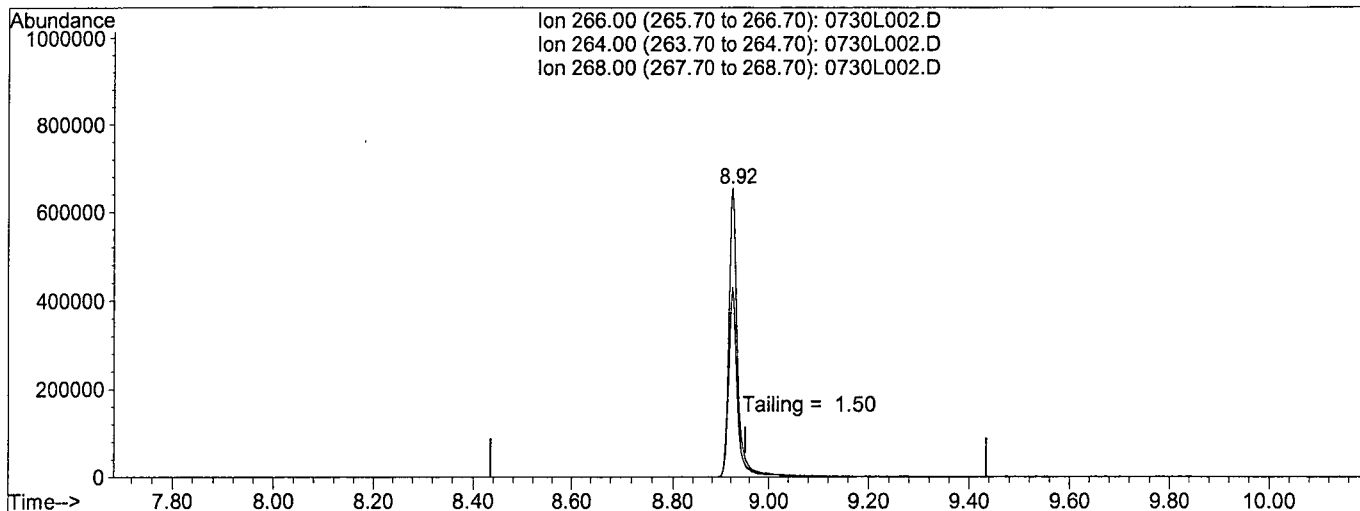
#	Name	Ret Time	Target Response
1)	DDT	10.91	89435000
2)	DDD	10.60	1591060
3)	DDE	10.64	0

Breakdown 1.75

Data File : M:\LINUS\DATA\L190730M\0730L002.D
 Acq On : 30 Jul 19 9:38
 Sample : SV TUNE 7/11/19
 Misc :
 Quant Time: Jul 30 16:36 2019

Vial: 13
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 26 10:43:15 2019
 Response via : Single Level Calibration



TIC: 0730L002.D

(5) Pentachlorophenol

8.92min 0.0000

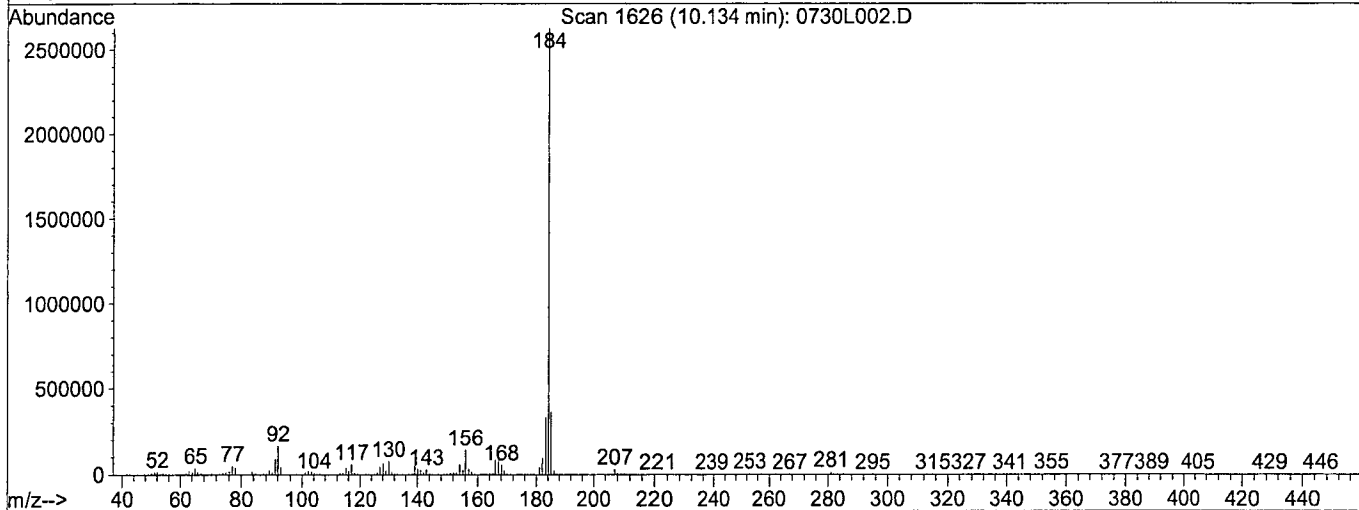
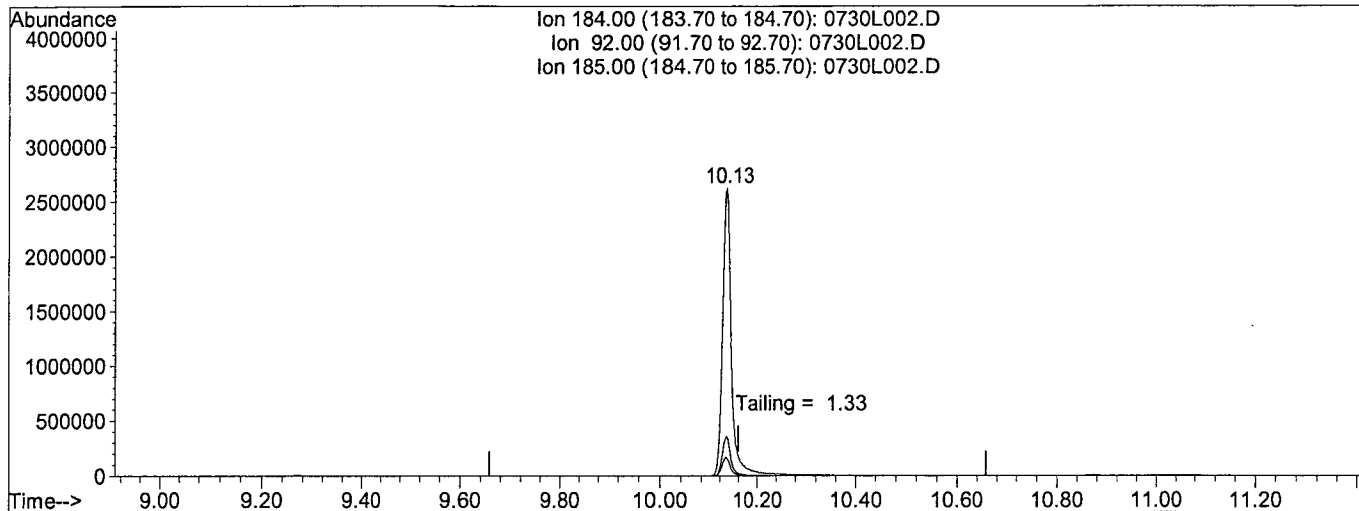
response 8415831

Ion	Exp%	Act%
266.00	100	100
264.00	68.30	65.66
268.00	65.70	64.15
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L190730M\0730L002.D Vial: 13
 Acq On : 30 Jul 19 9:38 Operator: MA
 Sample : SV TUNE 7/11/19 Inst : Linus
 Misc : Multiplr: 1.00
 Quant Time: Jul 30 16:36 2019 Quant Results File: temp.res

Method : M:\LINUS\DATA\L190730M\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 26 10:43:15 2019
 Response via : Single Level Calibration



TIC: 0730L002.D

(6) Benzidine

10.13min 0.0000

response 33452488

Ion	Exp%	Act%
184.00	100	100
92.00	7.10	6.06
185.00	13.60	13.12
0.00	0.00	0.00

Name of Final Standard Diethylene Glycol
 Prep Date 01/31/19
 Exp Date 01/31/20

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc.(range)
Diethylene glycol methyl ether	AccuStandard	S-72273	2000 ug/mL	218101558-39888 39889	01/31/20	2.0 mL	4 mL	Methanol #042317C	1000 ug/mL

Given to Extraction to do MEE M STD Stock (used for ICAL) Final concentration 2000ug/L

Name of Final Standard 2MEE Second Source Stock
 Prep Date 08/03/18
 Exp Date 08/03/19

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Methoxyethanol-Neat	Chem Service	N-12404-1G	Neat 99.5%	7079100 - 39417	08/03/19	0.1035g	10 mL	MC #56258	10320 ug/mL

Given to Extraction to do MEE SS (used for ICAL SS)

0.097ml were spiked in 500ml of water and extracted on 04/29/19 . Final concentration is 2000ug/L

Organic Extraction Worksheet

Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	190429A	Extraction Method	MWE2MEE	Units	mL
Spiked ID 1	Diethylene Glycol 1-31-19 EXP 1-31-20	Surrogate ID 1					
Spiked ID 2	2MEE SS 10320ug/mL 8-3-18 exp 8-3-19	Surrogate ID 2					
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:	YES				
Spiked ID 7		Ext. Start Time:	04/29/19 10:50				
Spiked ID 8		Ext. End Time:	04/29/19 16:40				

M STD AND SS PREPARATION
HA 5/1/19

GC Requires Extract By:	04/30/19 0:00
pH1	Water Bath Temp Criteria
pH2	
pH3	

Spiked By: KY

Date 04/29/19

Witnessed By: DL

Date 04/29/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1 190429A Blk				NA	NA	500	2	7	04/29/19 10:50	
2 190429A LCS-1		0.040	1	NA	NA	500	2	7	04/29/19 10:50	
3 190429A LCSD-1		0.040	1	NA	NA	500	2	7	04/29/19 10:50	
4 AZ89958 MS-1	AZ89958W23	0.040	1	NA	NA	510	2	7	04/29/19 10:50	88687
5 AZ89958 MSD-1	AZ89958W22	0.040	1	NA	NA	510	2	7	04/29/19 10:50	88687
6 AZ89958	AZ89958W24			NA	NA	500	2	7	04/29/19 10:50	88687
7 AZ89959	AZ89959W06			NA	NA	480	2	7	04/29/19 10:50	88687
8 AZ89961	AZ89961W22			NA	NA	510	2	7	04/29/19 10:50	88687
9 AZ90051 MS-1	AZ90051W21	0.040	1	NA	NA	500	2	7	04/29/19 10:50	88701
10 AZ90051 MSD-1	AZ90051W25	0.040	1	NA	NA	500	2	7	04/29/19 10:50	88701
11 AZ90051	AZ90051W22			NA	NA	500	2	7	04/29/19 10:50	88701
12 AZ90052	AZ90052W05			NA	NA	505	2	7	04/29/19 10:50	88701
13 AZ90054	AZ90054W16			NA	NA	510	2	7	04/29/19 10:50	88701
14 AZ90056	AZ90056W16			NA	NA	510	2	7	04/29/19 10:50	88701
15 AZ90058	AZ90058W17			NA	NA	500	2	7	04/29/19 10:50	88701
16 AZ90060	AZ90060W17			NA	NA	505	2	7	04/29/19 10:50	88701

Solvent and Lot#	
ENVI-Carb Plus 400MG/1ML	
Reverible Tube Lot:	11225702
PH Strip	HC 863463
Di Water	4-29-19
Dichloromethane	58240
Methanol	58179

Extraction COC Transfer	
Extraction lab employee Initials	KY
GC analyst's initials	
Date	
Time	
Refrigerator	

	Technician's Initials
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	04/29/19 2:46:49 PM

Reviewed By:

Date

Organic Extraction Worksheet

Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	190429A	Extraction Method	MWE2MEE	Units	mL
Spiked ID 1	Diethylene Glycol 1-31-19 EXP 1-31-20		Surrogate ID 1				
Spiked ID 2	2MEE SS 10320ug/mL 8-3-18 exp 8-3-19		Surrogate ID 2				
Spiked ID 3			Surrogate ID 3				
Spiked ID 4			Surrogate ID 4				
Spiked ID 5			Surrogate ID 5				
Spiked ID 6			Sufficient Vol for Matrix QC: YES				
Spiked ID 7			Ext. Start Time:	04/29/19 10:50			
Spiked ID 8			Ext. End Time:	04/29/19 16:40			
			GC Requires Extract By:	04/30/19 0:00			
			pH1			Water Bath Temp Criteria	
			pH2				
			pH3				

Spiked By: KY

Date 04/29/19

Witnessed By: DL

Date 04/29/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
17	AZ90100	AZ90100W17		NA	NA	510	2	7	04/29/19 10:50	88714
					equip					
18	AZ90102	AZ90102W16		NA	NA	395	2	7	04/29/19 10:50	88714
					equip					
19	AZ90103	AZ90103W04		NA	NA	250	2	7	04/29/19 10:50	88714
					equip					
20	AZ90105	AZ90105W16		NA	NA	500	2	7	04/29/19 10:50	88714
					equip					
21	AZ90107	AZ90107W16		NA	NA	510	2	7	04/29/19 10:50	88714
					equip					
22	AZ90109	AZ90109W17		NA	NA	505	2	7	04/29/19 10:50	88714
					equip					
23	AZ90213	AZ90213W15		NA	NA	505	2	7	04/29/19 10:50	88736
					equip					
24	AZ90215	AZ90215W16		NA	NA	500	2	7	04/29/19 10:50	88736
					equip					
25	M STD		1	1	NA	500	2	7	04/29/19 10:50	
					equip					
26	SS		0.097	2	NA	500	2	7	04/29/19 10:50	
					equip					

Solvent and Lot#	
ENVI-Carb Plus 400MG/1ML	
Reverible Tube Lot:	11225702
PH Strip	HC 863463
Di Water	4-29-19
Dichloromethane	58240
Methanol	58179

Extraction COC Transfer	
Extraction lab employee Initials	KY
GC analyst's initials	
Date	
Time	
Refrigerator	

	Technician's Initials
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	04/29/19 2:46:49 PM

Reviewed By:

Date
Page 440 of 745
Ext_ID 62632

Name of Final Standard MEE Curve
 Prep Date 04/30/19
 Exp Date 10/30/19

Prep'd By (Initials) SS

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	5 uL	200uL	Methanol: 195uL Lot# 208858	50 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	4 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	5 uL	100uL	Methanol: 95uL Lot# 208858	100 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	10 uL	100uL	Methanol: 90uL Lot# 208858	200 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	20 uL	100uL	Methanol: 80 uL Lot# 208858	400 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	50 uL	200 uL	Methanol: 150 uL	500 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	4 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	30 uL	100uL	Methanol: 70 uL Lot# 208858	600 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	40 uL	100uL	Methanol: 60 uL Lot# 208858	800 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	50 uL	100uL	Methanol: 50uL Lot# 208858	1000ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			

Name of Final Standard MEE Second Source
 Prep Date 04/30/19
 Exp Date 08/03/19

Prep'd By (Initials) SS

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
MEE SS	APPL		2000 ug/mL	04/29/19	08/03/19	50 uL	200uL	Methanol: 150uL Lot# 208858	500 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	4 uL			

Organic Extraction Worksheet

Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	190805A	Extraction Method	MWE2MEE	Units	mL
Spiked ID 1	Diethylene Glycol 1-31-19 EXP 1-31-20		Surrogate ID 1				
Spiked ID 2			Surrogate ID 2				
Spiked ID 3			Surrogate ID 3				
Spiked ID 4			Surrogate ID 4				
Spiked ID 5			Surrogate ID 5				
Spiked ID 6			Sufficient Vol for Matrix QC:		yes		
Spiked ID 7			Ext. Start Time:		08/05/19 11:00		
Spiked ID 8			Ext. End Time:		08/06/19 8:15		
			GC Requires Extract By:		08/06/19 0:00		
			pH1			Water Bath Temp 1 °C	
			pH2			Water Bath Temp 2 °C	
			pH3			Water Bath Temp 3 °C	

Spiked By: DL

Date 08/05/19

Witnessed By: CFM

Date 08/05/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1 190805A Bik				NA	NA	500	2	7	08/05/19 11:00	
2 190805A LCS-1		0.040	1	NA	NA	500	2	7	08/05/19 11:00	
3 190805A LCSD-1		0.040	1	NA	NA	500	2	7	08/05/19 11:00	
4 AZ95860	AZ95860W17			NA	NA	500	2	7	08/05/19 11:00	89674
5 AZ95987 MS-1	AZ95987W24	0.040	1	NA	NA	500	2	7	08/05/19 11:00	
6 AZ95987 MSD-1	AZ95987W25	0.040	1	NA	NA	500	2	7	08/05/19 11:00	
7 AZ95987	AZ95987W34			NA	NA	500	2	7	08/05/19 11:00	89682
8 AZ95988	AZ95988W08			NA	NA	500	2	7	08/05/19 11:00	89682
9 AZ96149	AZ96149W17			NA	NA	500	2	7	08/05/19 12:35	89702
10 AZ96152	AZ96152W10			NA	NA	500	2	7	08/05/19 12:35	89702

Solvent and Lot#	
ENVI-Carb Plus 400MG/1ML *	
Reverible Tube Lot:	11225702
PH Strip	HC863463
Di Water	8/5/19
Dichloromethane	58240
Methanol	59129

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	HA
Date	8/6/19
Time	16:00
Refrigerator	6C-6

	Technician's Initials
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	08/12/19 2:26:52 PM

Reviewed By:

Date

Injection Log

Directory: M:\LINUS\DATA\L190730M\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
13	0730L002.D	1	SV TUNE 7/11/19		30 Jul 19 9:38
3	0730L003.D	1	500ug/ml MEE 04/30/19		30 Jul 19 11:54
4	0730L004.D	1	50ug/ml MEE 04/30/19		30 Jul 19 12:18
5	0730L005.D	1	100ug/ml MEE 04/30/19		30 Jul 19 13:17
6	0730L006.D	1	200ug/ml MEE 04/30/19		30 Jul 19 13:41
7	0730L007.D	1	400ug/ml MEE 04/30/19		30 Jul 19 14:04
8	0730L008.D	1	600ug/ml MEE 04/30/19		30 Jul 19 14:27
9	0730L009.D	1	800ug/ml MEE 04/30/19		30 Jul 19 14:51
10	0730L010.D	1	1000ug/ml MEE 04/30/19		30 Jul 19 15:13
11	0730L011.D	1	SS MEE 04/30/19		30 Jul 19 15:37
2	0730L041.D	1	SV Tune 07/11/19		6 Aug 19 10:30
42	0730L042.D	1	500ug/ml MEE 04/30/19		6 Aug 19 15:01
43	0730L043.D	1	190805A BLK 2/500		6 Aug 19 15:42
44	0730L044.D	1	190805A LCS-1 2/500		6 Aug 19 16:05
45	0730L045.D	1	190805A LCSD-1 2/500		6 Aug 19 16:28
46	0730L046.D	1	AZ95860W17 2/500		6 Aug 19 16:52
53	0730L053.D	1	500ug/ml MEE 04/30/19		6 Aug 19 19:35

**ORGANICS
Calibration Data**

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 08/02/19
Instrument: Thor

Initials: DP

0802T03.D 0802T04.D 0802T05.D 0802T07.D 0802T08.D 0802T09.D 0802T10.D 0802T11.D

	Compound	1	2	3	5	6	7	8	9			Avg	%RSD	Type	r^2	Q	MRF
1	I	Fluorobenzene (IS)															
2	TM	Chlorotrifluoroethene		0.1318	0.1100	0.1030	0.1293	0.1241	0.1239	0.1187		0.12	8.6	TM			
3	TML	Dichlorodifluoromethane		0.0829	0.1438	0.0731	0.0843	0.0757	0.0804	0.0790		0.09	28	TML	1.000		
4	TM	Freon 114		0.2274	0.1706	0.1939	0.2059	0.1822	0.1799	0.1781		0.19	10	TM			
5	TM**L	Chloromethane		0.8100	0.5721	0.4695	0.4343	0.3899	0.3807	0.3671		0.49	32	TM**L	0.998		
6	TM*	Vinyl chloride		0.2866	0.2096	0.2508	0.2555	0.2293	0.2325	0.2295		0.24	10	TM*			
7	TM	2-Chloro-1,1,1-trifluoroethane		3.225	2.480	2.180	2.794	2.737	2.706	2.572		2.7	12	TM			
8	TML	Bromomethane		0.2636	0.1681	0.1012	0.0939	0.0787				0.14	54	TML	0.994		
9	TML	Chloroethane		0.2578	0.1520	0.1596	0.1488	0.1284				0.17	30	TML	0.993		
10	TM	Dichlorofluoromethane		0.4149	0.3333	0.4065	0.3946	0.3572	0.3440	0.3447		0.37	9.1	TM			
11	TM	Trichlorofluoromethane		0.3590	0.2934	0.3825	0.3687	0.3490	0.3439	0.3467		0.35	8.1	TM			
12	TM	Diethyl ether												TM			
13	TM	Acrolein		0.0362	0.0281	0.0327	0.0332	0.0331	0.0327	0.0325		0.03	7.3	TM			
14	TML	Acetone		0.4178	0.2642	0.1200	0.1054	0.0823	0.0760	0.0735		0.16	80	TML	1.000		
15	TM	Freon-113		0.1311	0.0982	0.1109	0.1156	0.1015	0.1072	0.1025		0.11	10	TM			
16	TM*	1,1-DCE		0.3423	0.2672	0.3176	0.3213	0.2932	0.2914	0.2922		0.30	8.2	TM*			
17	TML	2-Propanol		0.0271	0.0171	0.0150	0.0163	0.0155	0.0178	0.0160		0.02	24	TML	0.990		
18	TM	Acetonitrile		0.0355	0.0278	0.0321	0.0303	0.0303	0.0327	0.0310		0.03	7.7	TM			
19	TM	t-Butanol	0.0144	0.0129	0.0111	0.0143	0.0115	0.0101				0.01	14	TM			
20	TML	Methyl Acetate		0.2836	0.2451	0.2184	0.1896	0.1939	0.1940	0.1824		0.22	17	TML	0.999		
21	TML	Iodomethane		0.0608	0.0695	0.0600	0.0368	0.0353	0.0454	0.0561		0.05	25	TML	0.990		
22	TML	Acrylonitrile		0.1714	0.0814	0.1211	0.1056	0.0935	0.0957	0.0954		0.11	28	TML	1.000		
23	TM	Methylene chloride		0.3644	0.2745	0.3022	0.3065	0.2639	0.2607	0.2568		0.29	13	TM			
24	TM	Carbon disulfide		0.6074	0.4497	0.5232	0.5353	0.4814	0.4901	0.4925		0.51	9.9	TM			
25	TM	Methyl t-butyl ether (MtBE)		0.7107	0.5626	0.7159	0.6818	0.6596	0.6474	0.6307		0.66	8.0	TM			
26	TM	Trans-1,2-DCE		0.2864	0.2419	0.3064	0.3082	0.2767	0.2805	0.2728		0.28	8.0	TM			
27	TM	Hexane												TM			
28	TM	Diisopropyl Ether		0.2566	0.2071	0.2510	0.2515	0.2233	0.2292	0.2277		0.24	7.8	TM			
29	TM**	2,2-Dichloro-1,1,1-trifluoroethane												TM**			
30	TM**	1,1-DCA		0.2077	0.1327	0.1939	0.1959	0.1808	0.1814	0.1757		0.18	13	TM**			
31	TM	Vinyl Acetate		0.2131	0.1653	0.1917	0.1937	0.1802	0.1815	0.1771		0.19	8.2	TM			
32	TM	Ethyl tert Butyl Ether		0.6566	0.4777	0.5996	0.6154	0.5764	0.5803	0.5743		0.58	9.4	TM			
33	TML	MEK (2-Butanone)	0.1575	0.1240	0.1130	0.1078	0.1211	0.1049	0.1033	0.1037		0.12	16	TML	1.000		
34	TM	Cis-1,2-DCE		0.3942	0.3566	0.4030	0.3872	0.3516	0.3431	0.3380		0.37	7.2	TM			
35	TML	2,2-Dichloropropane		0.1484	0.1153	0.1103	0.1247	0.1116	0.1099	0.1075		0.12	12	TML	0.999		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 08/02/19
Instrument: Thor

Initials: DP

		Compound	1	2	3	5	6	7	8	9			Avg	%RSD	Type		Q	MRF
36	TM	2-Methylpentane													TM			
37	TM	3-Methylpentane													TM			
38	TM*L	Chloroform		0.2332	0.1349	0.1776	0.1854	0.1697	0.1685	0.1707			0.18	17	TM*L	1.000		
39	TM	Bromochloromethane		0.0826	0.0613	0.0724	0.0762	0.0712	0.0709	0.0646			0.07	9.9	TM			
40	SL	Dibromofluoromethane(S)	0.8008	1.009	0.6628	0.5235	0.5341	0.5391	0.5498	0.4827			0.64	28	SL	0.996		
41	TML	1,1,1-TCA		0.2248	0.1280	0.1686	0.1540	0.1527	0.1471	0.1444			0.16	19	TML	0.999		
42	TM	Cyclohexane		0.2844	0.2092	0.2684	0.2515	0.2480	0.2464	0.2607			0.25	9.2	TM			
43	TM	1,1-Dichloropropene		0.2548	0.2153	0.2982	0.2875	0.2736	0.2785	0.2727			0.27	10	TM			
44	TM	2,2,4-Trimethylpentane		0.2461	0.1674	0.2086	0.2191	0.2023	0.1990	0.2147			0.21	11	TM			
45	SL	1,2-DCA-D4(S)	0.9014	1.158	0.7388	0.5833	0.5914	0.6010	0.6077	0.5325			0.71	30	SL	0.995		
46	TML	Carbon Tetrachloride		0.0795	0.1660	0.2524	0.2716	0.2700	0.2862	0.3000			0.23	35	TML	1.000		
47	TM	Tert Amyl Methyl Ether		0.6331	0.4497	0.5775	0.5982	0.5645	0.5646	0.5641			0.56	10	TM			
48	TM	Methylcyclopentane													TM			
49	TM	1,2-DCA		0.2043	0.1431	0.1764	0.1851	0.1668	0.1576	0.1544			0.17	12	TM			
50	TM	Benzene		0.9476	0.6984	0.8978	0.9236	0.8506	0.8221	0.8222			0.85	9.8	TM			
51	TML	TCE		0.3541	0.1702	0.2981	0.2779	0.2617	0.2595	0.2540			0.27	21	TML	1.000		
52	TM	2-Pentanone		0.1657	0.1346	0.1641	0.1655	0.1636	0.1620	0.1468			0.16	7.7	TM			
53	TM*	1,2-Dichloropropane		0.2459	0.1938	0.2419	0.2305	0.2164	0.2107	0.2053			0.22	8.8	TM*			
54	TM	Bromodichloromethane		0.2365	0.2544	0.3400	0.3420	0.3043	0.3116	0.3100			0.30	13	TM			
55	TM	Methyl Cyclohexane		0.3247	0.2414	0.2807	0.2996	0.2819	0.2897	0.2879			0.29	8.7	TM			
56	TM	Dibromomethane		0.1489	0.0920	0.1282	0.1286	0.1321	0.1203	0.1187			0.12	14	TM			
57	TM	MIBK (methyl isobutyl ketone)		0.2521	0.1850	0.2178	0.2398	0.2190	0.2113	0.2088			0.22	9.9	TM			
58	TM	1-Bromo-2-chloroethane		0.3598	0.2484	0.3140	0.3234	0.2890	0.2936	0.2863			0.30	12	TM			
59	TM	2-Chloroethyl vinyl ether				0.0043	0.0048	0.0035	0.0041	0.0039			0.00	11	TM			
60	TM	Cis-1,3-Dichloropropene		0.3735	0.2517	0.3500	0.3705	0.3442	0.3461	0.3497			0.34	12	TM			
61	TM*	Toluene		0.9383	0.7741	1.002	1.014	0.9122	0.8989	0.8844			0.92	8.8	TM*			
62	TM	Trans-1,3-Dichloropropene		0.1892	0.1774	0.2014	0.2180	0.2088	0.2058	0.2149			0.20	7.1	TM			
63	TM	1,1,2-TCA		0.2372	0.1763	0.2337	0.2459	0.2242	0.2163	0.2095			0.22	10	TM			
64	TM	2-Hexanone		0.0832	0.0696	0.0902	0.0850	0.0817	0.0883	0.0877			0.08	8.2	TM			
65	I	Chlorobenzene-D5 (IS)																
66	SL	Toluene-D8(S)	2.667	3.416	2.185	1.755	1.823	1.893	1.925	1.701			2.2	27	SL	0.995		
67	TM	1,2-EDB		0.1490	0.1070	0.1703	0.1674	0.1525	0.1577	0.1599			0.15	14	TM			
68	TML	Tetrachloroethene		0.3246	0.2793	0.4447	0.4490	0.4245	0.4032	0.3943			0.39	16	TML	0.998		
69	TM	1-Chlorohexane		0.2482	0.2007	0.2506	0.2460	0.2242	0.2322	0.2433			0.24	7.6	TM			
70	TML	1,1,1,2-Tetrachloroethane		0.2207	0.1892	0.2616	0.2785	0.2579	0.2587	0.2612			0.25	12	TML	1.000		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. _____
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 08/02/19 _____
Instrument: Thor _____

Initials: DP

		Compound	1	2	3	5	6	7	8	9			Avg	%RSD	Type		Q	MRF
71	TM	m&p-Xylene		0.4514	0.3804	0.4780	0.5121	0.5050	0.5094	0.5177			0.48	10	TM			
72	TM	o-Xylene		0.7732	0.6173	0.8043	0.8595	0.8335	0.8181	0.8429			0.79	10	TM			
73	TML	Styrene		0.5345	0.4163	0.5770	0.6351	0.6274	0.6412	0.6867			0.59	15	TML	0.999		
74	SL	4-Bromofluorobenzene(S)	1.130	1.393	0.8760	0.7083	0.7258	0.7780	0.8313	0.7687			0.90	27	SL	0.995		
75	TM	1,3-Dichloropropane		0.3383	0.3267	0.3815	0.4226	0.3920	0.3708	0.3690			0.37	8.7	TM			
76	TML	Dibromochloromethane		0.0599	0.1973	0.2885	0.2874	0.2871	0.2807	0.2891			0.24	36	TML	1.000		
77	TM**	Chlorobenzene		0.4333	0.3316	0.4338	0.4516	0.4236	0.4186	0.4140			0.42	9.4	TM**			
78	TM*	Ethylbenzene		0.9721	0.7862	1.059	1.095	1.030	1.031	1.033			1.0	10	TM*			
79	TM**	Bromoform		0.1444	0.1206	0.1457	0.1421	0.1404	0.1511	0.1618			0.14	8.7	TM**			
80	I	1,4-Dichlorobenzene-D (IS)																
81	TM	Isopropylbenzene		1.711	1.392	1.877	1.785	1.643	1.576	1.543			1.6	9.8	TM			
82	TM**	1,1,2,2-Tetrachloroethane		0.6890	0.4357	0.6054	0.5898	0.5500	0.5198	0.4886			0.55	15	TM**			
83	TM	1,2,3-Trichloropropane		0.2164	0.1463	0.2015	0.2003	0.1811	0.1734	0.1625			0.18	13	TM			
84	TML	t-1,4-Dichloro-2-Butene		0.1146	0.0743	0.0692	0.0882	0.0863	0.0867	0.0836			0.09	17	TML	1.000		
85	TM	Bromobenzene		0.4165	0.3356	0.4856	0.4907	0.4419	0.3969	0.4113			0.43	13	TM			
86	TM	n-Propylbenzene		1.884	1.471	1.968	1.883	1.786	1.719	1.743			1.8	9.1	TM			
87	TM	4-Ethyltoluene		1.377	1.067	1.427	1.490	1.388	1.404	1.436			1.4	10	TM			
88	TM	2-Chlorotoluene		0.7314	0.6420	0.8462	0.8634	0.7697	0.7561	0.7139			0.76	10	TM			
89	TM	1,3,5-Trimethylbenzene		1.419	1.126	1.442	1.426	1.350	1.354	1.355			1.4	7.9	TM			
90	TM	4-Chlorotoluene		0.7314	0.6471	0.8570	0.8841	0.8235	0.8201	0.7946			0.79	10	TM			
91	TM	Tert-Butylbenzene		1.240	0.9868	1.380	1.348	1.222	1.207	1.242			1.2	10	TM			
92	TM	1,2,4-Trimethylbenzene		1.325	1.009	1.278	1.343	1.242	1.253	1.314			1.3	9.1	TM			
93	TM	Sec-Butylbenzene		1.456	1.270	1.765	1.718	1.643	1.626	1.684			1.6	11	TM			
94	TM	p-Isopropyltoluene		1.479	1.043	1.377	1.416	1.354	1.368	1.461			1.4	11	TM			
95	TM	Benzyl Chloride		0.2837	0.2523	0.3329	0.2837	0.3027	0.3053	0.3168			0.30	8.8	TM			
96	TM	1,3-DCB		0.6059	0.4799	0.6746	0.6602	0.6333	0.6195	0.6109			0.61	10	TM			
97	TM	1,4-DCB		1.026	0.8199	1.023	1.033	0.9446	0.9172	0.9065			0.95	8.3	TM			
98	TM	n-Butylbenzene		1.238	0.9546	1.152	1.120	1.042	1.028	1.129			1.1	8.5	TM			
99	TM	1,2-DCB		0.6792	0.5461	0.6796	0.6653	0.6253	0.6186	0.6089			0.63	7.6	TM			
100	TML	Hexachloroethane		0.1339	0.0858	0.1014	0.0994	0.0964	0.0892	0.1074			0.10	16	TML	0.995		
101	TML	1,2-Dibromo-3-chloropropane		0.0153	0.1143	0.1444	0.1531	0.1432	0.1366	0.1363			0.12	40	TML	1.000		
102	TML	1,2,4-Trichlorobenzene		0.4578	0.2812	0.3928	0.4625	0.3958	0.4198	0.4223			0.40	15	TML	1.000		
103	TML	Hexachlorobutadiene		0.1442	0.1551	0.4334	0.4243	0.3903	0.4024	0.4068			0.34	38	TML	1.000		
104	TML	Naphthalene		0.8358	0.5718	0.7998	0.8285	0.8603	0.9217	0.9061			0.82	14	TML	0.999		
105	TM	1,2,3-Trichlorobenzene		0.6162	0.4650	0.5976	0.6359	0.5973	0.6068	0.6029			0.59	9.5	TM			

Data File : M:\THOR\DATA\T190802\0802T03.D
 Acq On : 2 Aug 19 11:07
 Sample : 0.3ug/L VOC STD 08/02/19
 Misc : IS&S 7/5/19,6/5/19

Vial: 3
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Aug 5 9:04 2019

Quant Results File: T0802W.RES

Quant Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Aug 05 09:04:22 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	429696	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	416832	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	220608	25.0000	ppb	0.00

System Monitoring Compounds

40) Dibromofluoromethane(S)	4.62	111	68823	3.8243	ppb	0.00
Spiked Amount	25.000		Recovery	=	15.296%	
45) 1,2-DCA-D4(S)	5.05	65	77464	3.7155	ppb	0.00
Spiked Amount	25.000		Recovery	=	14.860%	
66) Toluene-D8(S)	7.32	98	222353	4.1675	ppb	0.00
Spiked Amount	25.000		Recovery	=	16.672%	
74) 4-Bromofluorobenzene(S)	9.98	174	94208	5.7792	ppb	0.00
Spiked Amount	25.000		Recovery	=	23.116%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chlorotrifluoroethene	0.85	116	6909	3.3463	ppb	95
3) Dichlorodifluoromethane	0.88	87	79	-0.1161	ppb #	59
4) Freon 114	0.95	85	762	0.2319	ppb #	59
5) Chloromethane	0.98	50	5227	0.1684	ppb	98
6) Vinyl chloride	1.05	62	1425	0.3426	ppb #	71
7) 2-Chloro-1,1,1-trifluoroet	1.12	118	178130	3.8805	ppb	97
8) Bromomethane	1.25	94	1817	-0.1718	ppb #	77
10) Dichlorofluoromethane	1.47	67	2699	0.4236	ppb	84
11) Trichlorofluoromethane	1.49	101	1972	0.3287	ppb	92
13) Acrolein	1.81	56	6745	12.0297	ppb	97
14) Acetone	1.94	43	2114	-1.4888	ppb #	65
15) Freon-113	1.91	101	797	0.4232	ppb #	86
16) 1,1-DCE	1.88	61	1791	0.3432	ppb #	62
17) 2-Propanol	2.09	45	2329	8.2165	ppb #	57
18) Acetonitrile	2.17	41	6251	11.5826	ppb	97
19) t-Butanol	2.49	59	2480	11.6545	ppb #	76
20) Methyl Acetate	2.24	43	1632	-0.3407	ppb #	52
21) Iodomethane	1.99	142	386	2.8491	ppb #	25
23) Methylene chloride	2.31	49	2337	0.4691	ppb	93
24) Carbon disulfide	2.04	76	3042	0.3461	ppb #	70
25) Methyl t-butyl ether (MtBE)	2.61	73	3658	0.3233	ppb #	91
26) Trans-1,2-DCE	2.58	61	1760	0.3633	ppb #	76
28) Diisopropyl Ether	3.22	45	1236	0.3057	ppb #	56
30) 1,1-DCA	3.05	63	1045	0.3356	ppb #	80
31) Vinyl Acetate	3.21	87	836	0.2614	ppb	88
32) Ethyl tert Butyl Ether	3.75	59	2469	0.2464	ppb #	81
33) MEK (2-Butanone)	3.96	43	812	0.9552	ppb #	45
34) Cis-1,2-DCE	3.86	61	2078	0.3288	ppb #	77
35) 2,2-Dichloropropane	3.83	77	984	0.3491	ppb #	82
38) Chloroform	4.40	83	1184	0.2702	ppb #	87
39) Bromochloromethane	4.21	130	417	0.3401	ppb #	41
41) 1,1,1-TCA	4.60	97	805	0.1262	ppb #	90
42) Cyclohexane	4.69	84	1382	0.3183	ppb #	49
43) 1,1-Dichloropropene	4.85	75	1526	0.3305	ppb #	41
44) 2,2,4-Trimethylpentane	5.28	57	1522	0.4254	ppb	84
46) Carbon Tetrachloride	4.83	119	730	1.1601	ppb #	84
47) Tert Amyl Methyl Ether	5.34	73	2181	0.2248	ppb #	74
49) 1,2-DCA	5.16	62	1173	0.4022	ppb #	90
50) Benzene	5.11	78	5109	0.3490	ppb #	84

(#) = qualifier out of range (m) = manual integration

0802T03.D T0802W.M Mon Aug 05 09:26:16 2019

Data File : M:\THOR\DATA\T190802\0802T03.D
 Acq On : 2 Aug 19 11:07
 Sample : 0.3ug/L VOC STD 08/02/19
 Misc : IS&S 7/5/19,6/5/19

Vial: 3
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Aug 5 9:04 2019

Quant Results File: T0802W.RES

Quant Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Aug 05 09:04:22 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) TCE	5.96	130	730	-0.3449	ppb #	48
52) 2-Pentanone	6.23	43	28922	10.6853	ppb	96
53) 1,2-Dichloropropane	6.19	63	852	0.2247	ppb #	26
54) Bromodichloromethane	6.55	83	2036	0.3951	ppb #	72
55) Methyl Cyclohexane	6.15	83	1844	0.3744	ppb #	75
56) Dibromomethane	6.32	174	668	0.3131	ppb #	26
57) MIBK (methyl isobutyl ket	7.25	43	1259	0.3343	ppb #	70
58) 1-Bromo-2-chloroethane	6.85	63	1729	0.3330	ppb	89
59) 2-Chloroethyl vinyl ether	6.88	107	69	0.9768	ppb #	2
60) Cis-1,3-Dichloropropene	7.05	75	1373	0.2344	ppb	84
61) Toluene	7.39	91	4629	0.2935	ppb	94
62) Trans-1,3-Dichloropropene	7.66	75	900	0.2590	ppb #	15
63) 1,1,2-TCA	7.84	97	1116	0.2945	ppb #	51
64) 2-Hexanone	8.15	43	516	0.3588	ppb #	87
67) 1,2-EDB	8.30	107	995	0.3927	ppb	85
68) Tetrachloroethene	7.95	166	2109	0.3955	ppb #	82
69) 1-Chlorohexane	8.85	91	996	0.2542	ppb #	59
70) 1,1,1,2-Tetrachloroethane	8.92	131	1519	0.3744	ppb #	69
71) m&p-Xylene	9.08	91	4360	0.5458	ppb	83
72) o-Xylene	9.47	91	4117	0.3115	ppb #	83
73) Styrene	9.48	104	2908	1.2028	ppb	97
75) 1,3-Dichloropropane	8.00	76	2177	0.3514	ppb	85
76) Dibromochloromethane	8.21	129	1336	0.5800	ppb #	64
77) Chlorobenzene	8.83	112	2239	0.3234	ppb	91
78) Ethylbenzene	8.96	91	5551	0.3326	ppb	83
79) Bromoform	9.64	173	966	0.4031	ppb #	64
81) Isopropylbenzene	9.85	105	4756	0.3273	ppb #	81
82) 1,1,2,2-Tetrachloroethane	10.15	83	1205	0.2465	ppb #	91
83) 1,2,3-Trichloropropane	10.17	110	481	0.2977	ppb #	52
85) Bromobenzene	10.10	77	1557	0.4147	ppb	93
86) n-Propylbenzene	10.26	91	5646	0.3596	ppb	93
87) 4-Ethyltoluene	10.37	105	3983	0.3295	ppb #	82
88) 2-Chlorotoluene	10.43	91	2176	0.3243	ppb	95
89) 1,3,5-Trimethylbenzene	10.44	105	3452	0.2891	ppb #	78
90) 4-Chlorotoluene	10.43	91	2176	0.3106	ppb	93
91) Tert-Butylbenzene	10.75	119	3917	0.3603	ppb #	87
92) 1,2,4-Trimethylbenzene	10.80	105	4332	0.3921	ppb #	74
93) Sec-Butylbenzene	10.97	105	3804	0.2704	ppb	93
94) p-Isopropyltoluene	11.13	119	4331	0.3617	ppb #	81
95) Benzyl Chloride	11.28	91	1282	0.4895	ppb #	56
96) 1,3-DCB	11.04	146	1952	0.3614	ppb #	60
97) 1,4-DCB	11.13	146	3972	0.4724	ppb #	80
98) n-Butylbenzene	11.53	91	3328	0.3446	ppb #	82
99) 1,2-DCB	11.49	146	2214	0.3971	ppb	88
100) Hexachloroethane	11.75	117	367	1.5900	ppb #	6
101) 1,2-Dibromo-3-chloropropan	12.26	157	531	0.1075	ppb #	67
102) 1,2,4-Trichlorobenzene	13.08	182	1302	0.5274	ppb	91
103) Hexachlorobutadiene	13.28	225	1236	0.5730	ppb #	58
104) Naphthalene	13.31	128	2523	0.5099	ppb	93
105) 1,2,3-Trichlorobenzene	13.55	182	1734	0.3337	ppb #	75

(#) = qualifier out of range (m) = manual integration

0802T03.D T0802W.M Mon Aug 05 09:26:17 2019

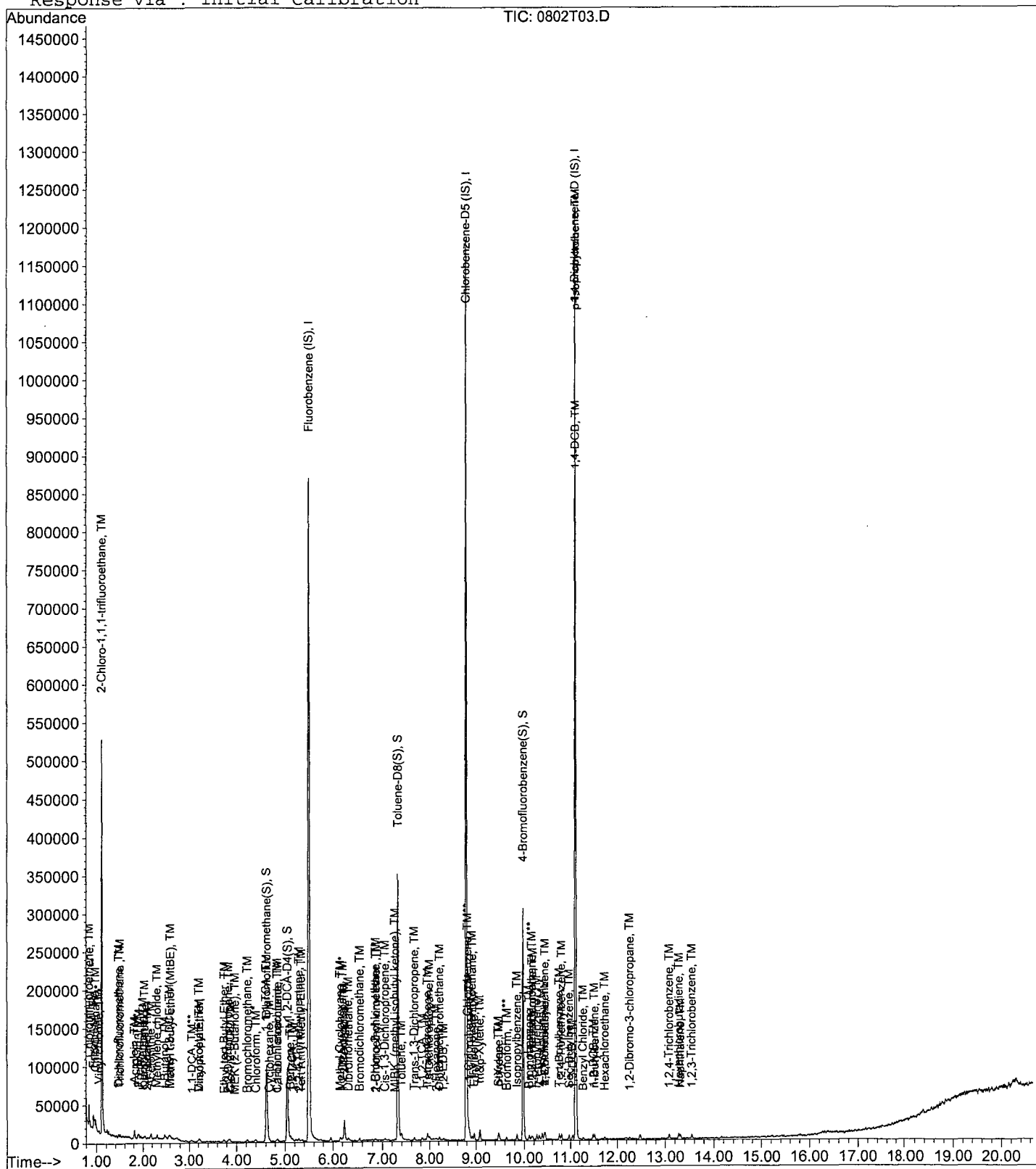
Data File : M:\THOR\DATA\T190802\0802T03.D
Acq On : 2 Aug 19 11:07
Sample : 0.3ug/L VOC STD 08/02/19
Misc : IS&S 7/5/19,6/5/19

Vial: 3
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Aug 5 9:04 2019

Quant Results File: T0802W.RES

Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Aug 05 09:07:45 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190802\0802T04.D Vial: 4
 Acq On : 2 Aug 19 11:35 Operator:
 Sample : 0.5ug/L VOC STD 08/02/19 Inst : Thor
 Misc : IS&S 7/5/19,6/5/19 Multiplr: 1.00

Quant Time: Aug 5 9:05 2019

Quant Results File: T0802W.RES

Quant Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)

Title : METHOD 8260B

Last Update : Mon Aug 05 09:04:39 2019

Response via : Initial Calibration

DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	432896	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	432960	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	232640	25.0000	ppb	0.00

System Monitoring Compounds

40) Dibromofluoromethane(S)	4.62	111	87368	6.0346	ppb	0.00
Spiked Amount	25.000		Recovery	=	24.140%	
45) 1,2-DCA-D4(S)	5.05	65	100255	6.1877	ppb	0.00
Spiked Amount	25.000		Recovery	=	24.752%	
66) Toluene-D8(S)	7.32	98	295790	6.4046	ppb	0.00
Spiked Amount	25.000		Recovery	=	25.620%	
74) 4-Bromofluorobenzene(S)	9.98	174	120665	7.5196	ppb	0.00
Spiked Amount	25.000		Recovery	=	30.080%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chlorotrifluoroethene	0.85	116	11408	5.4844	ppb	97
3) Dichlorodifluoromethane	0.87	87	718	0.3511	ppb #	73
4) Freon 114	0.95	85	1969	0.5949	ppb #	70
5) Chloromethane	0.98	50	6993	0.4362	ppb	91
6) Vinyl chloride	1.05	62	2481	0.5921	ppb	98
7) 2-Chloro-1,1,1-trifluoroet	1.12	118	279228	6.0379	ppb	97
8) Bromomethane	1.25	94	2282	0.1774	ppb #	71
9) Chloroethane	1.33	64	2232	0.2224	ppb #	82
10) Dichlorofluoromethane	1.47	67	3592	0.5595	ppb	83
11) Trichlorofluoromethane	1.50	101	3108	0.5143	ppb	95
13) Acrolein	1.81	56	15658	27.7197	ppb	98
14) Acetone	1.94	43	3617	-0.2818	ppb	90
15) Freon-113	1.90	101	1135	0.5983	ppb #	67
16) 1,1-DCE	1.88	61	2964	0.5638	ppb	97
17) 2-Propanol	2.10	45	2350	8.2294	ppb	99
18) Acetonitrile	2.17	41	15368	28.2652	ppb	89
19) t-Butanol	2.49	59	5577	26.0149	ppb #	85
21) Iodomethane	1.99	142	526	2.9909	ppb	83
22) Acrylonitrile	2.56	53	1484	0.4064	ppb #	87
23) Methylene chloride	2.31	49	3155	0.6286	ppb	90
24) Carbon disulfide	2.05	76	5259	0.5939	ppb #	82
25) Methyl t-butyl ether (MtBE)	2.62	73	6153	0.5397	ppb	95
26) Trans-1,2-DCE	2.58	61	2480	0.5081	ppb	88
28) Diisopropyl Ether	3.23	45	2222	0.5455	ppb #	86
30) 1,1-DCA	3.05	63	1798	0.5732	ppb #	87
31) Vinyl Acetate	3.22	87	1845	0.5726	ppb	89
32) Ethyl tert Butyl Ether	3.74	59	5685	0.5632	ppb #	89
33) MEK (2-Butanone)	3.95	43	1074	1.3573	ppb #	45
34) Cis-1,2-DCE	3.86	61	3413	0.5361	ppb #	85
35) 2,2-Dichloropropane	3.83	77	1285	0.5047	ppb #	75
38) Chloroform	4.39	83	2019	0.5506	ppb #	36
39) Bromochloromethane	4.21	130	715	0.5789	ppb #	29
41) 1,1,1-TCA	4.60	97	1946	0.5744	ppb	92
42) Cyclohexane	4.65	84	2462	0.5628	ppb #	64
43) 1,1-Dichloropropene	4.84	75	2206	0.4742	ppb #	90
44) 2,2,4-Trimethylpentane	5.29	57	2131	0.5912	ppb	90
46) Carbon Tetrachloride	4.84	119	688	1.1510	ppb	88
47) Tert Amyl Methyl Ether	5.35	73	5481	0.5607	ppb #	90
49) 1,2-DCA	5.16	62	1769	0.6021	ppb #	74

(#)= qualifier out of range (m) = manual integration

0802T04.D T0802W.M Mon Aug 05 09:26:20 2019

Data File : M:\THOR\DATA\T190802\0802T04.D
 Acq On : 2 Aug 19 11:35
 Sample : 0.5ug/L VOC STD 08/02/19
 Misc : IS&S 7/5/19,6/5/19

Vial: 4
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Aug 5 9:05 2019

Quant Results File: T0802W.RES

Quant Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Aug 05 09:04:39 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Benzene	5.11	78	8204	0.5562	ppb	# 88
51) TCE	5.95	130	3066	0.1862	ppb	85
52) 2-Pentanone	6.24	43	71751	26.3127	ppb	98
53) 1,2-Dichloropropane	6.20	63	2129	0.5572	ppb	# 81
54) Bromodichloromethane	6.55	83	2048	0.3945	ppb	96
55) Methyl Cyclohexane	6.17	83	2811	0.5665	ppb	87
56) Dibromomethane	6.33	174	1289	0.5997	ppb	89
57) MIBK (methyl isobutyl ket	7.26	43	2183	0.5753	ppb	# 79
58) 1-Bromo-2-chloroethane	6.85	63	3115	0.5955	ppb	# 77
59) 2-Chloroethyl vinyl ether	6.84	107	75	1.0539	ppb	# 35
60) Cis-1,3-Dichloropropene	7.05	75	3234	0.5480	ppb	91
61) Toluene	7.39	91	8124	0.5113	ppb	94
62) Trans-1,3-Dichloropropene	7.66	75	1638	0.4679	ppb	# 60
63) 1,1,2-TCA	7.83	97	2054	0.5380	ppb	# 73
64) 2-Hexanone	8.13	43	720	0.4970	ppb	# 52
67) 1,2-EDB	8.30	107	1290	0.4902	ppb	91
68) Tetrachloroethene	7.95	166	2811	0.4840	ppb	# 76
69) 1-Chlorohexane	8.85	91	2149	0.5280	ppb	# 86
70) 1,1,1,2-Tetrachloroethane	8.92	131	1911	0.4481	ppb	82
71) m&p-Xylene	9.08	91	7818	0.9421	ppb	99
72) o-Xylene	9.46	91	6695	0.4877	ppb	98
73) Styrene	9.48	104	4628	1.3378	ppb	94
75) 1,3-Dichloropropane	7.99	76	2929	0.4552	ppb	# 59
76) Dibromochloromethane	8.22	129	519	0.4065	ppb	86
77) Chlorobenzene	8.82	112	3752	0.5218	ppb	# 84
78) Ethylbenzene	8.96	91	8418	0.4856	ppb	# 80
79) Bromoform	9.64	173	1250	0.5022	ppb	# 63
81) Isopropylbenzene	9.85	105	7963	0.5197	ppb	# 79
82) 1,1,2,2-Tetrachloroethane	10.15	83	3206	0.6218	ppb	# 79
83) 1,2,3-Trichloropropane	10.17	110	1007	0.5910	ppb	# 82
84) t-1,4-Dichloro-2-Butene	10.21	53	533	0.4933	ppb	# 16
85) Bromobenzene	10.10	77	1938	0.4894	ppb	# 78
86) n-Propylbenzene	10.25	91	8764	0.5294	ppb	# 85
87) 4-Ethyltoluene	10.37	105	6406	0.5025	ppb	# 93
88) 2-Chlorotoluene	10.42	91	3403	0.4809	ppb	89
89) 1,3,5-Trimethylbenzene	10.44	105	6600	0.5242	ppb	95
90) 4-Chlorotoluene	10.42	91	3403	0.4606	ppb	88
91) Tert-Butylbenzene	10.75	119	5768	0.5031	ppb	100
92) 1,2,4-Trimethylbenzene	10.80	105	6164	0.5291	ppb	99
93) Sec-Butylbenzene	10.97	105	6773	0.4565	ppb	# 84
94) p-Isopropyltoluene	11.13	119	6883	0.5451	ppb	# 87
95) Benzyl Chloride	11.28	91	1320	0.4780	ppb	# 78
96) 1,3-DCB	11.05	146	2819	0.4950	ppb	# 92
97) 1,4-DCB	11.13	146	4776	0.5386	ppb	# 83
98) n-Butylbenzene	11.53	91	5758	0.5653	ppb	87
99) 1,2-DCB	11.49	146	3160	0.5374	ppb	# 85
100) Hexachloroethane	11.74	117	623	1.8282	ppb	83
101) 1,2-Dibromo-3-chloropropan	12.27	157	71	-0.2787	ppb	93
102) 1,2,4-Trichlorobenzene	13.08	182	2130	0.7200	ppb	# 76
103) Hexachlorobutadiene	13.28	225	671	0.4061	ppb	92
104) Naphthalene	13.31	128	3889	0.6563	ppb	95
105) 1,2,3-Trichlorobenzene	13.55	182	2867	0.5233	ppb	# 74

(#) = qualifier out of range (m) = manual integration
 0802T04.D T0802W.M Mon Aug 05 09:26:21 2019

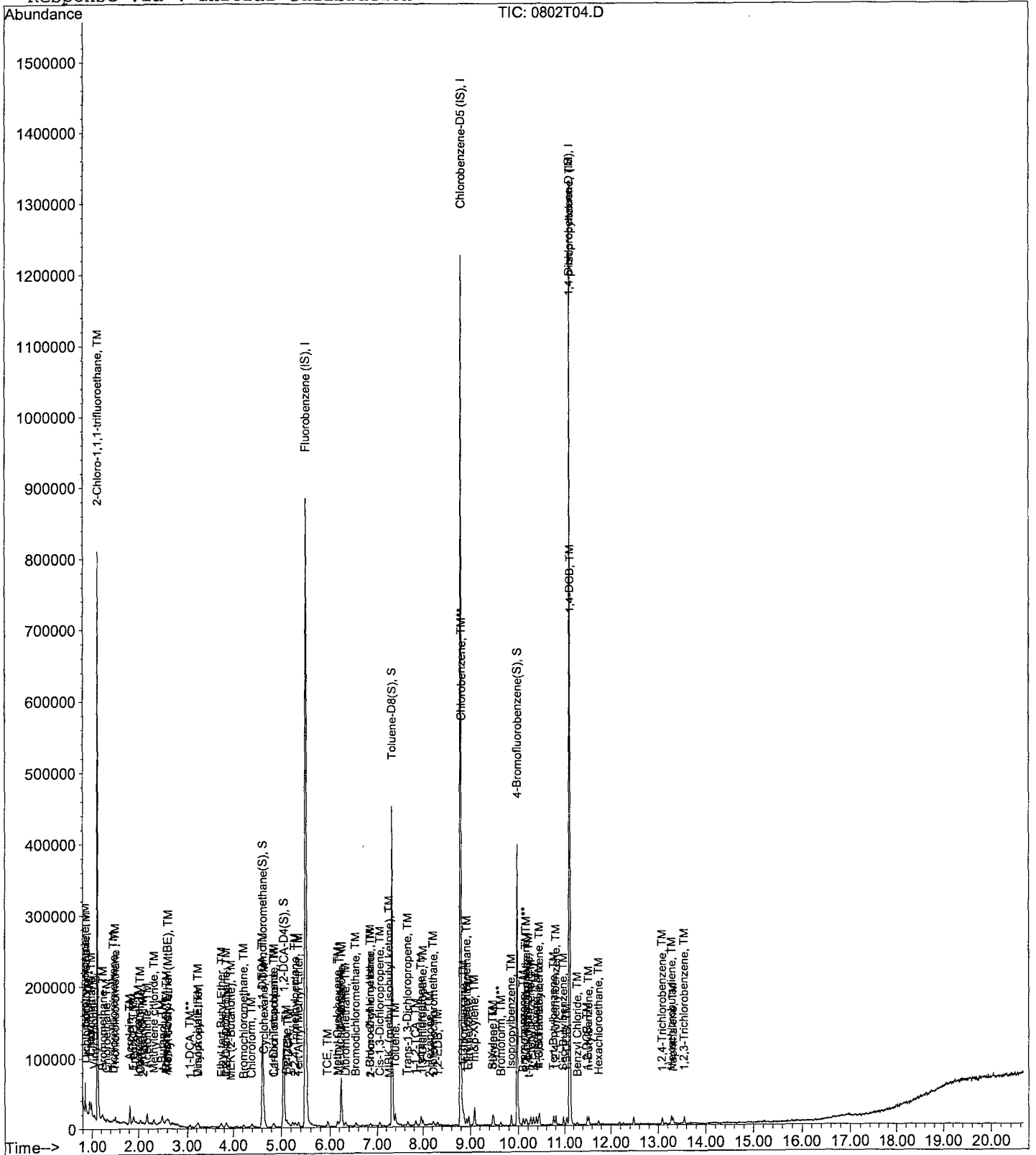
Data File : M:\THOR\DATA\T190802\0802T04.D
Acq On : 2 Aug 19 11:35
Sample : 0.5ug/L VOC STD 08/02/19
Misc : IS&S 7/5/19,6/5/19

Vial: 4
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Aug 5 9:05 2019

Quant Results File: T0802W.RES

Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Aug 05 09:07:45 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190802\0802T05.D
 Acq On : 2 Aug 19 12:03
 Sample : 1.0ug/L VOC STD 08/02/19
 Misc : IS&S 7/5/19,6/5/19

Vial: 5
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Aug 5 9:04 2019

Quant Results File: T0802W.RES

Quant Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Aug 05 09:04:39 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.50	96	519680	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	515584	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	275904	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
40) Dibromofluoromethane(S)	4.62	111	137769	9.3925	ppb	0.00
Spiked Amount 25.000			Recovery	=	37.572%	
45) 1,2-DCA-D4(S)	5.05	65	153580	9.2680	ppb	0.00
Spiked Amount 25.000			Recovery	=	37.072%	
66) Toluene-D8(S)	7.32	98	450700	9.2576	ppb	0.00
Spiked Amount 25.000			Recovery	=	37.032%	
74) 4-Bromofluorobenzene(S)	9.98	174	180670	9.8886	ppb	0.00
Spiked Amount 25.000			Recovery	=	39.556%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chlorotrifluoroethene	0.85	116	22875	9.1608	ppb	96
3) Dichlorodifluoromethane	0.85	87	2989	1.6480	ppb	# 77
4) Freon 114	0.95	85	3547	0.8927	ppb	# 76
5) Chloromethane	0.98	50	11892	0.8881	ppb	99
6) Vinyl chloride	1.05	62	4358	0.8664	ppb	92
7) 2-Chloro-1,1,1-trifluoroet	1.11	118	515511	9.2856	ppb	99
8) Bromomethane	1.25	94	3495	0.6642	ppb	83
9) Chloroethane	1.32	64	3159	0.4042	ppb	87
10) Dichlorofluoromethane	1.47	67	6928	0.8990	ppb	89
11) Trichlorofluoromethane	1.50	101	6098	0.8405	ppb	92
13) Acrolein	1.81	56	29176	43.0254	ppb	88
14) Acetone	1.94	43	5525	0.5179	ppb	94
15) Freon-113	1.91	101	2042	0.8966	ppb	87
16) 1,1-DCE	1.88	61	5555	0.8802	ppb	94
17) 2-Propanol	2.10	45	3550	10.3699	ppb	# 80
18) Acetonitrile	2.17	41	28916	44.3016	ppb	88
19) t-Butanol	2.49	59	11523	44.7749	ppb	98
20) Methyl Acetate	2.24	43	5095	0.4835	ppb	94
21) Iodomethane	1.99	142	1444	3.6908	ppb	# 47
22) Acrylonitrile	2.56	53	1692	0.3610	ppb	# 76
23) Methylene chloride	2.31	49	5706	0.9470	ppb	# 87
24) Carbon disulfide	2.04	76	9347	0.8793	ppb	93
25) Methyl t-butyl ether (MtBE)	2.62	73	11695	0.8545	ppb	94
26) Trans-1,2-DCE	2.58	61	5028	0.8582	ppb	91
28) Diisopropyl Ether	3.22	45	4305	0.8805	ppb	# 77
30) 1,1-DCA	3.05	63	2759	0.7327	ppb	# 88
31) Vinyl Acetate	3.22	87	3437	0.8885	ppb	83
32) Ethyl tert Butyl Ether	3.74	59	9929	0.8194	ppb	97
33) MEK (2-Butanone)	3.96	43	2348	2.7427	ppb	# 45
34) Cis-1,2-DCE	3.86	61	7297	0.9547	ppb	# 84
35) 2,2-Dichloropropane	3.84	77	2397	0.8820	ppb	# 79
38) Chloroform	4.40	83	2805	0.6584	ppb	96
39) Bromochloromethane	4.22	130	1274	0.8592	ppb	85
41) 1,1,1-TCA	4.60	97	2661	0.6813	ppb	# 80
42) Cyclohexane	4.66	84	4349	0.8281	ppb	84
43) 1,1-Dichloropropene	4.85	75	4475	0.8013	ppb	# 89
44) 2,2,4-Trimethylpentane	5.29	57	3479	0.8040	ppb	# 81
46) Carbon Tetrachloride	4.83	119	3451	1.5701	ppb	79
47) Tert Amyl Methyl Ether	5.35	73	9348	0.7966	ppb	# 79

(#) = qualifier out of range (m) = manual integration

Data File : M:\THOR\DATA\T190802\0802T05.D
 Acq On : 2 Aug 19 12:03
 Sample : 1.0ug/L VOC STD 08/02/19
 Misc : IS&S 7/5/19,6/5/19

Vial: 5
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Aug 5 9:04 2019

Quant Results File: T0802W.RES

Quant Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Aug 05 09:04:39 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) 1,2-DCA	5.16	62	2974	0.8432	ppb	100
50) Benzene	5.11	78	14518	0.8200	ppb	92
51) TCE	5.96	130	3538	0.1591	ppb #	57
52) 2-Pentanone	6.23	43	139908	42.7393	ppb	93
53) 1,2-Dichloropropane	6.20	63	4029	0.8784	ppb #	97
54) Bromodichloromethane	6.55	83	5289	0.8486	ppb #	78
55) Methyl Cyclohexane	6.16	83	5018	0.8424	ppb	87
56) Dibromomethane	6.33	174	1913	0.7414	ppb	98
57) MIBK (methyl isobutyl ket	7.27	43	3846	0.8443	ppb #	94
58) 1-Bromo-2-chloroethane	6.85	63	5163	0.8222	ppb	97
59) 2-Chloroethyl vinyl ether	6.85	107	28	0.3277	ppb #	1
60) Cis-1,3-Dichloropropene	7.05	75	5232	0.7385	ppb	98
61) Toluene	7.39	91	16092	0.8436	ppb	98
62) Trans-1,3-Dichloropropene	7.66	75	3687	0.8772	ppb	96
63) 1,1,2-TCA	7.83	97	3665	0.7997	ppb	87
64) 2-Hexanone	8.14	43	1446	0.8314	ppb #	90
67) 1,2-EDB	8.30	107	2207	0.7043	ppb	96
68) Tetrachloroethene	7.96	166	5761	0.7731	ppb #	83
69) 1-Chlorohexane	8.86	91	4139	0.8540	ppb	93
70) 1,1,1,2-Tetrachloroethane	8.92	131	3902	0.7502	ppb	82
71) m&p-Xylene	9.08	91	15691	1.5879	ppb	98
72) o-Xylene	9.47	91	12731	0.7788	ppb	97
73) Styrene	9.49	104	8585	1.5545	ppb	93
75) 1,3-Dichloropropane	7.99	76	6737	0.8792	ppb #	81
76) Dibromochloromethane	8.21	129	4070	0.9854	ppb #	78
77) Chlorobenzene	8.82	112	6838	0.7986	ppb	89
78) Ethylbenzene	8.96	91	16215	0.7855	ppb	92
79) Bromoform	9.64	173	2487	0.8391	ppb #	76
81) Isopropylbenzene	9.85	105	15361	0.8453	ppb	98
82) 1,1,2,2-Tetrachloroethane	10.15	83	4808	0.7863	ppb	92
83) 1,2,3-Trichloropropane	10.17	110	1615	0.7993	ppb	84
84) t-1,4-Dichloro-2-Butene	10.21	53	820	0.6964	ppb	86
85) Bromobenzene	10.10	77	3704	0.7888	ppb	85
86) n-Propylbenzene	10.26	91	16237	0.8269	ppb	92
87) 4-Ethyltoluene	10.37	105	11774	0.7788	ppb	93
88) 2-Chlorotoluene	10.31	91	7085	0.8443	ppb	95
89) 1,3,5-Trimethylbenzene	10.44	105	12422	0.8319	ppb	99
90) 4-Chlorotoluene	10.43	91	7141	0.8150	ppb	97
91) Tert-Butylbenzene	10.75	119	10890	0.8009	ppb	89
92) 1,2,4-Trimethylbenzene	10.80	105	11133	0.8058	ppb	99
93) Sec-Butylbenzene	10.97	105	14014	0.7964	ppb	97
94) p-Isopropyltoluene	11.13	119	11516	0.7691	ppb	88
95) Benzyl Chloride	11.28	91	2784	0.8500	ppb	97
96) 1,3-DCB	11.05	146	5296	0.7841	ppb	87
97) 1,4-DCB	11.14	146	9048	0.8604	ppb #	92
98) n-Butylbenzene	11.52	91	10535	0.8721	ppb	93
99) 1,2-DCB	11.49	146	6027	0.8643	ppb	94
100) Hexachloroethane	11.74	117	947	2.0054	ppb #	39
101) 1,2-Dibromo-3-chloropropan	12.25	157	1261	0.5050	ppb #	71
102) 1,2,4-Trichlorobenzene	13.08	182	3103	0.8437	ppb #	77
103) Hexachlorobutadiene	13.28	225	1712	0.6100	ppb	88
104) Naphthalene	13.31	128	6311	0.8269	ppb	96
105) 1,2,3-Trichlorobenzene	13.55	182	5132	0.7898	ppb	86

(#) = qualifier out of range (m) = manual integration

0802T05.D T0802W.M Mon Aug 05 09:26:25 2019

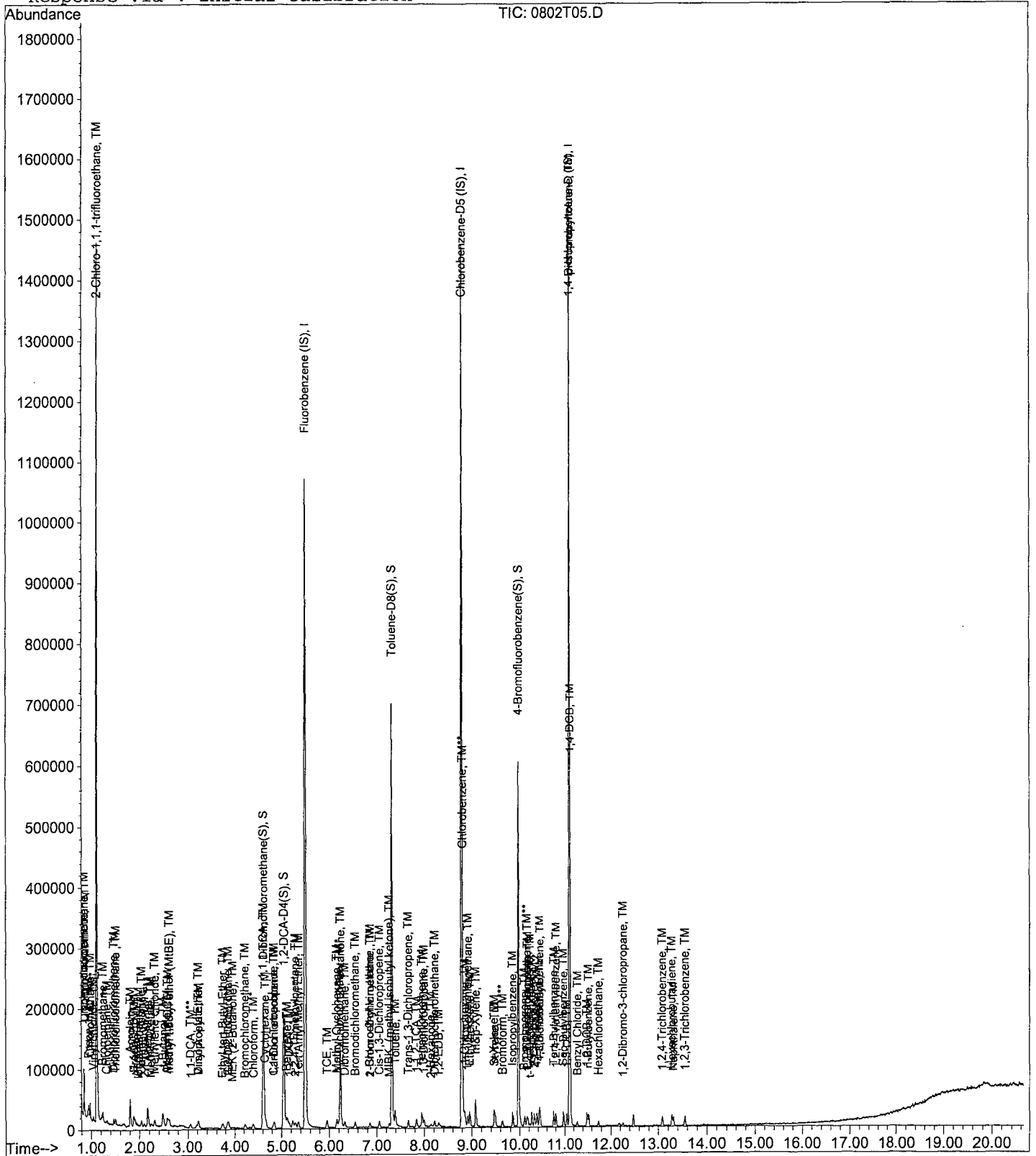
Data File : M:\THOR\DATA\T190802\0802T05.D
Acq On : 2 Aug 19 12:03
Sample : 1.0ug/L VOC STD 08/02/19
Misc : IS&S 7/5/19,6/5/19

Vial: 5
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Aug 5 9:04 2019

Quant Results File: T0802W.RES

Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Aug 05 09:07:45 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190802\0802T07.D
 Acq On : 2 Aug 19 13:00
 Sample : 5.0ug/L VOC STD 08/02/19
 Misc : IS&S 7/5/19,6/5/19

Vial: 7
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Aug 5 9:04 2019

Quant Results File: T0802W.RES

Quant Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Aug 05 09:04:39 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	448960	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	445120	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	240512	25.0000	ppb	0.00

System Monitoring Compounds

40) Dibromofluoromethane(S)	4.62	111	235039	23.1046	ppb	0.00
Spiked Amount 25.000			Recovery	=	92.420%	
45) 1,2-DCA-D4(S)	5.05	65	261880	23.1321	ppb	0.00
Spiked Amount 25.000			Recovery	=	92.528%	
66) Toluene-D8(S)	7.32	98	781179	22.4164	ppb	0.00
Spiked Amount 25.000			Recovery	=	89.664%	
74) 4-Bromofluorobenzene(S)	9.98	174	315263	21.7087	ppb	0.00
Spiked Amount 25.000			Recovery	=	86.836%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chlorotrifluoroethene	0.85	116	92519	42.8874	ppb	100
3) Dichlorodifluoromethane	0.87	87	6564	4.4580	ppb	90
4) Freon 114	0.95	85	17415	5.0732	ppb	99
5) Chloromethane	0.98	50	42096	5.6472	ppb	97
6) Vinyl chloride	1.05	62	22522	5.1830	ppb	96
7) 2-Chloro-1,1,1-trifluoroet	1.11	118	1957623	40.8159	ppb	100
8) Bromomethane	1.25	94	9084	5.1874	ppb	89
9) Chloroethane	1.32	64	14332	5.4959	ppb	94
10) Dichlorofluoromethane	1.47	67	36499	5.4822	ppb	96
11) Trichlorofluoromethane	1.50	101	34346	5.4799	ppb	99
13) Acrolein	1.81	56	58642	100.1005	ppb	93
14) Acetone	1.94	43	10846	5.2702	ppb	94
15) Freon-113	1.90	101	9954	5.0590	ppb	92
16) 1,1-DCE	1.88	61	28521	5.2309	ppb	99
17) 2-Propanol	2.10	45	12707	43.1392	ppb	95
18) Acetonitrile	2.17	41	57733	102.3845	ppb	99
19) t-Butanol	2.49	59	25624	115.2508	ppb	95
20) Methyl Acetate	2.24	43	19615	5.1335	ppb	88
21) Iodomethane	1.99	142	5387	7.8179	ppb #	74
22) Acrylonitrile	2.56	53	10878	5.8894	ppb #	84
23) Methylene chloride	2.31	49	27137	5.2132	ppb	89
24) Carbon disulfide	2.04	76	46975	5.1153	ppb #	95
25) Methyl t-butyl ether (MtBE)	2.61	73	64282	5.4368	ppb	96
26) Trans-1,2-DCE	2.58	61	27515	5.4361	ppb	97
28) Diisopropyl Ether	3.22	45	22541	5.3362	ppb	97
30) 1,1-DCA	3.05	63	17408	5.3512	ppb	92
31) Vinyl Acetate	3.22	87	17214	5.1510	ppb	99
32) Ethyl tert Butyl Ether	3.73	59	53838	5.1432	ppb	95
33) MEK (2-Butanone)	3.94	43	9683	14.3373	ppb #	79
34) Cis-1,2-DCE	3.86	61	36085	5.4649	ppb	95
35) 2,2-Dichloropropane	3.83	77	9906	4.8865	ppb #	88
38) Chloroform	4.39	83	15943	5.0826	ppb	99
39) Bromochloromethane	4.22	130	6504	5.0772	ppb	91
41) 1,1,1-TCA	4.60	97	15137	5.5700	ppb	91
42) Cyclohexane	4.67	84	24098	5.3114	ppb	84
43) 1,1-Dichloropropene	4.84	75	26777	5.5500	ppb	91
44) 2,2,4-Trimethylpentane	5.29	57	18727	5.0098	ppb	93
46) Carbon Tetrachloride	4.83	119	22662	5.2076	ppb	87
47) Tert Amyl Methyl Ether	5.35	73	51854	5.1148	ppb	94

(#) = qualifier out of range (m) = manual integration

Data File : M:\THOR\DATA\T190802\0802T07.D
 Acq On : 2 Aug 19 13:00
 Sample : 5.0ug/L VOC STD 08/02/19
 Misc : IS&S 7/5/19,6/5/19

Vial: 7
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Aug 5 9:04 2019

Quant Results File: T0802W.RES

Quant Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Aug 05 09:04:39 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) 1,2-DCA	5.15	62	15837	5.1977	ppb	96
50) Benzene	5.11	78	80612	5.2701	ppb	97
51) TCE	5.95	130	26769	5.3696	ppb	95
52) 2-Pentanone	6.23	43	294644	104.1862	ppb	99
53) 1,2-Dichloropropane	6.20	63	21720	5.4813	ppb #	92
54) Bromodichloromethane	6.55	83	30531	5.6700	ppb #	99
55) Methyl Cyclohexane	6.16	83	25204	4.8976	ppb	90
56) Dibromomethane	6.33	174	11511	5.1642	ppb	97
57) MIBK (methyl isobutyl ket	7.26	43	19555	4.9693	ppb	97
58) 1-Bromo-2-chloroethane	6.85	63	28194	5.1971	ppb	97
59) 2-Chloroethyl vinyl ether	6.85	107	1150	15.5811	ppb	98
60) Cis-1,3-Dichloropropene	7.05	75	31431	5.1351	ppb	97
61) Toluene	7.39	91	89946	5.4581	ppb	100
62) Trans-1,3-Dichloropropene	7.66	75	18080	4.9793	ppb	90
63) 1,1,2-TCA	7.83	97	20984	5.3001	ppb	94
64) 2-Hexanone	8.14	43	8097	5.3891	ppb	93
67) 1,2-EDB	8.30	107	15159	5.6030	ppb	93
68) Tetrachloroethene	7.95	166	39591	5.5764	ppb	97
69) 1-Chlorohexane	8.85	91	22309	5.3315	ppb	97
70) 1,1,1,2-Tetrachloroethane	8.92	131	23290	5.0372	ppb	96
71) m&p-Xylene	9.08	91	85101	9.9753	ppb	94
72) o-Xylene	9.47	91	71601	5.0732	ppb	97
73) Styrene	9.48	104	51367	5.1452	ppb	95
75) 1,3-Dichloropropane	8.00	76	33966	5.1343	ppb	99
76) Dibromochloromethane	8.21	129	25680	5.2911	ppb	93
77) Chlorobenzene	8.82	112	38616	5.2235	ppb	99
78) Ethylbenzene	8.96	91	94252	5.2885	ppb	98
79) Bromoform	9.63	173	12971	5.0689	ppb	97
81) Isopropylbenzene	9.85	105	90288	5.6992	ppb	98
82) 1,1,2,2-Tetrachloroethane	10.15	83	29119	5.4631	ppb #	97
83) 1,2,3-Trichloropropane	10.17	110	9694	5.5035	ppb	95
84) t-1,4-Dichloro-2-Butene	10.21	53	3330	3.9385	ppb	84
85) Bromobenzene	10.10	77	23360	5.7065	ppb	99
86) n-Propylbenzene	10.26	91	94688	5.5321	ppb	92
87) 4-Ethyltoluene	10.37	105	68661	5.2101	ppb	98
88) 2-Chlorotoluene	10.31	91	40702	5.5640	ppb	97
89) 1,3,5-Trimethylbenzene	10.44	105	69368	5.3294	ppb	97
90) 4-Chlorotoluene	10.42	91	41224	5.3970	ppb	96
91) Tert-Butylbenzene	10.75	119	66386	5.6006	ppb	100
92) 1,2,4-Trimethylbenzene	10.80	105	61467	5.1035	ppb	95
93) Sec-Butylbenzene	10.97	105	84882	5.5337	ppb	97
94) p-Isopropyltoluene	11.12	119	66221	5.0731	ppb	99
95) Benzyl Chloride	11.28	91	16014	5.6090	ppb	96
96) 1,3-DCB	11.04	146	32448	5.5109	ppb	97
97) 1,4-DCB	11.14	146	49185	5.3656	ppb	98
98) n-Butylbenzene	11.53	91	55392	5.2602	ppb	97
99) 1,2-DCB	11.49	146	32688	5.3774	ppb	98
100) Hexachloroethane	11.74	117	4878	5.9623	ppb	95
101) 1,2-Dibromo-3-chloropropan	12.26	157	6948	4.9729	ppb	92
102) 1,2,4-Trichlorobenzene	13.08	182	18896	4.8272	ppb	95
103) Hexachlorobutadiene	13.28	225	20847	5.5505	ppb	96
104) Naphthalene	13.31	128	38472	4.6271	ppb	95
105) 1,2,3-Trichlorobenzene	13.55	182	28748	5.0751	ppb	91

(#) = qualifier out of range (m) = manual integration

0802T07.D T0802W.M

Mon Aug 05 09:26:33 2019

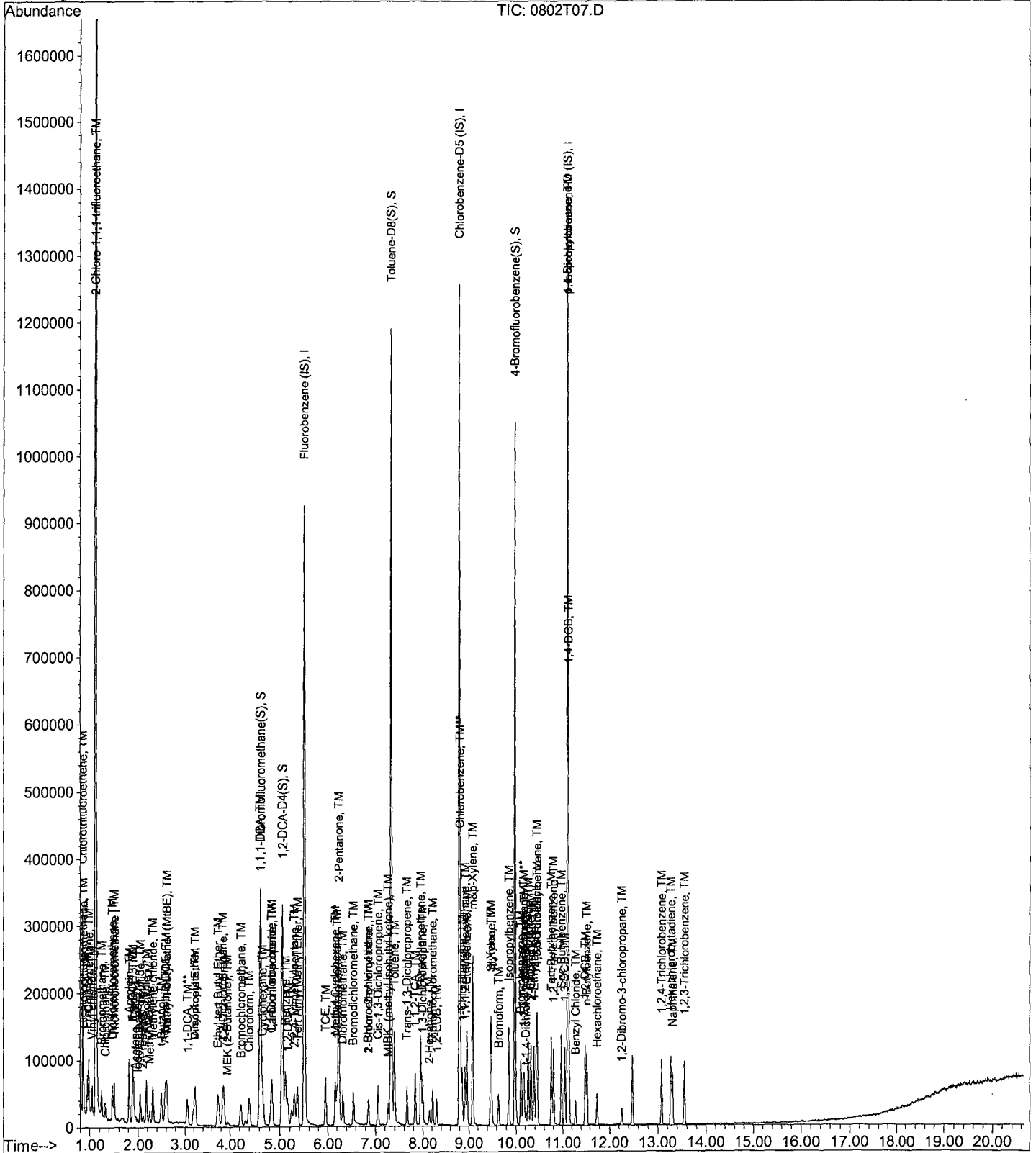
Data File : M:\THOR\DATA\T190802\0802T07.D
Acq On : 2 Aug 19 13:00
Sample : 5.0ug/L VOC STD 08/02/19
Misc : IS&S 7/5/19,6/5/19

Vial: 7
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Aug 5 9:04 2019

Quant Results File: T0802W.RES

Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Aug 05 09:07:45 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190802\0802T08.D
 Acq On : 2 Aug 19 13:29
 Sample : 10ug/L VOC STD 08/02/19
 Misc : IS&S 7/5/19,6/5/19

Vial: 8
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Aug 5 9:04 2019

Quant Results File: T0802W.RES

Quant Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Aug 05 09:04:39 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	451904	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	438400	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	249408	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Dibromofluoromethane(S)	4.62	111	241348	23.6645	ppb	0.00
Spiked Amount 25.000			Recovery =	94.656%		
45) 1,2-DCA-D4(S)	5.05	65	267277	23.5244	ppb	0.00
Spiked Amount 25.000			Recovery =	94.096%		
66) Toluene-D8(S)	7.32	98	799176	23.4316	ppb	0.00
Spiked Amount 25.000			Recovery =	93.728%		
74) 4-Bromofluorobenzene(S)	9.98	174	318176	22.2868	ppb	0.00
Spiked Amount 25.000			Recovery =	89.148%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chlorotrifluoroethene	0.85	116	233683	107.6185	ppb	100
3) Dichlorodifluoromethane	0.87	87	15238	10.5094	ppb	100
4) Freon 114	0.95	85	37216	10.7709	ppb	100
5) Chloromethane	0.98	50	78436	11.0056	ppb	100
6) Vinyl chloride	1.05	62	46178	10.5576	ppb	100
7) 2-Chloro-1,1,1-trifluoroet	1.11	118	505094	104.6247	ppb	100
8) Bromomethane	1.24	94	16969	10.9860	ppb	100
9) Chloroethane	1.31	64	26851	10.9128	ppb	100
10) Dichlorofluoromethane	1.47	67	71326	10.6434	ppb	100
11) Trichlorofluoromethane	1.50	101	66639	10.5630	ppb	100
13) Acrolein	1.81	56	74984	127.1621	ppb	100
14) Acetone	1.94	43	19055	11.5969	ppb	100
15) Freon-113	1.90	101	20888	10.5469	ppb	100
16) 1,1-DCE	1.88	61	58041	10.5757	ppb	100
17) 2-Propanol	2.11	45	29417	99.2895	ppb	100
18) Acetonitrile	2.17	41	68011	119.8259	ppb	100
19) t-Butanol	2.50	59	25991	116.1399	ppb	99
20) Methyl Acetate	2.24	43	34272	9.5452	ppb	100
21) Iodomethane	1.99	142	6649	9.0329	ppb	100
22) Acrylonitrile	2.56	53	19161	10.6792	ppb	100
23) Methylene chloride	2.31	49	55411	10.5754	ppb	100
24) Carbon disulfide	2.04	76	96762	10.4682	ppb	100
25) Methyl t-butyl ether (MtBE)	2.61	73	123192	10.3514	ppb	100
26) Trans-1,2-DCE	2.58	61	55705	10.9338	ppb	100
28) Diisopropyl Ether	3.22	45	45456	10.6909	ppb	100
30) 1,1-DCA	3.05	63	35416	10.8158	ppb	100
31) Vinyl Acetate	3.22	87	35012	10.4084	ppb	100
32) Ethyl tert Butyl Ether	3.74	59	111365	10.5694	ppb	100
33) MEK (2-Butanone)	3.95	43	21899	32.6252	ppb	100
34) Cis-1,2-DCE	3.85	61	69812	10.5039	ppb	100
35) 2,2-Dichloropropane	3.84	77	22536	11.2666	ppb	100
38) Chloroform	4.39	83	33520	10.7630	ppb	100
39) Bromochloromethane	4.22	130	13781	10.6877	ppb	100
41) 1,1,1-TCA	4.60	97	27840	10.3382	ppb	100
42) Cyclohexane	4.66	84	45458	9.9541	ppb	100
43) 1,1-Dichloropropene	4.85	75	51976	10.7027	ppb	100
44) 2,2,4-Trimethylpentane	5.29	57	39600	10.5247	ppb	100
46) Carbon Tetrachloride	4.83	119	49087	10.0325	ppb	100
47) Tert Amyl Methyl Ether	5.35	73	108127	10.5960	ppb	100

(#) = qualifier out of range (m) = manual integration
 0802T08.D T0802W.M Mon Aug 05 09:26:37 2019

Data File : M:\THOR\DATA\T190802\0802T08.D
 Acq On : 2 Aug 19 13:29
 Sample : 10ug/L VOC STD 08/02/19
 Misc : IS&S 7/5/19,6/5/19

Vial: 8
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Aug 5 9:04 2019

Quant Results File: T0802W.RES

Quant Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Aug 05 09:04:39 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) 1,2-DCA	5.15	62	33464	10.9113	ppb	100
50) Benzene	5.11	78	166960	10.8441	ppb	100
51) TCE	5.95	130	50240	10.4551	ppb	100
52) 2-Pentanone	6.23	43	373931	131.3608	ppb	100
53) 1,2-Dichloropropane	6.20	63	41668	10.4469	ppb	100
54) Bromodichloromethane	6.55	83	61815	11.4050	ppb	100
55) Methyl Cyclohexane	6.16	83	54159	10.4556	ppb	100
56) Dibromomethane	6.32	174	23248	10.3618	ppb	100
57) MIBK (methyl isobutyl ket	7.26	43	43418	10.9616	ppb	100
58) 1-Bromo-2-chloroethane	6.85	63	58465	10.7069	ppb	100
59) 2-Chloroethyl vinyl ether	6.86	107	2581	34.7417	ppb	100
60) Cis-1,3-Dichloropropene	7.05	75	66972	10.8704	ppb	100
61) Toluene	7.39	91	183237	11.0468	ppb	100
62) Trans-1,3-Dichloropropene	7.66	75	39400	10.7802	ppb	100
63) 1,1,2-TCA	7.83	97	44454	11.1549	ppb	100
64) 2-Hexanone	8.14	43	15368	10.1618	ppb	100
67) 1,2-EDB	8.30	107	29352	11.0153	ppb	100
68) Tetrachloroethene	7.95	166	78743	11.1764	ppb	100
69) 1-Chlorohexane	8.85	91	43133	10.4661	ppb	100
70) 1,1,1,2-Tetrachloroethane	8.92	131	48843	10.6972	ppb	100
71) m&p-Xylene	9.08	91	179587	21.3734	ppb	100
72) o-Xylene	9.47	91	150700	10.8412	ppb	100
73) Styrene	9.48	104	111376	10.1867	ppb	100
75) 1,3-Dichloropropane	7.99	76	74106	11.3736	ppb	100
76) Dibromochloromethane	8.21	129	50406	10.2441	ppb	100
77) Chlorobenzene	8.82	112	79200	10.8775	ppb	100
78) Ethylbenzene	8.96	91	192106	10.9442	ppb	100
79) Bromoform	9.64	173	24920	9.8878	ppb	100
81) Isopropylbenzene	9.85	105	178084	10.8402	ppb	100
82) 1,1,2,2-Tetrachloroethane	10.15	83	58840	10.6454	ppb	100
83) 1,2,3-Trichloropropane	10.17	110	19984	10.9407	ppb	100
84) t-1,4-Dichloro-2-Butene	10.21	53	8801	10.3318	ppb	100
85) Bromobenzene	10.10	77	48952	11.5317	ppb	100
86) n-Propylbenzene	10.26	91	187859	10.5841	ppb	100
87) 4-Ethyltoluene	10.37	105	148617	10.8751	ppb	100
88) 2-Chlorotoluene	10.31	91	86133	11.3546	ppb	100
89) 1,3,5-Trimethylbenzene	10.44	105	142223	10.5369	ppb	100
90) 4-Chlorotoluene	10.42	91	88200	11.1352	ppb	100
91) Tert-Butylbenzene	10.75	119	134449	10.9381	ppb	100
92) 1,2,4-Trimethylbenzene	10.80	105	133936	10.7239	ppb	100
93) Sec-Butylbenzene	10.97	105	171369	10.7736	ppb	100
94) p-Isopropyltoluene	11.12	119	141226	10.4332	ppb	100
95) Benzyl Chloride	11.28	91	28304	9.5600	ppb	100
96) 1,3-DCB	11.04	146	65864	10.7872	ppb	100
97) 1,4-DCB	11.13	146	103024	10.8380	ppb	100
98) n-Butylbenzene	11.53	91	111701	10.2291	ppb	100
99) 1,2-DCB	11.49	146	66376	10.5298	ppb	100
100) Hexachloroethane	11.74	117	9920	10.5399	ppb	100
101) 1,2-Dibromo-3-chloropropan	12.26	157	15272	10.9156	ppb	100
102) 1,2,4-Trichlorobenzene	13.08	182	46144	11.1261	ppb	100
103) Hexachlorobutadiene	13.28	225	42334	10.6500	ppb	100
104) Naphthalene	13.31	128	82656	9.3799	ppb	100
105) 1,2,3-Trichlorobenzene	13.55	182	63435	10.7991	ppb	100

(#) = qualifier out of range (m) = manual integration
 0802T08.D T0802W.M Mon Aug 05 09:26:38 2019

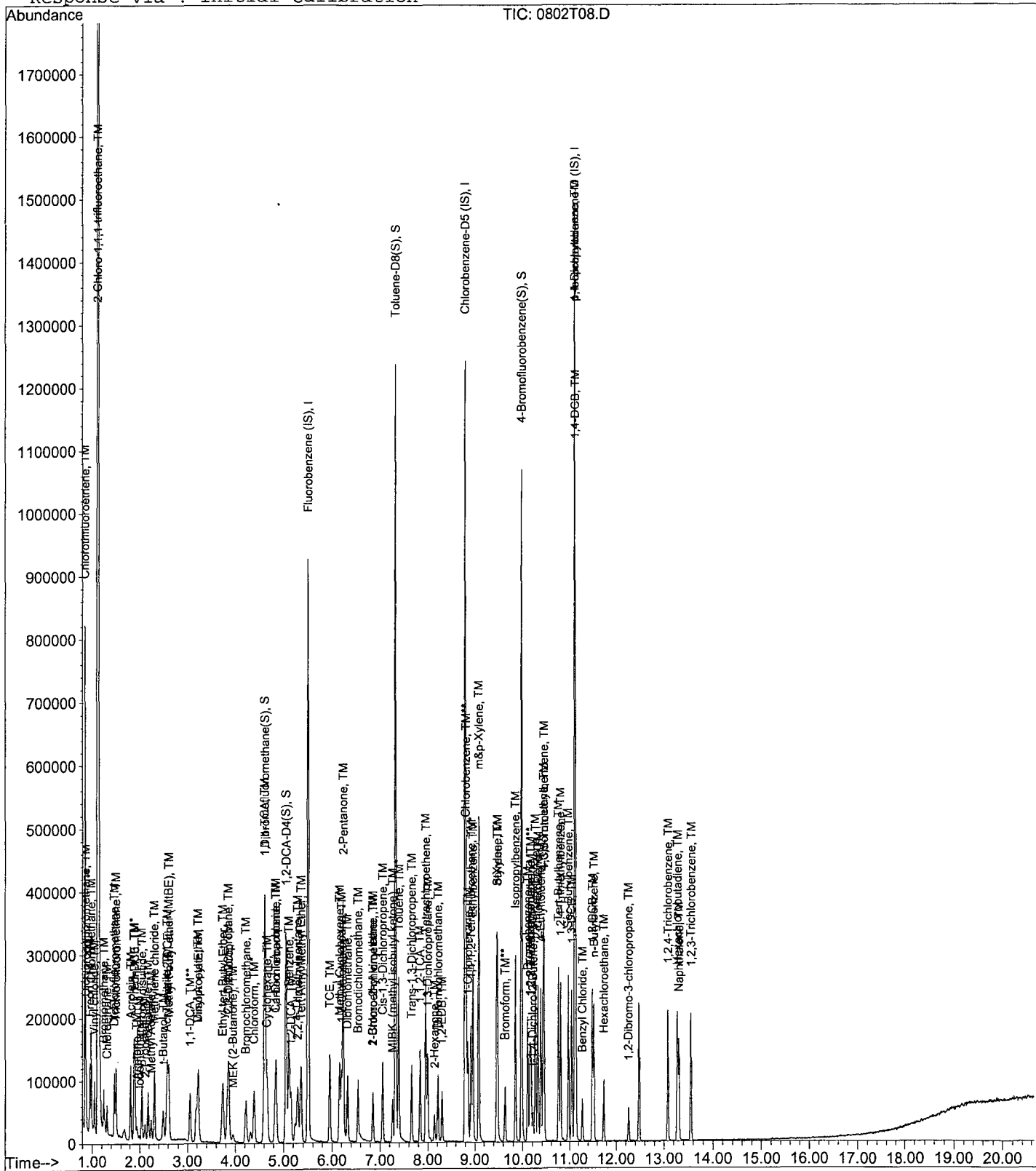
Data File : M:\THOR\DATA\T190802\0802T08.D
Acq On : 2 Aug 19 13:29
Sample : 10ug/L VOC STD 08/02/19
Misc : IS&S 7/5/19,6/5/19

Vial: 8
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Aug 5 9:04 2019

Quant Results File: T0802W.RES

Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Aug 05 09:07:45 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190802\0802T09.D
 Acq On : 2 Aug 19 13:57
 Sample : 20ug/L VOC STD 08/02/19
 Misc : IS&S 7/5/19,6/5/19

Vial: 9
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Aug 5 9:05 2019

Quant Results File: T0802W.RES

Quant Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Aug 05 09:04:39 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	447360	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	420544	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	258688	25.0000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	482313	52.5338	ppb	0.00
Spiked Amount	25.000		Recovery	=	210.136%	
45) 1,2-DCA-D4(S)	5.05	65	537710	52.9372	ppb	0.00
Spiked Amount	25.000		Recovery	=	211.748%	
66) Toluene-D8(S)	7.32	98	1592393	52.7656	ppb	0.00
Spiked Amount	25.000		Recovery	=	211.064%	
74) 4-Bromofluorobenzene(S)	9.98	174	654331	49.7077	ppb	0.00
Spiked Amount	25.000		Recovery	=	198.832%	
Target Compounds						Qvalue
2) Chlorotrifluoroethene	0.85	116	266558	124.0054	ppb	99
3) Dichlorodifluoromethane	0.87	87	27079	19.0042	ppb	92
4) Freon 114	0.95	85	65219	19.0671	ppb	99
5) Chloromethane	0.98	50	139550	20.2966	ppb	96
6) Vinyl chloride	1.05	62	82058	18.9514	ppb	97
7) 2-Chloro-1,1,1-trifluoroet	1.11	118	5877794	122.9886	ppb	99
8) Bromomethane	1.24	94	28113	19.4551	ppb	91
9) Chloroethane	1.31	64	45733	19.3472	ppb	97
10) Dichlorofluoromethane	1.47	67	127825	19.2680	ppb	99
11) Trichlorofluoromethane	1.49	101	124813	19.9851	ppb	93
13) Acrolein	1.81	56	88835	152.1816	ppb	99
14) Acetone	1.94	43	29419	19.8867	ppb	99
15) Freon-113	1.90	101	36312	18.5212	ppb	93
16) 1,1-DCE	1.88	61	104919	19.3115	ppb	99
17) 2-Propanol	2.12	45	33203	113.2142	ppb	92
18) Acetonitrile	2.18	41	82715	147.2125	ppb	98
19) t-Butanol	2.51	59	27144	122.5241	ppb	98
20) Methyl Acetate	2.24	43	69381	20.4206	ppb	98
21) Iodomethane	1.99	142	12640	15.0942	ppb	93
22) Acrylonitrile	2.56	53	33769	19.3999	ppb	94
23) Methylene chloride	2.31	49	94443	18.2079	ppb	99
24) Carbon disulfide	2.04	76	172290	18.8284	ppb	96
25) Methyl t-butyl ether (MtBE)	2.61	73	236056	20.0364	ppb	98
26) Trans-1,2-DCE	2.58	61	99021	19.6333	ppb	99
28) Diisopropyl Ether	3.22	45	79928	18.9894	ppb	97
30) 1,1-DCA	3.05	63	64720	19.9658	ppb	96
31) Vinyl Acetate	3.22	87	64484	19.3646	ppb	97
32) Ethyl tert Butyl Ether	3.74	59	206515	19.7990	ppb	95
33) MEK (2-Butanone)	3.94	43	37525	56.7139	ppb	98
34) Cis-1,2-DCE	3.85	61	125707	19.1059	ppb	96
35) 2,2-Dichloropropane	3.84	77	39952	20.3158	ppb	90
38) Chloroform	4.39	83	60720	19.8064	ppb	98
39) Bromochloromethane	4.22	130	25496	19.9741	ppb	96
41) 1,1,1-TCA	4.60	97	54664	20.6962	ppb	99
42) Cyclohexane	4.66	84	88744	19.6299	ppb	93
43) 1,1-Dichloropropene	4.85	75	97931	20.3704	ppb	89
44) 2,2,4-Trimethylpentane	5.29	57	72400	19.4376	ppb	97
46) Carbon Tetrachloride	4.83	119	96639	18.9442	ppb	93
47) Tert Amyl Methyl Ether	5.35	73	202033	19.9996	ppb	95

(#) = qualifier out of range (m) = manual integration
 0802T09.D T0802W.M Mon Aug 05 09:26:41 2019

Data File : M:\THOR\DATA\T190802\0802T09.D
 Acq On : 2 Aug 19 13:57
 Sample : 20ug/L VOC STD 08/02/19
 Misc : IS&S 7/5/19,6/5/19

Vial: 9
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Aug 5 9:05 2019

Quant Results File: T0802W.RES

Quant Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Aug 05 09:04:39 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) 1,2-DCA	5.15	62	59713	19.6678	ppb	98
50) Benzene	5.11	78	304404	19.9720	ppb	99
51) TCE	5.95	130	93648	20.1389	ppb	97
52) 2-Pentanone	6.23	43	439246	155.8731	ppb	100
53) 1,2-Dichloropropane	6.20	63	77455	19.6166	ppb	97
54) Bromodichloromethane	6.55	83	108918	20.2997	ppb	95
55) Methyl Cyclohexane	6.16	83	100904	19.6778	ppb	93
56) Dibromomethane	6.32	174	47272	21.2834	ppb	93
57) MIBK (methyl isobutyl ket	7.26	43	78445	20.0059	ppb	94
58) 1-Bromo-2-chloroethane	6.85	63	103444	19.1364	ppb	98
59) 2-Chloroethyl vinyl ether	6.85	107	3806	51.7512	ppb	93
60) Cis-1,3-Dichloropropene	7.05	75	123182	20.1971	ppb	95
61) Toluene	7.39	91	326481	19.8824	ppb	100
62) Trans-1,3-Dichloropropene	7.66	75	74712	20.6495	ppb	98
63) 1,1,2-TCA	7.83	97	80251	20.3420	ppb	97
64) 2-Hexanone	8.14	43	29224	19.5201	ppb	98
67) 1,2-EDB	8.30	107	51304	20.0709	ppb	95
68) Tetrachloroethene	7.95	166	142801	21.0551	ppb	93
69) 1-Chlorohexane	8.85	91	75440	19.0826	ppb	98
70) 1,1,1,2-Tetrachloroethane	8.92	131	86772	19.7894	ppb	99
71) m&p-Xylene	9.08	91	339817	42.1601	ppb	100
72) o-Xylene	9.47	91	280341	21.0238	ppb	97
73) Styrene	9.48	104	211078	19.1995	ppb	95
75) 1,3-Dichloropropane	7.99	76	131895	21.1025	ppb	99
76) Dibromochloromethane	8.21	129	96574	20.1582	ppb	97
77) Chlorobenzene	8.82	112	142528	20.4063	ppb	98
78) Ethylbenzene	8.96	91	346637	20.5863	ppb	98
79) Bromoform	9.64	173	47224	19.5332	ppb	93
81) Isopropylbenzene	9.85	105	340025	19.9553	ppb	99
82) 1,1,2,2-Tetrachloroethane	10.15	83	113818	19.8534	ppb	96
83) 1,2,3-Trichloropropane	10.17	110	37472	19.7790	ppb	96
84) t-1,4-Dichloro-2-Butene	10.21	53	17865	20.4018	ppb	88
85) Bromobenzene	10.10	77	91456	20.7716	ppb	97
86) n-Propylbenzene	10.26	91	369583	20.0755	ppb	98
87) 4-Ethyltoluene	10.37	105	287337	20.2717	ppb	100
88) 2-Chlorotoluene	10.31	91	159293	20.2457	ppb	98
89) 1,3,5-Trimethylbenzene	10.44	105	279354	19.9541	ppb	100
90) 4-Chlorotoluene	10.42	91	170418	20.7434	ppb	97
91) Tert-Butylbenzene	10.75	119	252862	19.8337	ppb	98
92) 1,2,4-Trimethylbenzene	10.80	105	257102	19.8470	ppb	98
93) Sec-Butylbenzene	10.97	105	339966	20.6061	ppb	99
94) p-Isopropyltoluene	11.12	119	280290	19.9639	ppb	99
95) Benzyl Chloride	11.28	91	62648	20.4009	ppb	94
96) 1,3-DCB	11.04	146	131056	20.6943	ppb	99
97) 1,4-DCB	11.13	146	195483	19.8268	ppb	100
98) n-Butylbenzene	11.53	91	215664	19.0412	ppb	97
99) 1,2-DCB	11.49	146	129408	19.7926	ppb	98
100) Hexachloroethane	11.74	117	19952	19.3121	ppb	98
101) 1,2-Dibromo-3-chloropropan	12.26	157	29638	20.7154	ppb	88
102) 1,2,4-Trichlorobenzene	13.08	182	81904	18.9133	ppb	90
103) Hexachlorobutadiene	13.28	225	80776	19.3996	ppb	90
104) Naphthalene	13.31	128	178048	19.2726	ppb	99
105) 1,2,3-Trichlorobenzene	13.55	182	123606	20.2877	ppb	92

(#) = qualifier out of range (m) = manual integration

0802T09.D T0802W.M Mon Aug 05 09:26:42 2019

Page 2

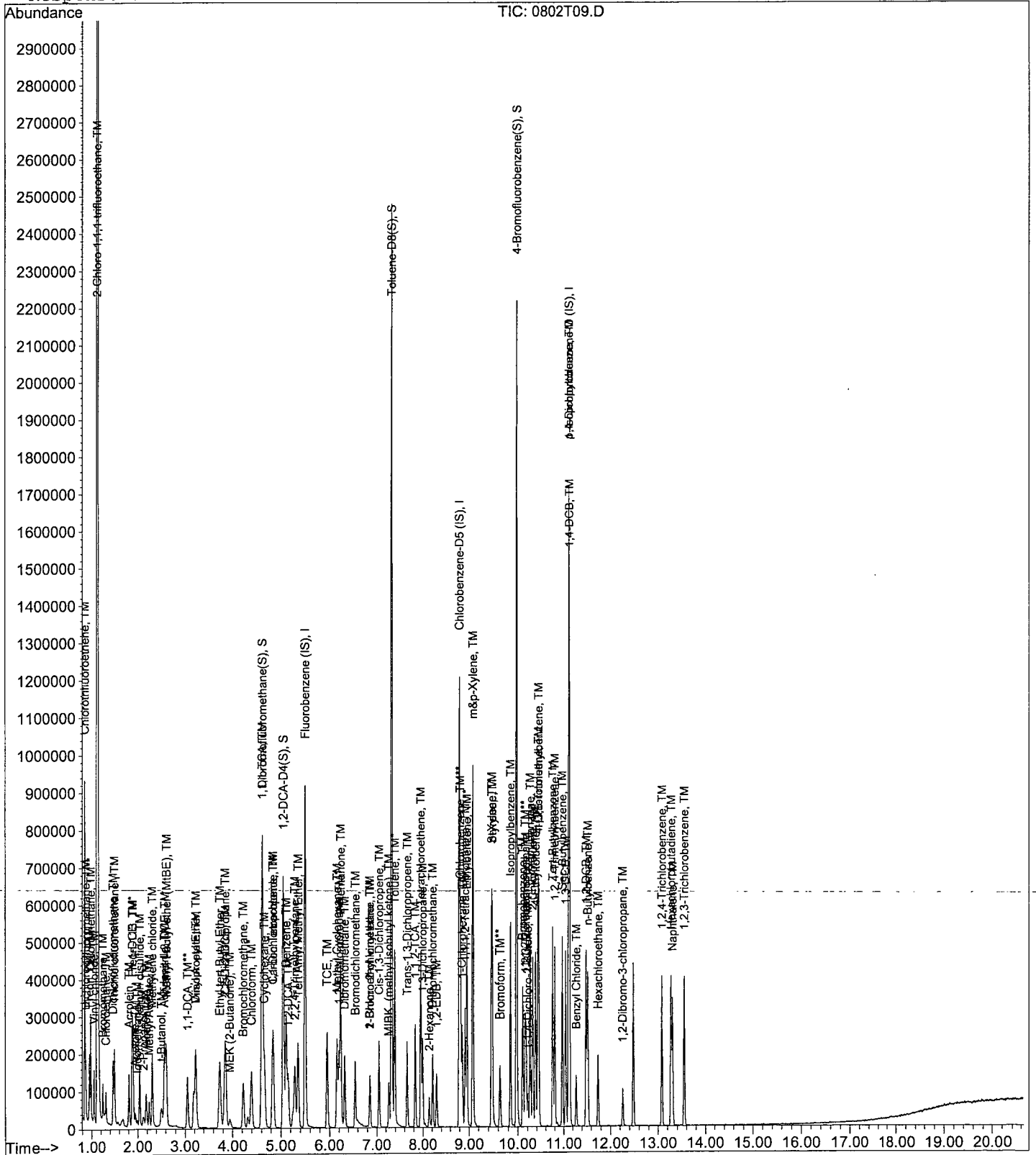
Data File : M:\THOR\DATA\T190802\0802T09.D
Acq On : 2 Aug 19 13:57
Sample : 20ug/L VOC STD 08/02/19
Misc : IS&S 7/5/19,6/5/19

Vial: 9
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Aug 5 9:05 2019

Quant Results File: T0802W.RES

Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Aug 05 09:07:45 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190802\0802T10.D Vial: 10
 Acq On : 2 Aug 19 14:26 Operator:
 Sample : 40ug/L VOC STD 08/02/19 Inst : Thor
 Misc : IS&S 7/5/19,6/5/19 Multiplr: 1.00

Quant Time: Aug 5 9:05 2019 Quant Results File: T0802W.RES

Quant Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Aug 05 09:04:39 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.50	96	434816	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	416000	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	270016	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
40) Dibromofluoromethane(S)	4.62	111	478133	53.6741	ppb	0.00
Spiked Amount 25.000			Recovery =	214.696%		
45) 1,2-DCA-D4(S)	5.05	65	528432	53.5797	ppb	0.00
Spiked Amount 25.000			Recovery =	214.320%		
66) Toluene-D8(S)	7.32	98	1601538	53.7119	ppb	0.00
Spiked Amount 25.000			Recovery =	214.848%		
74) 4-Bromofluorobenzene(S)	9.98	174	691646	53.2319	ppb	0.00
Spiked Amount 25.000			Recovery =	212.928%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chlorotrifluoroethene	0.85	116	301691	144.3986	ppb	98
3) Dichlorodifluoromethane	0.87	87	55956	40.5996	ppb	94
4) Freon 114	0.95	85	125138	37.6402	ppb	95
5) Chloromethane	0.98	50	263986	40.1162	ppb	99
6) Vinyl chloride	1.05	62	161764	38.4374	ppb	100
7) 2-Chloro-1,1,1-trifluoroet	1.11	118	6589929	141.8675	ppb	100
8) Bromomethane	1.24	94	51817	38.3167	ppb	95
9) Chloroethane	1.31	64	68372	30.1860	ppb	94
10) Dichlorofluoromethane	1.46	67	239319	37.1150	ppb	99
11) Trichlorofluoromethane	1.49	101	238881	39.3533	ppb	90
13) Acrolein	1.81	56	99567	175.4871	ppb	100
14) Acetone	1.95	43	52680	39.3480	ppb	95
15) Freon-113	1.90	101	74584	39.1395	ppb	96
16) 1,1-DCE	1.88	61	202697	38.3850	ppb	99
17) 2-Propanol	2.14	45	43113	151.2645	ppb	100
18) Acetonitrile	2.18	41	99822	182.7841	ppb	99
19) t-Butanol	2.53	59	30040	139.5080	ppb	95
20) Methyl Acetate	2.24	43	134703	41.6500	ppb	98
21) Iodomethane	1.99	142	31583	34.9596	ppb	85
22) Acrylonitrile	2.56	53	66660	39.9126	ppb	94
23) Methylene chloride	2.31	49	181355	35.9725	ppb	98
24) Carbon disulfide	2.03	76	340973	38.3377	ppb	96
25) Methyl t-butyl ether (MtBE)	2.61	73	450332	39.3269	ppb	98
26) Trans-1,2-DCE	2.58	61	195168	39.8130	ppb	99
28) Diisopropyl Ether	3.22	45	159488	38.9844	ppb	98
30) 1,1-DCA	3.05	63	126168	40.0451	ppb	97
31) Vinyl Acetate	3.22	87	126303	39.0232	ppb	94
32) Ethyl tert Butyl Ether	3.74	59	403748	39.8248	ppb	98
33) MEK (2-Butanone)	3.95	43	71891	112.1083	ppb	99
34) Cis-1,2-DCE	3.85	61	237771	37.1807	ppb	99
35) 2,2-Dichloropropane	3.84	77	76432	40.1581	ppb	# 92
38) Chloroform	4.39	83	117192	39.4626	ppb	99
39) Bromochloromethane	4.22	130	49352	39.7787	ppb	91
41) 1,1,1-TCA	4.60	97	102368	40.0554	ppb	97
42) Cyclohexane	4.66	84	171421	39.0118	ppb	93
43) 1,1-Dichloropropene	4.84	75	193708	41.4551	ppb	86
44) 2,2,4-Trimethylpentane	5.29	57	138432	38.2377	ppb	98
46) Carbon Tetrachloride	4.83	119	199076	39.0100	ppb	94
47) Tert Amyl Methyl Ether	5.36	73	392818	40.0075	ppb	94

(#) = qualifier out of range (m) = manual integration

Data File : M:\THOR\DATA\T190802\0802T10.D
 Acq On : 2 Aug 19 14:26
 Sample : 40ug/L VOC STD 08/02/19
 Misc : IS&S 7/5/19,6/5/19

Vial: 10
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Aug 5 9:05 2019

Quant Results File: T0802W.RES

Quant Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Aug 05 09:04:39 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) 1,2-DCA	5.15	62	109616	37.1461	ppb	99
50) Benzene	5.11	78	571943	38.6078	ppb	99
51) TCE	5.95	130	180566	40.4549	ppb	98
52) 2-Pentanone	6.24	43	493182	180.0620	ppb	99
53) 1,2-Dichloropropane	6.20	63	146590	38.1972	ppb	97
54) Bromodichloromethane	6.54	83	216773	41.5667	ppb	99
55) Methyl Cyclohexane	6.16	83	201483	40.4257	ppb	91
56) Dibromomethane	6.32	174	83712	38.7773	ppb	96
57) MIBK (methyl isobutyl ket	7.26	43	147129	38.6048	ppb	98
58) 1-Bromo-2-chloroethane	6.85	63	204283	38.8812	ppb	98
59) 2-Chloroethyl vinyl ether	6.85	107	8552	119.6386	ppb #	65
60) Cis-1,3-Dichloropropene	7.05	75	240818	40.6240	ppb	97
61) Toluene	7.39	91	625387	39.1842	ppb	99
62) Trans-1,3-Dichloropropene	7.66	75	143168	40.7115	ppb	94
63) 1,1,2-TCA	7.83	97	150499	39.2489	ppb	98
64) 2-Hexanone	8.14	43	61464	42.2391	ppb	98
67) 1,2-EDB	8.30	107	104952	41.5074	ppb	93
68) Tetrachloroethene	7.95	166	268386	39.9294	ppb	95
69) 1-Chlorohexane	8.85	91	154522	39.5133	ppb	95
70) 1,1,1,2-Tetrachloroethane	8.92	131	172193	39.6742	ppb	93
71) m&p-Xylene	9.08	91	678151	85.0553	ppb	99
72) o-Xylene	9.46	91	544547	41.2837	ppb	96
73) Styrene	9.48	104	426785	38.2531	ppb	95
75) 1,3-Dichloropropane	7.99	76	246801	39.9181	ppb	93
76) Dibromochloromethane	8.21	129	186863	39.1410	ppb	96
77) Chlorobenzene	8.82	112	278592	40.3228	ppb	99
78) Ethylbenzene	8.96	91	685962	41.1834	ppb	99
79) Bromoform	9.64	173	100576	42.0555	ppb	96
81) Isopropylbenzene	9.85	105	680778	38.2772	ppb	99
82) 1,1,2,2-Tetrachloroethane	10.15	83	224567	37.5282	ppb	97
83) 1,2,3-Trichloropropane	10.17	110	74930	37.8913	ppb	97
84) t-1,4-Dichloro-2-Butene	10.21	53	37445	41.1594	ppb	92
85) Bromobenzene	10.10	77	171456	37.3075	ppb	95
86) n-Propylbenzene	10.26	91	742706	38.6507	ppb	97
87) 4-Ethyltoluene	10.37	105	606429	40.9888	ppb	99
88) 2-Chlorotoluene	10.31	91	326673	39.7773	ppb	98
89) 1,3,5-Trimethylbenzene	10.44	105	585103	40.0402	ppb	97
90) 4-Chlorotoluene	10.42	91	354314	41.3180	ppb	99
91) Tert-Butylbenzene	10.75	119	521381	39.1798	ppb	98
92) 1,2,4-Trimethylbenzene	10.80	105	541509	40.0482	ppb	99
93) Sec-Butylbenzene	10.97	105	702539	40.7961	ppb	99
94) p-Isopropyltoluene	11.12	119	590912	40.3226	ppb	99
95) Benzyl Chloride	11.28	91	131904	41.1516	ppb	97
96) 1,3-DCB	11.04	146	267648	40.4896	ppb	96
97) 1,4-DCB	11.13	146	396272	38.5056	ppb	98
98) n-Butylbenzene	11.53	91	444118	37.5665	ppb	96
99) 1,2-DCB	11.49	146	267264	39.1624	ppb	98
100) Hexachloroethane	11.74	117	38544	34.7222	ppb	96
101) 1,2-Dibromo-3-chloropropan	12.26	157	59018	39.8237	ppb	92
102) 1,2,4-Trichlorobenzene	13.08	182	181376	39.9264	ppb	95
103) Hexachlorobutadiene	13.28	225	173829	39.7532	ppb	98
104) Naphthalene	13.30	128	398208	41.0749	ppb	98
105) 1,2,3-Trichlorobenzene	13.55	182	262143	41.2210	ppb	96

(#) = qualifier out of range (m) = manual integration

0802T10.D T0802W.M Mon Aug 05 09:26:46 2019

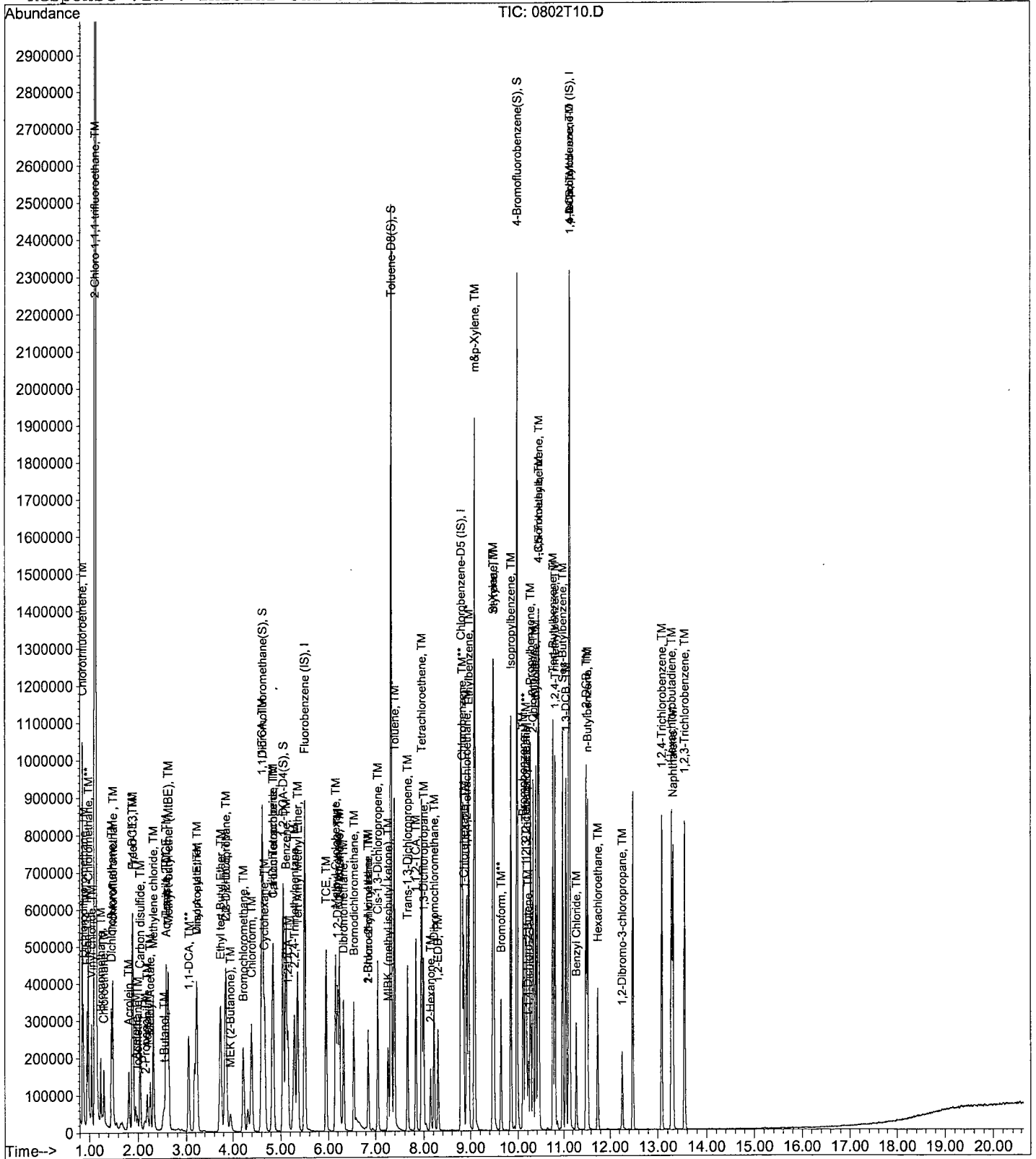
Data File : M:\THOR\DATA\T190802\0802T10.D
Acq On : 2 Aug 19 14:26
Sample : 40ug/L VOC STD 08/02/19
Misc : IS&S 7/5/19,6/5/19

Vial: 10
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Aug 5 9:05 2019

Quant Results File: T0802W.RES

Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Aug 05 09:07:45 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190802\0802T11.D Vial: 11
 Acq On : 2 Aug 19 14:54 Operator:
 Sample : 100ug/L VOC STD 08/02/19 Inst : Thor
 Misc : IS&S 7/5/19,6/5/19 Multiplr: 1.00

Quant Time: Aug 5 9:05 2019 Quant Results File: T0802W.RES

Quant Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Aug 05 09:04:39 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	429120	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	407872	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	278336	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Dibromofluoromethane(S)	4.62	111	828490	97.7716	ppb	0.00
Spiked Amount 25.000			Recovery =	391.088%		
45) 1,2-DCA-D4(S)	5.05	65	914100	97.6555	ppb	0.00
Spiked Amount 25.000			Recovery =	390.620%		
66) Toluene-D8(S)	7.32	98	2775179	97.8449	ppb	0.00
Spiked Amount 25.000			Recovery =	391.380%		
74) 4-Bromofluorobenzene(S)	9.98	174	1254115	99.8775	ppb	0.00
Spiked Amount 25.000			Recovery =	399.512%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chlorotrifluoroethene	0.85	116	326050	158.1290	ppb	99
3) Dichlorodifluoromethane	0.87	87	135578	99.9298	ppb	89
4) Freon 114	0.95	85	305620	93.1474	ppb	97
5) Chloromethane	0.98	50	629189	97.8004	ppb	100
6) Vinyl chloride	1.05	62	393924	94.8444	ppb	100
7) 2-Chloro-1,1,1-trifluoroet	1.12	118	7063893	154.0895	ppb	99
8) Bromomethane	1.24	94	120843	92.7091	ppb	99
9) Chloroethane	1.31	64	155424	70.5640	ppb	94
10) Dichlorofluoromethane	1.46	67	591744	92.9894	ppb	100
11) Trichlorofluoromethane	1.48	101	594322	99.2082	ppb	93
13) Acrolein	1.82	56	111437	199.0151	ppb	97
14) Acetone	1.95	43	126247	100.1440	ppb	93
15) Freon-113	1.89	101	176000	93.5856	ppb	94
16) 1,1-DCE	1.88	61	501439	96.2187	ppb	97
17) 2-Propanol	2.18	45	39860	141.7040	ppb	98
18) Acetonitrile	2.19	41	120619	223.7972	ppb	97
19) t-Butanol	2.58	59	38640	181.8289	ppb	96
20) Methyl Acetate	2.25	43	313123	99.2707	ppb	96
21) Iodomethane	1.99	142	96316	102.9138	ppb	87
22) Acrylonitrile	2.57	53	163993	100.2363	ppb	96
23) Methylene chloride	2.31	49	440811	88.5973	ppb	98
24) Carbon disulfide	2.03	76	845349	96.3094	ppb	96
25) Methyl t-butyl ether (MtBE)	2.62	73	1082501	95.7881	ppb	98
26) Trans-1,2-DCE	2.58	61	468279	96.7939	ppb	98
28) Diisopropyl Ether	3.23	45	390848	96.8050	ppb	96
30) 1,1-DCA	3.05	63	301504	96.9662	ppb	97
31) Vinyl Acetate	3.23	87	303935	95.1517	ppb	97
32) Ethyl tert Butyl Ether	3.74	59	986102	98.5579	ppb	96
33) MEK (2-Butanone)	3.95	43	178050	281.8383	ppb	93
34) Cis-1,2-DCE	3.85	61	578701	91.6938	ppb	95
35) 2,2-Dichloropropane	3.84	77	184512	98.4863	ppb	92
38) Chloroform	4.39	83	292992	100.1764	ppb	97
39) Bromochloromethane	4.22	130	110896	90.5709	ppb	96
41) 1,1,1-TCA	4.60	97	247936	98.5844	ppb	98
42) Cyclohexane	4.66	84	447458	103.1836	ppb	93
43) 1,1-Dichloropropene	4.84	75	467909	101.4655	ppb	87
44) 2,2,4-Trimethylpentane	5.29	57	368448	103.1236	ppb	99
46) Carbon Tetrachloride	4.83	119	514898	100.5846	ppb	94
47) Tert Amyl Methyl Ether	5.36	73	968282	99.9261	ppb	92

(#) = qualifier out of range (m) = manual integration
 0802T11.D T0802W.M Mon Aug 05 09:26:50 2019

Data File : M:\THOR\DATA\T190802\0802T11.D
 Acq On : 2 Aug 19 14:54
 Sample : 100ug/L VOC STD 08/02/19
 Misc : IS&S 7/5/19,6/5/19

Vial: 11
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Aug 5 9:05 2019

Quant Results File: T0802W.RES

Quant Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Aug 05 09:04:39 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) 1,2-DCA	5.15	62	264905	90.9612	ppb	99
50) Benzene	5.11	78	1411284	96.5302	ppb	99
51) TCE	5.95	130	436064	99.7363	ppb	98
52) 2-Pentanone	6.24	43	566762	209.6730	ppb	98
53) 1,2-Dichloropropane	6.20	63	352401	93.0445	ppb	99
54) Bromodichloromethane	6.55	83	532122	103.3900	ppb	96
55) Methyl Cyclohexane	6.16	83	494086	100.4497	ppb	92
56) Dibromomethane	6.32	174	203776	95.6465	ppb	98
57) MIBK (methyl isobutyl ket	7.27	43	358586	95.3375	ppb	99
58) 1-Bromo-2-chloroethane	6.85	63	491468	94.7827	ppb	98
59) 2-Chloroethyl vinyl ether	6.85	107	19972	283.1078	ppb	96
60) Cis-1,3-Dichloropropene	7.05	75	600288	102.6077	ppb	99
61) Toluene	7.39	91	1518119	96.3818	ppb	99
62) Trans-1,3-Dichloropropene	7.66	75	368896	106.2924	ppb	95
63) 1,1,2-TCA	7.83	97	359646	95.0377	ppb	98
64) 2-Hexanone	8.14	43	150586	104.8590	ppb	99
67) 1,2-EDB	8.30	107	260800	105.1990	ppb	97
68) Tetrachloroethene	7.95	166	643292	97.4937	ppb	93
69) 1-Chlorohexane	8.85	91	396901	103.5154	ppb	95
70) 1,1,1,2-Tetrachloroethane	8.92	131	426142	100.1036	ppb	95
71) m&p-Xylene	9.08	91	1689348	216.1044	ppb	100
72) o-Xylene	9.47	91	1375237	106.3384	ppb	98
73) Styrene	9.48	104	1120306	100.8232	ppb	95
75) 1,3-Dichloropropane	7.99	76	602027	99.3135	ppb	94
76) Dibromochloromethane	8.21	129	471595	100.2736	ppb	96
77) Chlorobenzene	8.82	112	675392	99.7028	ppb	99
78) Ethylbenzene	8.96	91	1685860	103.2316	ppb	99
79) Bromoform	9.64	173	264000	112.5904	ppb	93
81) Isopropylbenzene	9.85	105	1717612	93.6871	ppb	98
82) 1,1,2,2-Tetrachloroethane	10.15	83	544011	88.1940	ppb	98
83) 1,2,3-Trichloropropane	10.17	110	180943	88.7657	ppb	94
84) t-1,4-Dichloro-2-Butene	10.21	53	93039	99.4788	ppb	96
85) Bromobenzene	10.10	77	457920	96.6615	ppb	98
86) n-Propylbenzene	10.26	91	1940136	97.9475	ppb	96
87) 4-Ethyltoluene	10.37	105	1598657	104.8240	ppb	99
88) 2-Chlorotoluene	10.31	91	794791	93.8848	ppb	97
89) 1,3,5-Trimethylbenzene	10.44	105	1508367	100.1361	ppb	99
90) 4-Chlorotoluene	10.42	91	884657	100.0797	ppb	98
91) Tert-Butylbenzene	10.75	119	1382511	100.7849	ppb	98
92) 1,2,4-Trimethylbenzene	10.80	105	1462580	104.9341	ppb	100
93) Sec-Butylbenzene	10.97	105	1875056	105.6288	ppb	100
94) p-Isopropyltoluene	11.13	119	1626117	107.6458	ppb	99
95) Benzyl Chloride	11.28	91	352677	106.7398	ppb	96
96) 1,3-DCB	11.04	146	680128	99.8138	ppb	99
97) 1,4-DCB	11.14	146	1009274	95.1393	ppb	99
98) n-Butylbenzene	11.53	91	1256568	103.1119	ppb	97
99) 1,2-DCB	11.49	146	677952	96.3712	ppb	99
100) Hexachloroethane	11.74	117	119624	102.1299	ppb	94
101) 1,2-Dibromo-3-chloropropan	12.26	157	151765	99.8461	ppb	94
102) 1,2,4-Trichlorobenzene	13.08	182	470208	100.1433	ppb	92
103) Hexachlorobutadiene	13.28	225	452910	100.1306	ppb	93
104) Naphthalene	13.31	128	1008768	100.6623	ppb	99
105) 1,2,3-Trichlorobenzene	13.55	182	671198	102.3886	ppb	94

(#) = qualifier out of range (m) = manual integration
 0802T11.D T0802W.M Mon Aug 05 09:26:50 2019

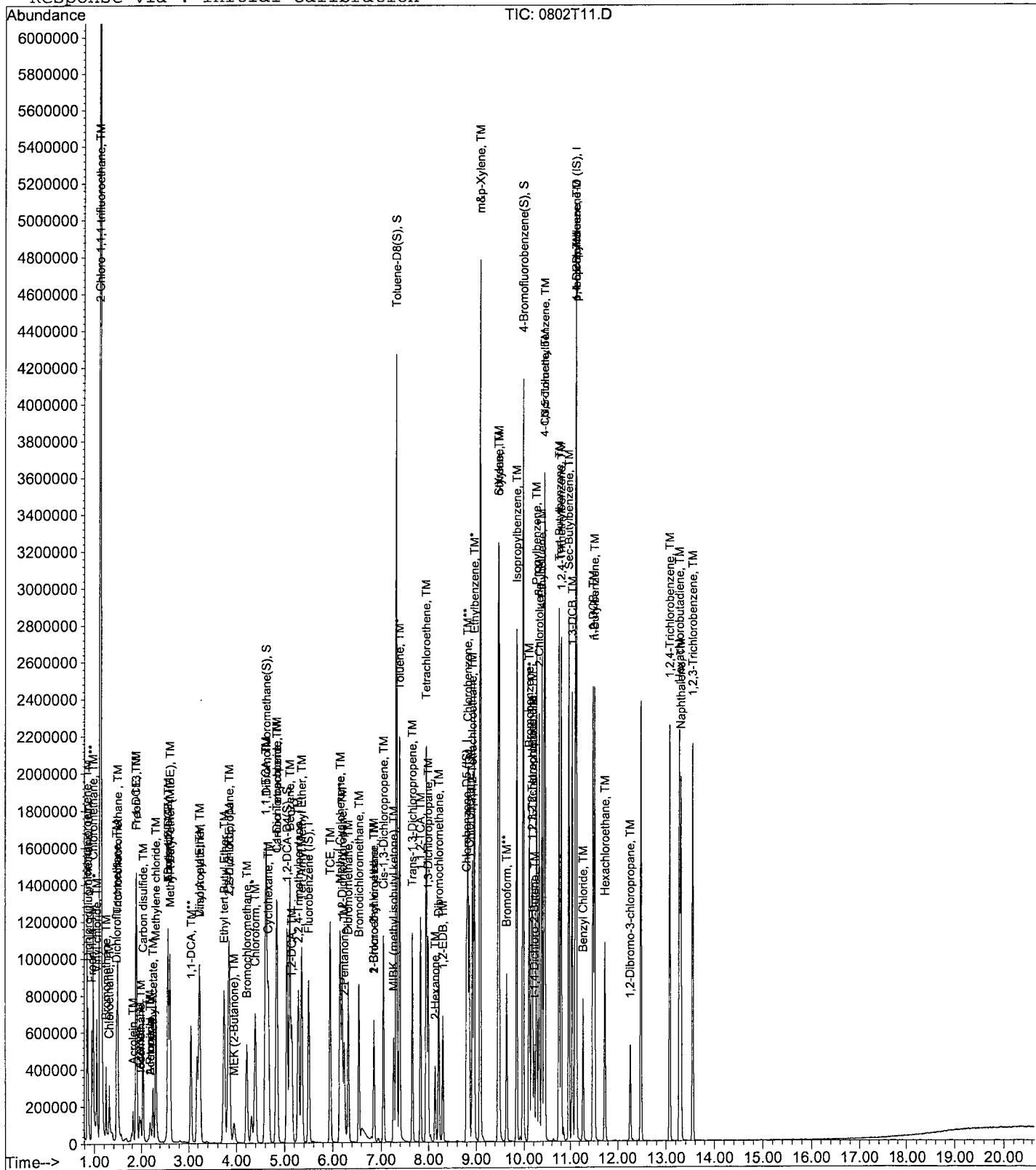
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Acq On : 2 Aug 19 14:54
Sample : 100ug/L VOC STD 08/02/19
Misc : IS&S 7/5/19,6/5/19

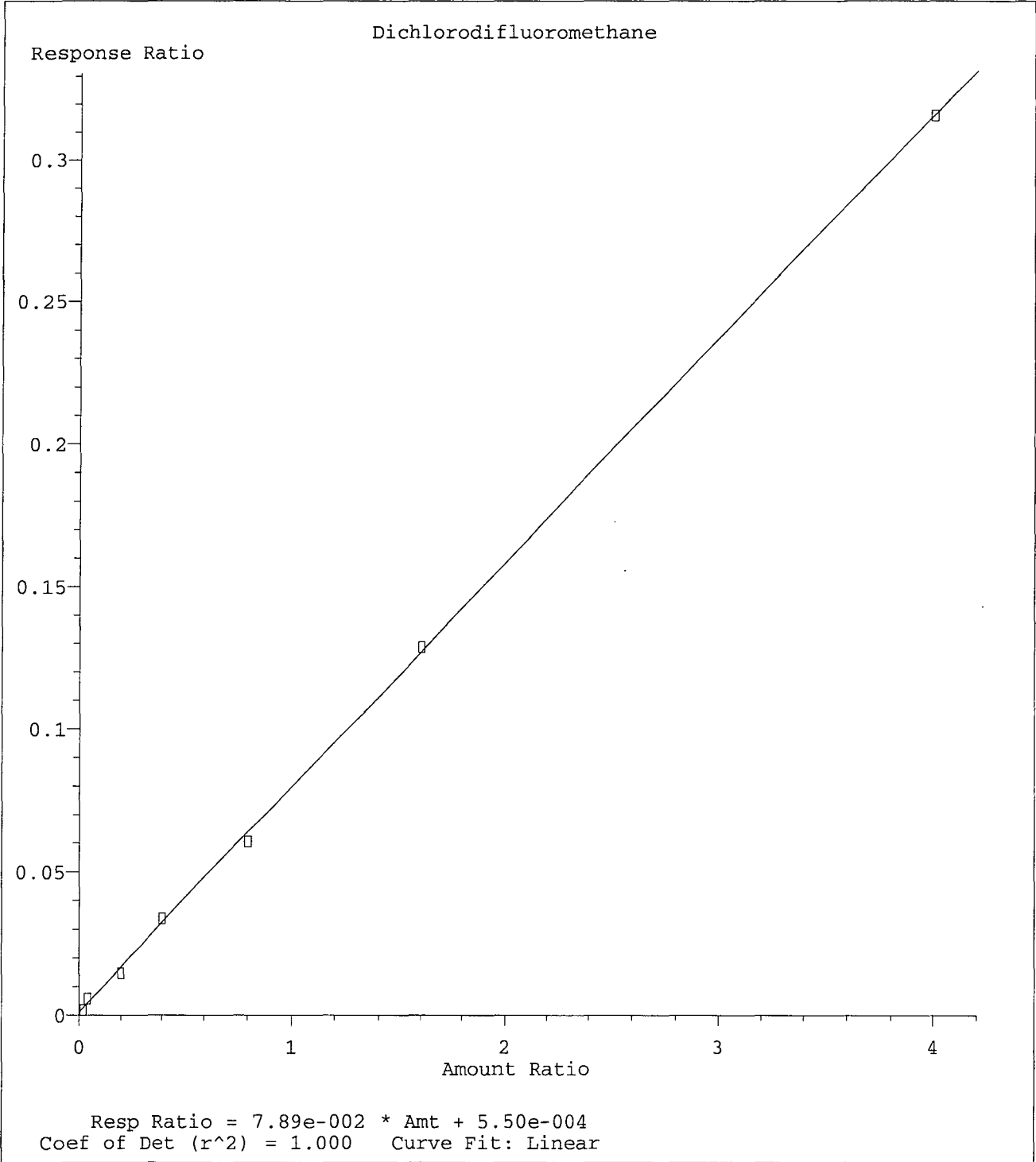
Vial: 11
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Aug 5 9:05 2019

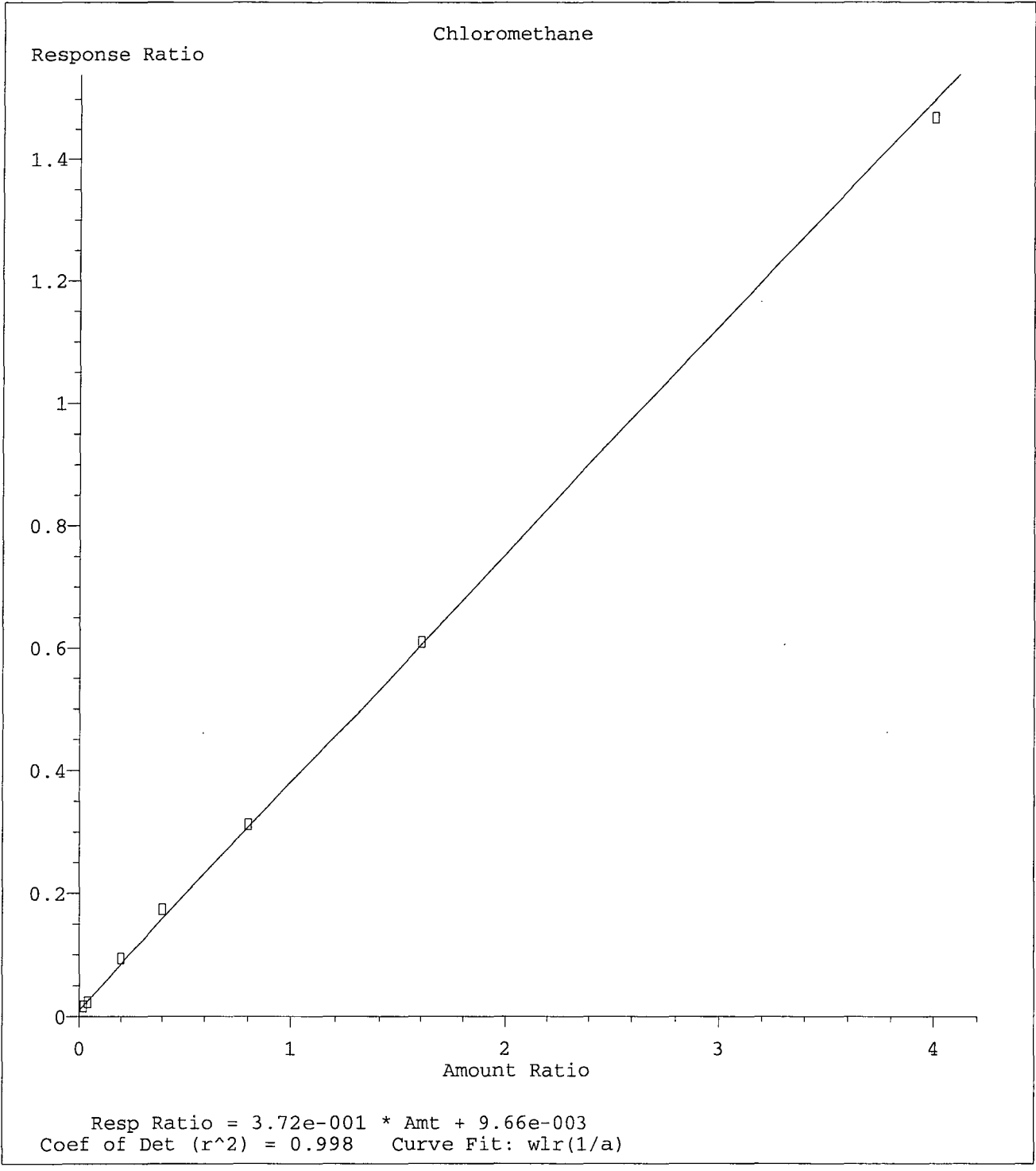
Quant Results File: T0802W.RES

Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Aug 05 09:07:45 2019
Response via : Initial Calibration

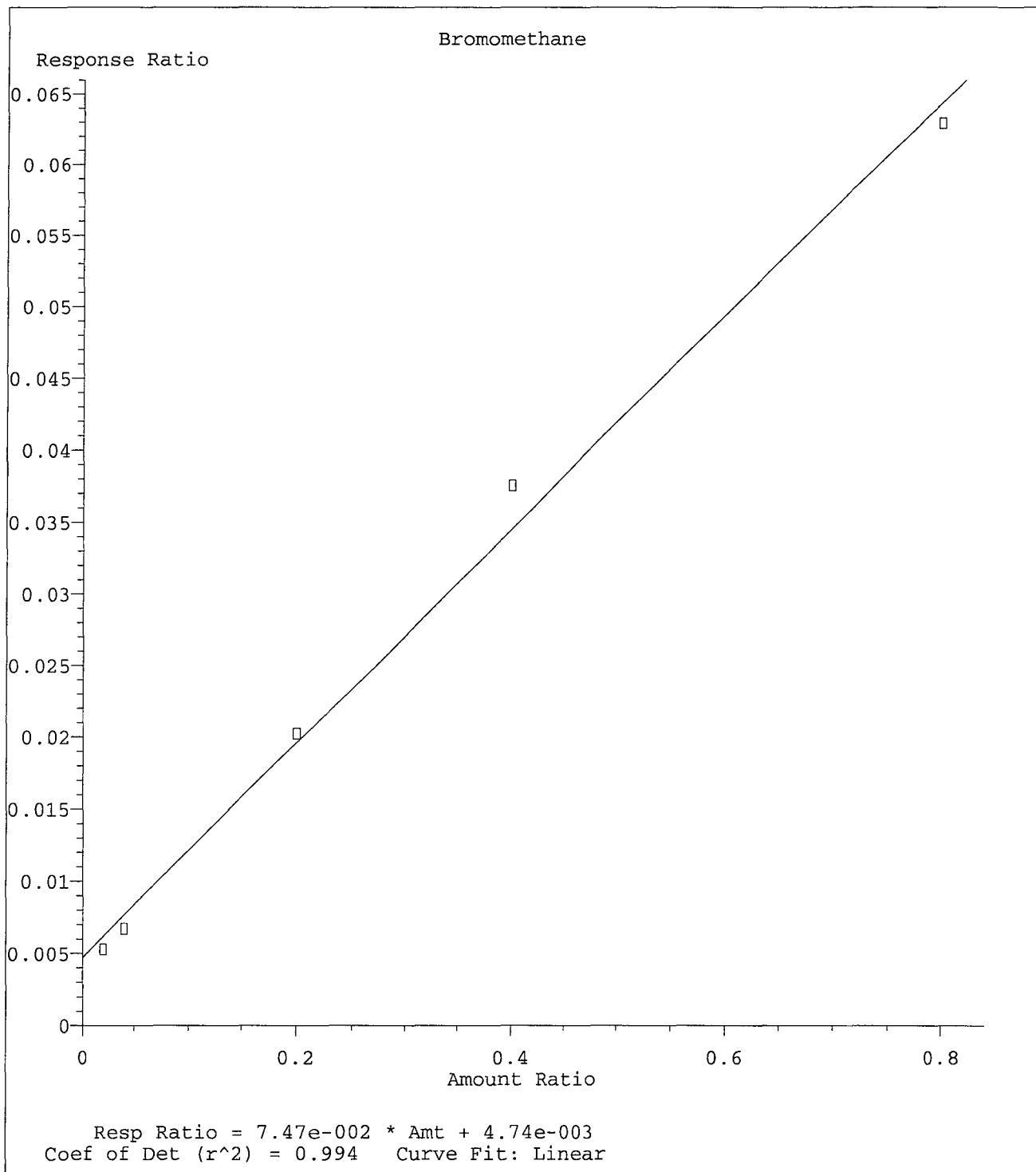




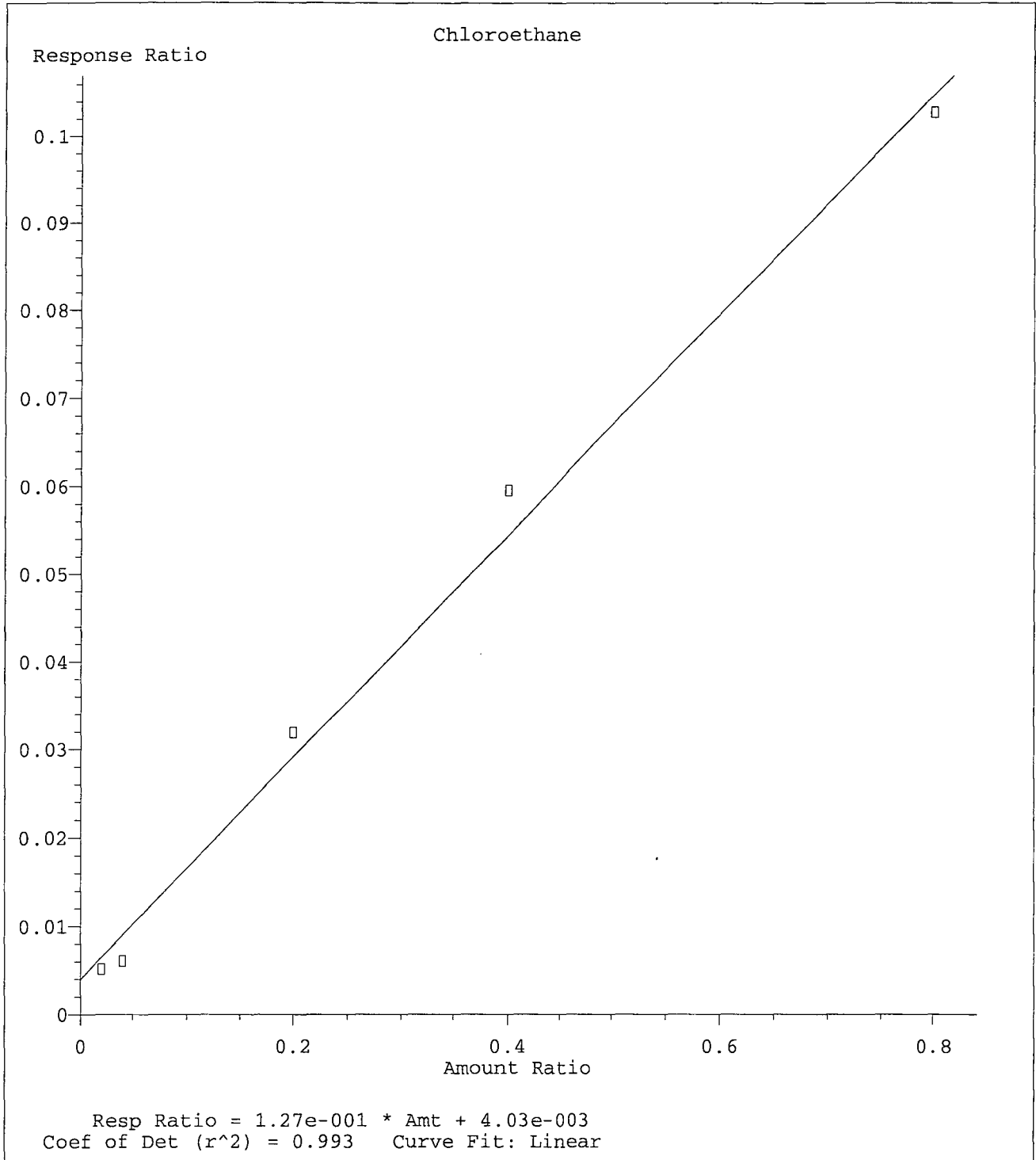
Method Name: M:\THOR\DATA\T190802\T0802W.M
Calibration Table Last Updated: Mon Aug 05 09:07:45 2019



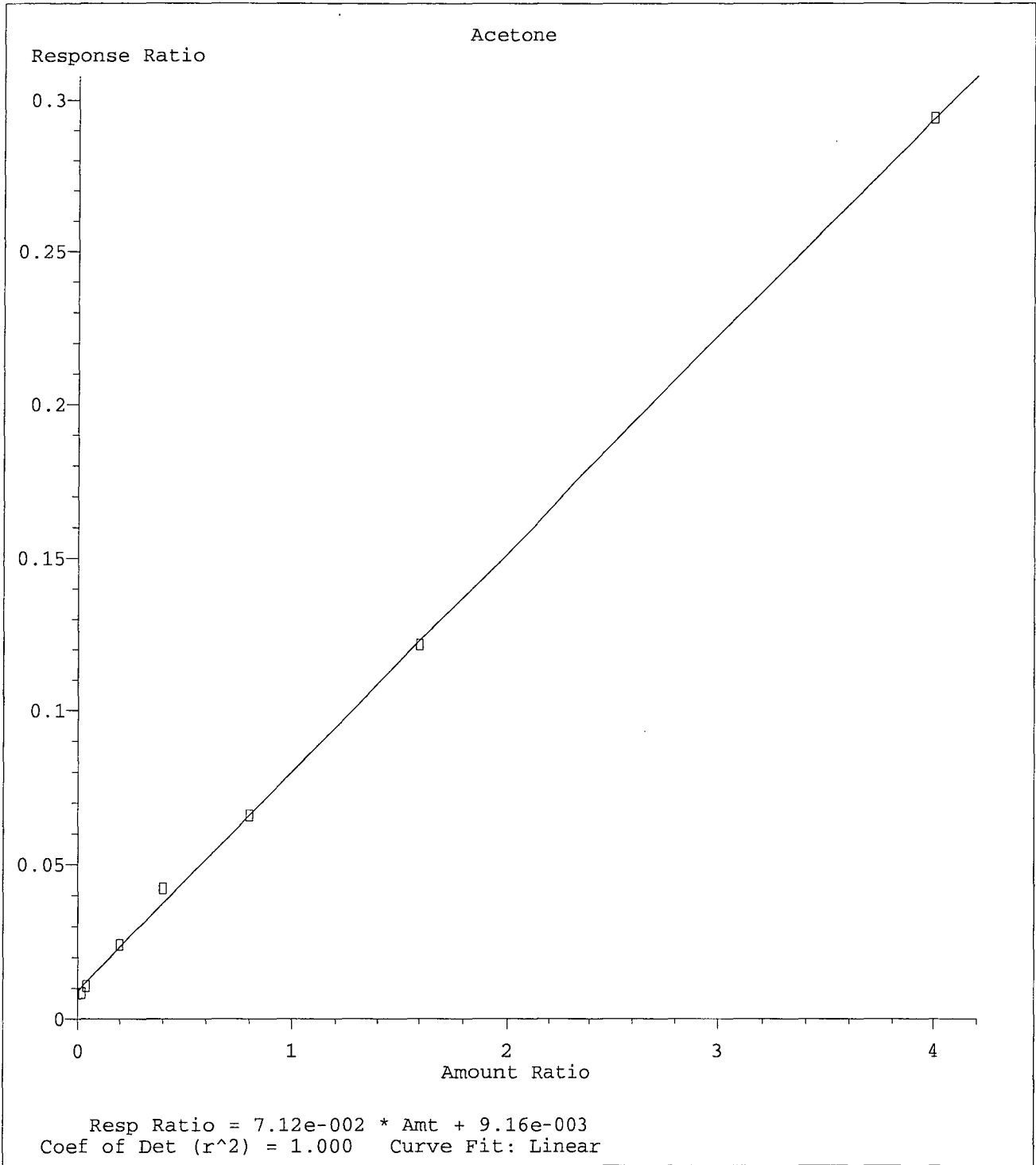
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Calibration Table Last Updated: Mon Aug 05 09:07:45 2019



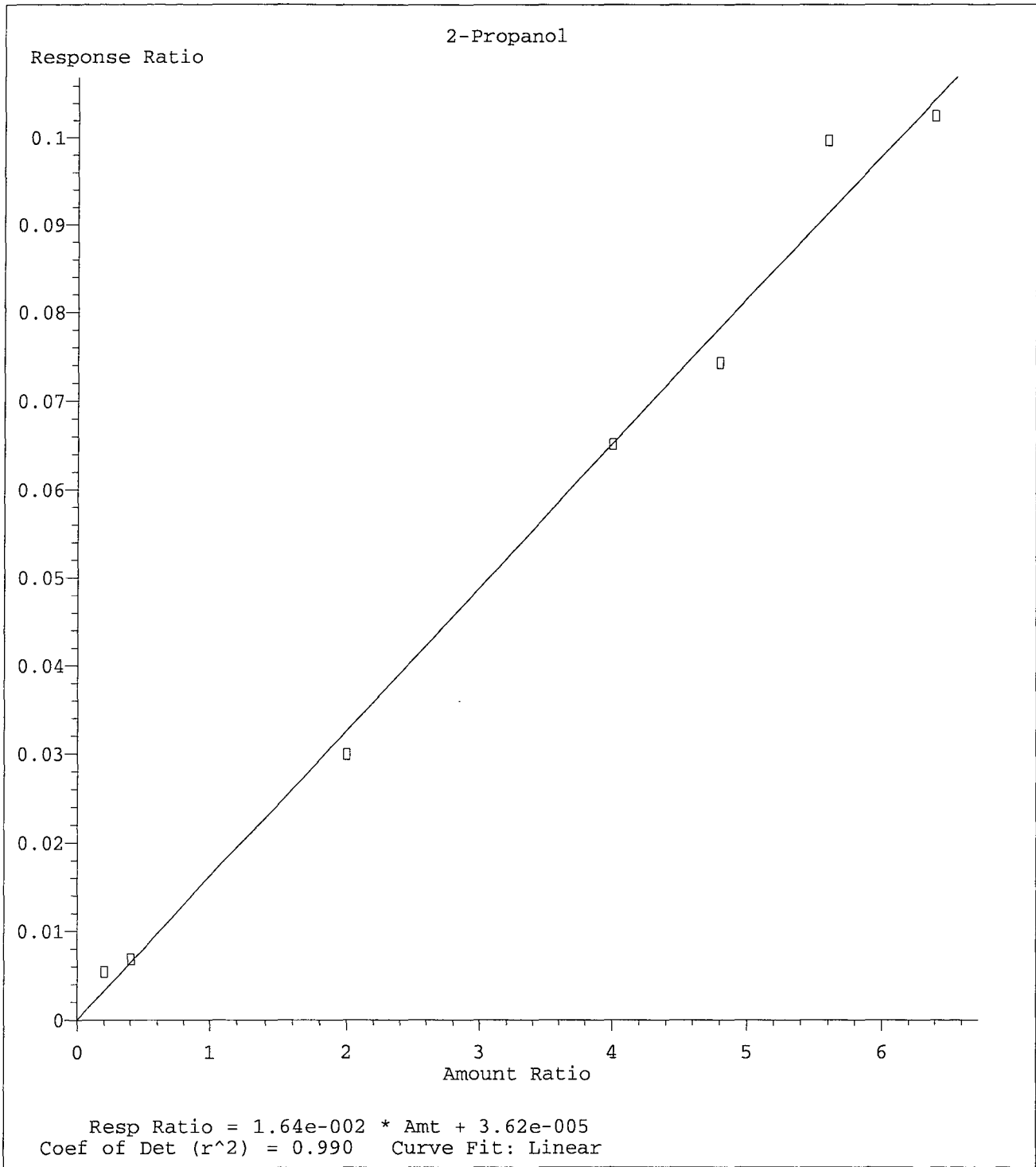
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Calibration Table Last Updated: Mon Aug 05 09:07:45 2019



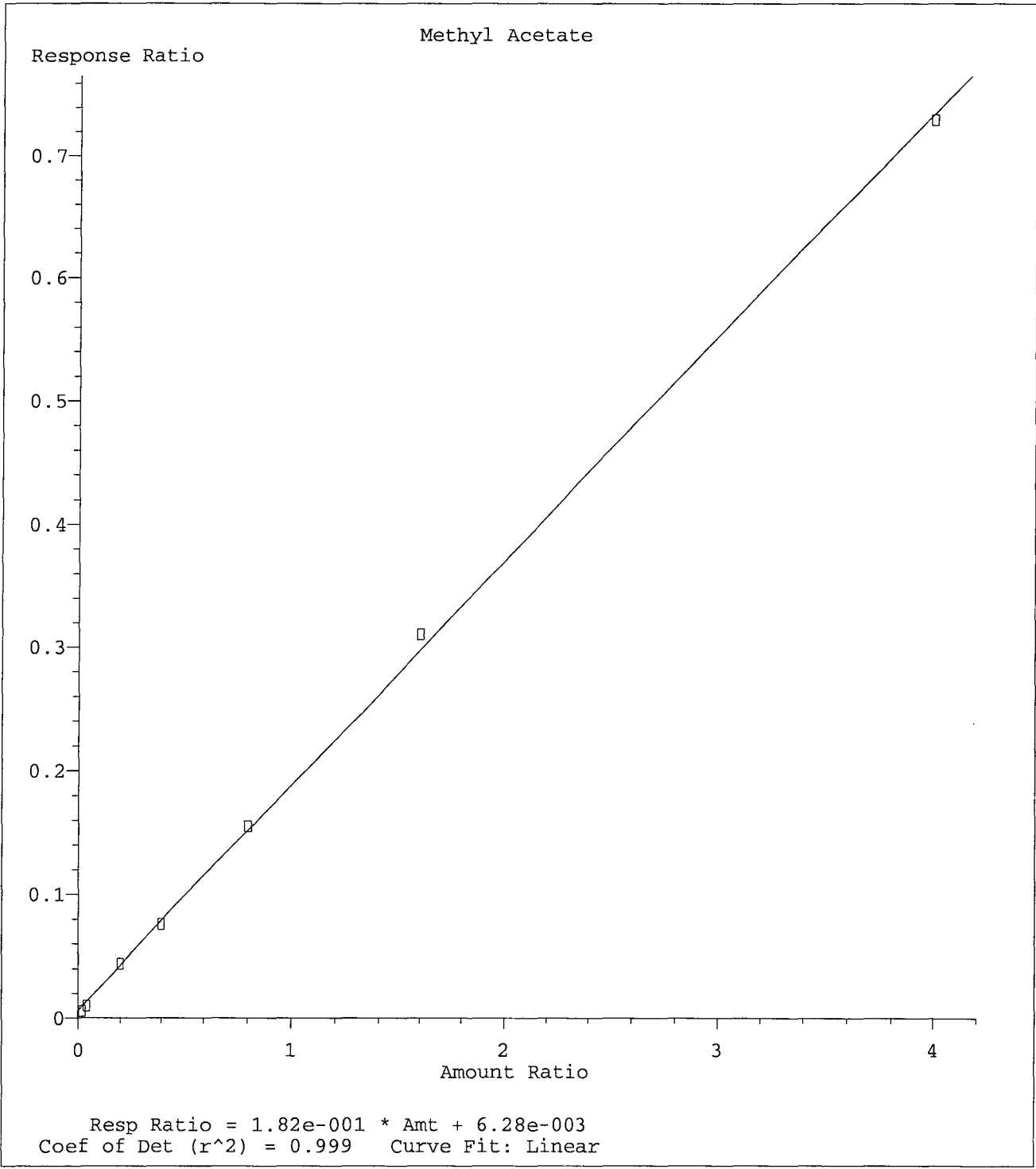
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Calibration Table Last Updated: Mon Aug 05 09:07:45 2019



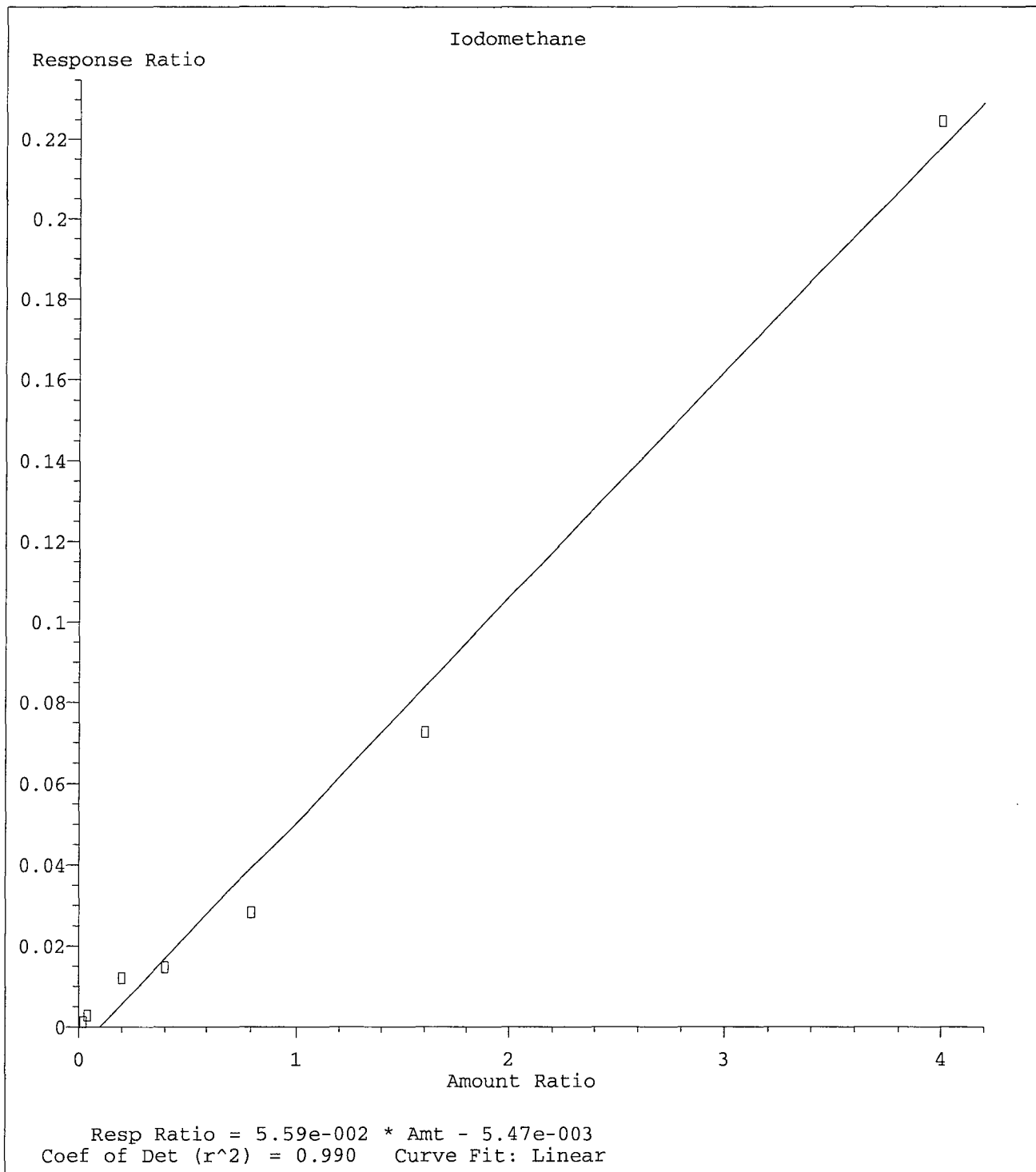
Method Name: M:\THOR\DATA\T190802\T0802W.M
Calibration Table Last Updated: Mon Aug 05 09:07:45 2019



Method Name: M:\THOR\DATA\T190802\T0802W.M
Calibration Table Last Updated: Mon Aug 05 09:07:45 2019

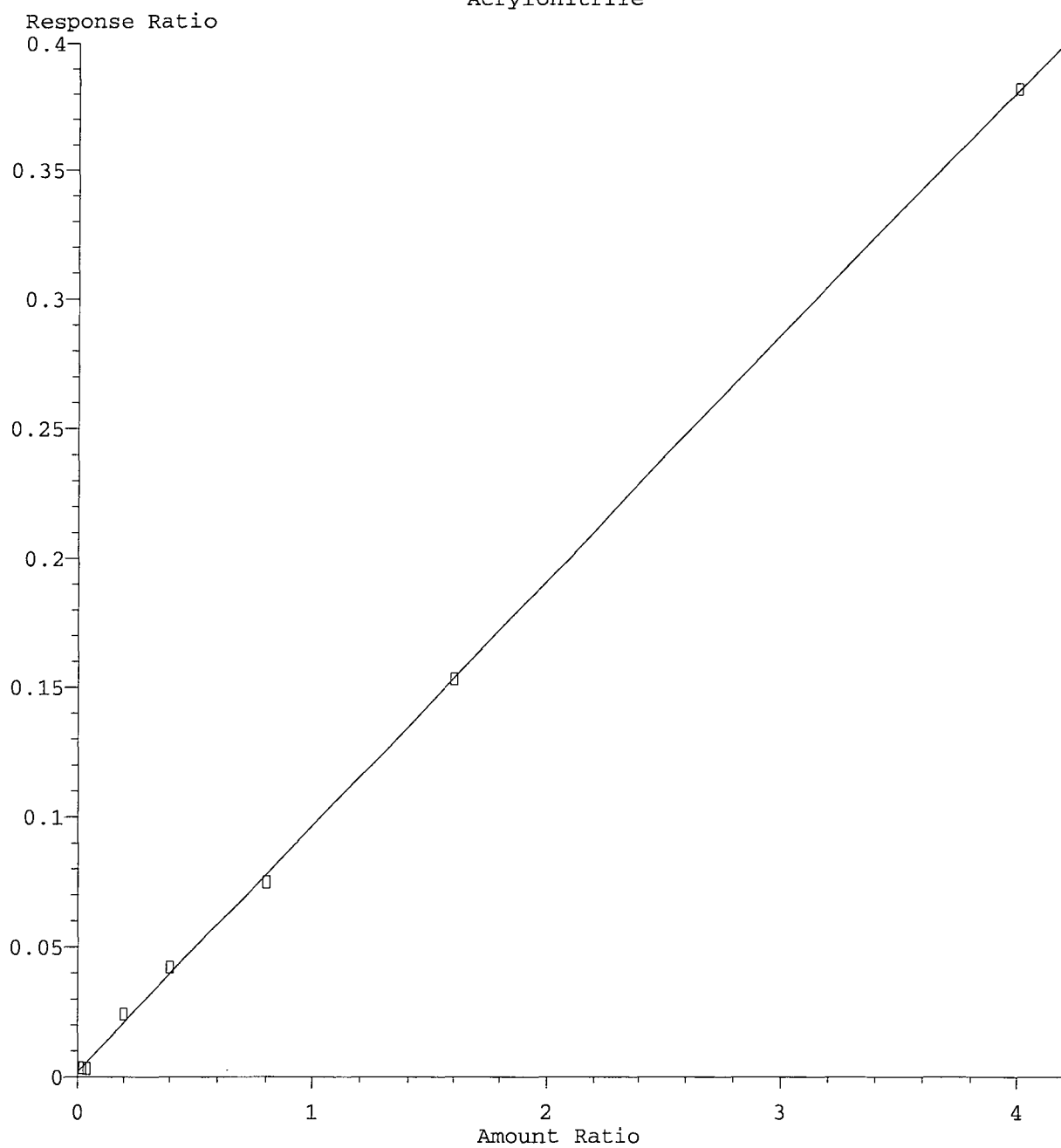


Method Name: M:\THOR\DATA\T190802\T0802W.M
Calibration Table Last Updated: Mon Aug 05 09:07:45 2019



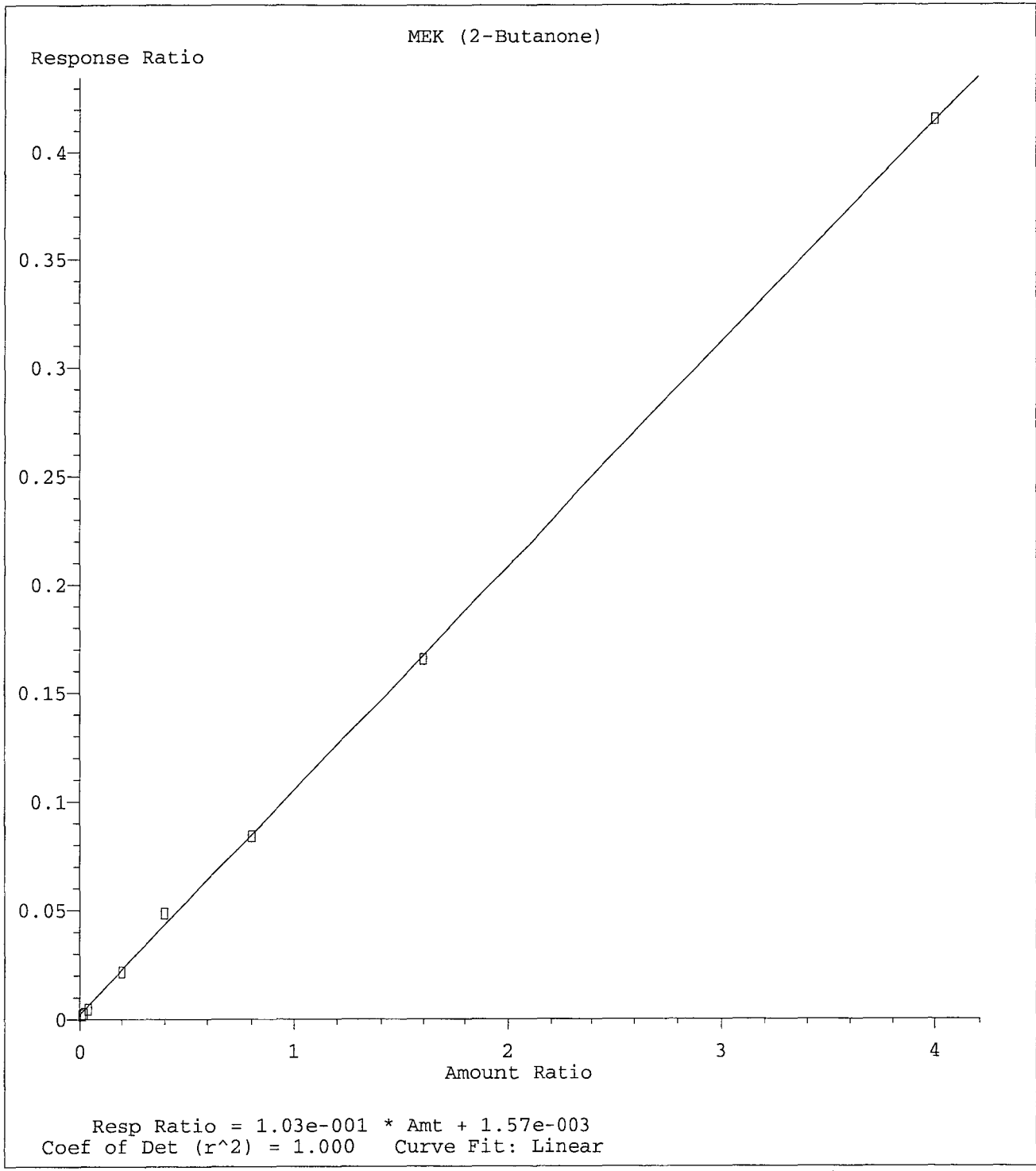
Method Name: M:\THOR\DATA\T190802\T0802W.M
Calibration Table Last Updated: Mon Aug 05 09:07:45 2019

Acrylonitrile



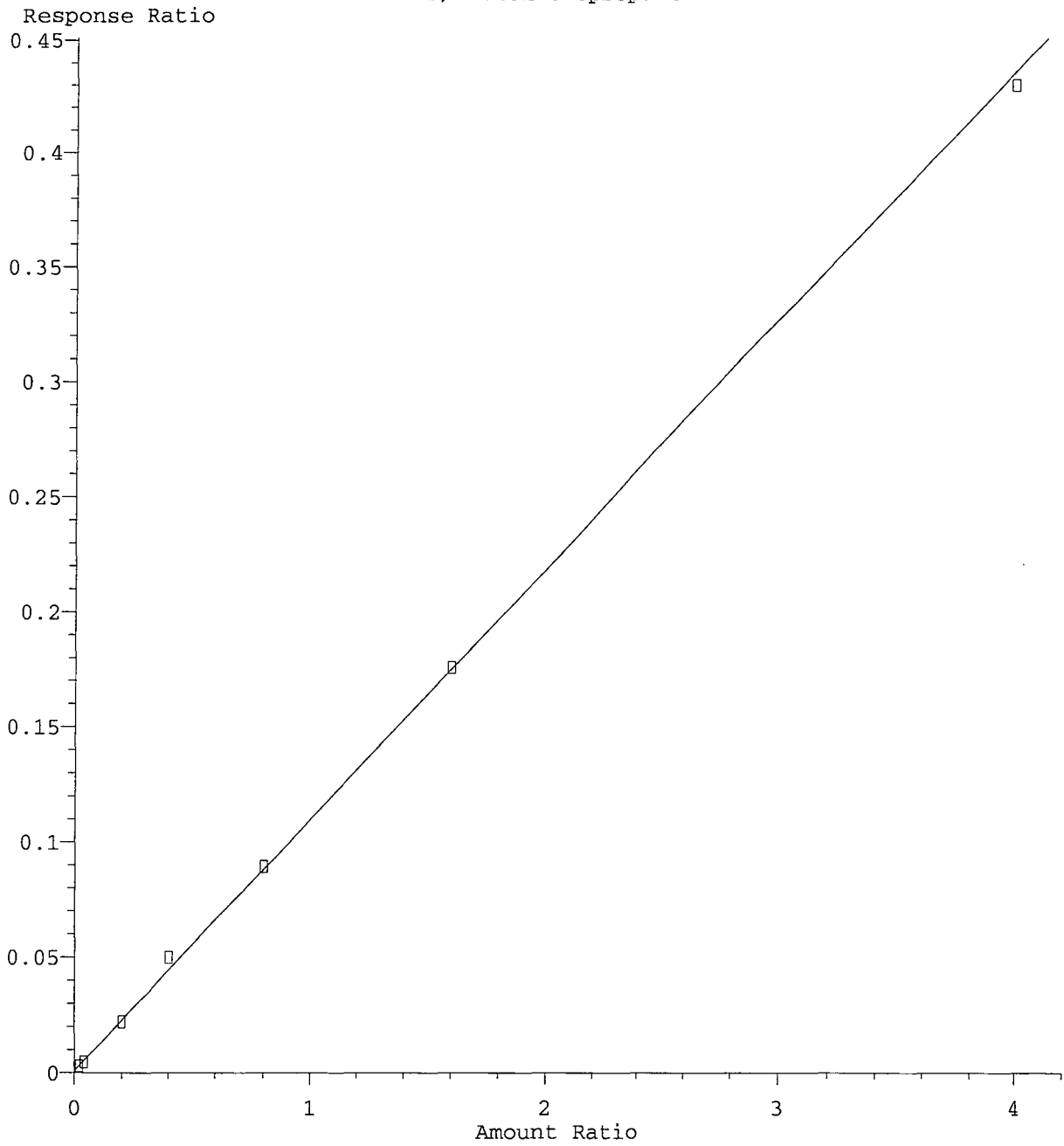
Resp Ratio = $9.48e-002 * Amt + 1.89e-003$
Coef of Det (r^2) = 1.000 Curve Fit: Linear

Method Name: M:\THOR\DATA\T190802\T0802W.M
Calibration Table Last Updated: Mon Aug 05 09:07:45 2019



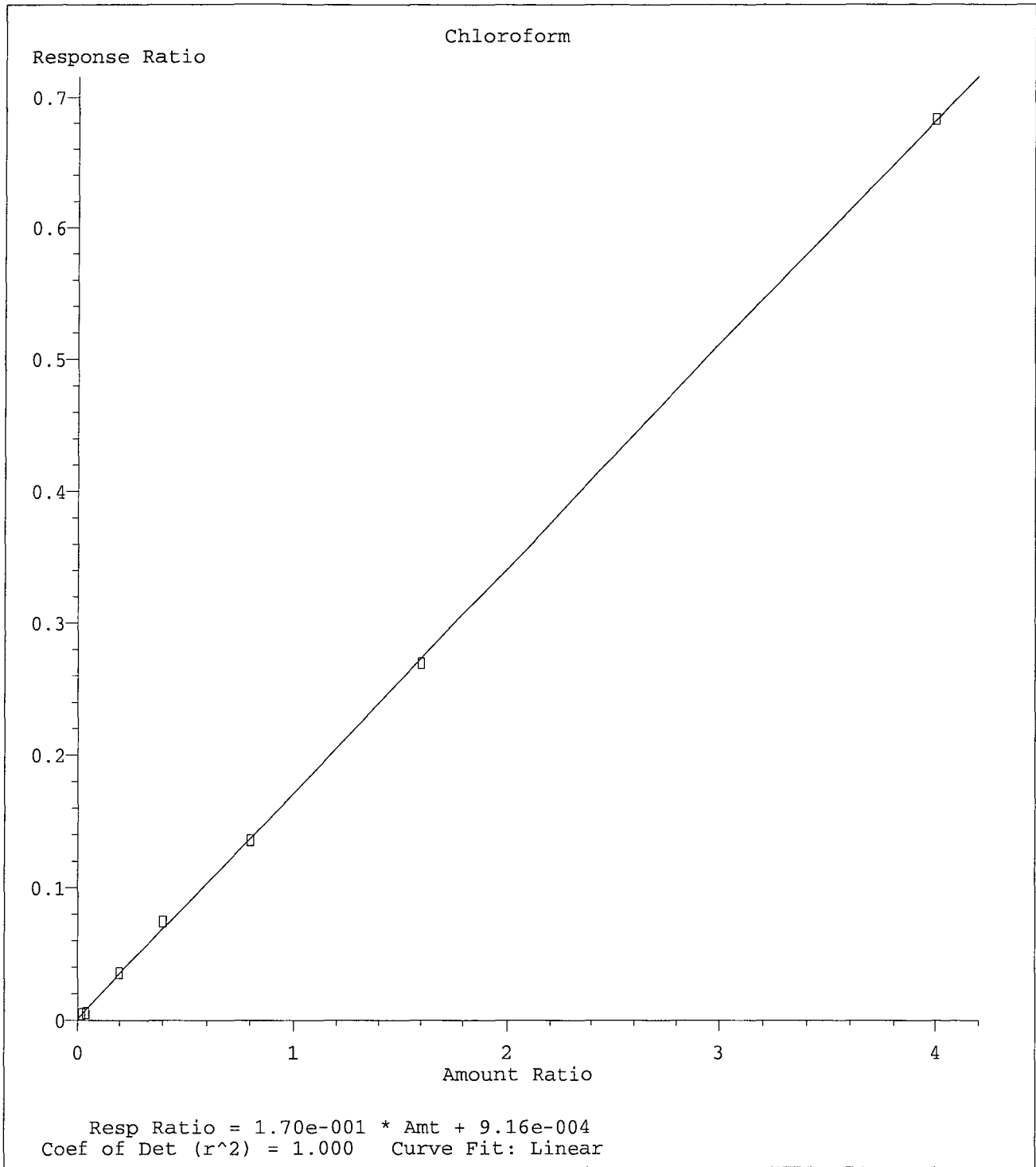
Method Name: M:\THOR\DATA\T190802\T0802W.M
Calibration Table Last Updated: Mon Aug 05 09:07:45 2019

2,2-Dichloropropane

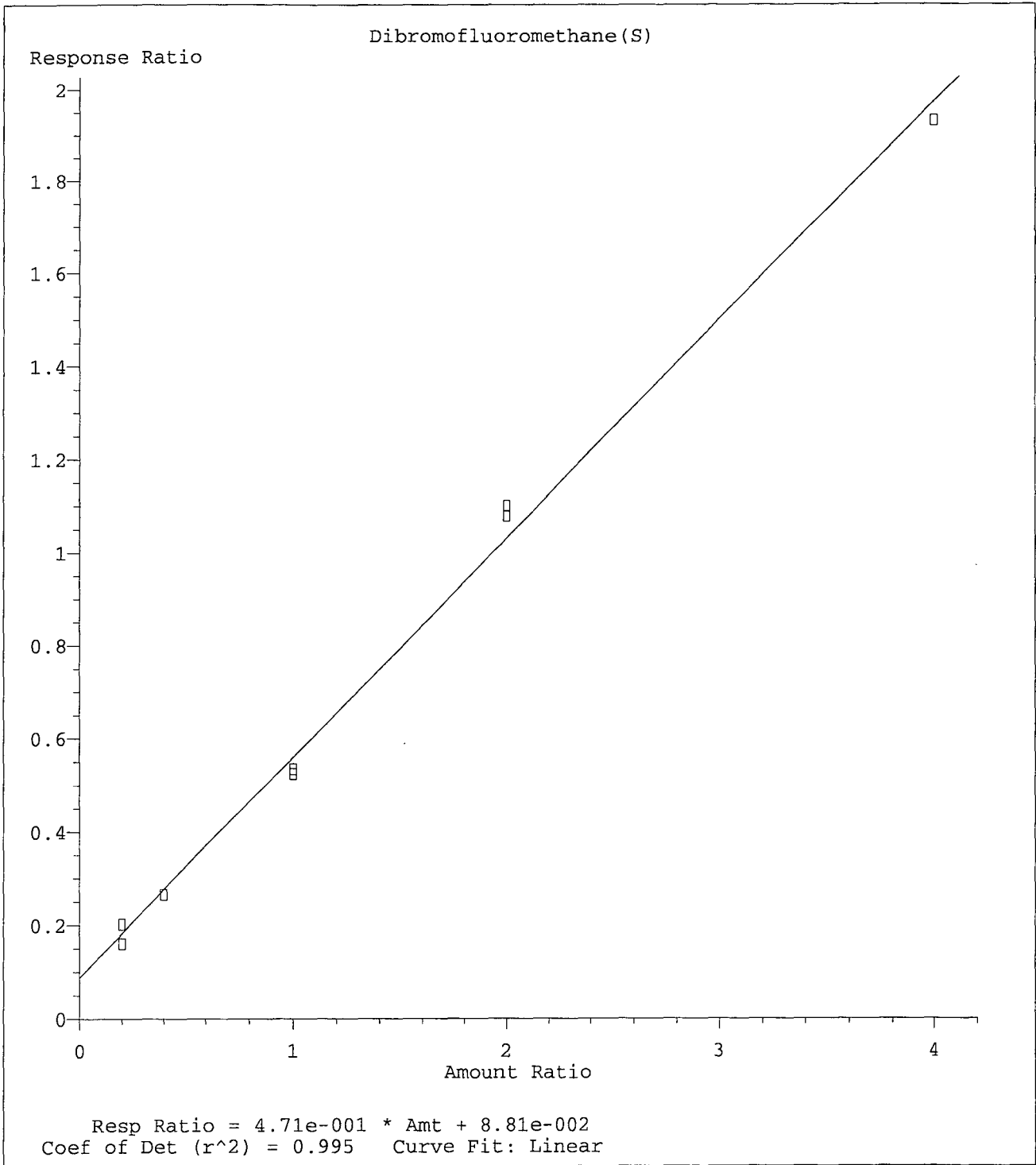


Resp Ratio = 1.09e-001 * Amt + 7.69e-004
Coef of Det (r^2) = 0.999 Curve Fit: wlr(1/a)

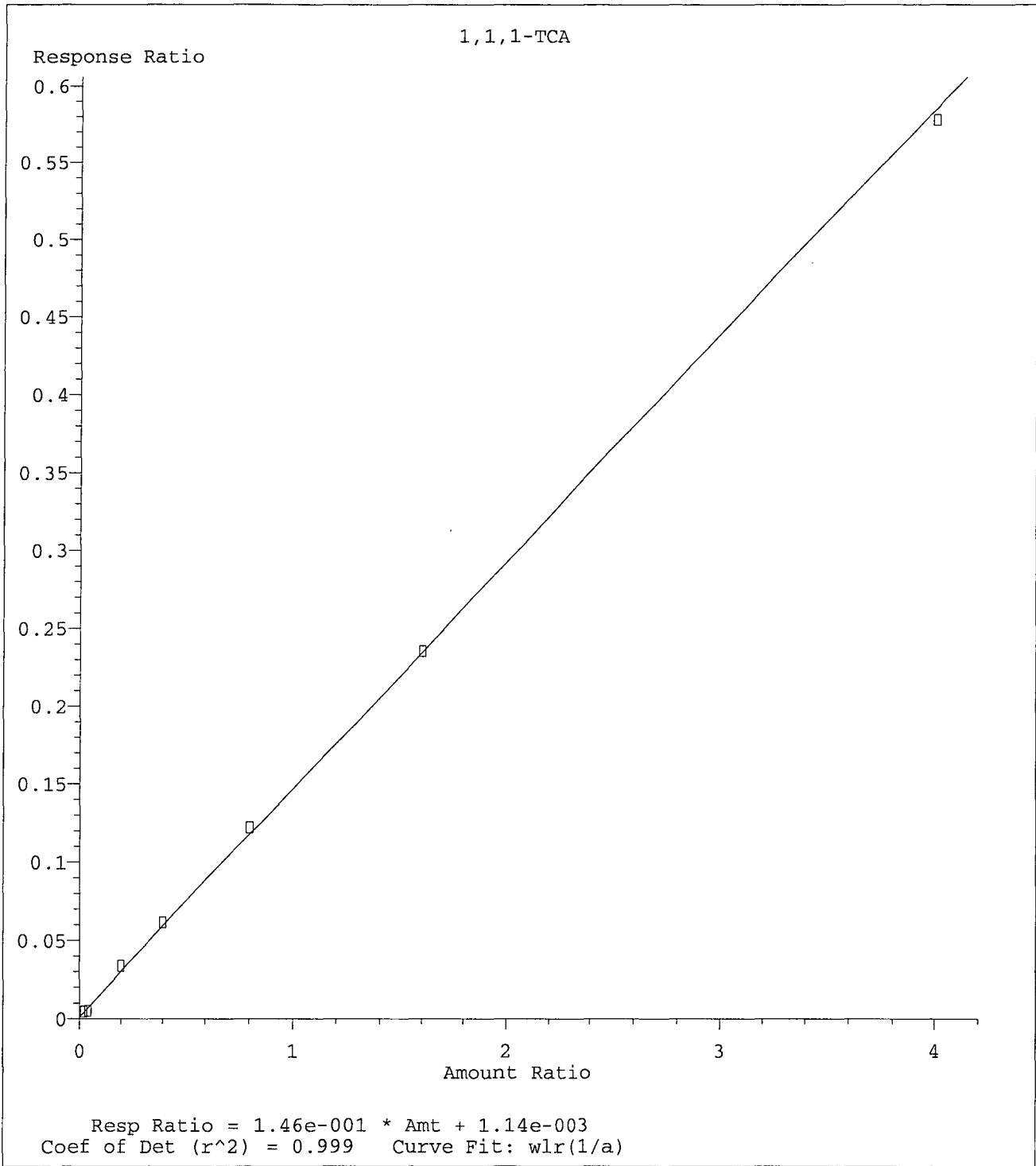
Method Name: M:\THOR\DATA\T190802\T0802W.M
Calibration Table Last Updated: Mon Aug 05 09:07:45 2019



Method Name: M:\THOR\DATA\T190802\T0802W.M
Calibration Table Last Updated: Mon Aug 05 09:07:45 2019



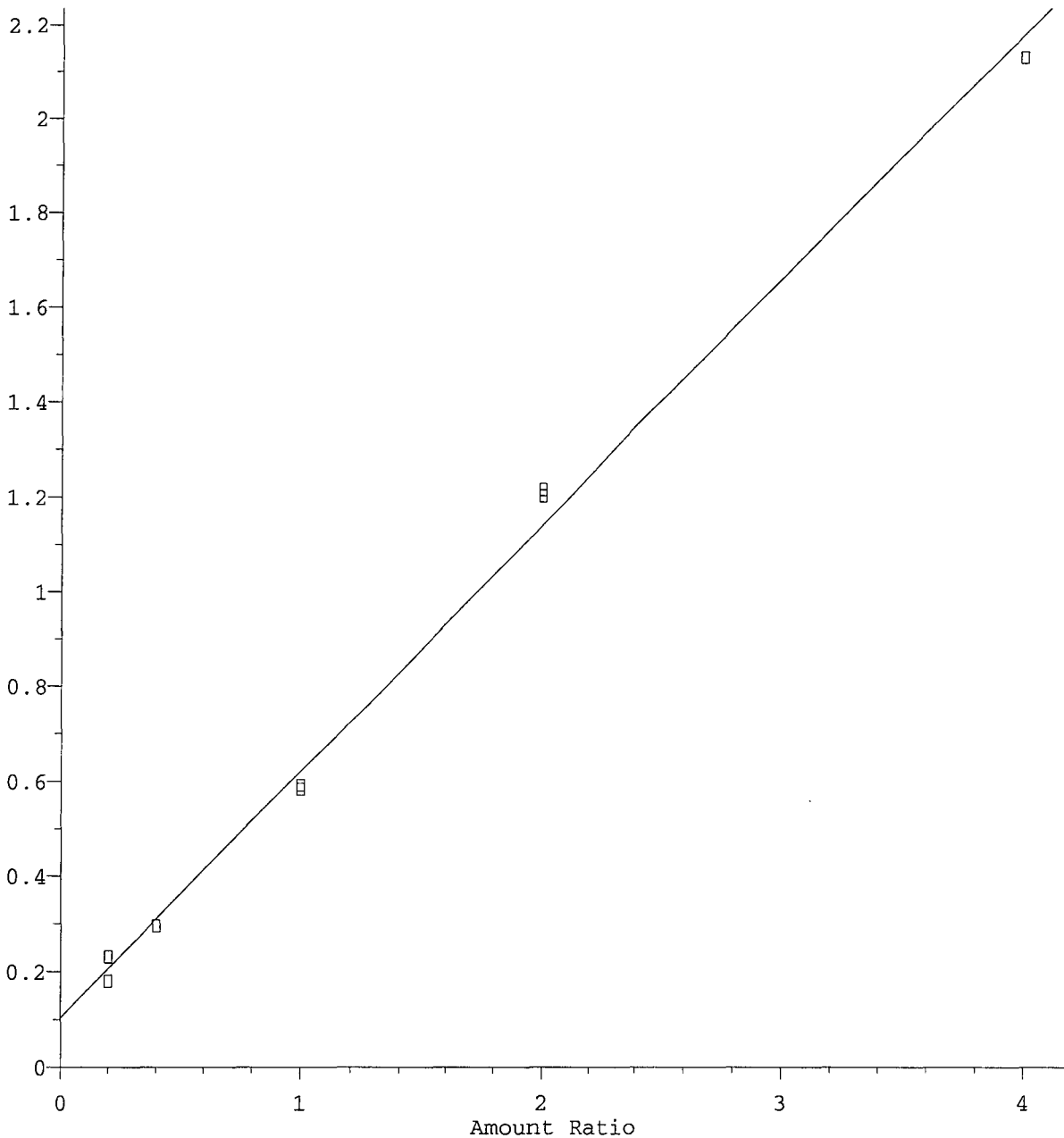
Method Name: M:\THOR\DATA\T190802\T0802W.M
Calibration Table Last Updated: Mon Aug 05 09:07:45 2019



Method Name: M:\THOR\DATA\T190802\T0802W.M
Calibration Table Last Updated: Mon Aug 05 09:07:45 2019

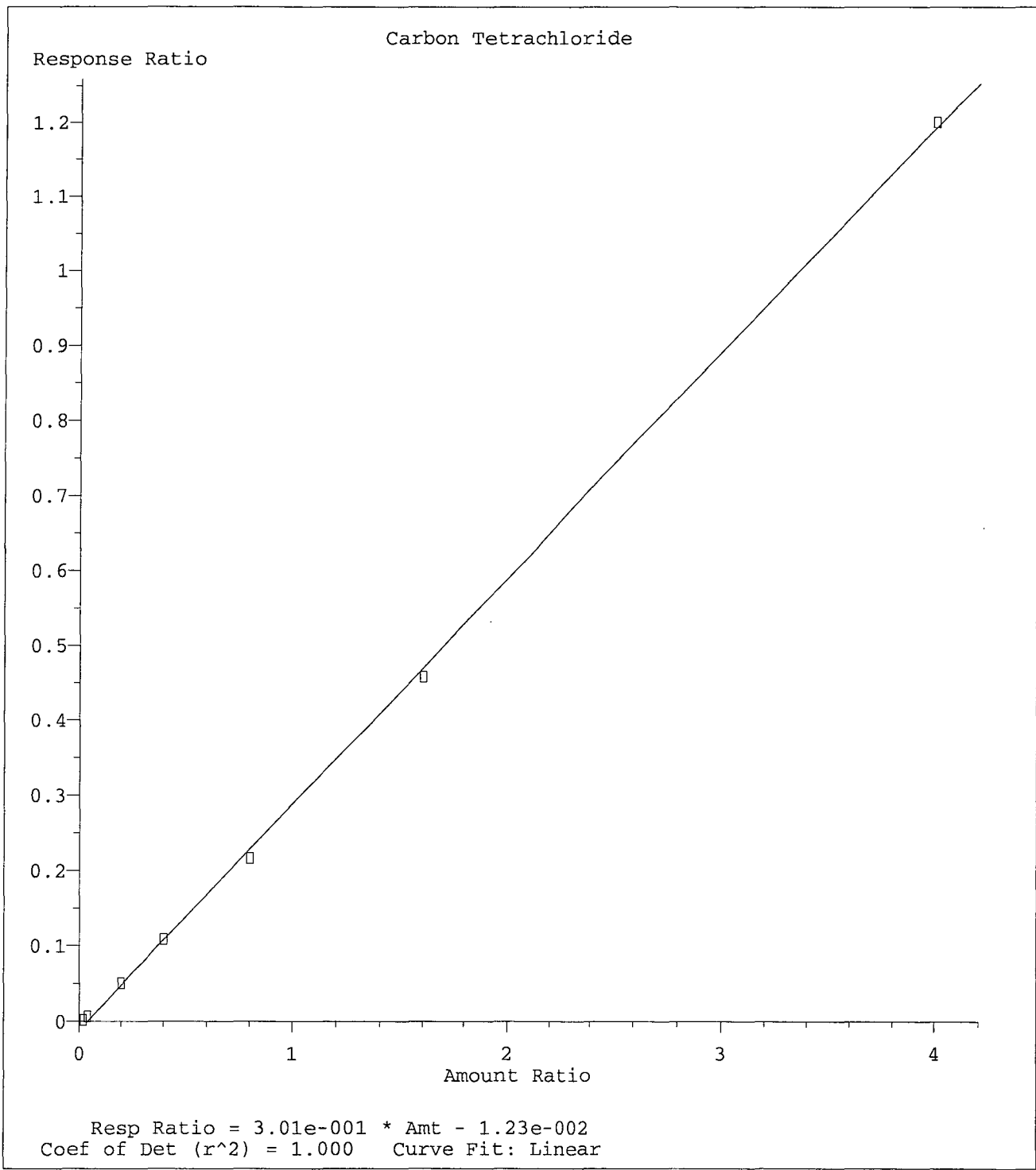
1,2-DCA-D4 (S)

Response Ratio

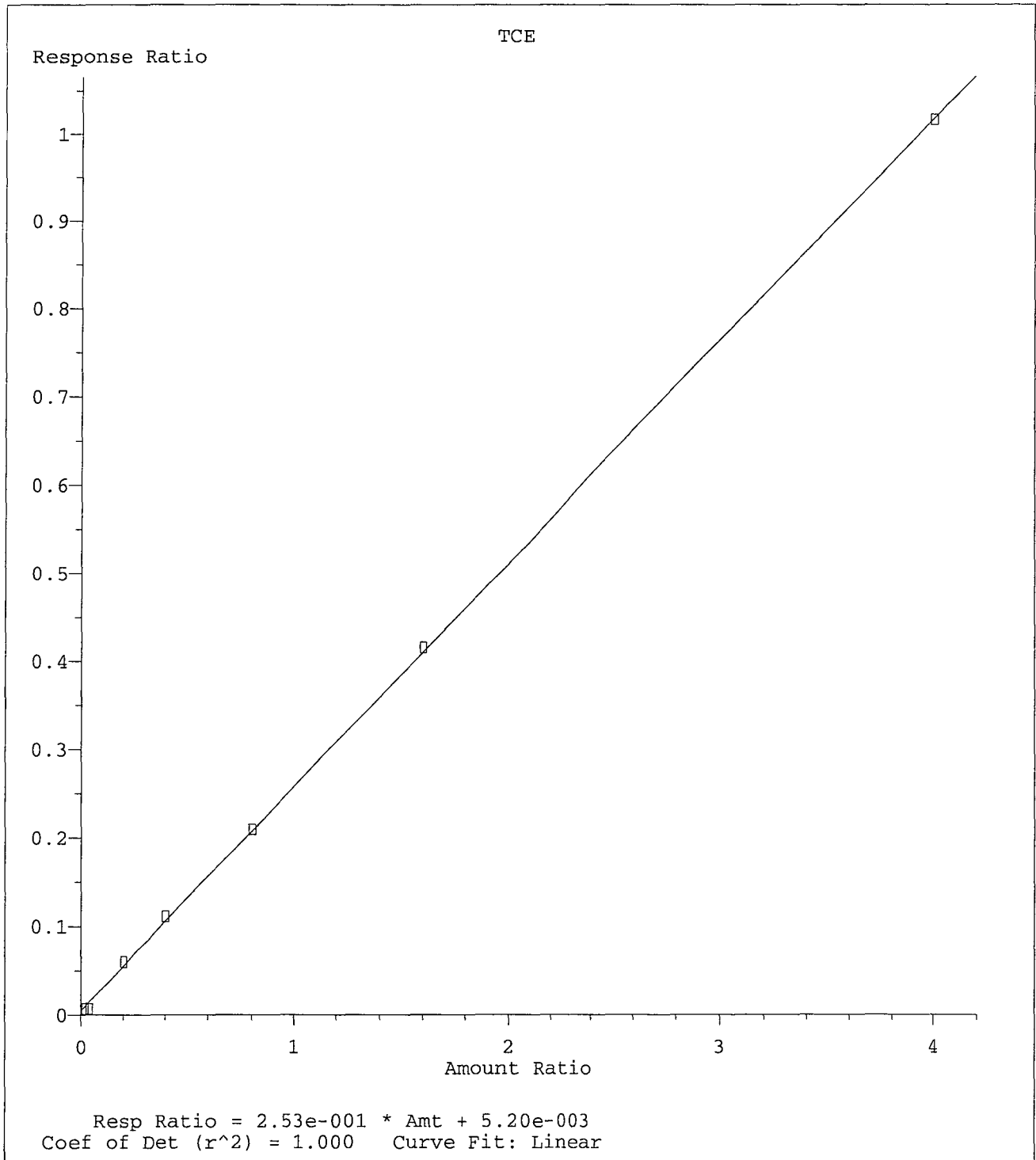


Resp Ratio = 5.19e-001 * Amt + 1.03e-001
Coef of Det (r^2) = 0.995 Curve Fit: Linear

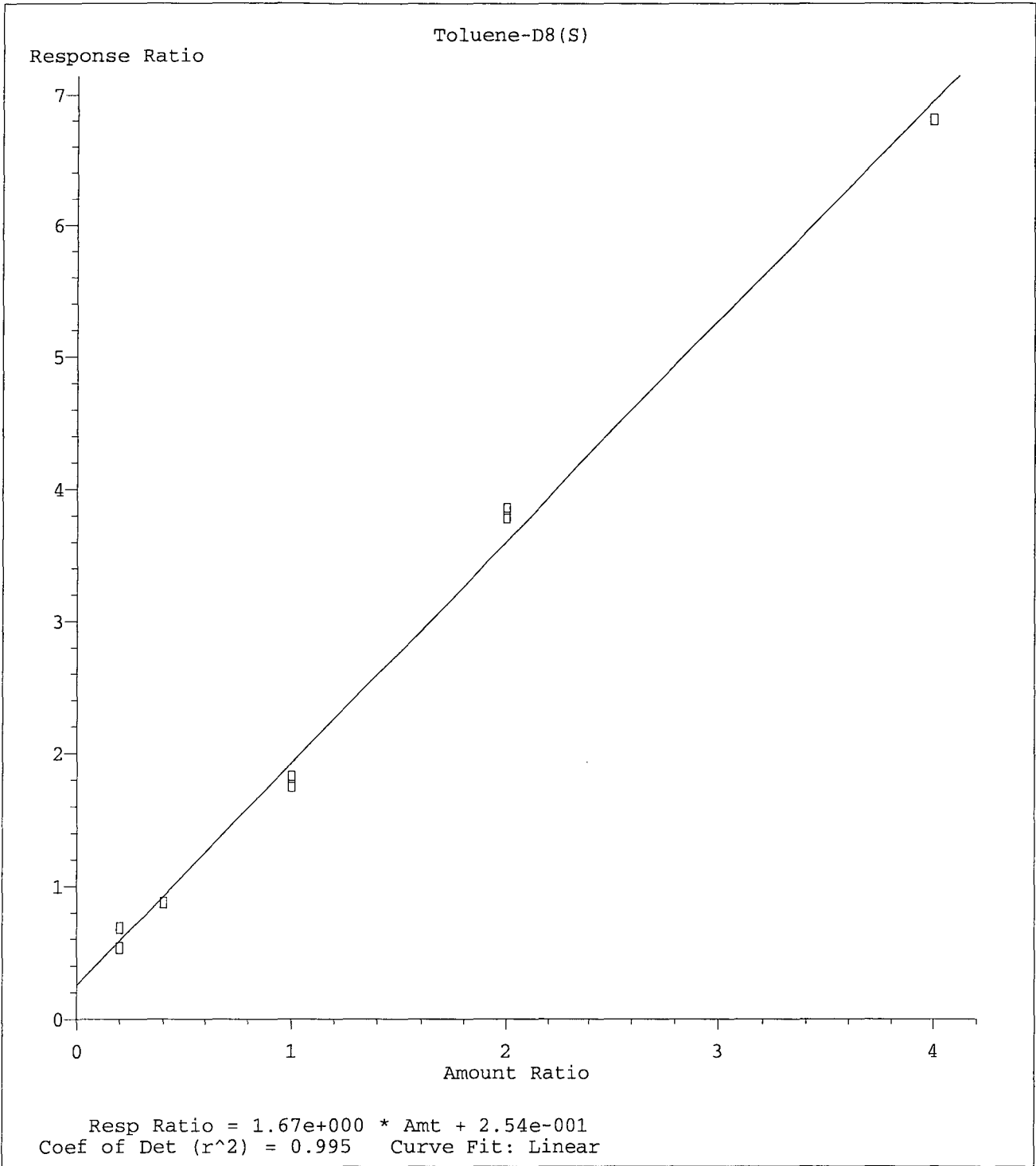
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Calibration Table Last Updated: Mon Aug 05 09:07:45 2019



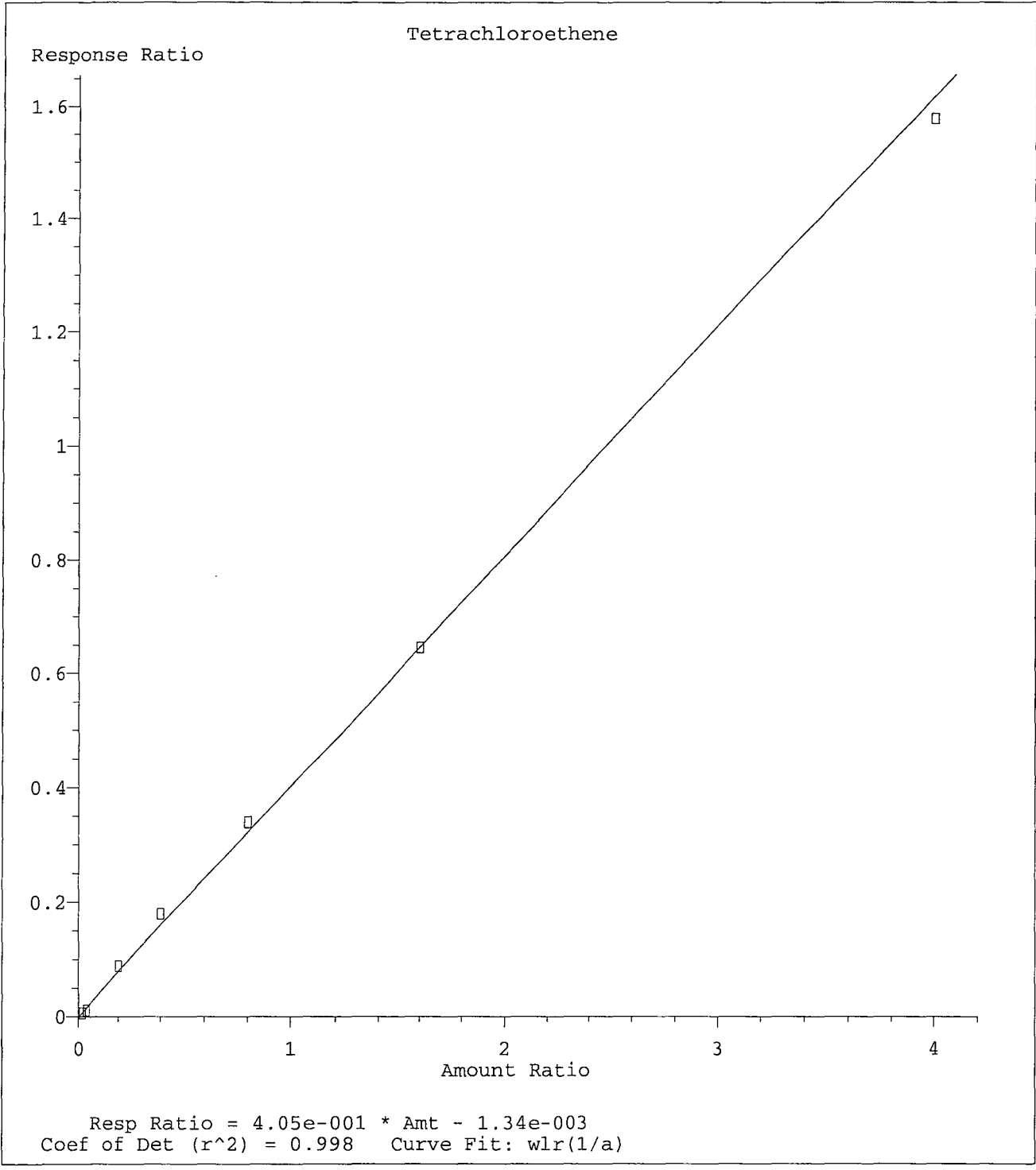
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Calibration Table Last Updated: Mon Aug 05 09:07:45 2019



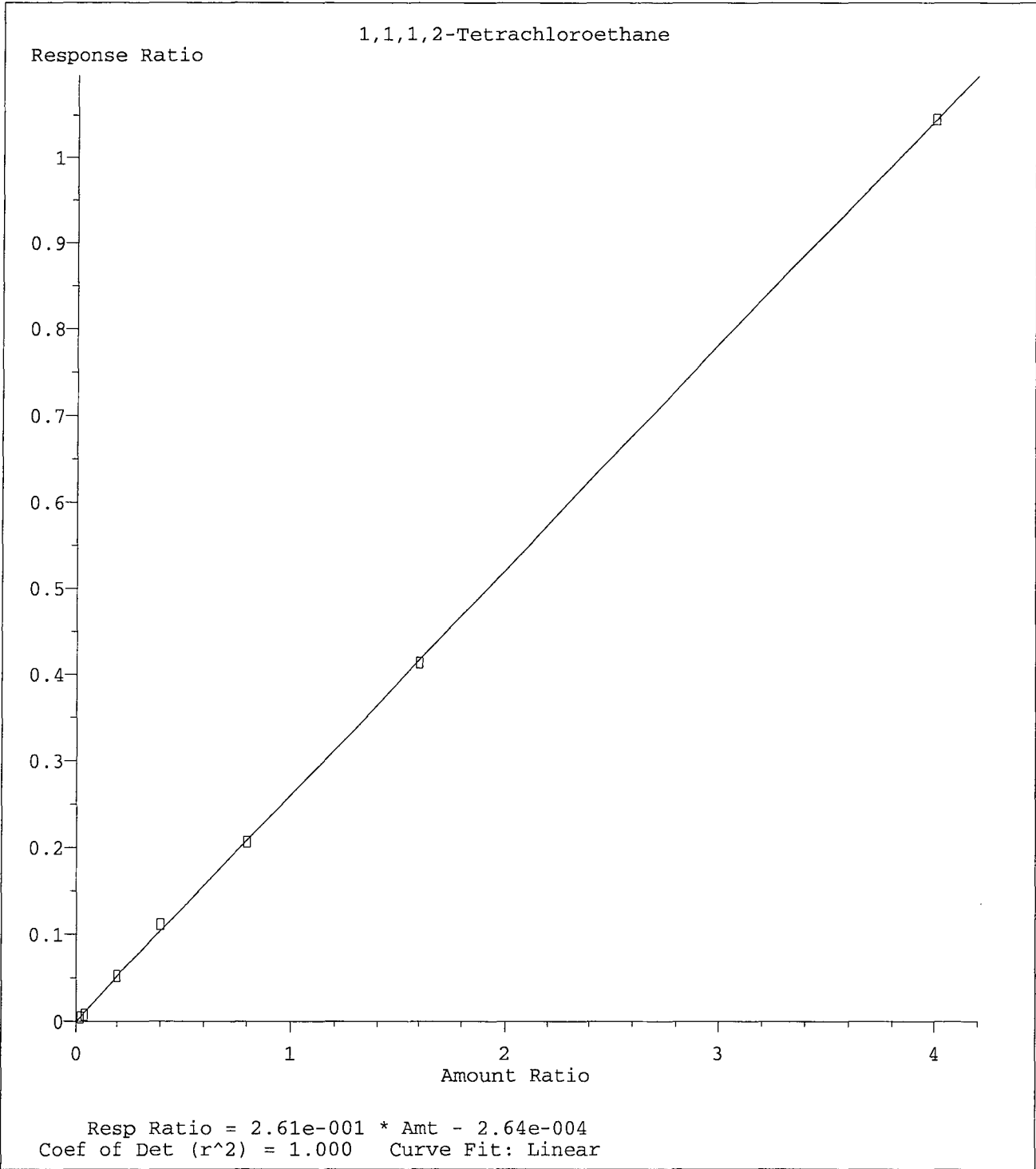
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Calibration Table Last Updated: Mon Aug 05 09:07:45 2019



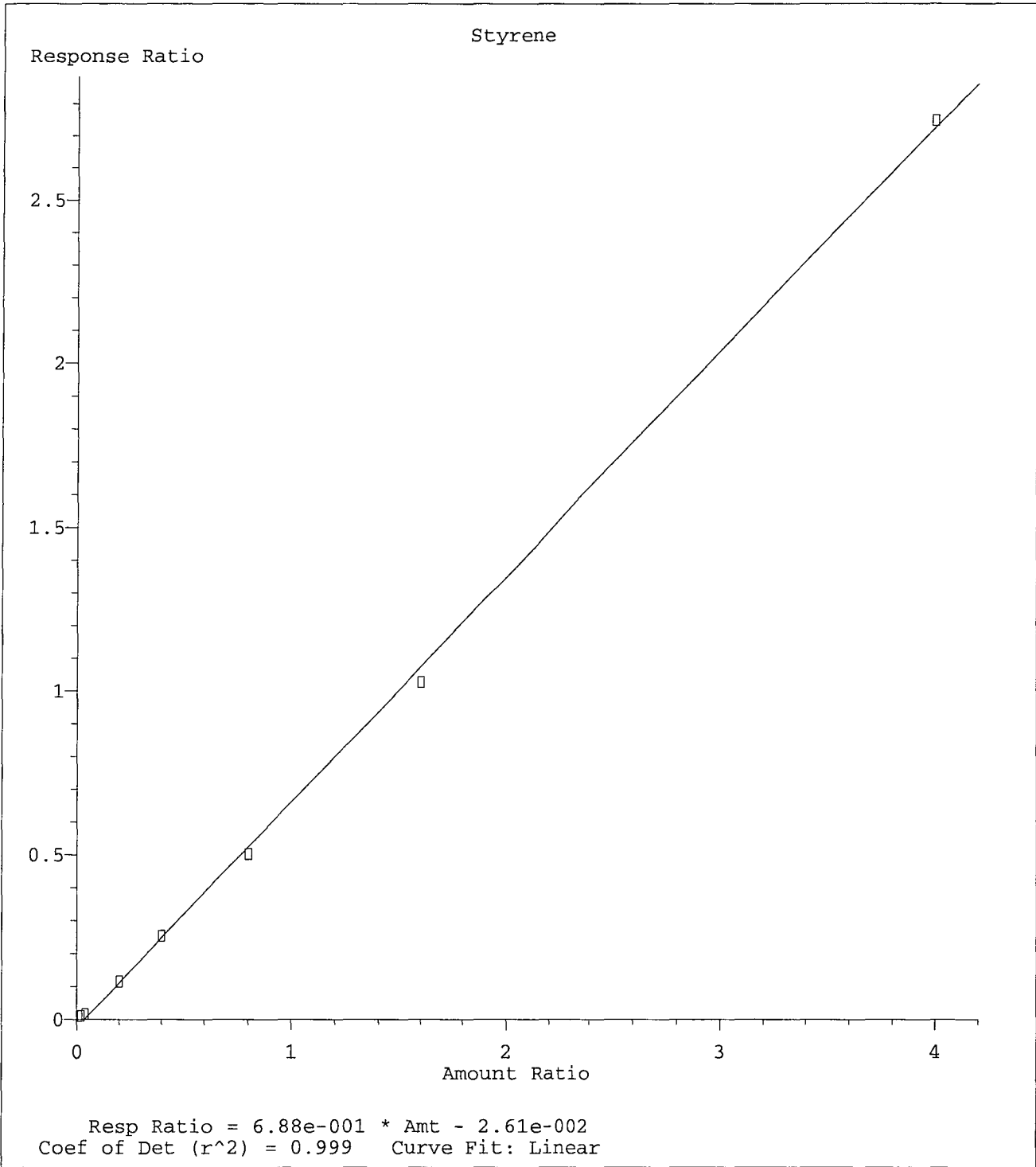
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Calibration Table Last Updated: Mon Aug 05 09:07:45 2019



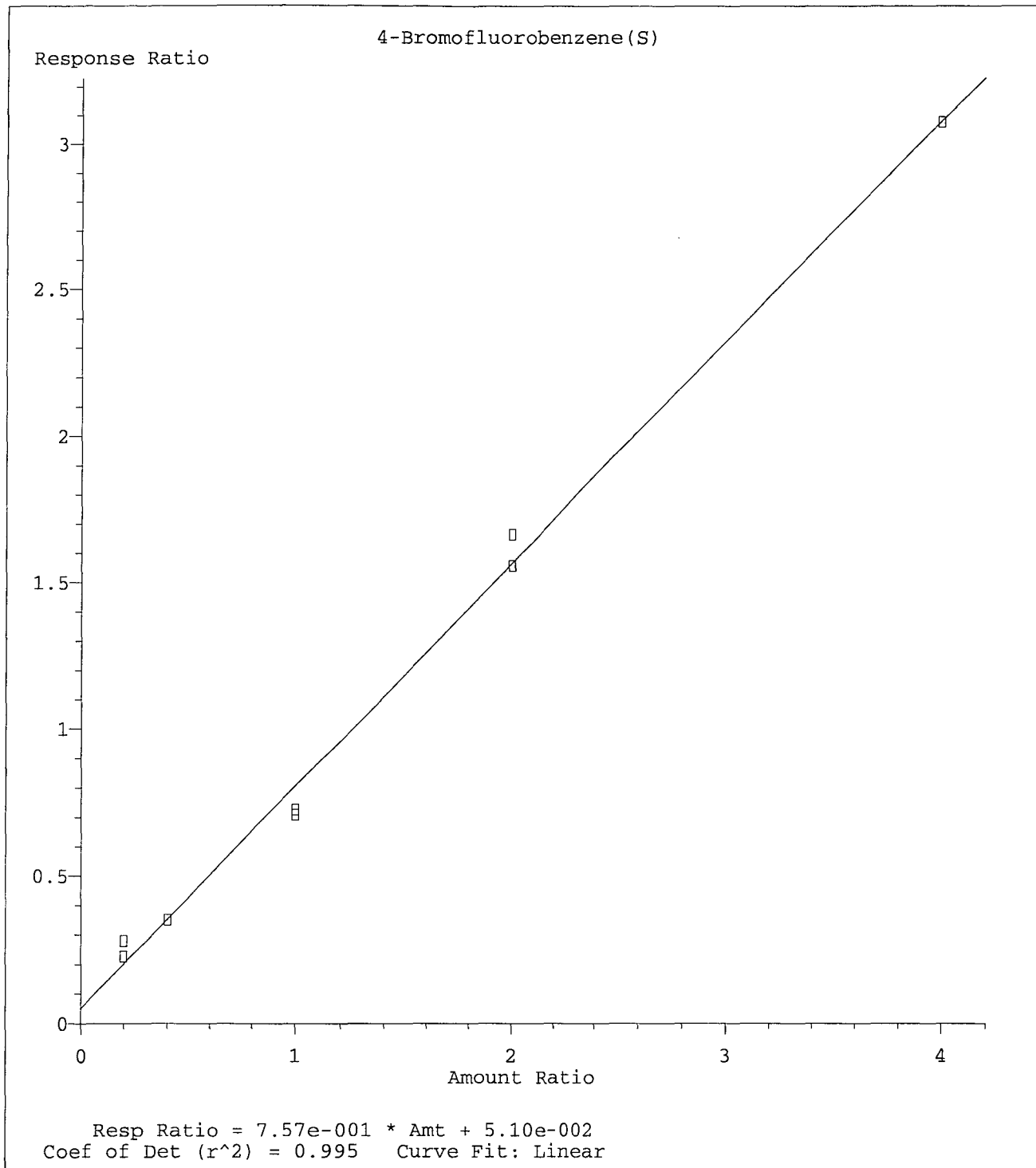
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Calibration Table Last Updated: Mon Aug 05 09:07:45 2019



Method Name: M:\THOR\DATA\T190802\T0802W.M
Calibration Table Last Updated: Mon Aug 05 09:07:45 2019



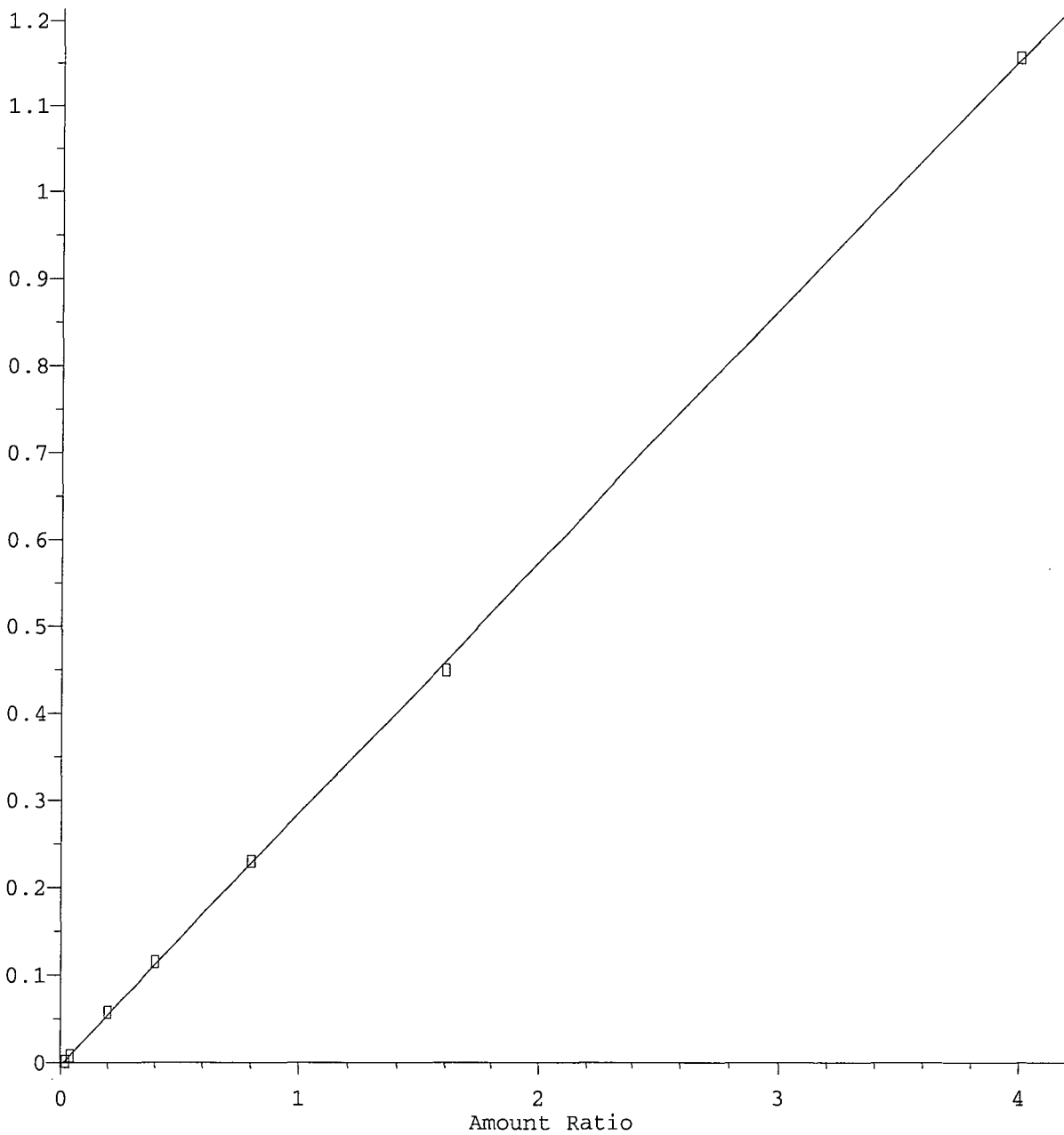
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Calibration Table Last Updated: Mon Aug 05 09:07:45 2019



Method Name: M:\THOR\DATA\T190802\T0802W.M
Calibration Table Last Updated: Mon Aug 05 09:07:45 2019

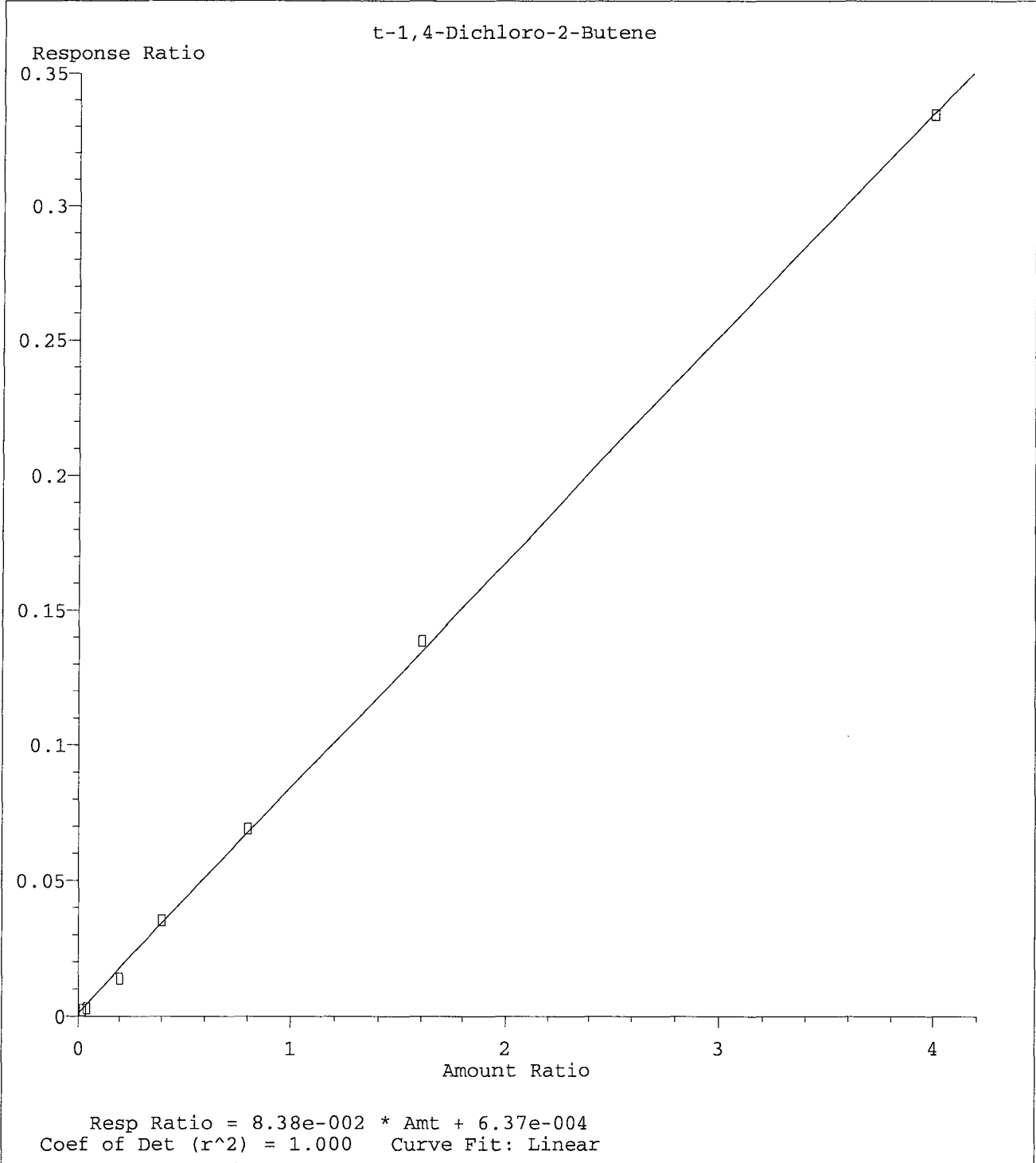
Dibromochloromethane

Response Ratio

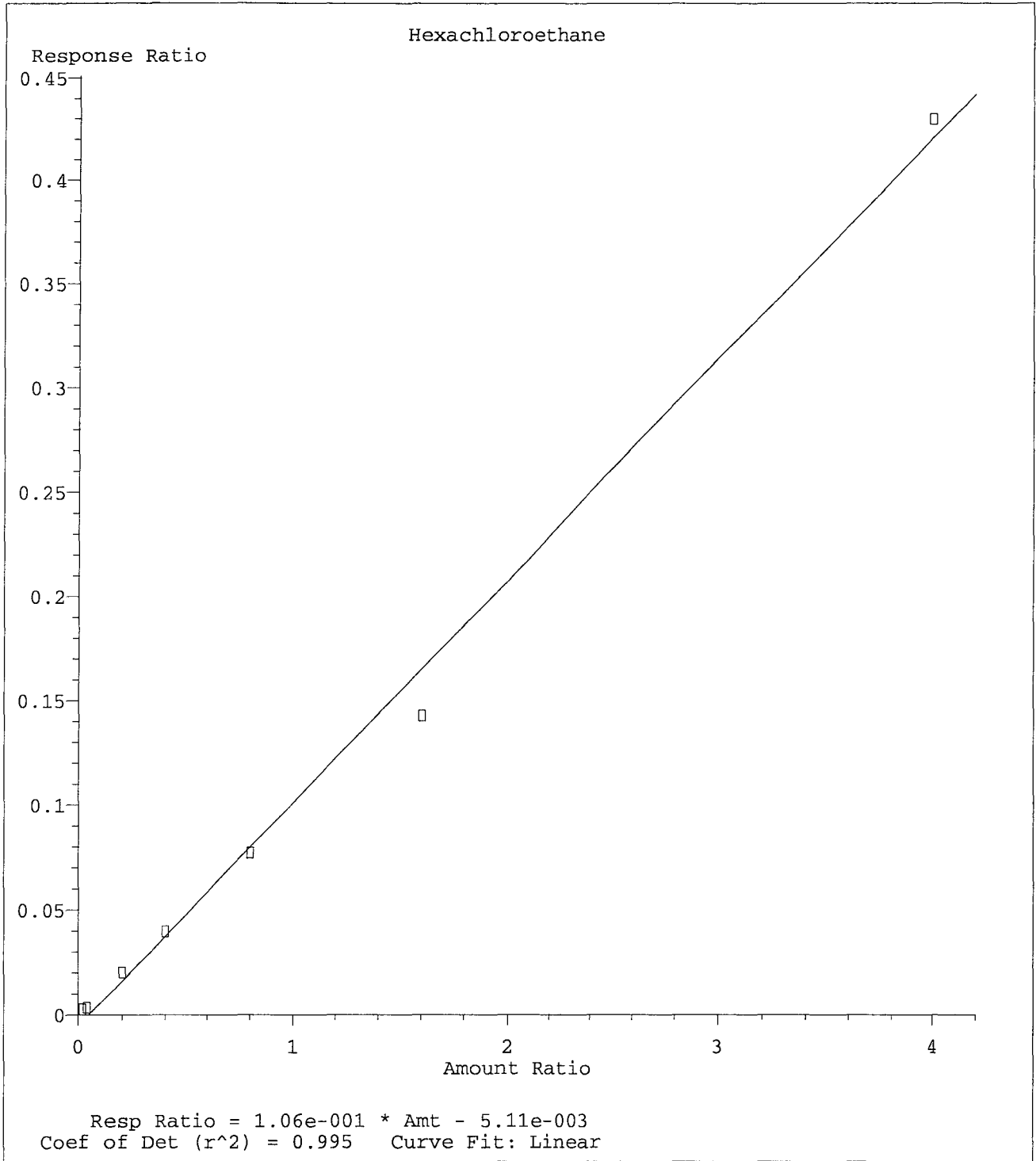


Resp Ratio = 2.89e-001 * Amt - 3.50e-003
Coef of Det (r^2) = 1.000 Curve Fit: Linear

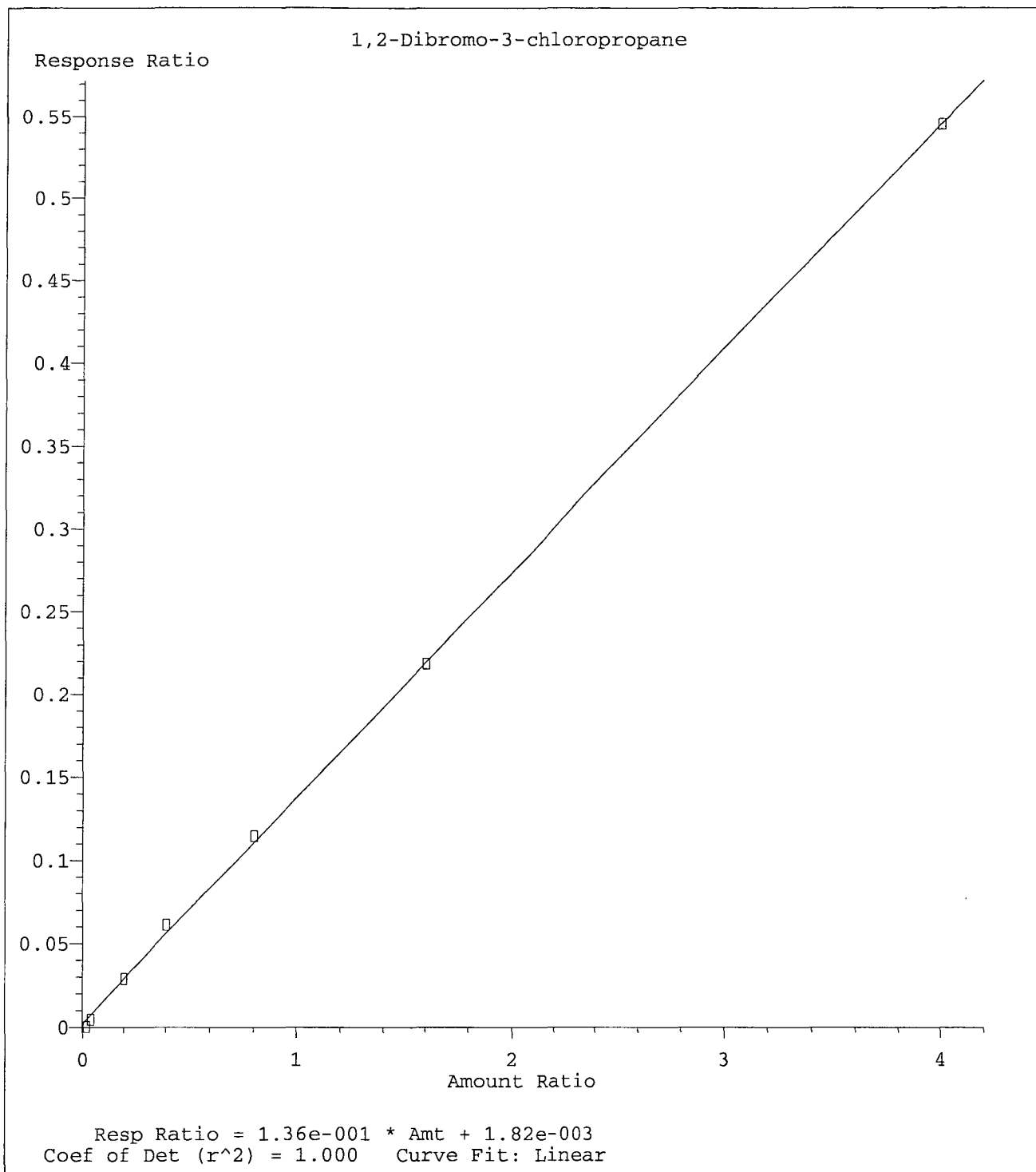
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Calibration Table Last Updated: Mon Aug 05 09:07:45 2019



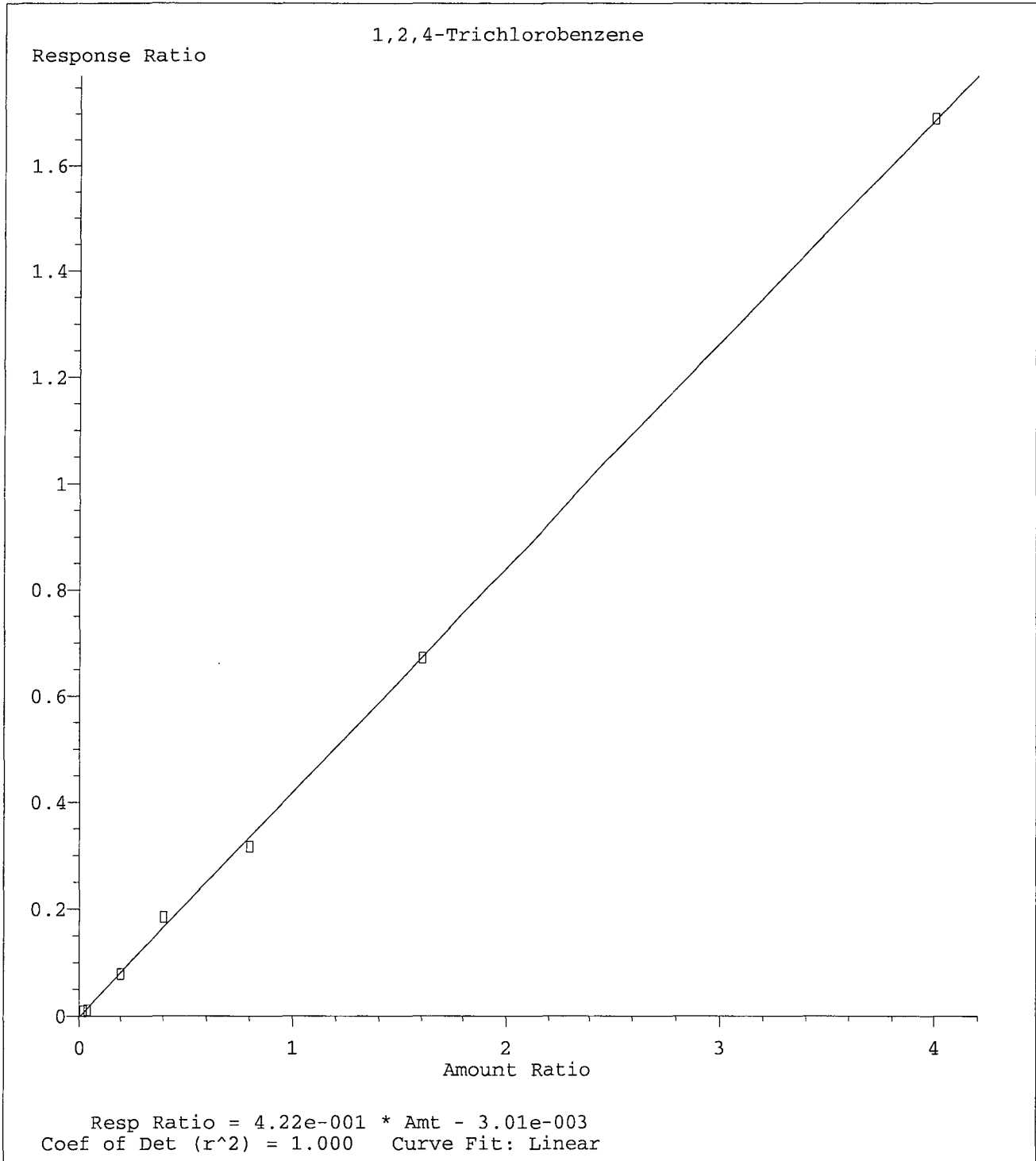
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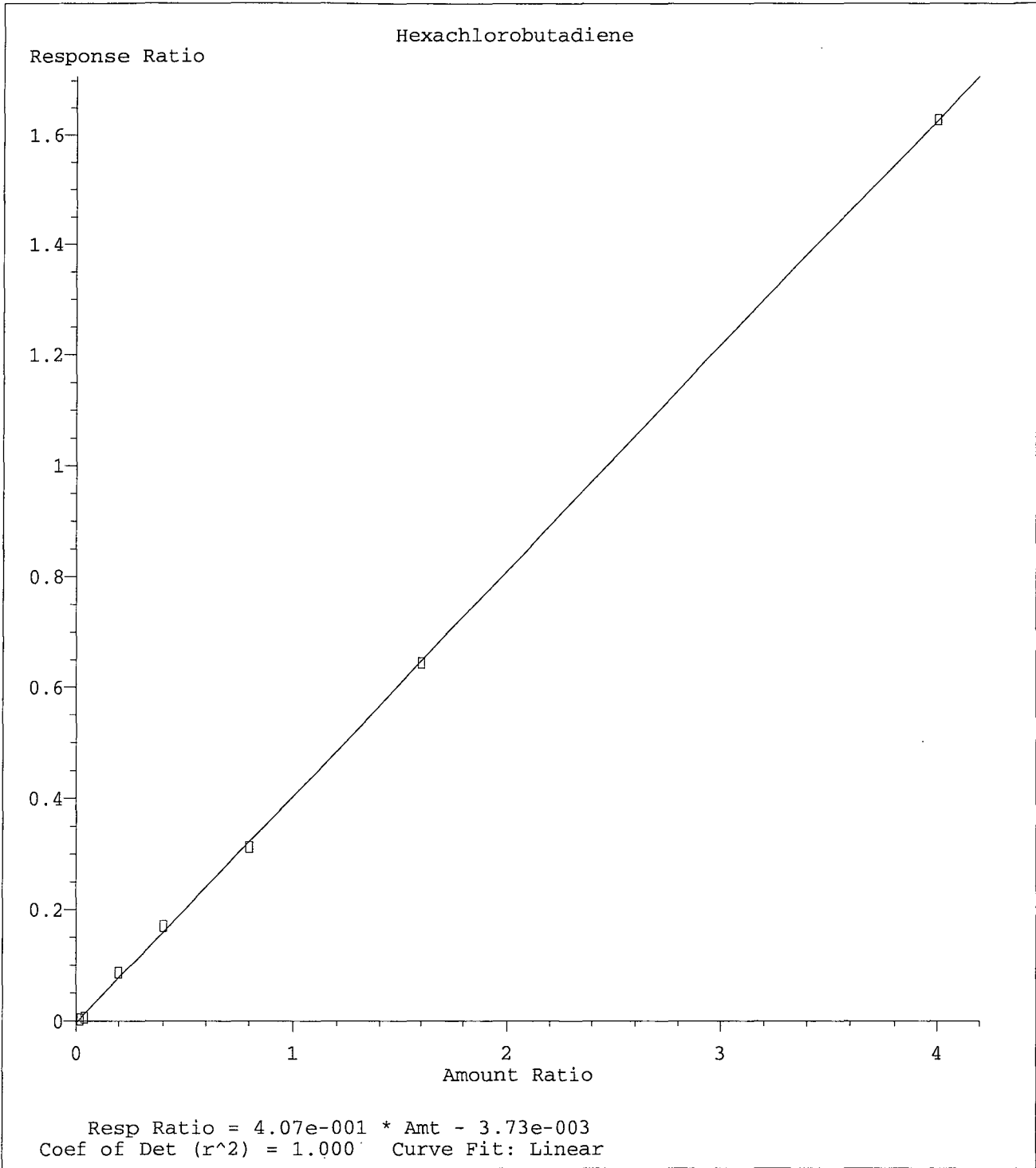
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Calibration Table Last Updated: Mon Aug 05 09:07:45 2019



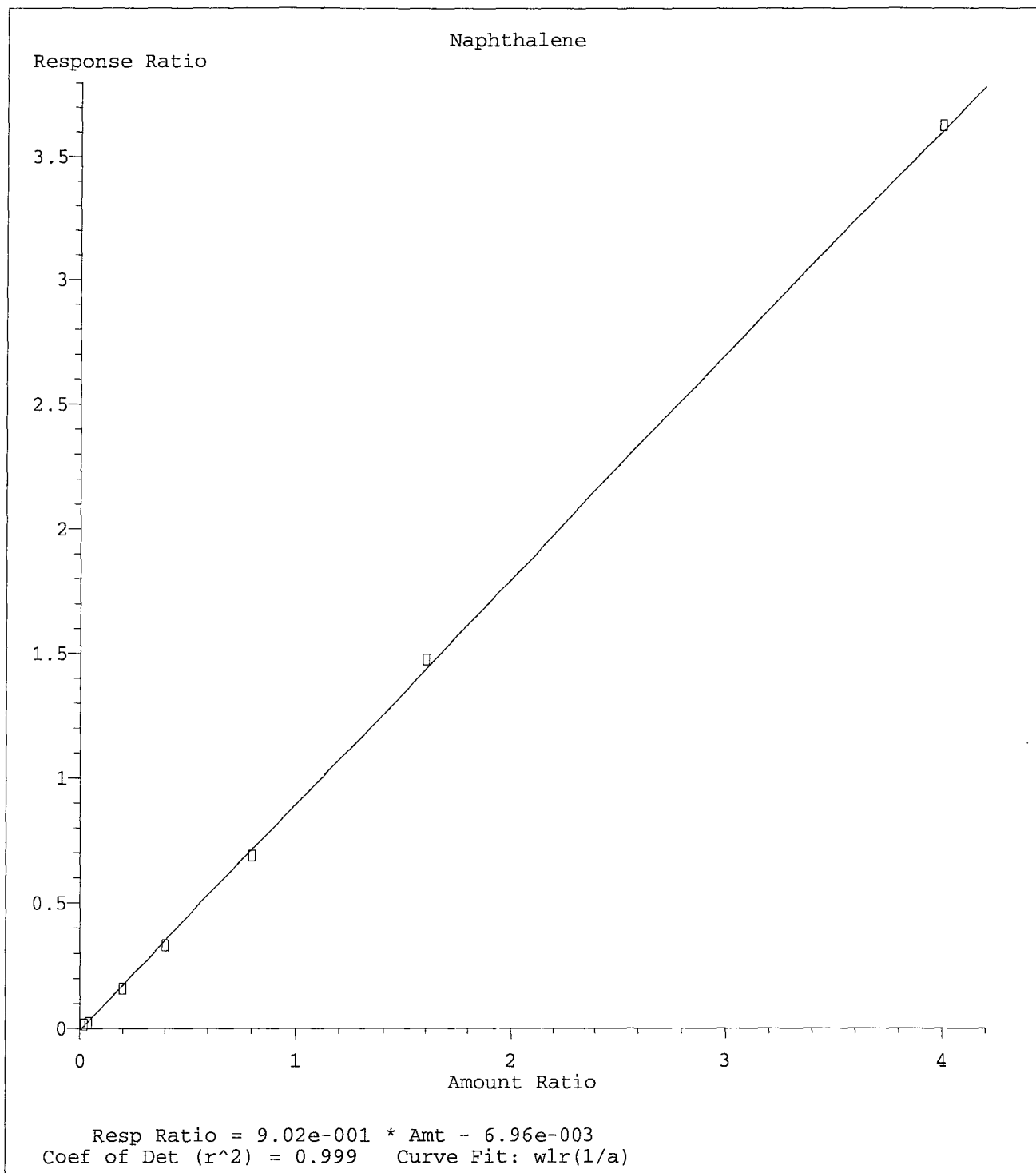
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Calibration Table Last Updated: Mon Aug 05 09:07:45 2019



Method Name: M:\THOR\DATA\T190802\T0802W.M
Calibration Table Last Updated: Mon Aug 05 09:07:45 2019



Method Name: M:\THOR\DATA\T190802\T0802W.M
Calibration Table Last Updated: Mon Aug 05 09:07:45 2019



Method Name: M:\THOR\DATA\T190802\T0802W.M
Calibration Table Last Updated: Mon Aug 05 09:07:45 2019

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 2 Aug 19 16:20
Instrument: Thor
Initial Cal. Date: 08/02/19
Data File: 0802T14.D

		Compound	MEAN	CCRF	%D	%Drift	
1	TM	Chlorotrifluoroethene	0.1201	0.1282	6.8	TM	
2	TML	Dichlorodifluoromethane	0.0885	0.0803	9.2	TML	0.07
3	TM	Freon 114	0.1911	0.1886	1.3	TM	
4	TM**L	Chloromethane	0.4891	0.4113	16	TM**L	4.0
5	TM*	Vinyl chloride	0.2420	0.2469	2.0	TM*	
6	TM	2-Chloro-1,1,1-trifluoroethane	2.671	2.816	5.4	TM	
7	TML	Bromomethane	0.1411	0.0983	30	TML	16
8	TML	Chloroethane	0.1693	0.1451	14	TML	6.4
9	TM	Dichlorofluoromethane	0.3707	0.3677	0.81	TM	
10	TM	Trichlorofluoromethane	0.3490	0.3661	4.9	TM	
11	TM	Diethyl ether	0.0000	0.0004	0.00	TM	
12	TM	Acrolein	0.0326	0.0318	2.4	TM	
13	TML	Acetone	0.1628	0.0955	41	TML	2.0
14	TM	Freon-113	0.1096	0.0972	11	TM	
15	TM*	1,1-DCE	0.3036	0.3086	1.6	TM*	
16	TML	2-Propanol	0.0178	0.0171	4.1	TML	4.3
17	TM	Acetonitrile	0.0314	0.0300	4.6	TM	
18	TM	t-Butanol	0.0124	0.0124	0.13	TM	
19	TML	Methyl Acetate	0.2153	0.2014	6.4	TML	2.0
20	TML	Iodomethane	0.0520	0.0421	19	TML	0.11
21	TML	Acrylonitrile	0.1092	0.1003	8.1	TML	0.77
22	TM	Methylene chloride	0.2899	0.2746	5.3	TM	
23	TM	Carbon disulfide	0.5114	0.5097	0.33	TM	
24	TM	Methyl t-butyl ether (MtBE)	0.6584	0.6581	0.04	TM	
25	TM	Trans-1,2-DCE	0.2818	0.2814	0.14	TM	
26	TM	Hexane	0.0000	0.0143	0.00	TM	
27	TM	Diisopropyl Ether	0.2352	0.2305	2.0	TM	
28	TM**	2,2-Dichloro-1,1,1-trifluoroethane	0.0000	0.0006	0.00	TM**	
29	TM**	1,1-DCA	0.1811	0.1731	4.5	TM**	
30	TM	Vinyl Acetate	0.1861	0.1761	5.4	TM	
31	TM	Ethyl tert Butyl Ether	0.5829	0.5565	4.5	TM	
32	TML	MEK (2-Butanone)	0.1169	0.1087	7.0	TML	1.4
33	TM	Cis-1,2-DCE	0.3677	0.3507	4.6	TM	
34	TML	2,2-Dichloropropane	0.1182	0.1045	12	TML	5.9
35	TM	2-Methylpentane	0.0000	0.0011	0.00	TM	
36	TM	3-Methylpentane	0.0000	0.1361	0.00	TM	
37	TM*L	Chloroform	0.1771	0.1830	3.3	TM*L	6.2
38	TM	Bromochloromethane	0.0713	0.0708	0.77	TM	
39	TML	1,1,1-TCA	0.1600	0.1433	10	TML	3.9
40	TM	Cyclohexane	0.2526	0.2493	1.3	TM	

Average

6.2

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 2 Aug 19 16:20
Instrument: Thor
Cal. Date: 08/02/19
Data File: 0802T14.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	1,1-Dichloropropene	0.2687	0.2668	0.69	TM
42	TM	2,2,4-Trimethylpentane	0.2082	0.1966	5.5	TM
43	TML	Carbon Tetrachloride	0.2322	0.2556	10	TML 5.0
44	TM	Tert Amyl Methyl Ether	0.5645	0.5614	0.56	TM
45	TM	Methylcyclopentane	0.0000	0.0009	0.00	TM
46	TM	1,2-DCA	0.1697	0.1537	9.4	TM
47	TM	Benzene	0.8518	0.8562	0.52	TM
48	TML	TCE	0.2679	0.2681	0.06	TML 0.68
49	TM	2-Pentanone	0.1575	0.1636	3.9	TM
50	TM*	1,2-Dichloropropane	0.2207	0.2167	1.8	TM*
51	TM	Bromodichloromethane	0.2998	0.3088	3.0	TM
52	TM	Methyl Cyclohexane	0.2866	0.2820	1.6	TM
53	TM	Dibromomethane	0.1241	0.1224	1.4	TM
54	TM	MIBK (methyl isobutyl ketone)	0.2191	0.2334	6.5	TM
55	TM	1-Bromo-2-chloroethane	0.3021	0.2823	6.6	TM
56	TM	2-Chloroethyl vinyl ether	0.0041	0.0042	1.5	TM
57	TM	Cis-1,3-Dichloropropene	0.3408	0.3310	2.9	TM
58	TM*	Toluene	0.9176	0.9474	3.2	TM*
59	TM	Trans-1,3-Dichloropropene	0.2022	0.1971	2.5	TM
60	TM	1,1,2-TCA	0.2205	0.2194	0.47	TM
61	TM	2-Hexanone	0.0837	0.0783	6.4	TM
62	TM	1,2-EDB	0.1520	0.1517	0.14	TM
63	TML	Tetrachloroethene	0.3885	0.4160	7.1	TML 3.6
64	TM	1-Chlorohexane	0.2350	0.2285	2.8	TM
65	TML	1,1,1,2-Tetrachloroethane	0.2468	0.2452	0.65	TML 5.8
66	TM	m&p-Xylene	0.4792	0.4794	0.05	TM
67	TM	o-Xylene	0.7927	0.8014	1.1	TM
68	TML	Styrene	0.5883	0.5927	0.75	TML 4.3
69	TM	1,3-Dichloropropane	0.3716	0.3767	1.4	TM
70	TML	Dibromochloromethane	0.2414	0.2676	11	TML 4.4
71	TM**	Chlorobenzene	0.4152	0.4153	0.03	TM**
72	TM*	Ethylbenzene	1.001	1.0000	0.10	TM*
73	TM**	Bromoform	0.1437	0.1375	4.3	TM**
74	TM	Isopropylbenzene	1.647	1.721	4.5	TM
75	TM**	1,1,2,2-Tetrachloroethane	0.5540	0.5304	4.3	TM**
76	TM	1,2,3-Trichloropropane	0.1831	0.1815	0.90	TM
77	TML	t-1,4-Dichloro-2-Butene	0.0861	0.0894	3.8	TML 4.7
78	TM	Bromobenzene	0.4255	0.4600	8.1	TM
79	TM	n-Propylbenzene	1.779	1.840	3.4	TM
80	TM	4-Ethyltoluene	1.370	1.441	5.2	TM

Average

3.2

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 2 Aug 19 16:20

Matrix: 0

Instrument: Thor

Cal. Date: 08/02/19

Data File: 0802T14.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	2-Chlorotoluene	0.7604	0.8163	7.4	TM
82	TM	1,3,5-Trimethylbenzene	1.353	1.347	0.47	TM
83	TM	4-Chlorotoluene	0.7940	0.8418	6.0	TM
84	TM	Tert-Butylbenzene	1.232	1.413	15	TM
85	TM	1,2,4-Trimethylbenzene	1.252	1.271	1.6	TM
86	TM	Sec-Butylbenzene	1.594	1.666	4.5	TM
87	TM	p-Isopropyltoluene	1.357	1.351	0.43	TM
88	TM	Benzyl Chloride	0.2968	0.2650	11	TM
89	TM	1,3-DCB	0.6120	0.6383	4.3	TM
90	TM	1,4-DCB	0.9528	0.9685	1.6	TM
91	TM	n-Butylbenzene	1.095	1.059	3.3	TM
92	TM	1,2-DCB	0.6319	0.5947	5.9	TM
93	TML	Hexachloroethane	0.1019	0.0953	6.6	TML 1.5
94	TML	1,2-Dibromo-3-chloropropane	0.1205	0.1314	9.1	TML 6.7
95	TML	1,2,4-Trichlorobenzene	0.4046	0.4050	0.10	TML 2.4
96	TML	Hexachlorobutadiene	0.3367	0.3832	14	TML 3.6
97	TML	Naphthalene	0.8177	0.8653	5.8	TML 2.1
98	TM	1,2,3-Trichlorobenzene	0.5888	0.6261	6.3	TM
99						
100						
101						
102						
103						
104						
105						
106						
107						
108						
109						
110						
111						
112						
113						
114						
115						
116						
117						
118						
119						
120						

Average

5.7

Data File : M:\THOR\DATA\T190802\0802T14.D
 Acq On : 2 Aug 19 16:20
 Sample : SS 10ug/L VOC STD 08/02/19
 Misc : IS&S 7/5/19,6/5/19

Vial: 14
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Aug 5 9:09 2019

Quant Results File: T0802W.RES

Quant Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Aug 05 09:07:45 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	466176	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	452480	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	257024	25.0000	ppb	0.00

System Monitoring Compounds

40) Dibromofluoromethane(S)	4.62	111	252937	24.1160	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.464%	
45) 1,2-DCA-D4 (S)	5.05	65	283515	24.3302	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.320%	
66) Toluene-D8(S)	7.32	98	860432	24.6066	ppb	0.00
Spiked Amount	25.000		Recovery	=	98.428%	
74) 4-Bromofluorobenzene(S)	9.98	174	347894	23.7103	ppb	0.00
Spiked Amount	25.000		Recovery	=	94.840%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chlorotrifluoroethene	0.85	116	239119	106.7506	ppb	99
3) Dichlorodifluoromethane	0.87	87	14980m	10.0069	ppb	69
4) Freon 114	0.95	85	35166	9.8660	ppb	96
5) Chloromethane	0.98	50	76700	10.3988	ppb	100
6) Vinyl chloride	1.05	62	46038	10.2034	ppb	96
7) 2-Chloro-1,1,1-trifluoroet	1.11	118	5250541	105.4294	ppb	100
8) Bromomethane	1.24	94	18330	11.5786	ppb	98
9) Chloroethane	1.31	64	27064	10.6444	ppb	96
10) Dichlorofluoromethane	1.47	67	68571	9.9190	ppb	98
11) Trichlorofluoromethane	1.50	101	68274	10.4908	ppb	93
13) Acrolein	1.81	56	74238	122.0427	ppb	100
14) Acetone	1.94	43	17802	10.1991	ppb	91
15) Freon-113	1.90	101	18128	8.8731	ppb	90
16) 1,1-DCE	1.88	61	57542	10.1638	ppb	97
17) 2-Propanol	2.11	45	31866	104.2654	ppb	96
18) Acetonitrile	2.17	41	69841	119.2829	ppb	98
19) t-Butanol	2.50	59	28896	125.1678	ppb	98
20) Methyl Acetate	2.24	43	37563	10.1954	ppb	# 84
21) Iodomethane	1.99	142	7855	9.9892	ppb	92
22) Acrylonitrile	2.56	53	18702	10.0775	ppb	95
23) Methylene chloride	2.31	49	51207	9.4738	ppb	97
24) Carbon disulfide	2.04	76	95035	9.9666	ppb	95
25) Methyl t-butyl ether (MtBE)	2.61	73	122725	9.9964	ppb	97
26) Trans-1,2-DCE	2.58	61	52481	9.9856	ppb	98
28) Diisopropyl Ether	3.22	45	42984	9.8000	ppb	97
30) 1,1-DCA	3.05	63	32272	9.5539	ppb	95
31) Vinyl Acetate	3.22	87	32838	9.4633	ppb	85
32) Ethyl tert Butyl Ether	3.73	59	103769	9.5470	ppb	97
33) MEK (2-Butanone)	3.95	43	20270	10.1442	ppb	100
34) Cis-1,2-DCE	3.85	61	65386	9.5367	ppb	91
35) 2,2-Dichloropropane	3.84	77	19480	9.4120	ppb	96
38) Chloroform	4.39	83	34120	10.6184	ppb	92
39) Bromochloromethane	4.22	130	13199	9.9230	ppb	97
41) 1,1,1-TCA	4.60	97	26728	9.6080	ppb	96
42) Cyclohexane	4.67	84	46484	9.8671	ppb	90
43) 1,1-Dichloropropene	4.85	75	49753	9.9313	ppb	91
44) 2,2,4-Trimethylpentane	5.28	57	36668	9.4471	ppb	98
46) Carbon Tetrachloride	4.83	119	47660	9.5025	ppb	93
47) Tert Amyl Methyl Ether	5.36	73	104682	9.9444	ppb	95

(#) = qualifier out of range (m) = manual integration
 0802T14.D T0802W.M Mon Aug 05 09:10:13 2019

Data File : M:\THOR\DATA\T190802\0802T14.D
 Acq On : 2 Aug 19 16:20
 Sample : SS 10ug/L VOC STD 08/02/19
 Misc : IS&S 7/5/19,6/5/19

Vial: 14
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Aug 5 9:09 2019

Quant Results File: T0802W.RES

Quant Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Aug 05 09:07:45 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) 1,2-DCA	5.15	62	28656	9.0575	ppb	99
50) Benzene	5.11	78	159656	10.0522	ppb	97
51) TCE	5.95	130	49996	10.0677	ppb	95
52) 2-Pentanone	6.23	43	381229	129.8244	ppb	100
53) 1,2-Dichloropropane	6.20	63	40399	9.8187	ppb	98
54) Bromodichloromethane	6.55	83	57573	10.2971	ppb	88
55) Methyl Cyclohexane	6.16	83	52580	9.8400	ppb	95
56) Dibromomethane	6.32	174	22824	9.8614	ppb	96
57) MIBK (methyl isobutyl ket	7.26	43	43514	10.6495	ppb	94
58) 1-Bromo-2-chloroethane	6.85	63	52632	9.3436	ppb	98
59) 2-Chloroethyl vinyl ether	6.85	107	2333	30.4420	ppb	# 1
60) Cis-1,3-Dichloropropene	7.05	75	61717	9.7108	ppb	98
61) Toluene	7.39	91	176670	10.3248	ppb	99
62) Trans-1,3-Dichloropropene	7.66	75	36744	9.7457	ppb	96
63) 1,1,2-TCA	7.83	97	40919	9.9535	ppb	98
64) 2-Hexanone	8.14	43	14598	9.3571	ppb	95
67) 1,2-EDB	8.30	107	27464	9.9860	ppb	98
68) Tetrachloroethene	7.95	166	75284	10.3590	ppb	94
69) 1-Chlorohexane	8.85	91	41360	9.7236	ppb	98
70) 1,1,1,2-Tetrachloroethane	8.92	131	44384	9.4212	ppb	98
71) m&p-Xylene	9.08	91	173534	20.0103	ppb	99
72) o-Xylene	9.46	91	145041	10.1095	ppb	96
73) Styrene	9.48	104	107278	9.5700	ppb	100
75) 1,3-Dichloropropane	7.99	76	68179	10.1384	ppb	91
76) Dibromochloromethane	8.21	129	48427	9.5566	ppb	97
77) Chlorobenzene	8.82	112	75168	10.0025	ppb	99
78) Ethylbenzene	8.96	91	180990	9.9901	ppb	100
79) Bromoform	9.63	173	24888	9.5678	ppb	92
81) Isopropylbenzene	9.85	105	176893	10.4487	ppb	98
82) 1,1,2,2-Tetrachloroethane	10.15	83	54530	9.5733	ppb	96
83) 1,2,3-Trichloropropane	10.17	110	18655	9.9105	ppb	95
84) t-1,4-Dichloro-2-Butene	10.21	53	9187	10.4679	ppb	87
85) Bromobenzene	10.10	77	47288	10.8096	ppb	97
86) n-Propylbenzene	10.26	91	189183	10.3428	ppb	96
87) 4-Ethyltoluene	10.37	105	148139	10.5189	ppb	98
88) 2-Chlorotoluene	10.31	91	83922	10.7353	ppb	98
89) 1,3,5-Trimethylbenzene	10.44	105	138450	9.9534	ppb	99
90) 4-Chlorotoluene	10.42	91	86544	10.6024	ppb	99
91) Tert-Butylbenzene	10.75	119	145253	11.4669	ppb	98
92) 1,2,4-Trimethylbenzene	10.80	105	130710	10.1555	ppb	99
93) Sec-Butylbenzene	10.97	105	171261	10.4477	ppb	98
94) p-Isopropyltoluene	11.12	119	138900	9.9573	ppb	98
95) Benzyl Chloride	11.28	91	27248	8.9306	ppb	100
96) 1,3-DCB	11.04	146	65624	10.4294	ppb	98
97) 1,4-DCB	11.13	146	99569	10.1641	ppb	95
98) n-Butylbenzene	11.53	91	108843	9.6721	ppb	93
99) 1,2-DCB	11.49	146	61136	9.4111	ppb	95
100) Hexachloroethane	11.74	117	9793	10.1471	ppb	96
101) 1,2-Dibromo-3-chloropropan	12.26	157	13514	9.3256	ppb	# 88
102) 1,2,4-Trichlorobenzene	13.08	182	41640	9.7648	ppb	93
103) Hexachlorobutadiene	13.28	225	39397	9.6396	ppb	93
104) Naphthalene	13.31	128	88960	9.7876	ppb	98
105) 1,2,3-Trichlorobenzene	13.55	182	64368	10.6333	ppb	95

(#) = qualifier out of range (m) = manual integration
 0802T14.D T0802W.M Mon Aug 05 09:10:14 2019

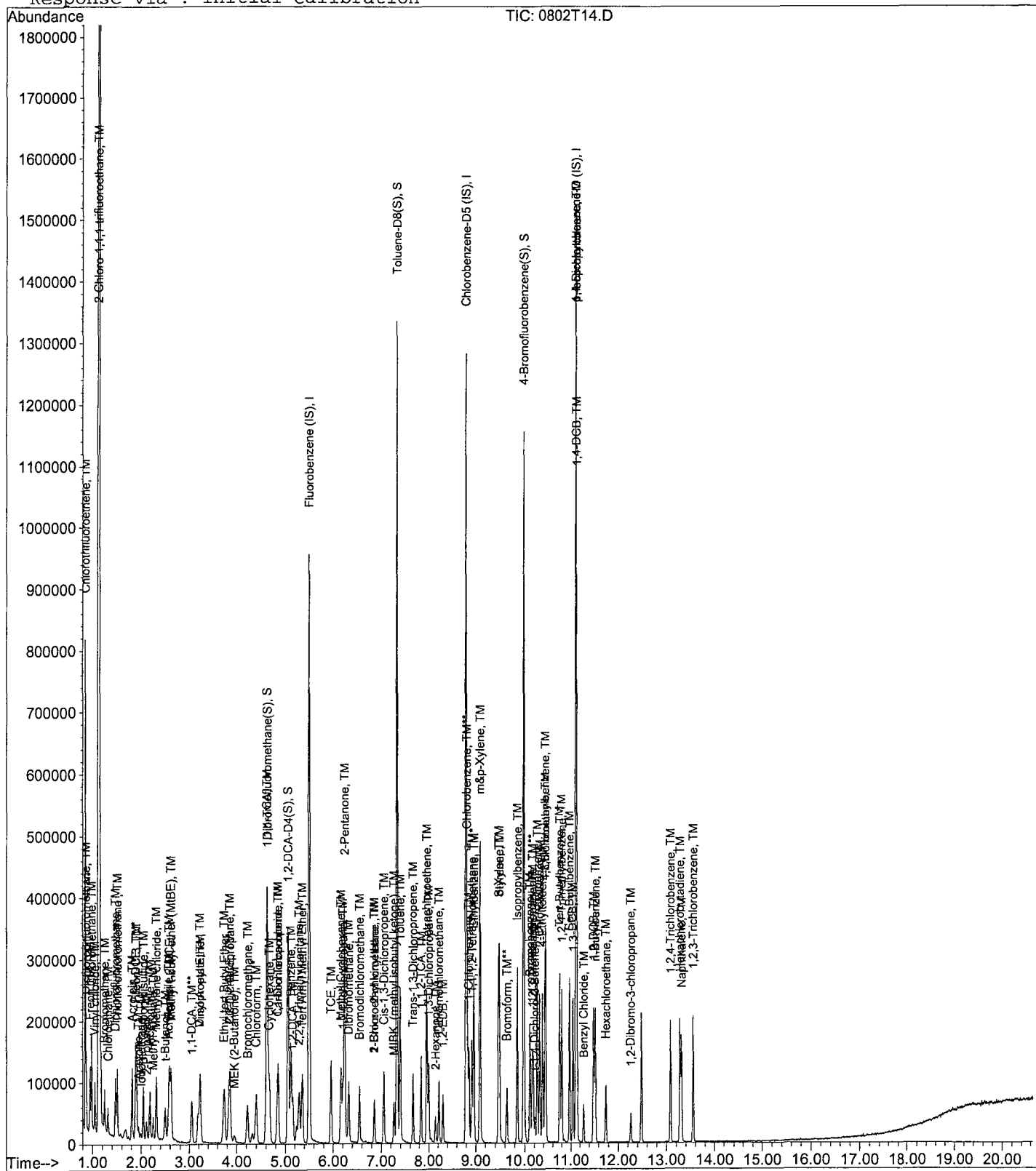
Data File : M:\THOR\DATA\T190802\0802T14.D
Acq On : 2 Aug 19 16:20
Sample : SS 10ug/L VOC STD 08/02/19
Misc : IS&S 7/5/19,6/5/19

Vial: 14
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Aug 5 9:09 2019

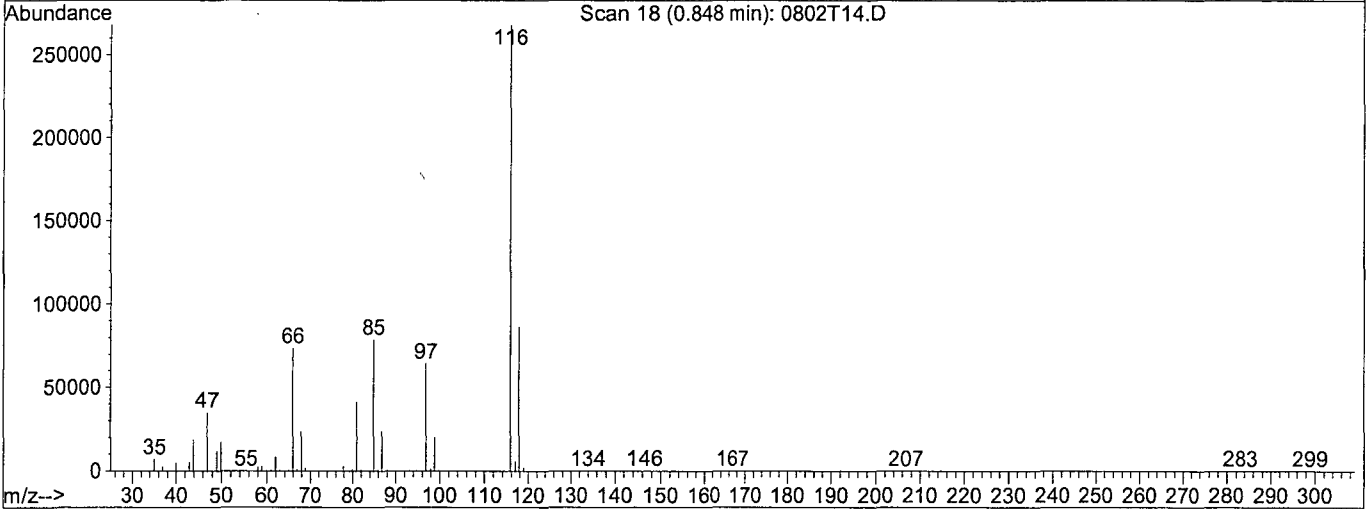
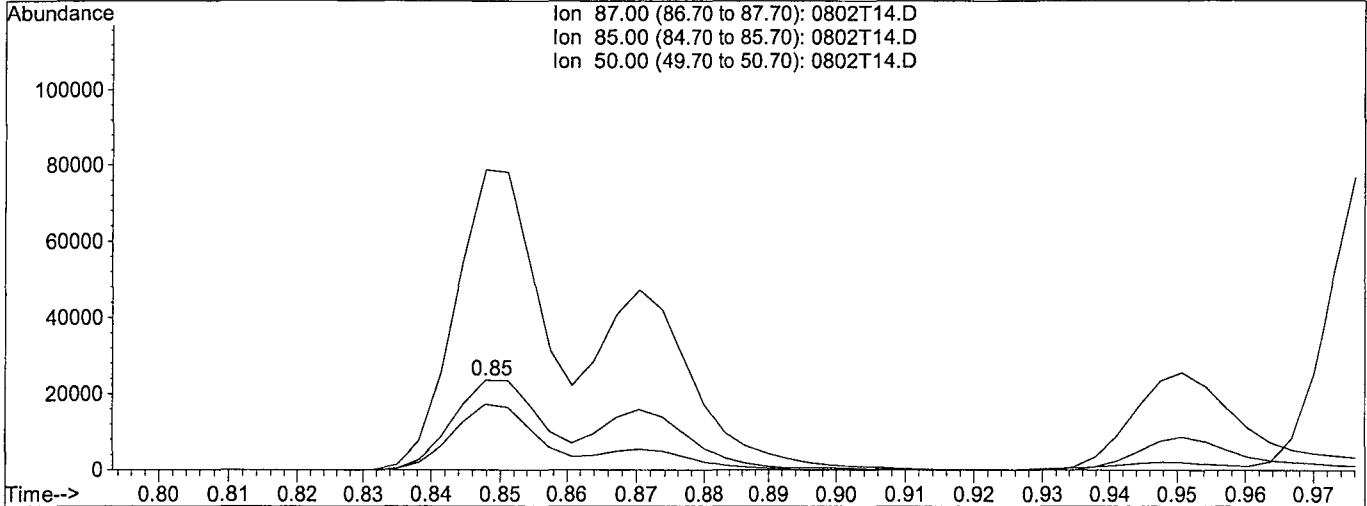
Quant Results File: T0802W.RES

Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Aug 05 09:07:45 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T190802\0802T14.D Vial: 14
 Acq On : 2 Aug 19 16:20 Operator:
 Sample : SS 10ug/L VOC STD 08/02/19 Inst : Thor
 Misc : IS&S 7/5/19,6/5/19 Multiplr: 1.00
 Quant Time: Aug 5 9:08 2019 Quant Results File: temp.res

Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Aug 05 09:07:45 2019
 Response via : Multiple Level Calibration



TIC: 0802T14.D

(3) Dichlorodifluoromethane (TM)

0.85min 24.6346ppb

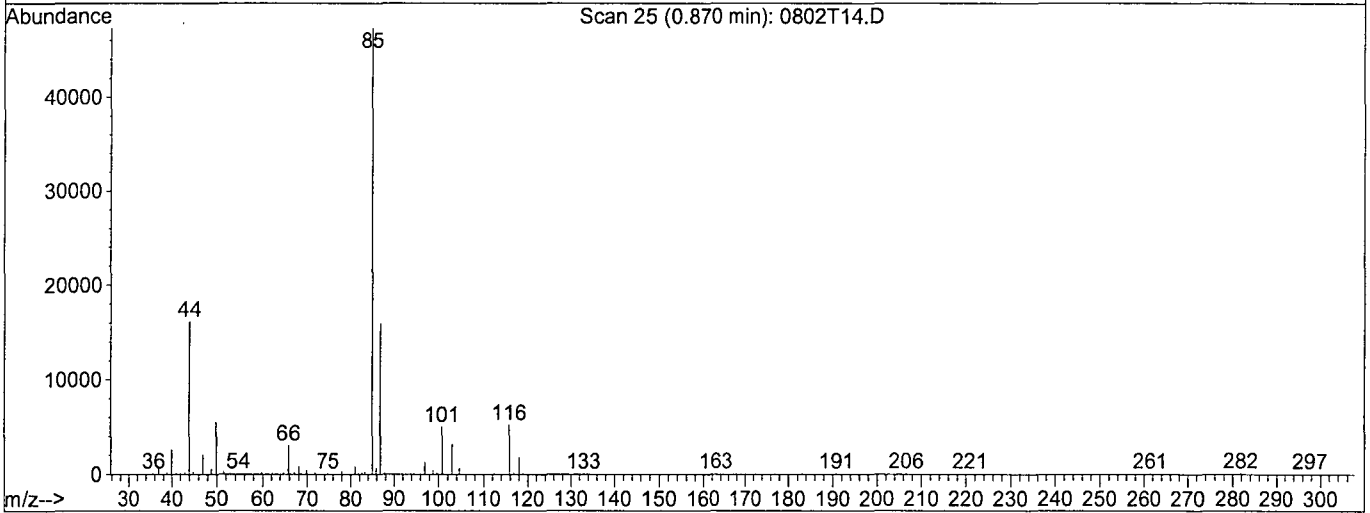
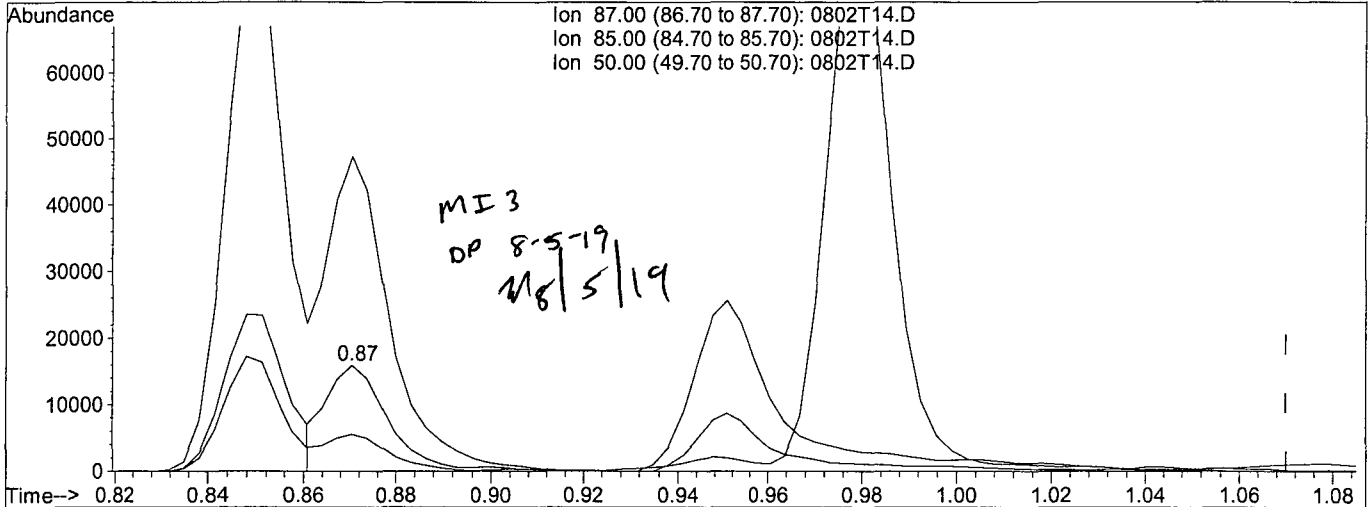
response 36502

Ion	Exp%	Act%
87.00	100	100
85.00	284.80	334.27
50.00	33.10	73.19#
0.00	0.00	0.00

Data File : M:\THOR\DATA\T190802\0802T14.D
 Acq On : 2 Aug 19 16:20
 Sample : SS 10ug/L VOC STD 08/02/19
 Misc : IS&S 7/5/19,6/5/19
 Quant Time: Aug 5 9:09 2019

Vial: 14
 Operator:
 Inst : Thor
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Aug 05 09:07:45 2019
 Response via : Multiple Level Calibration



TIC: 0802T14.D

(3) Dichlorodifluoromethane (TM)

0.87min 10.0069ppb m

response 14980

Ion	Exp%	Act%
87.00	100	100
85.00	284.80	297.07
50.00	33.10	34.77
0.00	0.00	0.00

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 3 Aug 19 12:15

Matrix: _____

Instrument: Thor

Initial Cal. Date: 08/02/19

Data File: 0803T02.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD				
2	TM	Chlorotrifluoroethene	0.1201	0.0001	100	TM	* NT
3	TML	Dichlorodifluoromethane	0.0885	0.0776	12	TML	3.4
4	TM	Freon 114	0.1911	0.1992	4.2	TM	
5	TM**L	Chloromethane	0.4891	0.3882	21	TM**L	2.2
6	TM*	Vinyl chloride	0.2420	0.2473	2.2	TM*	
7	TM	2-Chloro-1,1,1-trifluoroethane	2.671	0.0002	100	TM	* NT
8	TML	Bromomethane	0.1411	0.0864	39	TML	0.19
9	TML	Chloroethane	0.1693	0.1541	9.0	TML	13
10	TM	Dichlorofluoromethane	0.3707	0.3740	0.89	TM	
11	TM	Trichlorofluoromethane	0.3490	0.3764	7.9	TM	
12	TM	Diethyl ether	0.0000	0.0003	0.00	TM	
13	TM	Acrolein	0.0326	0.0323	1.1	TM	
14	TML	Acetone	0.1628	0.0881	46	TML	8.4
15	TM	Freon-113	0.1096	0.1096	0.07	TM	
16	TM*	1,1-DCE	0.3036	0.3260	7.4	TM*	
17	TML	2-Propanol	0.0178	0.0003	98	TML	98 * NT
18	TM	Acetonitrile	0.0314	0.0313	0.24	TM	
19	TM	t-Butanol	0.0124	0.0121	2.1	TM	
20	TML	Methyl Acetate	0.2153	0.1763	18	TML	12
21	TML	Iodomethane	0.0520	0.0617	19	TML	35 * NT
22	TML	Acrylonitrile	0.1092	0.1023	6.3	TML	2.9
23	TM	Methylene chloride	0.2899	0.2676	7.7	TM	
24	TM	Carbon disulfide	0.5114	0.5161	0.92	TM	
25	TM	Methyl t-butyl ether (MtBE)	0.6584	0.6461	1.9	TM	
26	TM	Trans-1,2-DCE	0.2818	0.2934	4.1	TM	
27	TM	Hexane	0.0000	0.0111	0.00	TM	
28	TM	Diisopropyl Ether	0.2352	0.2272	3.4	TM	
29	TM**	2,2-Dichloro-1,1,1-trifluoroethane	0.0000	0.0006	0.00	TM**	
30	TM**	1,1-DCA	0.1811	0.1741	3.9	TM**	
31	TM	Vinyl Acetate	0.1861	0.1837	1.3	TM	
32	TM	Ethyl tert Butyl Ether	0.5829	0.5858	0.49	TM	
33	TML	MEK (2-Butanone)	0.1169	0.0363	69	TML	4.7
34	TM	Cis-1,2-DCE	0.3677	0.3524	4.2	TM	
35	TML	2,2-Dichloropropane	0.1182	0.1261	6.7	TML	6.7
36	TM	2-Methylpentane	0.0000	0.0007	0.00	TM	
37	TM	3-Methylpentane	0.0000	0.1412	0.00	TM	
38	TM*L	Chloroform	0.1771	0.1659	6.3	TM*L	3.8
39	TM	Bromochloromethane	0.0713	0.0673	5.7	TM	
40	SL	Dibromofluoromethane(S)	0.6377	0.5219	18	SL	18

Average

16.1

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 3 Aug 19 12:15
Instrument: Thor
Cal. Date: 08/02/19
Data File: 0803T02.D

		Compound	MEAN	CCRF	%D		%Drift
41	TML	1,1,1-TCA	0.1600	0.1465	8.4	TML	1.7
42	TM	Cyclohexane	0.2526	0.2672	5.8	TM	
43	TM	1,1-Dichloropropene	0.2687	0.2759	2.7	TM	
44	TM	2,2,4-Trimethylpentane	0.2082	0.2284	9.7	TM	
45	SL	1,2-DCA-D4(S)	0.7143	0.5803	19	SL	19
46	TML	Carbon Tetrachloride	0.2322	0.2543	9.5	TML	9.2
47	TM	Tert Amyl Methyl Ether	0.5645	0.5437	3.7	TM	
48	TM	Methylcyclopentane	0.0000	0.0005	0.00	TM	
49	TM	1,2-DCA	0.1697	0.1525	10	TM	
50	TM	Benzene	0.8518	0.8741	2.6	TM	
51	TML	TCE	0.2679	0.2683	0.12	TML	0.73
52	TM	2-Pentanone	0.1575	0.1601	1.7	TM	
53	TM*	1,2-Dichloropropane	0.2207	0.2217	0.48	TM*	
54	TM	Bromodichloromethane	0.2998	0.3016	0.60	TM	
55	TM	Methyl Cyclohexane	0.2866	0.3051	6.5	TM	
56	TM	Dibromomethane	0.1241	0.1186	4.4	TM	
57	TM	MIBK (methyl isobutyl ketone)	0.2191	0.2196	0.24	TM	
58	TM	1-Bromo-2-chloroethane	0.3021	0.2948	2.4	TM	
59	TM	2-Chloroethyl vinyl ether	0.0041	0.0034	16	TM	
60	TM	Cis-1,3-Dichloropropene	0.3408	0.3440	0.93	TM	
61	TM*	Toluene	0.9176	0.9284	1.2	TM*	
62	TM	Trans-1,3-Dichloropropene	0.2022	0.2066	2.2	TM	
63	TM	1,1,2-TCA	0.2205	0.2240	1.6	TM	
64	TM	2-Hexanone	0.0837	0.0835	0.15	TM	
65	I	Chlorobenzene-D5 (IS)	ISTD			I	
66	SL	Toluene-D8(S)	2.171	1.842	15	SL	15
67	TM	1,2-EDB	0.1520	0.1530	0.70	TM	
68	TML	Tetrachloroethene	0.3885	0.4476	15	TML	15
69	TM	1-Chlorohexane	0.2350	0.2459	4.6	TM	
70	TML	1,1,1,2-Tetrachloroethane	0.2468	0.2539	2.9	TML	2.5
71	TM	m&p-Xylene	0.4792	0.4988	4.1	TM	
72	TM	o-Xylene	0.7927	0.8239	3.9	TM	
73	TML	Styrene	0.5883	0.5999	2.0	TML	3.3
74	SL	4-Bromofluorobenzene(S)	0.9014	0.7495	17	SL	17
75	TM	1,3-Dichloropropane	0.3716	0.3743	0.73	TM	
76	TML	Dibromochloromethane	0.2414	0.2600	7.7	TML	7.1
77	TM**	Chlorobenzene	0.4152	0.4211	1.4	TM**	
78	TM*	Ethylbenzene	1.001	1.045	4.4	TM*	
79	TM**	Bromoform	0.1437	0.1296	9.8	TM**	
80	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	

Average

5.2

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 3 Aug 19 12:15
Instrument: Thor
Cal. Date: 08/02/19
Data File: 0803T02.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Isopropylbenzene	1.647	1.791	8.8	TM
82	TM**	1,1,2,2-Tetrachloroethane	0.5540	0.5337	3.7	TM**
83	TM	1,2,3-Trichloropropane	0.1831	0.1819	0.66	TM
84	TML	t-1,4-Dichloro-2-Butene	0.0861	0.0706	18	TML 18
85	TM	Bromobenzene	0.4255	0.4710	11	TM
86	TM	n-Propylbenzene	1.779	1.897	6.6	TM
87	TM	4-Ethyltoluene	1.370	1.478	7.9	TM
88	TM	2-Chlorotoluene	0.7604	0.8505	12	TM
89	TM	1,3,5-Trimethylbenzene	1.353	1.420	4.9	TM
90	TM	4-Chlorotoluene	0.7940	0.8460	6.6	TM
91	TM	Tert-Butylbenzene	1.232	1.348	9.4	TM
92	TM	1,2,4-Trimethylbenzene	1.252	1.339	6.9	TM
93	TM	Sec-Butylbenzene	1.594	1.772	11	TM
94	TM	p-Isopropyltoluene	1.357	1.459	7.5	TM
95	TM	Benzyl Chloride	0.2968	0.3303	11	TM
96	TM	1,3-DCB	0.6120	0.6625	8.2	TM
97	TM	1,4-DCB	0.9528	0.9724	2.1	TM
98	TM	n-Butylbenzene	1.095	1.156	5.6	TM
99	TM	1,2-DCB	0.6319	0.5944	5.9	TM
100	TML	Hexachloroethane	0.1019	0.0838	18	TML 9.3
101	TML	1,2-Dibromo-3-chloropropane	0.1205	0.1195	0.78	TML 16
102	TML	1,2,4-Trichlorobenzene	0.4046	0.3746	7.4	TML 9.6
103	TML	Hexachlorobutadiene	0.3367	0.4023	19	TML 1.1
104	TML	Naphthalene	0.8177	0.7296	11	TML 17
105	TM	1,2,3-Trichlorobenzene	0.5888	0.5255	11	TM
106						
107						
108						
109						
110						
111						
112						
113						
114						
115						
116						
117						
118						
119						
120						

Average

8.6

Data File : M:\THOR\DATA\T190802\0803T02.D
 Acq On : 3 Aug 19 12:15
 Sample : 190803A CCV 10ug/L
 Misc : IS&S 7/5/19,6/5/19

Vial: 2
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Aug 3 12:37 2019

Quant Results File: T0802W.RES

Quant Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Fri Aug 02 17:08:57 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.50	96	487040	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	475520	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	273792	25.0000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	254185	20.4592	ppb	0.00
Spiked Amount				25.000		
			Recovery	=	81.836%	
45) 1,2-DCA-D4(S)	5.05	65	282620	20.3105	ppb	0.00
Spiked Amount				25.000		
			Recovery	=	81.244%	
66) Toluene-D8(S)	7.32	98	875875	21.2136	ppb	0.00
Spiked Amount				25.000		
			Recovery	=	84.856%	
74) 4-Bromofluorobenzene(S)	9.98	174	356418	20.7870	ppb	0.00
Spiked Amount				25.000		
			Recovery	=	83.148%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	0.87	87	15116	9.6593	ppb	77
4) Freon 114	0.95	85	38813	10.4227	ppb	96
5) Chloromethane	0.98	50	75624	9.7772	ppb	100
6) Vinyl chloride	1.05	62	48170	10.2186	ppb	99
8) Bromomethane	1.24	94	16827	9.9812	ppb	95
9) Chloroethane	1.32	64	30016	11.3486	ppb	95
10) Dichlorofluoromethane	1.47	67	72867	10.0889	ppb	99
11) Trichlorofluoromethane	1.50	101	73332	10.7853	ppb	94
13) Acrolein	1.81	56	78573	123.6357	ppb	98
14) Acetone	1.94	43	17162	9.1626	ppb	# 82
15) Freon-113	1.90	101	21360	10.0072	ppb	91
16) 1,1-DCE	1.88	61	63508	10.7370	ppb	94
17) 2-Propanol	2.06	45	561	1.7026	ppb	# 44
18) Acetonitrile	2.17	41	76279	124.6976	ppb	96
19) t-Butanol	2.49	59	29528	126.0790	ppb	98
20) Methyl Acetate	2.24	43	34347	8.8156	ppb	95
21) Iodomethane	1.99	142	12011	13.4857	ppb	84
22) Acrylonitrile	2.56	53	19931	10.2896	ppb	94
23) Methylene chloride	2.30	49	52136	9.2325	ppb	98
24) Carbon disulfide	2.04	76	100536	10.0918	ppb	97
25) Methyl t-butyl ether (MtBE)	2.61	73	125866	9.8131	ppb	97
26) Trans-1,2-DCE	2.58	61	57168	10.4114	ppb	97
28) Diisopropyl Ether	3.22	45	44264	9.6595	ppb	96
30) 1,1-DCA	3.05	63	33920	9.6116	ppb	95
31) Vinyl Acetate	3.22	87	35789	9.8719	ppb	96
32) Ethyl tert Butyl Ether	3.73	59	114114	10.0490	ppb	95
33) MEK (2-Butanone)	3.94	43	7066	9.5269	ppb	# 84
34) Cis-1,2-DCE	3.85	61	68652	9.5841	ppb	94
35) 2,2-Dichloropropane	3.83	77	24568	10.6650	ppb	97
38) Chloroform	4.39	83	32328	9.6172	ppb	98
39) Bromochloromethane	4.22	130	13102	9.4281	ppb	94
41) 1,1,1-TCA	4.60	97	28544	9.8255	ppb	99
42) Cyclohexane	4.66	84	52056	10.5765	ppb	92
43) 1,1-Dichloropropene	4.84	75	53758	10.2710	ppb	91
44) 2,2,4-Trimethylpentane	5.29	57	44500	10.9738	ppb	100
46) Carbon Tetrachloride	4.83	119	49538	9.0791	ppb	93
47) Tert Amyl Methyl Ether	5.35	73	105929	9.6318	ppb	94
49) 1,2-DCA	5.15	62	29707	8.9875	ppb	99
50) Benzene	5.11	78	170292	10.2626	ppb	98

(#) = qualifier out of range (m) = manual integration

Data File : M:\THOR\DATA\T190802\0803T02.D
 Acq On : 3 Aug 19 12:15
 Sample : 190803A CCV 10ug/L
 Misc : IS&S 7/5/19,6/5/19

Vial: 2
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Aug 3 12:37 2019

Quant Results File: T0802W.RES

Quant Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Fri Aug 02 17:08:57 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) TCE	5.95	130	52261	10.0732	ppb	98
52) 2-Pentanone	6.23	43	389884	127.0841	ppb	98
53) 1,2-Dichloropropane	6.20	63	43192	10.0478	ppb	98
54) Bromodichloromethane	6.54	83	58766	10.0602	ppb	93
55) Methyl Cyclohexane	6.16	83	59432	10.6459	ppb	93
56) Dibromomethane	6.32	174	23112	9.5580	ppb	97
57) MIBK (methyl isobutyl ket	7.26	43	42790	10.0237	ppb	94
58) 1-Bromo-2-chloroethane	6.85	63	57431	9.7588	ppb	96
59) 2-Chloroethyl vinyl ether	6.85	107	2006	25.0539	ppb #	1
60) Cis-1,3-Dichloropropene	7.05	75	67020	10.0934	ppb	98
61) Toluene	7.39	91	180864	10.1171	ppb	95
62) Trans-1,3-Dichloropropene	7.65	75	40240	10.2158	ppb	99
63) 1,1,2-TCA	7.83	97	43641	10.1608	ppb	97
64) 2-Hexanone	8.14	43	16274	9.9846	ppb	97
67) 1,2-EDB	8.30	107	29104	10.0696	ppb	99
68) Tetrachloroethene	7.95	166	85130	11.5192	ppb	97
69) 1-Chlorohexane	8.85	91	46766	10.4618	ppb	96
70) 1,1,1,2-Tetrachloroethane	8.92	131	48290	9.7527	ppb	85
71) m&p-Xylene	9.08	91	189762	20.8213	ppb	98
72) o-Xylene	9.46	91	156718	10.3941	ppb	98
73) Styrene	9.48	104	114114	9.6750	ppb	90
75) 1,3-Dichloropropane	7.99	76	71190	10.0732	ppb	97
76) Dibromochloromethane	8.21	129	49454	9.2950	ppb	93
77) Chlorobenzene	8.82	112	80088	10.1408	ppb	100
78) Ethylbenzene	8.96	91	198746	10.4387	ppb	98
79) Bromoform	9.63	173	24648	9.0164	ppb	99
81) Isopropylbenzene	9.84	105	196174	10.8779	ppb	98
82) 1,1,2,2-Tetrachloroethane	10.15	83	58447	9.6326	ppb	97
83) 1,2,3-Trichloropropane	10.17	110	19919	9.9339	ppb	94
84) t-1,4-Dichloro-2-Butene	10.21	53	7737	8.2361	ppb	97
85) Bromobenzene	10.10	77	51584	11.0695	ppb	97
86) n-Propylbenzene	10.25	91	207767	10.6632	ppb	95
87) 4-Ethyltoluene	10.37	105	161815	10.7863	ppb	98
88) 2-Chlorotoluene	10.31	91	93145	11.1854	ppb	99
89) 1,3,5-Trimethylbenzene	10.44	105	155490	10.4939	ppb	99
90) 4-Chlorotoluene	10.42	91	92656	10.6560	ppb	98
91) Tert-Butylbenzene	10.75	119	147644	10.9419	ppb	98
92) 1,2,4-Trimethylbenzene	10.80	105	146630	10.6947	ppb	98
93) Sec-Butylbenzene	10.97	105	194078	11.1146	ppb	98
94) p-Isopropyltoluene	11.12	119	159790	10.7533	ppb	96
95) Benzyl Chloride	11.28	91	36176	11.1306	ppb	96
96) 1,3-DCB	11.04	146	72552	10.8242	ppb	97
97) 1,4-DCB	11.13	146	106496	10.2055	ppb	98
98) n-Butylbenzene	11.52	91	126601	10.5611	ppb	97
99) 1,2-DCB	11.49	146	65096	9.4070	ppb	97
100) Hexachloroethane	11.74	117	9174	9.0682	ppb	90
101) 1,2-Dibromo-3-chloropropan	12.26	157	13089	8.4487	ppb	92
102) 1,2,4-Trichlorobenzene	13.08	182	41024	9.0445	ppb	94
103) Hexachlorobutadiene	13.28	225	44055	10.1078	ppb	91
104) Naphthalene	13.30	128	79904	8.2831	ppb	98
105) 1,2,3-Trichlorobenzene	13.55	182	57553	8.9252	ppb	98

(#) = qualifier out of range (m) = manual integration

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 3 Aug 19 23:37
Instrument: Thor
Initial Cal. Date: 08/02/19
Data File: 0803t26.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	TM	Chlorotrifluoroethene	0.1201	0.0000	100	TM	* NT
3	TML	Dichlorodifluoromethane	0.0885	0.0844	4.6	TML	5.3
4	TM	Freon 114	0.1911	0.1851	3.2	TM	
5	TM**L	Chloromethane	0.4891	0.3662	25	TM**L	8.1
6	TM*	Vinyl chloride	0.2420	0.2232	7.7	TM*	
7	TML	Bromomethane	0.1411	0.0941	33	TML	10
8	TML	Chloroethane	0.1693	0.1407	17	TML	3.0
9	TM	Dichlorofluoromethane	0.3707	0.3538	4.6	TM	
10	TM	Trichlorofluoromethane	0.3490	0.3602	3.2	TM	
11	TM	Diethyl ether	0.0000	0.0001	0.00	TM	
12	TM	Acrolein	0.0326	0.0298	8.6	TM	
13	TML	Acetone	0.1628	0.5617	245	TML	657 *
14	TM	Freon-113	0.1096	0.1035	5.5	TM	
15	TM*	1,1-DCE	0.3036	0.3019	0.57	TM*	
16	TML	2-Propanol	0.0178	0.0026	85	TML	84 * NT
17	TM	Acetonitrile	0.0314	0.0307	2.3	TM	
18	TM	t-Butanol	0.0124	0.0133	7.5	TM	
19	TML	Methyl Acetate	0.2153	0.2033	5.6	TML	3.0
20	TML	Iodomethane	0.0520	0.0608	17	TML	33
21	TML	Acrylonitrile	0.1092	0.1104	1.1	TML	11
22	TM	Methylene chloride	0.2899	0.2681	7.5	TM	
23	TM	Carbon disulfide	0.5114	0.4744	7.2	TM	
24	TM	Methyl t-butyl ether (MtBE)	0.6584	0.6232	5.3	TM	
25	TM	Trans-1,2-DCE	0.2818	0.2698	4.3	TM	
26	TM	Hexane	0.0000	0.0117	0.00	TM	
27	TM	Diisopropyl Ether	0.2352	0.2142	8.9	TM	
28	TM**	2,2-Dichloro-1,1,1-trifluoroethane	0.0000	0.0003	0.00	TM**	
29	TM**	1,1-DCA	0.1811	0.1787	1.4	TM**	
30	TM	Vinyl Acetate	0.1861	0.1687	9.4	TM	
31	TM	Ethyl tert Butyl Ether	0.5829	0.5154	12	TM	
32	TML	MEK (2-Butanone)	0.1169	0.1074	8.1	TML	0.19
33	TM	Cis-1,2-DCE	0.3677	0.3220	12	TM	
34	TML	2,2-Dichloropropane	0.1182	0.0902	24	TML	19
35	TM	2-Methylpentane	0.0000	0.0004	0.00	TM	
36	TM	3-Methylpentane	0.0000	0.1294	0.00	TM	
37	TM*L	Chloroform	0.1771	0.1664	6.0	TM*L	3.5
38	TM	Bromochloromethane	0.0713	0.0659	7.7	TM	
39	SL	Dibromofluoromethane(S)	0.6377	0.6207	2.7	SL	13
40	TML	1,1,1-TCA	0.1600	0.1434	10	TML	3.9
Average					18.0		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 3 Aug 19 23:37
Instrument: Thor
Cal. Date: 08/02/19
Data File: 0803t26.D

		Compound	MEAN	CCRF	%D	%Drift	
41	TM	Cyclohexane	0.2526	0.2321	8.1	TM	
42	TM	1,1-Dichloropropene	0.2687	0.2592	3.5	TM	
43	TM	2,2,4-Trimethylpentane	0.2082	0.1559	25	TM	
44	SL	1,2-DCA-D4(S)	0.7143	0.6825	4.4	SL	12
45	TML	Carbon Tetrachloride	0.2322	0.2394	3.1	TML	10
46	TM	Tert Amyl Methyl Ether	0.5645	0.5248	7.0	TM	
47	TM	Methylcyclopentane	0.0000	0.0003	0.00	TM	
48	TM	1,2-DCA	0.1697	0.1556	8.3	TM	
49	TM	Benzene	0.8518	0.8088	5.0	TM	
50	TML	TCE	0.2679	0.2676	0.12	TML	0.48
51	TM	2-Pentanone	0.1575	0.1534	2.6	TM	
52	TM*	1,2-Dichloropropane	0.2207	0.2057	6.8	TM*	
53	TM	Bromodichloromethane	0.2998	0.3062	2.1	TM	
54	TM	Methyl Cyclohexane	0.2866	0.2462	14	TM	
55	TM	Dibromomethane	0.1241	0.1297	4.5	TM	
56	TM	MIBK (methyl isobutyl ketone)	0.2191	0.2122	3.2	TM	
57	TM	1-Bromo-2-chloroethane	0.3021	0.2870	5.0	TM	
58	TM	2-Chloroethyl vinyl ether	0.0041	0.0045	9.0	TM	
59	TM	Cis-1,3-Dichloropropene	0.3408	0.3187	6.5	TM	
60	TM*	Toluene	0.9176	0.9099	0.84	TM*	
61	TM	Trans-1,3-Dichloropropene	0.2022	0.1753	13	TM	
62	TM	1,1,2-TCA	0.2205	0.2169	1.6	TM	
63	TM	2-Hexanone	0.0837	0.0754	9.9	TM	
64	I	Chlorobenzene-D5 (IS)	ISTD			I	
65	SL	Toluene-D8(S)	2.171	2.135	1.6	SL	12
66	TM	1,2-EDB	0.1520	0.1613	6.2	TM	
67	TML	Tetrachloroethene	0.3885	0.4192	7.9	TML	4.4
68	TM	1-Chlorohexane	0.2350	0.2151	8.5	TM	
69	TML	1,1,1,2-Tetrachloroethane	0.2468	0.2516	1.9	TML	3.3
70	TM	m&p-Xylene	0.4792	0.4688	2.2	TM	
71	TM	o-Xylene	0.7927	0.7973	0.58	TM	
72	TML	Styrene	0.5883	0.5626	4.4	TML	8.7
73	SL	4-Bromofluorobenzene(S)	0.9014	0.8913	1.1	SL	11
74	TM	1,3-Dichloropropane	0.3716	0.3638	2.1	TM	
75	TML	Dibromochloromethane	0.2414	0.2585	7.1	TML	7.6
76	TM**	Chlorobenzene	0.4152	0.4134	0.44	TM**	
77	TM*	Ethylbenzene	1.001	0.9872	1.4	TM*	
78	TM**	Bromoform	0.1437	0.1342	6.6	TM**	
79	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
80	TM	Isopropylbenzene	1.647	1.575	4.4	TM	

Average

5.3

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 3 Aug 19 23:37
Instrument: Thor
Cal. Date: 08/02/19
Data File: 0803t26.D

		Compound	MEAN	CCRF	%D	%Drift	
81	TM**	1,1,2,2-Tetrachloroethane	0.5540	0.5163	6.8	TM**	
82	TM	1,2,3-Trichloropropane	0.1831	0.1914	4.5	TM	
83	TML	t-1,4-Dichloro-2-Butene	0.0861	0.0619	28	TML	28
84	TM	Bromobenzene	0.4255	0.4368	2.7	TM	
85	TM	n-Propylbenzene	1.779	1.693	4.8	TM	
86	TM	4-Ethyltoluene	1.370	1.245	9.1	TM	
87	TM	2-Chlorotoluene	0.7604	0.7701	1.3	TM	
88	TM	1,3,5-Trimethylbenzene	1.353	1.260	6.9	TM	
89	TM	4-Chlorotoluene	0.7940	0.7446	6.2	TM	
90	TM	Tert-Butylbenzene	1.232	1.167	5.3	TM	
91	TM	1,2,4-Trimethylbenzene	1.252	1.144	8.6	TM	
92	TM	Sec-Butylbenzene	1.594	1.483	7.0	TM	
93	TM	p-Isopropyltoluene	1.357	1.240	8.6	TM	
94	TM	Benzyl Chloride	0.2968	0.1938	35	TM	
95	TM	1,3-DCB	0.6120	0.5928	3.1	TM	
96	TM	1,4-DCB	0.9528	0.8767	8.0	TM	
97	TM	n-Butylbenzene	1.095	0.9677	12	TM	
98	TM	1,2-DCB	0.6319	0.5987	5.2	TM	
99	TML	Hexachloroethane	0.1019	0.0802	21	TML	13
100	TML	1,2-Dibromo-3-chloropropane	0.1205	0.1217	1.1	TML	14
101	TML	1,2,4-Trichlorobenzene	0.4046	0.3301	18	TML	20
102	TML	Hexachlorobutadiene	0.3367	0.3344	0.68	TML	16
103	TML	Naphthalene	0.8177	0.6179	24	TML	30
104	TM	1,2,3-Trichlorobenzene	0.5888	0.4792	19	TM	
105							
106							
107							
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111							
112							
113							
114							
115							
116							
117							
118							
119							
120							

Average

10.3

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T190802\0803T26.D
 Acq On : 3 Aug 19 23:37
 Sample : Ending CCV 10ug/L 08/03/19
 Misc : IS&S 7/5/19,6/5/19

Vial: 26
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Aug 5 10:29 2019

Quant Results File: T0802W.RES

Quant Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Aug 05 09:07:45 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.50	96	416896	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	8.79	117	399936	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	11.11	152	238144	25.0000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	4.62	111	258770	28.2617	ppb	0.00
Spiked Amount	25.000		Recovery	=	113.048%	
45) 1,2-DCA-D4(S)	5.05	65	284552	27.9134	ppb	0.00
Spiked Amount	25.000		Recovery	=	111.652%	
66) Toluene-D8(S)	7.32	98	853953	28.0968	ppb	0.00
Spiked Amount	25.000		Recovery	=	112.388%	
74) 4-Bromofluorobenzene(S)	9.98	174	356465	27.7548	ppb	0.00
Spiked Amount	25.000		Recovery	=	111.020%	
Target Compounds						Qvalue
3) Dichlorodifluoromethane	0.87	87	14079	10.5257	ppb	90
4) Freon 114	0.95	85	30859	9.6810	ppb	97
5) Chloromethane	0.98	50	61062	9.1861	ppb	98
6) Vinyl chloride	1.05	62	37228	9.2261	ppb	100
8) Bromomethane	1.24	94	15699	11.0217	ppb	97
9) Chloroethane	1.32	64	23466	10.2961	ppb	99
10) Dichlorofluoromethane	1.47	67	58991	9.5419	ppb	98
11) Trichlorofluoromethane	1.50	101	60061	10.3198	ppb	95
13) Acrolein	1.81	56	62171	114.2866	ppb	96
14) Acetone	1.94	43	93672	75.7228	ppb	93
15) Freon-113	1.90	101	17264	9.4491	ppb	97
16) 1,1-DCE	1.88	61	50340	9.9427	ppb	96
17) 2-Propanol	2.09	45	4347	15.8578	ppb	99
18) Acetonitrile	2.17	41	63933	122.0998	ppb	98
19) t-Butanol	2.49	59	27736	134.3448	ppb	97
20) Methyl Acetate	2.24	43	33902	10.2974	ppb	94
21) Iodomethane	1.99	142	10142	13.3363	ppb	89
22) Acrylonitrile	2.56	53	18411	11.1435	ppb	92
23) Methylene chloride	2.31	49	44711	9.2498	ppb	98
24) Carbon disulfide	2.04	76	79118	9.2781	ppb	97
25) Methyl t-butyl ether (MtBE)	2.61	73	103924	9.4656	ppb	98
26) Trans-1,2-DCE	2.58	61	44998	9.5739	ppb	96
28) Diisopropyl Ether	3.22	45	35720	9.1065	ppb	99
30) 1,1-DCA	3.05	63	29792	9.8623	ppb	98
31) Vinyl Acetate	3.22	87	28130	9.0648	ppb	97
32) Ethyl tert Butyl Ether	3.73	59	85953	8.8426	ppb	98
33) MEK (2-Butanone)	3.94	43	17911	10.0187	ppb	95
34) Cis-1,2-DCE	3.86	61	53696	8.7575	ppb	98
35) 2,2-Dichloropropane	3.84	77	15035	8.0989	ppb	95
38) Chloroform	4.39	83	27752	9.6454	ppb	97
39) Bromochloromethane	4.22	130	10982	9.2322	ppb	97
41) 1,1,1-TCA	4.60	97	23912	9.6118	ppb	95
42) Cyclohexane	4.66	84	38699	9.1856	ppb	85
43) 1,1-Dichloropropene	4.85	75	43232	9.6497	ppb	89
44) 2,2,4-Trimethylpentane	5.28	57	25998	7.4898	ppb	99
46) Carbon Tetrachloride	4.83	119	39929	8.9665	ppb	92
47) Tert Amyl Methyl Ether	5.35	73	87509	9.2957	ppb	# 94
49) 1,2-DCA	5.15	62	25952	9.1725	ppb	98
50) Benzene	5.11	78	134866	9.4952	ppb	99

(#) = qualifier out of range (m) = manual integration
 0803T26.D T0802W.M Mon Aug 05 10:30:55 2019

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T190802\0803T26.D
 Acq On : 3 Aug 19 23:37
 Sample : Ending CCV 10ug/L 08/03/19
 Misc : IS&S 7/5/19,6/5/19

Vial: 26
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Aug 5 10:29 2019

Quant Results File: T0802W.RES

Quant Method : M:\THOR\DATA\T190802\T0802W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Aug 05 09:07:45 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) TCE	5.95	130	44628	10.0481	ppb	94
52) 2-Pentanone	6.23	43	319758	121.7627	ppb	96
53) 1,2-Dichloropropane	6.19	63	34298	9.3212	ppb	96
54) Bromodichloromethane	6.55	83	51067	10.2131	ppb	98
55) Methyl Cyclohexane	6.16	83	41051	8.5905	ppb	90
56) Dibromomethane	6.33	174	21624	10.4473	ppb	84
57) MIBK (methyl isobutyl ket	7.26	43	35383	9.6831	ppb	94
58) 1-Bromo-2-chloroethane	6.85	63	47856	9.4999	ppb	96
59) 2-Chloroethyl vinyl ether	6.85	107	2242	32.7127	ppb	# 79
60) Cis-1,3-Dichloropropene	7.05	75	53153	9.3519	ppb	95
61) Toluene	7.39	91	151735	9.9158	ppb	98
62) Trans-1,3-Dichloropropene	7.65	75	29232	8.6698	ppb	97
63) 1,1,2-TCA	7.83	97	36177	9.8402	ppb	98
64) 2-Hexanone	8.14	43	12568	9.0082	ppb	99
67) 1,2-EDB	8.30	107	25808	10.6168	ppb	87
68) Tetrachloroethene	7.95	166	67062	10.4394	ppb	96
69) 1-Chlorohexane	8.85	91	34417	9.1544	ppb	99
70) 1,1,1,2-Tetrachloroethane	8.92	131	40252	9.6660	ppb	95
71) m&p-Xylene	9.08	91	149989	19.5676	ppb	100
72) o-Xylene	9.47	91	127544	10.0579	ppb	96
73) Styrene	9.48	104	90006	9.1322	ppb	91
75) 1,3-Dichloropropane	7.99	76	58193	9.7903	ppb	94
76) Dibromochloromethane	8.21	129	41349	9.2422	ppb	98
77) Chlorobenzene	8.82	112	66128	9.9557	ppb	97
78) Ethylbenzene	8.96	91	157931	9.8626	ppb	98
79) Bromoform	9.63	173	21464	9.3356	ppb	97
81) Isopropylbenzene	9.85	105	150024	9.5641	ppb	99
82) 1,1,2,2-Tetrachloroethane	10.15	83	49186	9.3197	ppb	92
83) 1,2,3-Trichloropropane	10.17	110	18234	10.4548	ppb	91
84) t-1,4-Dichloro-2-Butene	10.21	53	5893	7.1885	ppb	94
85) Bromobenzene	10.10	77	41608	10.2653	ppb	100
86) n-Propylbenzene	10.26	91	161263	9.5154	ppb	95
87) 4-Ethyltoluene	10.37	105	118609	9.0898	ppb	97
88) 2-Chlorotoluene	10.31	91	73362	10.1285	ppb	98
89) 1,3,5-Trimethylbenzene	10.44	105	120013	9.3120	ppb	98
90) 4-Chlorotoluene	10.42	91	70928	9.3782	ppb	98
91) Tert-Butylbenzene	10.75	119	111145	9.4699	ppb	96
92) 1,2,4-Trimethylbenzene	10.80	105	108997	9.1399	ppb	97
93) Sec-Butylbenzene	10.97	105	141261	9.3008	ppb	99
94) p-Isopropyltoluene	11.12	119	118162	9.1422	ppb	99
95) Benzyl Chloride	11.28	91	18464	6.5314	ppb	100
96) 1,3-DCB	11.04	146	56464	9.6850	ppb	99
97) 1,4-DCB	11.13	146	83512	9.2009	ppb	99
98) n-Butylbenzene	11.53	91	92185	8.8412	ppb	96
99) 1,2-DCB	11.49	146	57032	9.4754	ppb	98
100) Hexachloroethane	11.74	117	7642	8.7353	ppb	95
101) 1,2-Dibromo-3-chloropropan	12.26	157	11595	8.6109	ppb	89
102) 1,2,4-Trichlorobenzene	13.08	182	31448	7.9923	ppb	100
103) Hexachlorobutadiene	13.27	225	31850	8.4401	ppb	94
104) Naphthalene	13.31	128	58856	7.0440	ppb	99
105) 1,2,3-Trichlorobenzene	13.55	182	45646	8.1383	ppb	95

(#) = qualifier out of range (m) = manual integration
 0803T26.D T0802W.M Mon Aug 05 10:30:56 2019

