



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

January 14, 2022

AECOM  
1001 Bishop Street, Suite 1600  
Honolulu, Hawaii 96813

Attn: Alethea Ramos

Title: Report of Data: Case 98337

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. Ramos:

Twelve water samples were received November 27, 2021. Written results for the requested analyses are being provided on this January 14, 2022.

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 his designee, as verified by the following signature.

for

Loren Portwood, Laboratory Director  
APPL, Inc.

LP/lac  
Enclosure  
cc: File

Data Validation Package  
for  
60571032 CV18F0126 Red Hill Fuel Storage  
APPL SDG 98337  
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# **CASE NARRATIVE**

# Case Narrative

ARF: 98337

Project: 60571032 CV18F0126 Red Hill Fuel Storage. HI

## **Sample Receipt Information:**

Twelve water samples were received November 27, 2021 at 0.1°C, 1.1°C, and 0.1°C. The sample group was assigned Analytical Request Form (ARF) number 98337.

## **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 analyzed.

For the EPA 8015B analysis, pre-extraction sample blanks were extracted according to EPA method 3520C before the method QC and field samples. The sample blanks are included in this report.

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

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

For the EPA 9060A analysis, 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 8015B:** In the 211201A1 method blank, Oil was detected above one-half the LOQ. The samples were B flagged.

The 211201A1-LCS/LCSD recovers motor oil above the upper control limit.

**EPA 8015B SGC:** The CCV, file 1202082.D, recovers ortho-terphenyl below the lower control limit.

**EPA 8015B Blank:** The CCV, file 1202056.D, recovers ortho-terphenyl below the lower control limit.

**EPA 8270D SIM:** In the LCS/LCSD, all RPD exceeded the 20% limit.

qryCOC\_APPLCaseNarrativeReport

SDG	Received	Client ID	APPL ID	Collected DateTime	Matrix	Method	Method Description	Prep DateTime	Analysis DateTime
98337	11/27/2021	ERH1946	BA46978	11/24/2021 9:05:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER	12/7/2021 8:19:00 PM	12/7/2021 8:19:00 PM
98337	11/27/2021	ERH1946	BA46978	11/24/2021 9:05:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER	12/7/2021 8:19:00 PM	12/7/2021 8:19:00 PM
98337	11/27/2021	ERH1947	BA46979	11/24/2021 9:10:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER	12/7/2021 8:43:00 PM	12/7/2021 8:43:00 PM
98337	11/27/2021	ERH1947	BA46979	11/24/2021 9:10:00 AM	WATER	EPA 8015B-eHL	EPA 8015B TPH WATER L-L SGC	12/1/2021 10:12:00 AM	12/4/2021 8:31:00 AM
98337	11/27/2021	ERH1947	BA46979	11/24/2021 9:10:00 AM	WATER	EPA 8015B-eHL	EPA 8015B TPH LIQ-LIQ	12/1/2021 10:12:00 AM	12/16/2021 12:33:00 AM
98337	11/27/2021	ERH1947	BA46979	11/24/2021 9:10:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER	12/7/2021 8:43:00 PM	12/7/2021 8:43:00 PM
98337	11/27/2021	ERH1947	BA46979	11/24/2021 9:10:00 AM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ	11/29/2021 12:23:00 PM	12/1/2021 12:47:00 PM
98337	11/27/2021	ERH1947	BA46979	11/24/2021 9:10:00 AM	WATER	SW846 9060A	9060A TOC	11/30/2021 8:05:00 AM	11/30/2021 8:05:00 AM
98337	11/27/2021	ERH1949	BA46980	11/24/2021 11:25:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER	12/7/2021 9:07:00 PM	12/7/2021 9:07:00 PM
98337	11/27/2021	ERH1949	BA46980	11/24/2021 11:25:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER	12/7/2021 9:07:00 PM	12/7/2021 9:07:00 PM
98337	11/27/2021	ERH1950	BA46981	11/24/2021 11:30:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER	12/7/2021 9:31:00 PM	12/7/2021 9:31:00 PM
98337	11/27/2021	ERH1950	BA46981	11/24/2021 11:30:00 AM	WATER	EPA 8015B-eHL	EPA 8015B TPH WATER L-L SGC	12/1/2021 10:12:00 AM	12/4/2021 8:59:00 AM
98337	11/27/2021	ERH1950	BA46981	11/24/2021 11:30:00 AM	WATER	EPA 8015B-eHL	EPA 8015B TPH LIQ-LIQ	12/1/2021 10:12:00 AM	12/16/2021 1:01:00 AM
98337	11/27/2021	ERH1950	BA46981	11/24/2021 11:30:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER	12/7/2021 9:31:00 PM	12/7/2021 9:31:00 PM
98337	11/27/2021	ERH1950	BA46981	11/24/2021 11:30:00 AM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ	11/29/2021 12:23:00 PM	12/1/2021 1:07:00 PM
98337	11/27/2021	ERH1950	BA46981	11/24/2021 11:30:00 AM	WATER	SW846 9060A	9060A TOC	11/30/2021 7:24:00 AM	11/30/2021 7:24:00 AM
98337	11/27/2021	ERH1952	BA46982	11/24/2021 12:20:00 PM	WATER	EPA 8260B	EPA 8260B BTEX WATER	12/7/2021 9:55:00 PM	12/7/2021 9:55:00 PM
98337	11/27/2021	ERH1952	BA46982	11/24/2021 12:20:00 PM	WATER	EPA 8260B	EPA 8260B GRO WATER	12/7/2021 9:55:00 PM	12/7/2021 9:55:00 PM
98337	11/27/2021	ERH1953	BA46983	11/24/2021 12:25:00 PM	WATER	EPA 8260B	EPA 8260B BTEX WATER	12/7/2021 10:19:00 PM	12/7/2021 10:19:00 PM
98337	11/27/2021	ERH1953	BA46983	11/24/2021 12:25:00 PM	WATER	EPA 8015B-eHL	EPA 8015B TPH WATER L-L SGC	12/1/2021 10:12:00 AM	12/4/2021 9:27:00 AM
98337	11/27/2021	ERH1953	BA46983	11/24/2021 12:25:00 PM	WATER	EPA 8015B-eHL	EPA 8015B TPH LIQ-LIQ	12/1/2021 10:12:00 AM	12/16/2021 1:29:00 AM
98337	11/27/2021	ERH1953	BA46983	11/24/2021 12:25:00 PM	WATER	EPA 8260B	EPA 8260B GRO WATER	12/7/2021 10:19:00 PM	12/7/2021 10:19:00 PM
98337	11/27/2021	ERH1953	BA46983	11/24/2021 12:25:00 PM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ	11/29/2021 12:23:00 PM	12/1/2021 1:27:00 PM
98337	11/27/2021	ERH1953	BA46983	11/24/2021 12:25:00 PM	WATER	SW846 9060A	9060A TOC	11/30/2021 6:02:00 AM	11/30/2021 6:02:00 AM
98337	11/27/2021	ERH1955	BA46984	11/24/2021 10:15:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER	12/7/2021 10:43:00 PM	12/7/2021 10:43:00 PM
98337	11/27/2021	ERH1955	BA46984	11/24/2021 10:15:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER	12/7/2021 10:43:00 PM	12/7/2021 10:43:00 PM
98337	11/27/2021	ERH1956	BA46985	11/24/2021 10:25:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER	12/7/2021 11:07:00 PM	12/7/2021 11:07:00 PM
98337	11/27/2021	ERH1956	BA46985	11/24/2021 10:25:00 AM	WATER	EPA 8015B-eHL	EPA 8015B TPH WATER L-L SGC	12/1/2021 10:12:00 AM	12/4/2021 9:55:00 AM
98337	11/27/2021	ERH1956	BA46985	11/24/2021 10:25:00 AM	WATER	EPA 8015B-eHL	EPA 8015B TPH LIQ-LIQ	12/1/2021 10:12:00 AM	12/16/2021 2:26:00 AM
98337	11/27/2021	ERH1956	BA46985	11/24/2021 10:25:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER	12/7/2021 11:07:00 PM	12/7/2021 11:07:00 PM
98337	11/27/2021	ERH1956	BA46985	11/24/2021 10:25:00 AM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ	11/29/2021 12:23:00 PM	12/1/2021 1:47:00 PM
98337	11/27/2021	ERH1956	BA46985	11/24/2021 10:25:00 AM	WATER	SW846 9060A	9060A TOC	11/30/2021 6:42:00 AM	11/30/2021 6:42:00 AM
98337	11/27/2021	ERH1947 BLANK	BA46986	11/24/2021 9:10:00 AM	WATER	EPA 8015B-eHL	EPA 8015B TPH LIQ-LIQ	11/30/2021 9:09:00 AM	12/3/2021 5:02:00 PM
98337	11/27/2021	ERH1950 BLANK	BA46987	11/24/2021 11:30:00 AM	WATER	EPA 8015B-eHL	EPA 8015B TPH LIQ-LIQ	11/30/2021 9:09:00 AM	12/3/2021 5:30:00 PM
98337	11/27/2021	ERH1953 BLANK	BA46988	11/24/2021 12:25:00 PM	WATER	EPA 8015B-eHL	EPA 8015B TPH LIQ-LIQ	11/30/2021 9:09:00 AM	12/3/2021 3:36:00 PM
98337	11/27/2021	ERH1956 BLANK	BA46989	11/24/2021 10:25:00 AM	WATER	EPA 8015B-eHL	EPA 8015B TPH LIQ-LIQ	11/30/2021 9:09:00 AM	12/3/2021 4:33:00 PM

**APPL Inc.**  
**Abbreviations and Flags**


<b>FLAG</b>	<b>DESCRIPTION</b>
#	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

**98337**

Client: AECOM  
 Address: 1001 Bishop Street, Suite 1600  
Honolulu, HI 96813  
 Attn: Alethea Ramos  
 Phone: 808-954-4536 Fax: 808-523-8950  
 Job: 60571032 CV18F0126 Red Hill Fuel Storag  
 PO #: 18S-22209-HI27 PO# 102604  
 Chain of Custody (Y/N) Y 50089  
 RAD Screen (Y/N): Y pH (Y/N): Y  
 Turn Around Type: 1 WEEK

Received by: MSA   
 Date Received: 11/27/21 Time: 12:10  
 Delivered by: FEDEX  
 Shuttle Custody Seals (Y/N): Y Time Zone: -10  
 Chest Temp(s): 0.1,0.1,0.1°C  
 Color: VFRG/Receiving  
 Samples Chilled until Placed in Refrig/Freezer: Y  
 Project Manager: Libby Cheesebor  
 QC Report Type: DVP4DOD/EQUIS/HI  
 Due Date: 12/06/21

**Comments:**

PM: login and F1s to Margie.Pascua@aecom.com & alethea.ramos@aecom.com  
 AN: 7 day TAT for Form 1s; 21 day TAT for PKG STYLE 1; DOD v5.1; DOD Forms: LOD database  
 Report MS/MSD/DUPs when AECOM sample used  
 8260: BTEX & TPH-G only; 8270 SIM: 1-methylnaphthalene, 2-methylnaphthalene & naphthalene only.  
 TPH-D/O both with and w/o SGC, reverse surrog for SGC; DO NOT Q-DELETE.  
 FR: email ftp info to Margie, alethea.ramos@aecom.com, Stella, trommelfanger@lab-data.com  
 EDD: AECOM EQUIS EDD 2.5.3 to alethea.ramos@, Margie.Pascua@aecom.com, jecklund@lab-data.com




**Sample Distribution:**

GC: 4-\$DOC53SGCW5LIQ, 4-\$DOC53W5LIQ, 4-\$SIM53LIQ51, 4-\$RHBLKETBLK  
 Extractions: 4- LIQ003, 8- LIQ005, 4- LIQ005SGC  
 VOA: 8-\$86BTOTXDOD5W, 8-\$GASBL, 8-\$GRO86BW  
 Wetlab: 4-\$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. ERH1946	LCSD BA46978W 	11/24/21 09:05	\$86BTOTXDOD5W, \$GASBL, \$GRO86BW -- See Comments
2. ERH1947	LCSD BA46979W 	11/24/21 09:10	\$86BTOTXDOD5W, \$DOC53SGCW5LIQ, \$DOC53W5LIQ, \$GASBL, \$GRO86BW, \$SIM53LIQ51, \$TOCW53 -- See Comments
3. ERH1949	LCSD BA46980W 	11/24/21 11:25	\$86BTOTXDOD5W, \$GASBL, \$GRO86BW -- See Comments

**# 98337**



# APPL - Analysis Request Form

**98337**

4.	ERH1950	LCSD	BA46981W 	11/24/21	11:30	\$86BTOTXDOD5W, \$DOC53SGCW5LIQ, \$DOC53W5LIQ, \$GASBL, \$GRO86BW, \$SIM53LIQ51, \$TOCW53 -- See Comments
5.	ERH1952	LCSD	BA46982W 	11/24/21	12:20	\$86BTOTXDOD5W, \$GASBL, \$GRO86BW -- See Comments
6.	ERH1953	LCSD	BA46983W 	11/24/21	12:25	\$86BTOTXDOD5W, \$DOC53SGCW5LIQ, \$DOC53W5LIQ, \$GASBL, \$GRO86BW, \$SIM53LIQ51, \$TOCW53 -- See Comments
7.	ERH1955	LCSD	BA46984W 	11/24/21	10:15	\$86BTOTXDOD5W, \$GASBL, \$GRO86BW -- See Comments
8.	ERH1956	LCSD	BA46985W 	11/24/21	10:25	\$86BTOTXDOD5W, \$DOC53SGCW5LIQ, \$DOC53W5LIQ, \$GASBL, \$GRO86BW, \$SIM53LIQ51, \$TOCW53 -- See Comments
9.	ERH1947 BLANK	LCSD	BA46986W 	11/24/21	09:10	\$RHBLKETBLK -- See Comments
10.	ERH1950 BLANK	LCSD	BA46987W 	11/24/21	11:30	\$RHBLKETBLK -- See Comments
11.	ERH1953 BLANK	LCSD	BA46988W 	11/24/21	12:25	\$RHBLKETBLK -- See Comments
12.	ERH1956 BLANK	LCSD	BA46989W 	11/24/21	10:25	\$RHBLKETBLK -- 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# 98337

Sample	Container Type	Count	p
BA46978	<sup>13</sup> VOAs - HCL	4	NA
BA46979	<sup>13</sup> VOAs - HCL	4	NA
	<sup>17</sup> Amber Liter	2	NA
	<sup>32</sup> Clear VOA - H2SO4	2	NA
	<sup>39</sup> Amber Liter, HCL prsvd	2	1.3
BA46980	<sup>13</sup> VOAs - HCL	4	NA
BA46981	<sup>13</sup> VOAs - HCL	4	NA
	<sup>17</sup> Amber Liter	2	NA
	<sup>32</sup> Clear VOA - H2SO4	2	NA
	<sup>39</sup> Amber Liter, HCL prsvd	2	1.3
BA46982	<sup>13</sup> VOAs - HCL	4	NA
BA46983	<sup>13</sup> VOAs - HCL	4	NA
	<sup>17</sup> Amber Liter	2	NA
	<sup>32</sup> Clear VOA - H2SO4	2	NA
	<sup>39</sup> Amber Liter, HCL prsvd	2	1.3
BA46984	<sup>13</sup> VOAs - HCL	4	NA
BA46985	<sup>13</sup> VOAs - HCL	4	NA
	<sup>17</sup> Amber Liter	2	NA
	<sup>32</sup> Clear VOA - H2SO4	2	NA
	<sup>39</sup> Amber Liter, HCL prsvd	2	1.3
BA46986	<sup>39</sup> Amber Liter, HCL prsvd	1	NA
BA46987	<sup>39</sup> Amber Liter, HCL prsvd	1	NA
BA46988	<sup>39</sup> Amber Liter, HCL prsvd	1	NA
BA46989	<sup>39</sup> Amber Liter, HCL prsvd	1	NA

Sample    Container Type    Count    p



APPL, Inc.  
908 N Temperance Ave  
Clovis, CA 93611

Phone: (559) 275-2175  
Fax: (559) 275-4422

CHAIN OF CUSTODY RECORD

98337

315

C.O.C. 50089 NOI

#2

Report to: <u>PLEASE PRINT</u> Company Name: _____ Phone: _____ Address: <u>AECOM</u> 1001 Bishop St., Suite 1600 Honolulu, HI 96813 Attn: <u>Alethea Ramos (808)521-3051</u> <u>Alethea.Ramos@aecom.com</u>	Invoice to: <u>PLEASE PRINT</u> Company Name: <u>AECOM</u> Phone: _____ Address: <u>1001 Bishop St., Suite 1600</u> <u>Honolulu, HI 96813</u> <u>Attn: Sheree Smith (808)521-3051</u> <u>Sheree.Smith@aecom.com</u> <u>USAImaging@aecom.com</u>
--	---

Project Name/Number	Sampler (Print)	Analysis Requested/Method Number					Date Shipped: <u>11/26/21</u>	
		Matrix						
Purchase Order Number	Sampler (Signature)	No. of Containers	Aq	Sed.	Soil	<u>PTX-W 8260</u> <u>TPH-GW 8260</u> <u>TPH-d/o by 80's</u> <u>TPH-d/o t-50's C</u> <u>PAH Swartlast</u> <u>8210P SIM</u> <u>TOC by 8260</u>	Carrier: <u>FedEx</u>	
Sample Identification	Location						Date Collected	Time Collected
<u>60571032.02.20.01</u>	<u>GM, NL, MY</u>							
<u>102604</u>	<u>Matthew Jim</u>							
<u>ERH1946</u>	<u>Top Blank</u>	<u>11/24/21</u>	<u>0905</u>	<u>HST</u>	<u>4</u>	<u>X</u>	<u>X</u>	<u>SDG's from other</u> <u>COC's.</u>  <u>TPH-d/o and PAH's</u> <u>need liquid-liquid</u> <u>extraction,</u> <u>*Naphthalene</u> <u>1-methylnaphthalene</u> <u>2-methylnaphthalene</u>
<u>ERH1947</u>	<u>RHMW05</u>		<u>0910</u>		<u>10</u>	<u>X</u>	<u>X</u>	
<u>ERH1949</u>	<u>Top Blank</u>		<u>1125</u>		<u>0</u>	<u>X</u>	<u>X</u>	
<u>ERH1950</u>	<u>RHMW02</u>		<u>1130</u>		<u>1</u>	<u>X</u>	<u>X</u>	
<u>ERH1952</u>	<u>Top Blank</u>		<u>1220</u>		<u>0</u>	<u>X</u>	<u>X</u>	
<u>ERH1953</u>	<u>RHMW03</u>		<u>1225</u>		<u>0</u>	<u>X</u>	<u>X</u>	
<u>ERH1955</u>	<u>Top Blank</u>		<u>1015</u>		<u>0</u>	<u>X</u>	<u>X</u>	
<u>ERH1956</u>	<u>RHMW01R</u>	<u>↓</u>	<u>1025</u>	<u>↓</u>	<u>0</u>	<u>X</u>	<u>X</u>	
<u>NY 11/26/21</u>								

Shuttle Temperature: <u>2.0/0.1</u> <u>R3: 2.0/0.1, 2.0/0.1°C</u>	Turnaround Requested: Check one <input type="checkbox"/> Standard 2-3 wk <input checked="" type="checkbox"/> One week <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>Matthew Jim</u>	Date: <u>11/26/21</u> Time: <u>1250</u>	Received by:
Relinquished by:	Date: <u>11-27</u> Time: <u>1210</u>	Received at lab by: <u>David Harmon</u>

White: Return to client with report      Yellow: Laboratory Copy      Pink: Sampler  
See reverse side for Container Preservation and Sampling Information



APPL, Inc.  
908 N Temperance Ave  
Clovis, CA 93611

Phone: (559) 275-2175  
Fax: (559) 275-4422

**CHAIN OF CUSTODY RECORD**

C.O.C.

50090 NOI

4/5

<b>Report to:</b> PLEASE PRINT  <b>Company Name:</b> _____ <b>Phone:</b> _____  <b>Address:</b> AECOM 1001 Bishop St., Suite 1600 Honolulu, HI 96813 <b>Fax:</b> _____ <b>Attn:</b> Alethea Ramos (808)521-3051 Alethea.Ramos@aecom.com	<b>Invoice to:</b> PLEASE PRINT  <b>Company Name:</b> AECOM <b>Phone:</b> _____ 1001 Bishop St., Suite 1600 <b>Address:</b> Honolulu, HI 96813 <b>Attn:</b> Sheree Smith (808)521-3051 Sheree.Smith@aecom.com USAImaging@aecom.com <b>Fax:</b> _____
--	--

Project Name/Number	Sampler (Print)	Analysis Requested/Method Number					Date Shipped: 11/26/21											
		Carrier: FedEx																
Purchase Order Number	Sampler (Signature)	Waybill No.:					Comments: Note Log NOI on separate											
Sample Identification	Location	Date Collected	Time Collected	Time Zone	No. of Containers	Aq		Sed.	Soil									
10097103Z.02.20.01	GM, NL, MY																	
102604	Matthew Yin																	
ERH1946	Top Blank	11/24/21	0905	HST	0	X												
ERH1947	RHMW05		0910		0	X												
ERH1949	Top Blank		1125		4	X												
ERH1950	RHMW02		1130		9	X												
ERH1952	Top Blank		1220		0	X												
ERH1953	RHMW03		1225		2	X												
ERH1955	Top Blank		1015		0	X												
ERH1956	RHMW01R		1025		0	X												
<del>           MY 11/26/21            ERH1957            ERH1958            ERH1959            ERH1960            ERH1961            ERH1962            ERH1963            ERH1964            ERH1965            ERH1966            ERH1967            ERH1968            ERH1969            ERH1970            ERH1971            ERH1972            ERH1973            ERH1974            ERH1975            ERH1976            ERH1977            ERH1978            ERH1979            ERH1980            ERH1981            ERH1982            ERH1983            ERH1984            ERH1985            ERH1986            ERH1987            ERH1988            ERH1989            ERH1990            ERH1991            ERH1992            ERH1993            ERH1994            ERH1995            ERH1996            ERH1997            ERH1998            ERH1999            ERH2000         </del>																		

<b>Shuttle Temperature:</b> <del>73</del> 20/01	<b>Turnaround Requested:</b> Check one <input type="checkbox"/> Standard 2-3 wk <input checked="" type="checkbox"/> One week <input type="checkbox"/> 24/48 Hrs. <input type="checkbox"/> Other	<b>Sample Disposal:</b> <input type="checkbox"/> Return to client <input checked="" type="checkbox"/> Disposal by Lab (30-day retention)
<b>Relinquished by sampler:</b> Matthew Yin	<b>Date:</b> 11/26/21 <b>Time:</b> 1200 <b>Received by:</b>	<b>Relinquished by:</b> _____ <b>Date:</b> _____ <b>Time:</b> _____ <b>Received by:</b> _____
<b>Relinquished by:</b>	<b>Date:</b> _____ <b>Time:</b> _____ <b>Received by:</b>	<b>Relinquished by:</b> _____ <b>Date:</b> 11-27 <b>Time:</b> 1210 <b>Received at lab by:</b> Janna Morway

White: Return to client with report      Yellow: Laboratory Copy      Pink: Sampler  
 See reverse side for Container Preservation and Sampling Information



APPL, Inc.  
908 N Temperance Ave  
Clovis, CA 93611

~~98339~~

5/15  
CHAIN OF CUSTODY RECORD  
C.O.C. 50091 NOI

Report to: PLEASE PRINT

Company Name: AECOM  
1001 Bishop St., Suite 1600  
Honolulu, HI 96813

Address: \_\_\_\_\_  
Attn: Alethea Ramos (808)521-3051  
Alethea.Ramos@aecom.com  
CV\_18F0126 / 60571032

Attn: \_\_\_\_\_

Invoice to: PLEASE PRINT

Company Name: AECOM Phone: 808-521-3051

Address: 1001 Bishop St. Ste. 1600  
Honolulu HI 96813

Attn: Sheree Smith Sheree.Smith@aecom.com  
WSAImaging@aecom.com Fax: \_\_\_\_\_

Project Name/Number	Sampler (Print)				No. of Containers	Matrix			Analysis Requested/Method Number								Date Shipped: <u>11/26/21</u>
	Purchase Order Number	Sampler (Signature)				Aq	Sed.	Soil	BTEX by 8260	PAH-6 by 8260	TPH by 8015	TPA % by 8015	PAHs by 8210	PAHs by 8210	TOL by 9060	Carrier: FedEx	
Sample Identification		Location	Date Collected	Time Collected	Time Zone											Waybill No.:	Comments: Note: Log
<u>60571032.02.20.01</u>	<u>GM, NL, MY</u>																
<u>102604</u>	<u>Matthew Yin</u>																
<u>ERH1946</u>	<u>Trip Blank</u>	<u>11/24/21</u>	<u>0905</u>	<u>HST</u>	<u>0</u>	<u>X</u>			<u>X</u>	<u>X</u>						<u>NOI in separate SDS</u>	
<u>ERN1947</u>	<u>RHMW05</u>		<u>0910</u>		<u>0</u>	<u>X</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X*</u>	<u>X</u>		<u>from other cols.</u>	
<u>ERH1949</u>	<u>Trip Blank</u>		<u>1125</u>		<u>0</u>	<u>X</u>			<u>X</u>	<u>X</u>						<u>TPH-d/b and PAHs</u>	
<u>ERH1950</u>	<u>RHMW02</u>		<u>1130</u>		<u>0</u>	<u>X</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X*</u>	<u>X</u>			<u>need liq wd-liq wd</u>	
<u>ERH1952</u>	<u>Trip Blank</u>		<u>1220</u>		<u>4</u>	<u>X</u>			<u>X</u>	<u>X</u>						<u>extractions;</u>	
<u>ERH1953</u>	<u>RHMW03</u>		<u>1225</u>		<u>8</u>	<u>X</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X*</u>	<u>X</u>			<u>*Naphthalene</u>	
<u>ERH1955</u>	<u>Trip Blank</u>		<u>1015</u>		<u>4</u>	<u>X</u>			<u>X</u>	<u>X</u>						<u>1-methylnaphthalene</u>	
<u>ERH1956</u>	<u>RHMW01R</u>	<u>↓</u>	<u>1025</u>	<u>↓</u>	<u>10</u>	<u>X</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X*</u>	<u>X</u>			<u>2-methylnaphthalene</u>	
<u>MNY 11/26/21</u>																	
Shuttle Temperature: <u>23.2/21.2</u>		Turnaround Requested: Check one <input type="checkbox"/> Standard 2-3 wk <input checked="" type="checkbox"/> One week <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>Matthew Yin</u>		Date: <u>11/26/21</u>	Time: <u>1200</u>	Received by:		Relinquished by:			Date:	Time:	Received by:						
Relinquished by:		Date:	Time:	Received by:		Relinquished by:			Date: <u>11-27</u>	Time: <u>1210</u>	Received at lab by: <u>Dallas Horner</u>						

White: Return to client with report      Yellow: Laboratory Copy      Pink: Sampler  
See reverse side for Container Preservation and Sampling Information

COOLER RECEIPT FORM

ARF: 98337

- 1) Project: 60571032 CV18F0126 Red Hill Fuel Storage Date Received: 11/27/2021
- 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:  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 calibrated thermometer used: R3 CF:-1.9°C
- 8) Cooler temp(s): In °C. Thermometer Temp / Corrected Temp  
1: 2.0/0.1 2: 2.0/0.1 3: 2.0/0.1 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: BA49680W W04, BA46984W W04

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 the "basic" preserved samples for Cyanide > 12, Sulfide >9, Hexchrom >9?
- 22) NO Were unpreserved VOA Vials received for VOA Dept analysis?
- 23) NA If "yes", are the unpreserved VOA vials noted in the ADD TEST FIELD on the ARF?

pH strip lot number: HC046681

Lab notified if pH was not adequate: \_\_\_\_\_

Notes/Deficiencies:

CUSTODY SEAL

APPL, Inc. (559) 275-2175

Initials MY Date 11/26/21

Not 1/5

Personnel receiving samples: DH Second reviewer: MS  
 Personnel labeling samples: CH, SR  
 Project manager notified: DH Date/Time of notification 11/27/2021  
 Name of client notified: \_\_\_\_\_ Date/Time of notification \_\_\_\_\_

## **SAMPLE RESULTS**

## EPA 8015B TPH WATER L-L SGC

AECOM  
1001 Bishop Street, Suite 1600  
Honolulu, HI 96813

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

**Sample ID: ERH1947**

Sample Collection Date: 11/24/21

APPL Inc.  
908 North Temperance Avenue  
Clovis, CA 93611

ARF: 98337

**APPL ID BA46979**

QCG: #DOC53-211201A-271562

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	300.0 U	320	300.0	150.0	ug/L	12/01/21	12/04/21
EPA 8015B-e	OIL (C24-C40)	300.0 U	320	300.0	150.0	ug/L	12/01/21	12/04/21
EPA 8015B-e	SURROGATE: (R) DECANOIC ACID (S)	0.0	0-1			%	12/01/21	12/04/21
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	84.0	60-142			%	12/01/21	12/04/21
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	63.5	56-125			%	12/01/21	12/04/21

Quant Method: DEC0911.M
Run #: 1202091
Instrument: Apollo
Sequence: 211202
Dilution Factor: 1
Initials: KAB

Printed: 1/7/2022 8:37:25 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: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98337

**Sample ID: ERH1947**

**APPL ID BA46979**

Sample Collection Date: 11/24/21

QCG: #DOC53-211201A1-272069

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	300.0 U	320	300.0	150.0	ug/L	12/01/21	12/16/21
EPA 8015B-e	OIL (C24-C40)	200 B J	320	300.0	150.0	ug/L	12/01/21	12/16/21
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	112	60-142			%	12/01/21	12/16/21
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	86.9	56-125			%	12/01/21	12/16/21

J = Estimated value.

B = The analyte was found in a method blank, as well as in the sample.

Quant Method: DOC1212.M
Run #: 1215033
Instrument: Apollo
Sequence: 211215
Dilution Factor: 1
Initials: KAB

Printed: 1/7/2022 8:37:25 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: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98337

**Sample ID: ERH1950**

**APPL ID BA46981**

Sample Collection Date: 11/24/21

QCG: #DOC53-211201A-271562

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	570	320	300.0	150.0	ug/L	12/01/21	12/04/21
EPA 8015B-e	OIL (C24-C40)	300.0 U	320	300.0	150.0	ug/L	12/01/21	12/04/21
EPA 8015B-e	SURROGATE: (R) DECANOIC ACID (S)	0.0	0-1			%	12/01/21	12/04/21
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	86.5	60-142			%	12/01/21	12/04/21
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	63.2	56-125			%	12/01/21	12/04/21

Quant Method: DEC0911.M
Run #: 1202092
Instrument: Apollo
Sequence: 211202
Dilution Factor: 1
Initials: KAB

Printed: 1/7/2022 8:37:25 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: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98337

**Sample ID: ERH1950**

**APPL ID BA46981**

Sample Collection Date: 11/24/21

QCG: #DOC53-211201A1-272069

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	2600	320	300.0	150.0	ug/L	12/01/21	12/16/21
EPA 8015B-e	OIL (C24-C40)	400 B	320	300.0	150.0	ug/L	12/01/21	12/16/21
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	105	60-142			%	12/01/21	12/16/21
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	80.1	56-125			%	12/01/21	12/16/21

B = The analyte was found in a method blank, as well as in the sample.

Quant Method: DOC1212.M
Run #: 1215034
Instrument: Apollo
Sequence: 211215
Dilution Factor: 1
Initials: KAB

Printed: 1/7/2022 8:37:25 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: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

**Sample ID: ERH1953**

Sample Collection Date: 11/24/21

APPL Inc.  
908 North Temperance Avenue  
Clovis, CA 93611

ARF: 98337

**APPL ID BA46983**

QCG: #DOC53-211201A-271562

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	300.0 U	320	300.0	150.0	ug/L	12/01/21	12/04/21
EPA 8015B-e	OIL (C24-C40)	300.0 U	320	300.0	150.0	ug/L	12/01/21	12/04/21
EPA 8015B-e	SURROGATE: (R) DECANOIC ACID (S)	0.0	0-1			%	12/01/21	12/04/21
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	113	60-142			%	12/01/21	12/04/21
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	84.4	56-125			%	12/01/21	12/04/21

Quant Method: DEC0911.M  
Run #: 1202093  
Instrument: Apollo  
Sequence: 211202  
Dilution Factor: 1  
Initials: KAB

Printed: 1/7/2022 8:37:25 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: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98337

**Sample ID: ERH1953**

**APPL ID BA46983**

Sample Collection Date: 11/24/21

QCG: #DOC53-211201A1-272069

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	210 J	320	300.0	150.0	ug/L	12/01/21	12/16/21
EPA 8015B-e	OIL (C24-C40)	330 B	320	300.0	150.0	ug/L	12/01/21	12/16/21
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	110	60-142			%	12/01/21	12/16/21
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	83.0	56-125			%	12/01/21	12/16/21

J = Estimated value.

B = The analyte was found in a method blank, as well as in the sample.

Quant Method: DOC1212.M
Run #: 1215035
Instrument: Apollo
Sequence: 211215
Dilution Factor: 1
Initials: KAB

Printed: 1/7/2022 8:37:25 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: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98337

**Sample ID: ERH1956**

**APPL ID BA46985**

Sample Collection Date: 11/24/21

QCG: #DOC53-211201A-271562

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	300.0 U	320	300.0	150.0	ug/L	12/01/21	12/04/21
EPA 8015B-e	OIL (C24-C40)	300.0 U	320	300.0	150.0	ug/L	12/01/21	12/04/21
EPA 8015B-e	SURROGATE: (R) DECANOIC ACID (S)	0.0	0-1			%	12/01/21	12/04/21
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	121	60-142			%	12/01/21	12/04/21
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	90.9	56-125			%	12/01/21	12/04/21

Quant Method: DEC0911.M  
Run #: 1202094  
Instrument: Apollo  
Sequence: 211202  
Dilution Factor: 1  
Initials: KAB

Printed: 1/7/2022 8:37:25 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: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98337

**Sample ID: ERH1956**

**APPL ID BA46985**

Sample Collection Date: 11/24/21

QCG: #DOC53-211201A1-272069

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	550	320	300.0	150.0	ug/L	12/01/21	12/16/21
EPA 8015B-e	OIL (C24-C40)	320 B	320	300.0	150.0	ug/L	12/01/21	12/16/21
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	104	60-142			%	12/01/21	12/16/21
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	80.4	56-125			%	12/01/21	12/16/21

B = The analyte was found in a method blank, as well as in the sample.

Quant Method: DOC1212.M
Run #: 1215037
Instrument: Apollo
Sequence: 211215
Dilution Factor: 1
Initials: KAB

Printed: 1/7/2022 8:37:25 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: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98337

**Sample ID: ERH1947 BLANK**

**APPL ID BA46986**

Sample Collection Date: 11/24/21

QCG: #RHBLK-211130A-271662

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	300.0 U	320	300.0	150.0	ug/L	11/30/21	12/03/21
EPA 8015B-e	OIL (C24-C40)	300.0 U	320	300.0	150.0	ug/L	11/30/21	12/03/21
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	99.0	60-142			%	11/30/21	12/03/21
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	79.0	56-125			%	11/30/21	12/03/21

Quant Method: DOC1028.M
Run #: 1202058
Instrument: Apollo
Sequence: 211202
Dilution Factor: 1
Initials: KAB

Printed: 1/7/2022 8:37:25 AM  
APPL-F1-SC-NoMC-REG MDLs-DOD



# EPA 8015B TPH LIQ-LIQ

AECOM  
1001 Bishop Street, Suite 1600  
Honolulu, HI 96813

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

**Sample ID: ERH1950 BLANK**

Sample Collection Date: 11/24/21

APPL Inc.  
908 North Temperance Avenue  
Clovis, CA 93611

ARF: 98337

**APPL ID BA46987**

QCG: #RHBLK-211130A-271662

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	300.0 U	320	300.0	150.0	ug/L	11/30/21	12/03/21
EPA 8015B-e	OIL (C24-C40)	300.0 U	320	300.0	150.0	ug/L	11/30/21	12/03/21
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	94.5	60-142			%	11/30/21	12/03/21
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	75.6	56-125			%	11/30/21	12/03/21

Quant Method: DOC1028.M  
Run #: 1202059  
Instrument: Apollo  
Sequence: 211202  
Dilution Factor: 1  
Initials: KAB

Printed: 1/7/2022 8:37:25 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: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98337

**Sample ID: ERH1953 BLANK**

**APPL ID BA46988**

Sample Collection Date: 11/24/21

QCG: #RHBLK-211130A-271662

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	300.0 U	320	300.0	150.0	ug/L	11/30/21	12/03/21
EPA 8015B-e	OIL (C24-C40)	300.0 U	320	300.0	150.0	ug/L	11/30/21	12/03/21
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	101	60-142			%	11/30/21	12/03/21
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	80.7	56-125			%	11/30/21	12/03/21

Quant Method: DOC1028.M
Run #: 1202055
Instrument: Apollo
Sequence: 211202
Dilution Factor: 1
Initials: KAB

Printed: 1/7/2022 8:37:25 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: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98337

**Sample ID: ERH1956 BLANK**

**APPL ID BA46989**

Sample Collection Date: 11/24/21

QCG: #RHBLK-211130A-271662

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	300.0 U	320	300.0	150.0	ug/L	11/30/21	12/03/21
EPA 8015B-e	OIL (C24-C40)	300.0 U	320	300.0	150.0	ug/L	11/30/21	12/03/21
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	107	60-142			%	11/30/21	12/03/21
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	84.9	56-125			%	11/30/21	12/03/21

Quant Method: DOC1028.M
Run #: 1202057
Instrument: Apollo
Sequence: 211202
Dilution Factor: 1
Initials: KAB

Printed: 1/7/2022 8:37:25 AM  
APPL-F1-SC-NoMC-REG MDLs-DOD

# EPA 8270D SIM LIQ-LIQ

AECOM  
1001 Bishop Street, Suite 1600  
Honolulu, HI 96813

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

**Sample ID: ERH1947**

Sample Collection Date: 11/24/21

APPL Inc.  
908 North Temperance Avenue  
Clovis, CA 93611

ARF: 98337

**APPL ID: BA46979**

QCG: #SIM53-211129AK-271179

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	11/29/21	12/01/21
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	11/29/21	12/01/21
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	11/29/21	12/01/21
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	109	39-114			%	11/29/21	12/01/21
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	79.7	58-120			%	11/29/21	12/01/21

Quant Method: K1019.M  
Run #: 1124K068  
Instrument: KYLO  
Sequence: 211124  
Dilution Factor: 1  
Initials: LSI

Printed: 12/27/2021 4:04:44 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: Alethea Ramos  
Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98337  
**APPL ID: BA46981**  
QCG: #SIM53-211129AK-271179

**Sample ID: ERH1950**

Sample Collection Date: 11/24/21

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	38	0.2	0.10	0.04	ug/L	11/29/21	12/01/21
8270D-SIM	2-METHYLNAPHTHALENE	38	0.2	0.10	0.04	ug/L	11/29/21	12/01/21
8270D-SIM	NAPHTHALENE	74	0.2	0.10	0.04	ug/L	11/29/21	12/01/21
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	89.6	39-114			%	11/29/21	12/01/21
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	60.8	58-120			%	11/29/21	12/01/21

Quant Method: K1019.M
Run #: 1124K069
Instrument: KYLO
Sequence: 211124
Dilution Factor: 1
Initials: LSI

Printed: 12/27/2021 4:04:44 PM  
APPL-F1-SC-NoMC-REG MDLs-DOD

## EPA 8270D SIM LIQ-LIQ

AECOM  
1001 Bishop Street, Suite 1600  
Honolulu, HI 96813

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

**Sample ID: ERH1953**

Sample Collection Date: 11/24/21

APPL Inc.  
908 North Temperance Avenue  
Clovis, CA 93611

ARF: 98337

**APPL ID: BA46983**

QCG: #SIM53-211129AK-271179

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	11/29/21	12/01/21
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	11/29/21	12/01/21
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	11/29/21	12/01/21
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	93.3	39-114			%	11/29/21	12/01/21
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	77.3	58-120			%	11/29/21	12/01/21

Quant Method: K1019.M  
Run #: 1124K070  
Instrument: KYLO  
Sequence: 211124  
Dilution Factor: 1  
Initials: LSI

Printed: 12/27/2021 4:04:44 PM  
APPL-F1-SC-NoMC-REG MDLs-DOD

## EPA 8270D SIM LIQ-LIQ

AECOM  
1001 Bishop Street, Suite 1600  
Honolulu, HI 96813

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

**Sample ID: ERH1956**

Sample Collection Date: 11/24/21

APPL Inc.  
908 North Temperance Avenue  
Clovis, CA 93611

ARF: 98337

**APPL ID: BA46985**

QCG: #SIM53-211129AK-271179

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	0.071 J	0.2	0.10	0.04	ug/L	11/29/21	12/01/21
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	11/29/21	12/01/21
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	11/29/21	12/01/21
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	98.2	39-114			%	11/29/21	12/01/21
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	85.3	58-120			%	11/29/21	12/01/21

J = Estimated value.

Quant Method: K1019.M
Run #: 1124K071
Instrument: KYLO
Sequence: 211124
Dilution Factor: 1
Initials: LSI

Printed: 12/27/2021 4:04:44 PM  
APPL-F1-SC-NoMC-REG MDLs-DOD

## EPA 8260B BTEX WATER

AECOM  
1001 Bishop Street, Suite 1600  
Honolulu, HI 96813

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

**Sample ID: ERH1946**

Sample Collection Date: 11/24/21

APPL Inc.  
908 North Temperance Avenue  
Clovis, CA 93611

ARF: 98337

**APPL ID: BA46978**

QCG: #86BTO-AZ211207-271380

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	12/07/21	12/07/21
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	12/07/21	12/07/21
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	12/07/21	12/07/21
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	12/07/21	12/07/21
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	112	81-118			%	12/07/21	12/07/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	97.8	85-114			%	12/07/21	12/07/21
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	106	80-119			%	12/07/21	12/07/21
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	97.4	89-112			%	12/07/21	12/07/21

Quant Method: Z120621W.M  
Run #: 1207Z14  
Instrument: Zeus  
Sequence: 211206  
Dilution Factor: 1  
Initials: PAN

Printed: 12/10/2021 10:21:02 AM  
APPL-F1-SC-NoMC-REG MDLs-DOD



## EPA 8260B BTEX WATER

AECOM  
1001 Bishop Street, Suite 1600  
Honolulu, HI 96813

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

**Sample ID: ERH1947**

Sample Collection Date: 11/24/21

APPL Inc.  
908 North Temperance Avenue  
Clovis, CA 93611

ARF: 98337

**APPL ID: BA46979**

QCG: #86BTO-AZ211207-271380

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	12/07/21	12/07/21
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	12/07/21	12/07/21
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	12/07/21	12/07/21
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	12/07/21	12/07/21
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	109	81-118			%	12/07/21	12/07/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	97.4	85-114			%	12/07/21	12/07/21
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	103	80-119			%	12/07/21	12/07/21
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	96.3	89-112			%	12/07/21	12/07/21

Quant Method: Z120621W.M  
Run #: 1207Z15  
Instrument: Zeus  
Sequence: 211206  
Dilution Factor: 1  
Initials: PAN

Printed: 12/10/2021 10:21:02 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: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

**Sample ID: ERH1949**

Sample Collection Date: 11/24/21

ARF: 98337

**APPL ID: BA46980**

QCG: #86BTO-AZ211207-271380

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	12/07/21	12/07/21
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	12/07/21	12/07/21
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	12/07/21	12/07/21
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	12/07/21	12/07/21
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	111	81-118			%	12/07/21	12/07/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	96.9	85-114			%	12/07/21	12/07/21
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	106	80-119			%	12/07/21	12/07/21
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	96.6	89-112			%	12/07/21	12/07/21

Quant Method: Z120621W.M  
Run #: 1207Z16  
Instrument: Zeus  
Sequence: 211206  
Dilution Factor: 1  
Initials: PAN

Printed: 12/10/2021 10:21:02 AM  
APPL-F1-SC-NoMC-REG MDLs-DOD

## EPA 8260B BTEX WATER

AECOM  
1001 Bishop Street, Suite 1600  
Honolulu, HI 96813

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

**Sample ID: ERH1950**

Sample Collection Date: 11/24/21

APPL Inc.  
908 North Temperance Avenue  
Clovis, CA 93611

ARF: 98337

**APPL ID: BA46981**

QCG: #86BTO-AZ211207-271380

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	12/07/21	12/07/21
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	12/07/21	12/07/21
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	12/07/21	12/07/21
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	12/07/21	12/07/21
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	113	81-118			%	12/07/21	12/07/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	101	85-114			%	12/07/21	12/07/21
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	105	80-119			%	12/07/21	12/07/21
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	96.6	89-112			%	12/07/21	12/07/21

Quant Method: Z120621W.M  
Run #: 1207Z17  
Instrument: Zeus  
Sequence: 211206  
Dilution Factor: 1  
Initials: PAN

Printed: 12/10/2021 10:21:02 AM  
APPL-F1-SC-NoMC-REG MDLs-DOD

## EPA 8260B BTEX WATER

AECOM  
1001 Bishop Street, Suite 1600  
Honolulu, HI 96813

Attn: Alethea Ramos  
Project: 60571032 CV18F0126 Red Hill Fuel Storage

**Sample ID: ERH1952**

Sample Collection Date: 11/24/21

APPL Inc.  
908 North Temperance Avenue  
Clovis, CA 93611

ARF: 98337

**APPL ID: BA46982**

QCG: #86BTO-AZ211207-271380

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	12/07/21	12/07/21
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	12/07/21	12/07/21
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	12/07/21	12/07/21
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	12/07/21	12/07/21
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	111	81-118			%	12/07/21	12/07/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	98.8	85-114			%	12/07/21	12/07/21
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	104	80-119			%	12/07/21	12/07/21
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	98.4	89-112			%	12/07/21	12/07/21

Quant Method: Z120621W.M  
Run #: 1207Z18  
Instrument: Zeus  
Sequence: 211206  
Dilution Factor: 1  
Initials: PAN

Printed: 12/10/2021 10:21:02 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: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

**Sample ID: ERH1953**

Sample Collection Date: 11/24/21

ARF: 98337

**APPL ID: BA46983**

QCG: #86BTO-AZ211207-271380

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	12/07/21	12/07/21
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	12/07/21	12/07/21
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	12/07/21	12/07/21
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	12/07/21	12/07/21
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	112	81-118			%	12/07/21	12/07/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	99.9	85-114			%	12/07/21	12/07/21
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	106	80-119			%	12/07/21	12/07/21
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	100	89-112			%	12/07/21	12/07/21

Quant Method: Z120621W.M  
Run #: 1207Z19  
Instrument: Zeus  
Sequence: 211206  
Dilution Factor: 1  
Initials: PAN

Printed: 12/10/2021 10:21:02 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: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98337

**Sample ID: ERH1955**

**APPL ID: BA46984**

Sample Collection Date: 11/24/21

QCG: #86BTO-AZ211207-271380

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	12/07/21	12/07/21
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	12/07/21	12/07/21
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	12/07/21	12/07/21
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	12/07/21	12/07/21
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	113	81-118			%	12/07/21	12/07/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	100	85-114			%	12/07/21	12/07/21
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	106	80-119			%	12/07/21	12/07/21
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	99.4	89-112			%	12/07/21	12/07/21

Quant Method: Z120621W.M  
Run #: 1207Z20  
Instrument: Zeus  
Sequence: 211206  
Dilution Factor: 1  
Initials: PAN

Printed: 12/10/2021 10:21:02 AM  
APPL-F1-SC-NoMC-REG MDLs-DOD

## EPA 8260B BTEX WATER

AECOM  
1001 Bishop Street, Suite 1600  
Honolulu, HI 96813

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

**Sample ID: ERH1956**

Sample Collection Date: 11/24/21

APPL Inc.  
908 North Temperance Avenue  
Clovis, CA 93611

ARF: 98337

**APPL ID: BA46985**

QCG: #86BTO-AZ211207-271380

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	12/07/21	12/07/21
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	12/07/21	12/07/21
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	12/07/21	12/07/21
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	12/07/21	12/07/21
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	115	81-118			%	12/07/21	12/07/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	101	85-114			%	12/07/21	12/07/21
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	110	80-119			%	12/07/21	12/07/21
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	99.1	89-112			%	12/07/21	12/07/21

Quant Method: Z120621W.M  
Run #: 1207Z21  
Instrument: Zeus  
Sequence: 211206  
Dilution Factor: 1  
Initials: PAN

Printed: 12/10/2021 10:21:02 AM  
APPL-F1-SC-NoMC-REG MDLs-DOD

# EPA 8260B GRO WATER

AECOM  
1001 Bishop Street, Suite 1600  
Honolulu, HI 96813

Attn: Alethea Ramos  
Project: 60571032 CV18F0126 Red Hill Fuel Storage

**Sample ID: ERH1946**

Sample Collection Date: 11/24/21

APPL Inc.  
908 North Temperance Avenue  
Clovis, CA 93611

ARF: 98337

**APPL ID: BA46978**

QCG: #GRO86-211207AZ-271513

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	12/07/21	12/07/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	97.8	85-114			%	12/07/21	12/07/21

Quant Method: ZGAS1206.M  
Run #: 1207Z14  
Instrument: Zeus  
Sequence: 211206  
Dilution Factor: 1  
Initials: PAN

Printed: 12/10/2021 11:52:09 AM  
APPL-F1-SC-NoMC-REG MDLs-DOD



# EPA 8260B GRO WATER

AECOM  
1001 Bishop Street, Suite 1600  
Honolulu, HI 96813

Attn: Alethea Ramos  
Project: 60571032 CV18F0126 Red Hill Fuel Storage

**Sample ID: ERH1947**

Sample Collection Date: 11/24/21

APPL Inc.  
908 North Temperance Avenue  
Clovis, CA 93611

ARF: 98337

**APPL ID: BA46979**

QCG: #GRO86-211207AZ-271513

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	12/07/21	12/07/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	97.4	85-114			%	12/07/21	12/07/21

Quant Method: ZGAS1206.M  
Run #: 1207Z15  
Instrument: Zeus  
Sequence: 211206  
Dilution Factor: 1  
Initials: PAN

Printed: 12/10/2021 11:52:09 AM  
APPL-F1-SC-NoMC-REG MDLs-DOD

# EPA 8260B GRO WATER

AECOM  
1001 Bishop Street, Suite 1600  
Honolulu, HI 96813

Attn: Alethea Ramos  
Project: 60571032 CV18F0126 Red Hill Fuel Storage

**Sample ID: ERH1949**

Sample Collection Date: 11/24/21

APPL Inc.  
908 North Temperance Avenue  
Clovis, CA 93611

ARF: 98337

**APPL ID: BA46980**

QCG: #GRO86-211207AZ-271513

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	12/07/21	12/07/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	96.9	85-114			%	12/07/21	12/07/21

Quant Method: ZGAS1206.M  
Run #: 1207Z16  
Instrument: Zeus  
Sequence: 211206  
Dilution Factor: 1  
Initials: PAN

Printed: 12/10/2021 11:52:09 AM  
APPL-F1-SC-NoMC-REG MDLs-DOD

# EPA 8260B GRO WATER

AECOM  
1001 Bishop Street, Suite 1600  
Honolulu, HI 96813

Attn: Alethea Ramos  
Project: 60571032 CV18F0126 Red Hill Fuel Storage

**Sample ID: ERH1950**

Sample Collection Date: 11/24/21

APPL Inc.  
908 North Temperance Avenue  
Clovis, CA 93611

ARF: 98337

**APPL ID: BA46981**

QCG: #GRO86-211207AZ-271513

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	78	20	18.0	8.6	ug/L	12/07/21	12/07/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	101	85-114			%	12/07/21	12/07/21

Quant Method: ZGAS1206.M  
Run #: 1207Z17  
Instrument: Zeus  
Sequence: 211206  
Dilution Factor: 1  
Initials: PAN

Printed: 12/10/2021 11:52:09 AM  
APPL-F1-SC-NoMC-REG MDLs-DOD

# EPA 8260B GRO WATER

AECOM  
1001 Bishop Street, Suite 1600  
Honolulu, HI 96813

Attn: Alethea Ramos  
Project: 60571032 CV18F0126 Red Hill Fuel Storage

**Sample ID: ERH1952**

Sample Collection Date: 11/24/21

APPL Inc.  
908 North Temperance Avenue  
Clovis, CA 93611

ARF: 98337

**APPL ID: BA46982**

QCG: #GRO86-211207AZ-271513

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	12/07/21	12/07/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	98.8	85-114			%	12/07/21	12/07/21

Quant Method: ZGAS1206.M  
Run #: 1207Z18  
Instrument: Zeus  
Sequence: 211206  
Dilution Factor: 1  
Initials: PAN

Printed: 12/10/2021 11:52:09 AM  
APPL-F1-SC-NoMC-REG MDLs-DOD

# EPA 8260B GRO WATER

AECOM  
1001 Bishop Street, Suite 1600  
Honolulu, HI 96813

Attn: Alethea Ramos  
Project: 60571032 CV18F0126 Red Hill Fuel Storage

**Sample ID: ERH1953**

Sample Collection Date: 11/24/21

APPL Inc.  
908 North Temperance Avenue  
Clovis, CA 93611

ARF: 98337

**APPL ID: BA46983**

QCG: #GRO86-211207AZ-271513

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	12/07/21	12/07/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	99.9	85-114			%	12/07/21	12/07/21

Quant Method: ZGAS1206.M  
Run #: 1207Z19  
Instrument: Zeus  
Sequence: 211206  
Dilution Factor: 1  
Initials: PAN

Printed: 12/10/2021 11:52:09 AM  
APPL-F1-SC-NoMC-REG MDLs-DOD

# EPA 8260B GRO WATER

AECOM  
1001 Bishop Street, Suite 1600  
Honolulu, HI 96813

Attn: Alethea Ramos  
Project: 60571032 CV18F0126 Red Hill Fuel Storage

**Sample ID: ERH1955**

Sample Collection Date: 11/24/21

APPL Inc.  
908 North Temperance Avenue  
Clovis, CA 93611

ARF: 98337

**APPL ID: BA46984**

QCG: #GRO86-211207AZ-271513

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	12/07/21	12/07/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	100	85-114			%	12/07/21	12/07/21

Quant Method: ZGAS1206.M  
Run #: 1207Z20  
Instrument: Zeus  
Sequence: 211206  
Dilution Factor: 1  
Initials: PAN

Printed: 12/10/2021 11:52:09 AM  
APPL-F1-SC-NoMC-REG MDLs-DOD

# EPA 8260B GRO WATER

AECOM  
1001 Bishop Street, Suite 1600  
Honolulu, HI 96813

Attn: Alethea Ramos  
Project: 60571032 CV18F0126 Red Hill Fuel Storage

**Sample ID: ERH1956**

Sample Collection Date: 11/24/21

APPL Inc.  
908 North Temperance Avenue  
Clovis, CA 93611

ARF: 98337

**APPL ID: BA46985**

QCG: #GRO86-211207AZ-271513

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	16 J	20	18.0	8.6	ug/L	12/07/21	12/07/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	101	85-114			%	12/07/21	12/07/21

J = Estimated value.

Quant Method: ZGAS1206.M  
Run #: 1207Z21  
Instrument: Zeus  
Sequence: 211206  
Dilution Factor: 1  
Initials: PAN

Printed: 12/10/2021 11:52:09 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: Alethea Ramos  
Project: 60571032 CV18F0126 Red Hill Fuel Storage

**Sample ID: ERH1947**  
Sample Collection Date: 11/24/2021

**APPL ID: BA46979**  
ARF: 98337

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
SW846 9060A	TOTAL ORGANIC CARBON	0.37 J	0.93	0.350	0.130	mg/L	1	11/30/21	11/30/21

J = Estimated value.



## Wet Lab Analysis

AECOM  
1001 Bishop Street, Suite 1600  
Honolulu, HI 96813

APPL Inc.  
908 North Temperance Avenue  
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

**Sample ID: ERH1950**

Sample Collection Date: 11/24/2021

**APPL ID: BA46981**

ARF: 98337

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
SW846 9060A	TOTAL ORGANIC CARBON	2.3	0.93	0.350	0.130	mg/L	1	11/30/21	11/30/21

## Wet Lab Analysis

AECOM  
1001 Bishop Street, Suite 1600  
Honolulu, HI 96813

APPL Inc.  
908 North Temperance Avenue  
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

**Sample ID: ERH1953**

Sample Collection Date: 11/24/2021

**APPL ID: BA46983**

ARF: 98337

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
SW846 9060A	TOTAL ORGANIC CARBON	1.6	0.93	0.350	0.130	mg/L	1	11/30/21	11/30/21

## Wet Lab Analysis

AECOM  
1001 Bishop Street, Suite 1600  
Honolulu, HI 96813

APPL Inc.  
908 North Temperance Avenue  
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

**Sample ID: ERH1956**

Sample Collection Date: 11/24/2021

**APPL ID: BA46985**

ARF: 98337

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
SW846 9060A	TOTAL ORGANIC CARBON	2.1	0.93	0.350	0.130	mg/L	1	11/30/21	11/30/21

# QC FORMS

# EPA 8015B-eHL

Form 2 & 8

## Surrogate Recovery

Lab Name: APPL, Inc.  
Case No: 98337  
Matrix: WATER

SDG No: 98337  
Date Analyzed: 12/4/2021  
Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: (R) DECANOIC ACID (S)			SURROGATE: OCTACOSANE (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
211201A-BLK	Blank	0-1	0.0		60-142	78.9	
211201A-LCS	Lab Control Spike	0-1	0.0		60-142	90.7	
211201A-LCSD	Lab Control SpikeD	0-1	0.0		60-142	82.7	
BA46979	ERH1947	0-1	0.0		60-142	84.0	
BA46981	ERH1950	0-1	0.0		60-142	86.5	
BA46983	ERH1953	0-1	0.0		60-142	113	
BA46985	ERH1956	0-1	0.0		60-142	121	

Comments: Batch: #DOC53-211201A

Printed: 1/7/2022 8:36:30 AM  
Form 2 & 8, Surrogate Recovery Summary

# EPA 8015B-eHL

Form 2 & 8

## Surrogate Recovery

Lab Name: APPL, Inc.  
Case No: 98337  
Matrix: WATER

SDG No: 98337  
Date Analyzed: 12/4/2021  
Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: ORTHO-TERPHENYL (S)			Limits	Result	Qualifier
		Limits	Result	Qualifier			
211201A-BLK	Blank	56-125	59.8				
211201A-LCS	Lab Control Spike	56-125	69.3				
211201A-LCSD	Lab Control SpikeD	56-125	63.7				
BA46979	ERH1947	56-125	63.5				
BA46981	ERH1950	56-125	63.2				
BA46983	ERH1953	56-125	84.4				
BA46985	ERH1956	56-125	90.9				

Comments: Batch: #DOC53-211201A

# EPA 8015B-eHL

Form 2 & 8

## Surrogate Recovery

Lab Name: APPL, Inc.  
Case No: 98337  
Matrix: WATER

SDG No: 98337  
Date Analyzed: 12/15/2021  
Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: OCTACOSANE (S)			SURROGATE: ORTHO-TERPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
211201A1-BLK	Blank	60-142	106		56-125	84.5	
211201A1-LCS	Lab Control Spike	60-142	111		56-125	101	
211201A1-LCSD	Lab Control SpikeD	60-142	107		56-125	96.7	
BA46979	ERH1947	60-142	112		56-125	86.9	
BA46981	ERH1950	60-142	105		56-125	80.1	
BA46983	ERH1953	60-142	110		56-125	83.0	
BA46985	ERH1956	60-142	104		56-125	80.4	

Comments: Batch: #DOC53-211201A1

Printed: 1/7/2022 8:36:30 AM  
Form 2 & 8, Surrogate Recovery Summary

# EPA 8015B-eHL

Form 2 & 8

## Surrogate Recovery

Lab Name: APPL, Inc.  
Case No: 98337  
Matrix: WATER

SDG No: 98337  
Date Analyzed: 12/3/2021  
Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: OCTACOSANE (S)			SURROGATE: ORTHO-TERPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
211130A-BLK	Blank	60-142	94.8		56-125	75.1	
211130A-LCS	Lab Control Spike	60-142	91.3		56-125	72.7	
211130A-LCSD	Lab Control SpikeD	60-142	97.3		56-125	77.3	
BA46988	ERH1953 BLANK	60-142	101		56-125	80.7	
BA46989	ERH1956 BLANK	60-142	107		56-125	84.9	
BA46986	ERH1947 BLANK	60-142	99.0		56-125	79.0	
BA46987	ERH1950 BLANK	60-142	94.5		56-125	75.6	

Comments: Batch: #RHBLK-211130A

Printed: 1/7/2022 8:36:30 AM  
Form 2 & 8, Surrogate Recovery Summary



# EPA 8015B-eH

Form 4

## Blank Summary

Lab Name: APPL, Inc.  
Case No: 98337  
Matrix: WATER  
Blank ID: 211201A-BLK

SDG No: 98337  
Date Analyzed: 12/4/2021  
Instrument: Apollo  
Time Analyzed: 0542

<b>APPL ID.</b>	<b>Client Sample No.</b>	<b>File ID.</b>	<b>Date Analyzed</b>
211201A-BLK	Blank	1202085	12/4/2021 0542
211201A-LCS	Lab Control Spike	1202086	12/4/2021 0610
211201A-LCSD	Lab Control Spiked	1202087	12/4/2021 0638
BA46979	ERH1947	1202091	12/4/2021 0831
BA46981	ERH1950	1202092	12/4/2021 0859
BA46983	ERH1953	1202093	12/4/2021 0927
BA46985	ERH1956	1202094	12/4/2021 0955

Comments: Batch: #DOC53-211201A

Printed: 1/7/2022 8:36:12 AM  
Form 4, Blank Summary

# EPA 8015B-eH

Form 4

## Blank Summary

Lab Name: APPL, Inc.  
Case No: 98337  
Matrix: WATER  
Blank ID: 211201A1-BLK

SDG No: 98337  
Date Analyzed: 12/15/2021  
Instrument: Apollo  
Time Analyzed: 2145

<b>APPL ID.</b>	<b>Client Sample No.</b>	<b>File ID.</b>	<b>Date Analyzed</b>
211201A1-BLK	Blank	1215027	12/15/2021 2145
211201A1-LCS	Lab Control Spike	1215028	12/15/2021 2213
211201A1-LCSD	Lab Control Spiked	1215029	12/15/2021 2241
BA46979	ERH1947	1215033	12/16/2021 0033
BA46981	ERH1950	1215034	12/16/2021 0101
BA46983	ERH1953	1215035	12/16/2021 0129
BA46985	ERH1956	1215037	12/16/2021 0226

Comments: Batch: #DOC53-211201A1

Printed: 1/7/2022 8:36:12 AM  
Form 4, Blank Summary

# EPA 8015B-eH

Form 4

## Blank Summary

Lab Name: APPL, Inc.  
Case No: 98337  
Matrix: WATER  
Blank ID: 211130A-BLK

SDG No: 98337  
Date Analyzed: 12/3/2021  
Instrument: Apollo  
Time Analyzed: 1148

<b>APPL ID.</b>	<b>Client Sample No.</b>	<b>File ID.</b>	<b>Date Analyzed</b>
211130A-BLK	Blank	1202047	12/3/2021 1148
211130A-LCS	Lab Control Spike	1202048	12/3/2021 1217
211130A-LCSD	Lab Control Spiked	1202049	12/3/2021 1245
BA46988	ERH1953 BLANK	1202055	12/3/2021 1536
BA46989	ERH1956 BLANK	1202057	12/3/2021 1633
BA46986	ERH1947 BLANK	1202058	12/3/2021 1702
BA46987	ERH1950 BLANK	1202059	12/3/2021 1730

Comments: Batch: #RHBLK-211130A

Printed: 1/7/2022 8:36:12 AM  
Form 4, Blank Summary

**Method Blank**  
**EPA 8015B TPH WATER L-L SGC**

Blank Name/QCG: **211201W-46971 - 271562**  
Batch ID #DOC53-211201A

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)	300.0 U	320	300.0	150.0	ug/L	12/1/2021	12/4/2021
BLANK	OIL (C24-C40)	300.0 U	320	300.0	150.0	ug/L	12/1/2021	12/4/2021
BLANK	SURROGATE: (R) DECANOIC A	0.0	0-1			%	12/1/2021	12/4/2021
BLANK	SURROGATE: OCTACOSANE (S)	78.9	60-142			%	12/1/2021	12/4/2021
BLANK	SURROGATE: ORTHO-TERPHE	59.8	56-125			%	12/1/2021	12/4/2021

Quant Method: DEC0911.M  
Run #: 1202085  
Instrument: Apollo  
Sequence: 211202  
Initials: KAB

GC SC-Blank-REG MDLs-DOD  
Printed: 1/7/2022 8:38:00 AM

**Method Blank**  
**EPA 8015B TPH LIQ-LIQ**

Blank Name/QCG: **211130W-46975 - 271662**  
Batch ID #RHBLK-211130A

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)	300.0 U	320	300.0	150.0	ug/L	11/30/2021	12/3/2021
BLANK	OIL (C24-C40)	300.0 U	320	300.0	150.0	ug/L	11/30/2021	12/3/2021
BLANK	SURROGATE: OCTACOSANE (S	94.8	60-142			%	11/30/2021	12/3/2021
BLANK	SURROGATE: ORTHO-TERPHE	75.1	56-125			%	11/30/2021	12/3/2021

Quant Method: DOC1028.M  
Run #: 1202047  
Instrument: Apollo  
Sequence: 211202  
Initials: KAB

GC SC-Blank-REG MDLs-DOD  
Printed: 1/7/2022 8:38:00 AM

**Method Blank**  
**EPA 8015B TPH LIQ-LIQ**

Blank Name/QCG: **211201W-46971 - 272069**  
Batch ID #DOC53-211201A1

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)	300.0 U	320	300.0	150.0	ug/L	12/1/2021	12/15/2021
BLANK	OIL (C24-C40)	170 J	320	300.0	150.0	ug/L	12/1/2021	12/15/2021
BLANK	SURROGATE: OCTACOSANE (S	106	60-142			%	12/1/2021	12/15/2021
BLANK	SURROGATE: ORTHO-TERPHE	84.5	56-125			%	12/1/2021	12/15/2021

J = Estimated value.

Quant Method: DOC1212.M  
Run #: 1215027  
Instrument: Apollo  
Sequence: 211215  
Initials: KAB

GC SC-Blank-REG MDLs-DOD  
Printed: 1/7/2022 8:38:00 AM

# EPA 8015B-eH

Form 4

## LCS Summary

Lab Name: APPL, Inc.  
Case No: 98337  
Matrix: WATER  
LCS ID: 211201A-LCS

SDG No: 98337  
Date Analyzed: 12/4/2021  
Instrument: Apollo  
Time Analyzed: 0610

<b>APPL ID.</b>	<b>Client Sample No.</b>	<b>File ID.</b>	<b>Date Analyzed</b>
211201A-BLK	Blank	1202085	12/4/2021 0542
211201A-LCS	Lab Control Spike	1202086	12/4/2021 0610
211201A-LCSD	Lab Control Spiked	1202087	12/4/2021 0638
BA46979	ERH1947	1202091	12/4/2021 0831
BA46981	ERH1950	1202092	12/4/2021 0859
BA46983	ERH1953	1202093	12/4/2021 0927
BA46985	ERH1956	1202094	12/4/2021 0955

Comments: Batch: #DOC53-211201A

Printed: 1/7/2022 8:35:48 AM  
Form 4, LCS Summary

# EPA 8015B-eH

Form 4

## LCS Summary

Lab Name: APPL, Inc.  
Case No: 98337  
Matrix: WATER  
LCS ID: 211201A1-LCS

SDG No: 98337  
Date Analyzed: 12/15/2021  
Instrument: Apollo  
Time Analyzed: 2213

<b>APPL ID.</b>	<b>Client Sample No.</b>	<b>File ID.</b>	<b>Date Analyzed</b>
211201A1-BLK	Blank	1215027	12/15/2021 2145
211201A1-LCS	Lab Control Spike	1215028	12/15/2021 2213
211201A1-LCSD	Lab Control Spiked	1215029	12/15/2021 2241
BA46979	ERH1947	1215033	12/16/2021 0033
BA46981	ERH1950	1215034	12/16/2021 0101
BA46983	ERH1953	1215035	12/16/2021 0129
BA46985	ERH1956	1215037	12/16/2021 0226

Comments: Batch: #DOC53-211201A1

Printed: 1/7/2022 8:35:48 AM  
Form 4, LCS Summary



# EPA 8015B-eH

Form 4

## LCS Summary

Lab Name: APPL, Inc.  
Case No: 98337  
Matrix: WATER  
LCS ID: 211130A-LCS

SDG No: 98337  
Date Analyzed: 12/3/2021  
Instrument: Apollo  
Time Analyzed: 1217

<b>APPL ID.</b>	<b>Client Sample No.</b>	<b>File ID.</b>	<b>Date Analyzed</b>
211130A-BLK	Blank	1202047	12/3/2021 1148
211130A-LCS	Lab Control Spike	1202048	12/3/2021 1217
211130A-LCSD	Lab Control SpikeD	1202049	12/3/2021 1245
BA46988	ERH1953 BLANK	1202055	12/3/2021 1536
BA46989	ERH1956 BLANK	1202057	12/3/2021 1633
BA46986	ERH1947 BLANK	1202058	12/3/2021 1702
BA46987	ERH1950 BLANK	1202059	12/3/2021 1730

Comments: Batch: #RHBLK-211130A

Printed: 1/7/2022 8:35:48 AM  
Form 4, LCS Summary

**Laboratory Control Spike Recoveries**  
**EPA 8015B TPH WATER L-L SGC**

APPL ID **211201W-46971 LCS - 271562**  
 Batch ID #DOC53-211201A

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)	2000	1960	1790	98.0	89.5	36-132	9.1	30
OIL (C24-C40)	2000	2330	2120	117 #	106	41-113	9.4	30
-----								
SURROGATE: (R) DECANOIC ACID (S)	10.00	0	0	0.0	0.0	0-1		
SURROGATE: OCTACOSANE (S)	150	136	124	90.7	82.7	60-142		
SURROGATE: ORTHO-TERPHENYL (S)	150	104	95.6	69.3	63.7	56-125		
-----								

# = Recovery is outside QC limits.

Comments: \_\_\_\_\_

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	DEC0911.M	DEC0911.M
Extraction Date :	12/1/2021	12/1/2021
Analysis Date :	12/4/2021	12/4/2021
Instrument :	Apollo	Apollo
Run :	1202086	1202087
Initials :	KAB	

# Laboratory Control Spike Recoveries

## EPA 8015B TPH LIQ-LIQ

APPL ID **211201W-46971 LCS - 272069**  
 Batch ID #DOC53-211201A1

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)	2000	2400	2250	120	113	36-132	6.5	30
OIL (C24-C40)	2000	2970	2890	149 #	145 #	41-113	2.7	30
SURROGATE: OCTACOSANE (S)	150	167	160	111	107	60-142		
SURROGATE: ORTHO-TERPHENYL (S)	150	152	145	101	96.7	56-125		

# = Recovery is outside QC limits.

Comments:

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	DOC1212.M	DOC1212.M
Extraction Date :	12/1/2021	12/1/2021
Analysis Date :	12/15/2021	12/15/2021
Instrument :	Apollo	Apollo
Run :	1215028	1215029
Initials :	KAB	

## Laboratory Control Spike Recoveries

### EPA 8015B TPH LIQ-LIQ

APPL ID **211130W-46975 LCS - 271662**  
 Batch ID **#RHBLK-211130A**

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)	0	33.8	47.2	NA	NA	36-132		30
OIL (C24-C40)	0	46.9	41.9	NA	NA	41-113		30
<hr style="border-top: 1px dashed black;"/>								
SURROGATE: OCTACOSANE (S)	150	137	146	91.3	97.3	60-142		
SURROGATE: ORTHO-TERPHENYL (S)	150	109	116	72.7	77.3	56-125		
<hr style="border-top: 1px dashed black;"/>								

Comments: \_\_\_\_\_

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	DOC1028.M	DOC1028.M
Extraction Date :	11/30/2021	11/30/2021
Analysis Date :	12/3/2021	12/3/2021
Instrument :	Apollo	Apollo
Run :	1202048	1202049
Initials :	KAB	

# 8270D-SIM

Form 2 & 8

## Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 98337

Case No: 98337

Date Analyzed: 12/1/2021

Matrix: WATER

Instrument: KYLO

APPL ID.	Client Sample No.	SURROGATE: 2-METHYLNAPHTHALENE-D10 (S)			SURROGATE: FLUORANTHENE-D10 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
211129AK-BLK	Blank	39-114	88.4		58-120	95.5	
211129AK-LCS	Lab Control Spike	39-114	82.4		58-120	91.8	
211129AK-LCSD	Lab Control SpikeD	39-114	93.0		58-120	92.2	
BA46979	ERH1947	39-114	109		58-120	79.7	
BA46981	ERH1950	39-114	89.6		58-120	60.8	
BA46983	ERH1953	39-114	93.3		58-120	77.3	
BA46985	ERH1956	39-114	98.2		58-120	85.3	

Comments: Batch: #SIM53-211129AK

Printed: 12/27/2021 4:04:38 PM  
Form 2 & 8, Surrogate Recovery Summary

# **8270D-SIM**

Form 4

## **Blank Summary**

Lab Name: APPL, Inc.

SDG No: 98337

Case No: 98337

Date Analyzed: 12/1/2021

Matrix: WATER

Instrument: KYLO

Blank ID: 211129AK-BLK

Time Analyzed: 1028

<b>APPL ID.</b>	<b>Client Sample No.</b>	<b>File ID.</b>	<b>Date Analyzed</b>
211129AK-BLK	Blank	1124K061	12/1/2021 1028
211129AK-LCS	Lab Control Spike	1124K062	12/1/2021 1047
211129AK-LCSD	Lab Control Spiked	1124K063	12/1/2021 1107
BA46979	ERH1947	1124K068	12/1/2021 1247
BA46981	ERH1950	1124K069	12/1/2021 1307
BA46983	ERH1953	1124K070	12/1/2021 1327
BA46985	ERH1956	1124K071	12/1/2021 1347

Comments: Batch: #SIM53-211129AK

Printed: 12/27/2021 4:04:35 PM  
Form 4, Blank Summary

**Method Blank**  
**EPA 8270D SIM LIQ-LIQ**

Blank Name/QCG: **211129W-46927 - 271179**  
Batch ID: #SIM53-211129AK

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	11/29/2021	12/1/2021
BLANK	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	11/29/2021	12/1/2021
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	11/29/2021	12/1/2021
BLANK	SURROGATE: 2-METHYLNAPHT	88.4	39-114			%	11/29/2021	12/1/2021
BLANK	SURROGATE: FLUORANTHENE-	95.5	58-120			%	11/29/2021	12/1/2021

Quant Method:K1019.M  
Run #:1124K061  
Instrument:KYLO  
Sequence:211124  
Initials:LSI

GC SC-Blank-REG MDLs-DOD  
Printed: 12/27/2021 4:04:47 PM

# 8270D-SIM

Form 4

## LCS Summary

Lab Name: APPL, Inc.

SDG No: 98337

Case No: 98337

Date Analyzed: 12/1/2021

Matrix: WATER

Instrument: KYLO

LCS ID: 211129AK-LCS

Time Analyzed: 1047

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211129AK-BLK	Blank	1124K061	12/1/2021 1028
211129AK-LCS	Lab Control Spike	1124K062	12/1/2021 1047
211129AK-LCSD	Lab Control Spiked	1124K063	12/1/2021 1107
BA46979	ERH1947	1124K068	12/1/2021 1247
BA46981	ERH1950	1124K069	12/1/2021 1307
BA46983	ERH1953	1124K070	12/1/2021 1327
BA46985	ERH1956	1124K071	12/1/2021 1347

Comments: Batch: #SIM53-211129AK

Printed: 12/27/2021 4:04:32 PM  
Form 4, LCS Summary



# Laboratory Control Spike Recoveries

## EPA 8270D SIM LIQ-LIQ

APPL ID: 211129W-46927 LCS - 271179

Batch ID: #SIM53-211129AK

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	5.00	3.08	4.66	61.6	93.2	41-115	40.8 #	20
2-METHYLNAPHTHALENE	5.00	2.97	4.71	59.4	94.2	39-114	45.3 #	20
NAPHTHALENE	5.00	3.38	4.62	67.6	92.4	43-114	31.0 #	20
-----								
SURROGATE: 2-METHYLNAPHTHALEN	5.00	4.12	4.65	82.4	93.0	39-114		
SURROGATE: FLUORANTHENE-D10 (S)	5.00	4.59	4.61	91.8	92.2	58-120		
-----								

# = Recovery is outside QC limits.

Comments: \_\_\_\_\_

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	K1019.M	K1019.M
Extraction Date :	11/29/2021	11/29/2021
Analysis Date :	12/1/2021	12/1/2021
Instrument :	KYLO	KYLO
Run :	1124K062	1124K063
Initials :	LSI	

Form 5  
Tune Summary

Lab Name: APPL Inc.  
 Case No: \_\_\_\_\_  
 Matrix: Water  
 ID: 1019K001.D

SDG No: \_\_\_\_\_  
 Date Analyzed: 10/19/2021  
 Instrument: KYLO  
 Time Analyzed: 13:58

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	0.1 ug/ml 10/10/21	1019K002.D	10/19/2021 14:09
2	0.2 ug/ml 10/10/21	1019K003.D	10/19/2021 14:29
3	0.5 ug/ml 10/10/21	1019K004.D	10/19/2021 14:49
4	1 ug/ml 10/10/21	1019K005.D	10/19/2021 15:09
5	5 ug/ml 10/10/21	1019K006.D	10/19/2021 15:29
6	10 ug/ml 10/10/21	1019K007.D	10/19/2021 15:49
7	50 ug/ml 10/10/21	1019K008.D	10/19/2021 16:09
8	100 ug/ml 10/10/21	1019K009.D	10/19/2021 16:29
9	SS ug/ml 10/10/21	1019K010.D	10/19/2021 16:49
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

m/e

51 9.95 - 80.1% of mass 198	<u>36.8</u>
68 0 - 2.05% of mass 69	<u>1.7</u>
70 0 - 2% of mass 69	<u>0.4</u>
127 10 - 80% of mass 198	<u>54.6</u>
197 0 - 2% of mass 198	<u>0.2</u>
198 100 - 100% of mass 198	<u>100.0</u>
199 5 - 9% of mass 198	<u>6.5</u>
275 10 - 60% of mass 198	<u>23.2</u>
365 1 - 100% of mass 198	<u>2.5</u>
441 0.01 - 24% of mass 442	<u>13.9</u>
442 50 - 500% of mass 198	<u>73.4</u>
443 15 - 24% of mass 442	<u>18.4</u>

Form 5  
Tune Summary

Lab Name: APPL Inc.  
Case No: 98337  
Matrix: Water  
ID: 1124K059.D

SDG No: 98337  
Date Analyzed: 12/1/2021  
Instrument: KYLO  
Time Analyzed: 9:56

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	5 ug/ml 10/19/21 (2)	1124K060.D	12/1/2021 10:08
2	Blank	211129A BLK 1/1000	1124K061.D
3	Lab Control Spike	211129A LCS-1 1/1000	1124K062.D
4	Lab Control SpikeD	211129A LCSD-1 1/100	1124K063.D
5	ERH1947	BA46979W07 1/1000	1124K068.D
6	ERH1950	BA46981W07 1/1000	1124K069.D
7	ERH1953	BA46983W07 1/1000	1124K070.D
8	ERH1956	BA46985W07 1/1000	1124K071.D
9	5 ug/ml 10/19/21 (1)	1124K096.D	12/1/2021 22:06
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

m/e

51 9.95 - 80.1% of mass 198	<u>37.7</u>
68 0 - 2.05% of mass 69	<u>1.9</u>
70 0 - 2% of mass 69	<u>0.5</u>
127 10 - 80% of mass 198	<u>56.8</u>
197 0 - 2% of mass 198	<u>0.7</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>21.2</u>
365 1 - 100% of mass 198	<u>2.1</u>
441 0.01 - 24% of mass 442	<u>14.4</u>
442 50 - 500% of mass 198	<u>60.3</u>
443 15 - 24% of mass 442	<u>18.9</u>

8A  
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: \_\_\_\_\_  
 Lab Code: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Lab File ID (Standard): 1124K060.D Date Analyzed: 1 Dec 21 10:08  
 Instrument ID: KYLO Time Analyzed: 1 Dec 21 10:08  
 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	10556	3.86	5012	5.79	7449	7.49
	UPPER LIMIT	21112	4.03	10024	5.96	14898	7.66
	LOWER LIMIT	5278	3.69	2506	5.62	3725	7.32
	SAMPLE NO.						
01	211129A BLK 1/1000	10121	3.86	4869	5.79	7517	7.49
02	211129A LCS-1 1/1000	10677	3.86	5170	5.79	8059	7.49
03	211129A LCSD-1 1/1000	10411	3.86	5102	5.79	8060	7.49
04	BA46979W07 1/1000	8989	3.86	4654	5.79	7785	7.49
05	BA46981W07 1/1000	11473	3.86	6039	5.79	9418	7.49
06	BA46983W07 1/1000	10599	3.86	5406	5.79	8883	7.49
07	BA46985W07 1/1000	10510	3.86	5375	5.79	8407	7.49
08	5 ug/ml 10/19/21 (1)	15373	3.86	7614	5.79	11236	7.49
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: \_\_\_\_\_  
 Lab Code: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Lab File ID (Standard): 1124K060.D Date Analyzed: 1 Dec 21 10:08  
 Instrument ID: KYLO Time Analyzed: 1 Dec 21 10:08  
 GC Column: \_\_\_\_\_ ID: \_\_\_\_\_ Heated Purge: (Y/N) \_\_\_\_\_

		Chrysene-D12(IS)		Perylene-D12(IS)			
		AREA	#	RT	#	AREA	#
	12 HOUR STD	9092		10.54		8374	12.71
	UPPER LIMIT	18184		10.71		16748	12.88
	LOWER LIMIT	4546		10.37		4187	12.54
	SAMPLE NO.						
01	211129A BLK 1/1000	8794		10.55		8022	12.71
02	211129A LCS-1 1/1000	9659		10.54		8895	12.71
03	211129A LCSD-1 1/1000	9628		10.54		8737	12.71
04	BA46979W07 1/1000	9030		10.54		8073	12.71
05	BA46981W07 1/1000	10509		10.54		9169	12.71
06	BA46983W07 1/1000	10346		10.54		9198	12.71
07	BA46985W07 1/1000	9381		10.54		8420	12.71
08	5 ug/ml 10/19/21 (1)	13098		10.54		11557	12.71
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: 98337

Case No: 98337

Date Analyzed: 12/7/2021

Matrix: WATER

Instrument: Zeus

APPL ID.	Client Sample No.	SURROGATE: 1,2-DICHLOROETHANE-D4 (S)			SURROGATE: 4-BROMOFLUOROBENZENE (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
AZ211207-LCS	Lab Control Spike	81-118	109		85-114	103	
AZ211207-LCSD	Lab Control SpikeD	81-118	109		85-114	102	
AZ211207-BLK	Blank	81-118	112		85-114	101	
BA46978	ERH1946	81-118	112		85-114	97.8	
BA46979	ERH1947	81-118	109		85-114	97.4	
BA46980	ERH1949	81-118	111		85-114	96.9	
BA46981	ERH1950	81-118	113		85-114	101	
BA46982	ERH1952	81-118	111		85-114	98.8	
BA46983	ERH1953	81-118	112		85-114	99.9	
BA46984	ERH1955	81-118	113		85-114	100	
BA46985	ERH1956	81-118	115		85-114	101	

Comments: Batch: #86BTO-AZ211207

Printed: 12/10/2021 10:20:15 AM  
Form 2 & 8, Surrogate Recovery Summary

# EPA 8260B

Form 2 & 8

## Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 98337

Case No: 98337

Date Analyzed: 12/7/2021

Matrix: WATER

Instrument: Zeus

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
AZ211207-LCS	Lab Control Spike	80-119	99.2		89-112	102	
AZ211207-LCSD	Lab Control SpikeD	80-119	99.2		89-112	102	
AZ211207-BLK	Blank	80-119	105		89-112	100	
BA46978	ERH1946	80-119	106		89-112	97.4	
BA46979	ERH1947	80-119	103		89-112	96.3	
BA46980	ERH1949	80-119	106		89-112	96.6	
BA46981	ERH1950	80-119	105		89-112	96.6	
BA46982	ERH1952	80-119	104		89-112	98.4	
BA46983	ERH1953	80-119	106		89-112	100	
BA46984	ERH1955	80-119	106		89-112	99.4	
BA46985	ERH1956	80-119	110		89-112	99.1	

Comments: Batch: #86BTO-AZ211207

Printed: 12/10/2021 10:20:15 AM  
Form 2 & 8, Surrogate Recovery Summary

# **EPA 8260B**

Form 4

## **Blank Summary**

Lab Name: APPL, Inc.  
Case No: 98337  
Matrix: WATER  
Blank ID: AZ211207-BLK

SDG No: 98337  
Date Analyzed: 12/7/2021  
Instrument: Zeus  
Time Analyzed: 1755

<b>APPL ID.</b>	<b>Client Sample No.</b>	<b>File ID.</b>	<b>Date Analyzed</b>
AZ211207-LCS	Lab Control Spike	1207Z03	12/7/2021 1554
AZ211207-LCSD	Lab Control Spiked	1207Z04	12/7/2021 1619
AZ211207-BLK	Blank	1207Z08	12/7/2021 1755
BA46978	ERH1946	1207Z14	12/7/2021 2019
BA46979	ERH1947	1207Z15	12/7/2021 2043
BA46980	ERH1949	1207Z16	12/7/2021 2107
BA46981	ERH1950	1207Z17	12/7/2021 2131
BA46982	ERH1952	1207Z18	12/7/2021 2155
BA46983	ERH1953	1207Z19	12/7/2021 2219
BA46984	ERH1955	1207Z20	12/7/2021 2243
BA46985	ERH1956	1207Z21	12/7/2021 2307

Comments: Batch: #86BTO-AZ211207

Printed: 12/10/2021 10:19:43 AM  
Form 4, Blank Summary



**Method Blank**  
**EPA 8260B BTEX WATER**

Blank Name/QCG: **AZ2112W-46970 - 271380**  
Batch ID: #86BTO-AZ211207

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	12/7/2021	12/7/2021
BLANK	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	12/7/2021	12/7/2021
BLANK	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	12/7/2021	12/7/2021
BLANK	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	12/7/2021	12/7/2021
BLANK	SURROGATE: 1,2-DICHLOROET	112	81-118			%	12/7/2021	12/7/2021
BLANK	SURROGATE: 4-BROMOFLUORO	101	85-114			%	12/7/2021	12/7/2021
BLANK	SURROGATE: DIBROMOFLUOR	105	80-119			%	12/7/2021	12/7/2021
BLANK	SURROGATE: TOLUENE-D8 (S)	100	89-112			%	12/7/2021	12/7/2021

Quant Method: Z120621W.M  
Run #: 1207Z08  
Instrument: Zeus  
Sequence: 211206  
Initials: PAN

GC SC-Blank-REG MDLs-DOD  
Printed: 12/10/2021 10:21:30 AM

# **EPA 8260B**

Form 4

## **LCS Summary**

Lab Name: APPL, Inc.

SDG No: 98337

Case No: 98337

Date Analyzed: 12/7/2021

Matrix: WATER

Instrument: Zeus

LCS ID: AZ211207-LCS

Time Analyzed: 1554

<b>APPL ID.</b>	<b>Client Sample No.</b>	<b>File ID.</b>	<b>Date Analyzed</b>
AZ211207-LCS	Lab Control Spike	1207Z03	12/7/2021 1554
AZ211207-LCSD	Lab Control Spiked	1207Z04	12/7/2021 1619
AZ211207-BLK	Blank	1207Z08	12/7/2021 1755
BA46978	ERH1946	1207Z14	12/7/2021 2019
BA46979	ERH1947	1207Z15	12/7/2021 2043
BA46980	ERH1949	1207Z16	12/7/2021 2107
BA46981	ERH1950	1207Z17	12/7/2021 2131
BA46982	ERH1952	1207Z18	12/7/2021 2155
BA46983	ERH1953	1207Z19	12/7/2021 2219
BA46984	ERH1955	1207Z20	12/7/2021 2243
BA46985	ERH1956	1207Z21	12/7/2021 2307

Comments: Batch: #86BTO-AZ211207

Printed: 12/10/2021 10:18:31 AM  
Form 4, LCS Summary

# Laboratory Control Spike Recoveries

## EPA 8260B BTEX WATER

APPL ID: 211207W-46970 LCS - 271380

Batch ID: #86BTO-AZ211207

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	9.85	94.9	98.5	79-120	3.7	20
ETHYLBENZENE	10.00	10.0	10.4	100	104	79-121	3.9	20
TOLUENE	10.00	9.36	9.69	93.6	96.9	80-121	3.5	20
XYLENES (TOTAL)	30.0	29.8	30.8	99.3	103	79-121	3.3	20
-----								
SURROGATE: 1,2-DICHLOROETHANE-D	25.0	27.3	27.3	109	109	81-118		
SURROGATE: 4-BROMOFLUOROBENZE	25.0	25.7	25.5	103	102	85-114		
SURROGATE: DIBROMOFLUOROMETH	25.0	24.8	24.8	99.2	99.2	80-119		
SURROGATE: TOLUENE-D8 (S)	25.0	25.5	25.5	102	102	89-112		
-----								

Comments: \_\_\_\_\_

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	Z120621W.M	Z120621W.M
Extraction Date :	12/7/2021	12/7/2021
Analysis Date :	12/7/2021	12/7/2021
Instrument :	Zeus	Zeus
Run :	1207Z03	1207Z04
Initials :	PAN	

Form 5  
Tune Summary

Lab Name: APPL Inc.  
Case No: \_\_\_\_\_  
Matrix: Water  
ID: 1206Z16.D

SDG No: \_\_\_\_\_  
Date Analyzed: 12/6/2021  
Instrument: Zeus  
Time Analyzed: 15:24

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	0.3ug/L VOC STD 12/6	1206Z17.D	12/6/2021 15:48
2	0.5ug/L VOC STD 12/6	1206Z18.D	12/6/2021 16:12
3	1ug/L VOC STD 12/6/2	1206Z19.D	12/6/2021 16:36
4	2ug/L VOC STD 12/6/2	1206Z20.D	12/6/2021 17:00
5	5ug/L VOC STD 12/6/2	1206Z21.D	12/6/2021 17:24
6	10ug/L VOC STD 12/6/	1206Z22.D	12/6/2021 17:48
7	20ug/L VOC STD 12/6/	1206Z23.D	12/6/2021 18:12
8	40ug/L VOC STD 12/6/	1206Z24.D	12/6/2021 18:36
9	100ug/L VOC STD 12/6	1206Z25.D	12/6/2021 19:00
10	(SS) 10ug/L VOC STD	1206Z27.D	12/6/2021 19:48
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

m/e

50 14 - 40% of mass 95	14.4
75 30 - 60% of mass 95	43.6
95 100 - 100% of mass 95	100.0
96 5 - 9% of mass 95	8.4
173 0 - 2.05% of mass 174	0.5
174 50 - 200% of mass 95	78.7
175 5 - 9.5% of mass 174	7.5
176 95 - 101% of mass 174	95.2
177 5 - 9% of mass 176	6.9

8A  
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: \_\_\_\_\_  
 Lab Code: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Lab File ID (Standard): 1206Z22.D Date Analyzed: 12/06/21  
 Instrument ID: Zeus Time Analyzed: 17:48  
 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	407844	6.09	362313	9.59	125640	12.14	
UPPER LIMIT	815688	6.26	724626	9.76	251280	12.31	
LOWER LIMIT	203922	5.92	181157	9.42	62820	11.97	
SAMPLE NO.							
01	0.3ug/L VOC STD 12/6/21	367811	6.09	347235	9.58	119472	12.14
02	0.5ug/L VOC STD 12/6/21	366661	6.09	344388	9.58	116856	12.14
03	1ug/L VOC STD 12/6/21	371997	6.09	345148	9.58	117056	12.14
04	2ug/L VOC STD 12/6/21	388302	6.09	355796	9.58	125880	12.14
05	5ug/L VOC STD 12/6/21	398068	6.09	358845	9.58	126680	12.14
06	10ug/L VOC STD 12/6/21	407844	6.09	362313	9.59	125640	12.14
07	20ug/L VOC STD 12/6/21	429143	6.09	371190	9.58	127840	12.14
08	40ug/L VOC STD 12/6/21	438913	6.09	374368	9.58	124832	12.14
09	100ug/L VOC STD 12/6/21	457473	6.09	388410	9.58	126216	12.14
10	(SS) 10ug/L VOC STD 12/6/21	412017	6.09	360860	9.58	119576	12.14
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.

Form 5  
Tune Summary

Lab Name: APPL Inc.  
 Case No: 98337  
 Matrix: Water  
 ID: 1207Z01.D

SDG No: 98337  
 Date Analyzed: 12/7/2021  
 Instrument: Zeus  
 Time Analyzed: 15:06

Client Sample No.	APPL ID.	File ID.	Date Analyzed	
1		211207A CCV 10ug/L	1207Z02.D	12/7/2021 15:30
2	Lab Control Spike	211207A LCS 10ug/L	1207Z03.D	12/7/2021 15:54
3	Lab Control SpikeD	211207A LCSD 10ug/L	1207Z04.D	12/7/2021 16:19
4	Blank	211207A BLK	1207Z08.D	12/7/2021 17:55
5	ERH1946	BA46978W02	1207Z14.D	12/7/2021 20:19
6	ERH1947	BA46979W02	1207Z15.D	12/7/2021 20:43
7	ERH1949	BA46980W03	1207Z16.D	12/7/2021 21:07
8	ERH1950	BA46981W02	1207Z17.D	12/7/2021 21:31
9	ERH1952	BA46982W02	1207Z18.D	12/7/2021 21:55
10	ERH1953	BA46983W02	1207Z19.D	12/7/2021 22:19
11	ERH1955	BA46984W02	1207Z20.D	12/7/2021 22:43
12	ERH1956	BA46985W02	1207Z21.D	12/7/2021 23:07
13		Ending CCV 10ug/L 12	1207Z30.D	12/8/2021 2:43
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e

50 14 - 40% of mass 95	<u>15.4</u>
75 30 - 60% of mass 95	<u>44.9</u>
95 100 - 100% of mass 95	<u>100.0</u>
96 5 - 9% of mass 95	<u>7.9</u>
173 0 - 2.05% of mass 174	<u>0.6</u>
174 50 - 200% of mass 95	<u>79.9</u>
175 5 - 9.5% of mass 174	<u>8.8</u>
176 95 - 101% of mass 174	<u>95.6</u>
177 5 - 9% of mass 176	<u>6.8</u>

8A  
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: \_\_\_\_\_  
 Lab Code: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Lab File ID (Standard): 1207Z02.D Date Analyzed: 12/07/21  
 Instrument ID: Zeus Time Analyzed: 15:30  
 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		419379	6.09	367662	9.58	124264	12.14
UPPER LIMIT		838758	6.26	735324	9.75	248528	12.31
LOWER LIMIT		209690	5.92	183831	9.41	62132	11.97
SAMPLE NO.							
01	211207A CCV 10ug/L	419379	6.09	367662	9.58	124264	12.14
02	211207A LCS 10ug/L	424705	6.09	368999	9.58	123640	12.14
03	211207A LCSD 10ug/L	421428	6.09	365775	9.58	121584	12.14
04	211207A BLK	384177	6.09	351591	9.58	118712	12.14
05	BA46978W02	356723	6.09	333299	9.58	114000	12.14
06	BA46979W02	363636	6.09	337314	9.58	117632	12.15
07	BA46980W03	352905	6.09	330640	9.58	110600	12.15
08	BA46981W02	353635	6.09	333416	9.58	113112	12.14
09	BA46982W02	373967	6.09	344217	9.58	111144	12.15
10	BA46983W02	377993	6.09	348377	9.58	116216	12.14
11	BA46984W02	375908	6.09	347557	9.58	117744	12.14
12	BA46985W02	346082	6.09	330128	9.58	112256	12.14
13	Ending CCV 10ug/L 12/7	382625	6.09	342519	9.58	117488	12.14
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: 98337

Case No: 98337

Date Analyzed: 12/7/2021

Matrix: WATER

Instrument: Zeus

APPL ID.	Client Sample No.	SURROGATE: 4-BROMOFLUOROBENZENE (S)			Limits	Result	Qualifier
		Limits	Result	Qualifier			
211207AZ-LCS	Lab Control Spike	85-114	102				
211207AZ-LCSD	Lab Control SpikeD	85-114	102				
211207AZ-BLK	Blank	85-114	101				
BA46978	ERH1946	85-114	97.8				
BA46979	ERH1947	85-114	97.4				
BA46980	ERH1949	85-114	96.9				
BA46981	ERH1950	85-114	101				
BA46982	ERH1952	85-114	98.8				
BA46983	ERH1953	85-114	99.9				
BA46984	ERH1955	85-114	100				
BA46985	ERH1956	85-114	101				

Comments: Batch: #GRO86-211207AZ

Printed: 12/10/2021 11:51:18 AM  
Form 2 & 8, Surrogate Recovery Summary



# EPA 8260B

Form 4

## Blank Summary

Lab Name: APPL, Inc.

SDG No: 98337

Case No: 98337

Date Analyzed: 12/7/2021

Matrix: WATER

Instrument: Zeus

Blank ID: 211207AZ-BLK

Time Analyzed: 1755

<b>APPL ID.</b>	<b>Client Sample No.</b>	<b>File ID.</b>	<b>Date Analyzed</b>
211207AZ-LCS	Lab Control Spike	1207Z06	12/7/2021 1707
211207AZ-LCSD	Lab Control Spiked	1207Z07	12/7/2021 1731
211207AZ-BLK	Blank	1207Z08	12/7/2021 1755
BA46978	ERH1946	1207Z14	12/7/2021 2019
BA46979	ERH1947	1207Z15	12/7/2021 2043
BA46980	ERH1949	1207Z16	12/7/2021 2107
BA46981	ERH1950	1207Z17	12/7/2021 2131
BA46982	ERH1952	1207Z18	12/7/2021 2155
BA46983	ERH1953	1207Z19	12/7/2021 2219
BA46984	ERH1955	1207Z20	12/7/2021 2243
BA46985	ERH1956	1207Z21	12/7/2021 2307

Comments: Batch: #GRO86-211207AZ

Printed: 12/10/2021 11:50:52 AM  
Form 4, Blank Summary

**Method Blank**  
**EPA 8260B GRO WATER**

Blank Name/QCG: **211207W-46970 - 271513**  
Batch ID: #GRO86-211207AZ

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	12/7/2021	12/7/2021
BLANK	SURROGATE: 4-BROMOFLUORO	101	85-114			%	12/7/2021	12/7/2021

Quant Method: ZGAS1206.M  
Run #: 1207Z08  
Instrument: Zeus  
Sequence: 211206  
Initials: PAN

GC SC-Blank-REG MDLs-DOD  
Printed: 12/10/2021 11:52:45 AM

# EPA 8260B

Form 4

## LCS Summary

Lab Name: APPL, Inc.

SDG No: 98337

Case No: 98337

Date Analyzed: 12/7/2021

Matrix: WATER

Instrument: Zeus

LCS ID: 211207AZ-LCS

Time Analyzed: 1707

<b>APPL ID.</b>	<b>Client Sample No.</b>	<b>File ID.</b>	<b>Date Analyzed</b>
211207AZ-LCS	Lab Control Spike	1207Z06	12/7/2021 1707
211207AZ-LCSD	Lab Control Spiked	1207Z07	12/7/2021 1731
211207AZ-BLK	Blank	1207Z08	12/7/2021 1755
BA46978	ERH1946	1207Z14	12/7/2021 2019
BA46979	ERH1947	1207Z15	12/7/2021 2043
BA46980	ERH1949	1207Z16	12/7/2021 2107
BA46981	ERH1950	1207Z17	12/7/2021 2131
BA46982	ERH1952	1207Z18	12/7/2021 2155
BA46983	ERH1953	1207Z19	12/7/2021 2219
BA46984	ERH1955	1207Z20	12/7/2021 2243
BA46985	ERH1956	1207Z21	12/7/2021 2307

Comments: Batch: #GRO86-211207AZ

Printed: 12/10/2021 11:50:21 AM  
Form 4, LCS Summary

# Laboratory Control Spike Recoveries

## EPA 8260B GRO WATER

APPL ID: 211207W-46970 LCS - 271513  
 Batch ID: #GRO86-211207AZ

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	295	302	98.3	101	78-122	2.3	20
SURROGATE: 4-BROMOFLUOROBENZE	25.0	25.4	25.4	102	102	85-114		

Comments: \_\_\_\_\_

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	ZGAS1206.M	ZGAS1206.M
Extraction Date :	12/7/2021	12/7/2021
Analysis Date :	12/7/2021	12/7/2021
Instrument :	Zeus	Zeus
Run :	1207Z06	1207Z07
Initials :	PAN	

# **SW846 9060A**

Form 4

## **Blank Summary**

Lab Name: APPL, Inc.  
Case No: 98337  
Matrix: WATER  
Blank ID: 211129A-BLK

SDG No: 98337  
Date Analyzed: 11/29/2021  
Instrument: TICTOC  
Time Analyzed: 1715

<b>APPL ID.</b>	<b>Client Sample No.</b>	<b>File ID.</b>	<b>Date Analyzed</b>
211129A-LCS	Lab Control Spike	15	11/29/2021 1634
211129A-BLK	Blank	16	11/29/2021 1715
211129A-LCSD	Lab Control Spiked	27	11/30/2021 0039
BA46983	ERH1953	35	11/30/2021 0602
BA46985	ERH1956	36	11/30/2021 0642
BA46981	ERH1950	37	11/30/2021 0724
BA46979	ERH1947	38	11/30/2021 0805

Comments: Batch: #TOCW5-211129A

# WETLAB BLANK

APPL Inc.  
908 North Temperance Avenue  
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
SW846 90	TOTAL ORGANIC C	0.350 U	0.93	0.350	0.130	mg/L	11/29/21	11/29/21	#TOCW5-211129A-BA46714

# **SW846 9060A**

Form 4

## **LCS Summary**

Lab Name: APPL, Inc.  
Case No: 98337  
Matrix: WATER  
LCS ID: 211129A-LCS

SDG No: 98337  
Date Analyzed: 11/29/2021  
Instrument: TICTOC  
Time Analyzed: 1634

<b>APPL ID.</b>	<b>Client Sample No.</b>	<b>File ID.</b>	<b>Date Analyzed</b>
211129A-LCS	Lab Control Spike	15	11/29/2021 1634
211129A-BLK	Blank	16	11/29/2021 1715
211129A-LCSD	Lab Control Spiked	27	11/30/2021 0039
BA46983	ERH1953	35	11/30/2021 0602
BA46985	ERH1956	36	11/30/2021 0642
BA46981	ERH1950	37	11/30/2021 0724
BA46979	ERH1947	38	11/30/2021 0805

Comments: Batch: #TOCW5-211129A

# 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	5.00	4.90	4.94	98.0	98.8	0.81	20	80-120	11/29/21	11/29/21	11/30/21	11/30/21	#TOCW5-211129A-BA467

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**ORGANICS**  
**Calibration Data**

TPH Extractables  
DOC1212

Form 6  
Initial Calibration

Lab Name: APPL, Inc. \_\_\_\_\_

SDG No: \_\_\_\_\_

Case No: \_\_\_\_\_

Initial Cal. Date: 12/12/2021 \_\_\_\_\_

Matrix: Water \_\_\_\_\_

Instrument: Apollo \_\_\_\_\_

Initials: LAC \_\_\_\_\_

1212006.D 1212007.D 1212008.D 1212009.D 1212010.D 1212011.D 1212012.D

	Compound	1	2	3	4	5	6	7				Avg	%RSD	Type	r <sup>2</sup>	Q
1	HATML Diesel (C10-C24)	8409900	1925328	2069958	2001689	2006236	1962917	2154305				2932905	82	HATM	0.997	
2	HBTML Motor Oil (C24-C40)	6316816	1467738	1268546	1230563	1263138	1244243	1381191				2024605	94	HBTM	0.996	
3	SA Ortho-Terphenyl(S)		2678531	2553559	2458004	2431880	2380674	2534932				2506263	4.2	SA		
4	SA Octacosane(S)		1928500	1894461	1754396	1742966	1677732	1863978				1810339	5.5	SA		
5																
6																
7																
8																
9																
10																
11																
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35																

5.305152

Data File : G:\APOLLO\DATA\211212\1212006.D Vial: 4  
 Acq On : 12-12-21 16:08:57 Operator: KA  
 Sample : DMO Calibration 1 12/12/21 Inst : Apollo  
 Misc : Water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Dec 13 5:49 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Mon Dec 13 05:52:11 2021  
 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)	7.65	5591530	362.599 ppb
Surrogate Spike 30.000		Recovery =	1208.66%
4) SA Octacosane(S)	10.03	4056830	1.381 ppb
Surrogate Spike 30.000		Recovery =	4.60%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	84098995	26.361 ppb
2) HBTM Motor Oil (C24-C40)	15.67	63168156	34.400 ppb

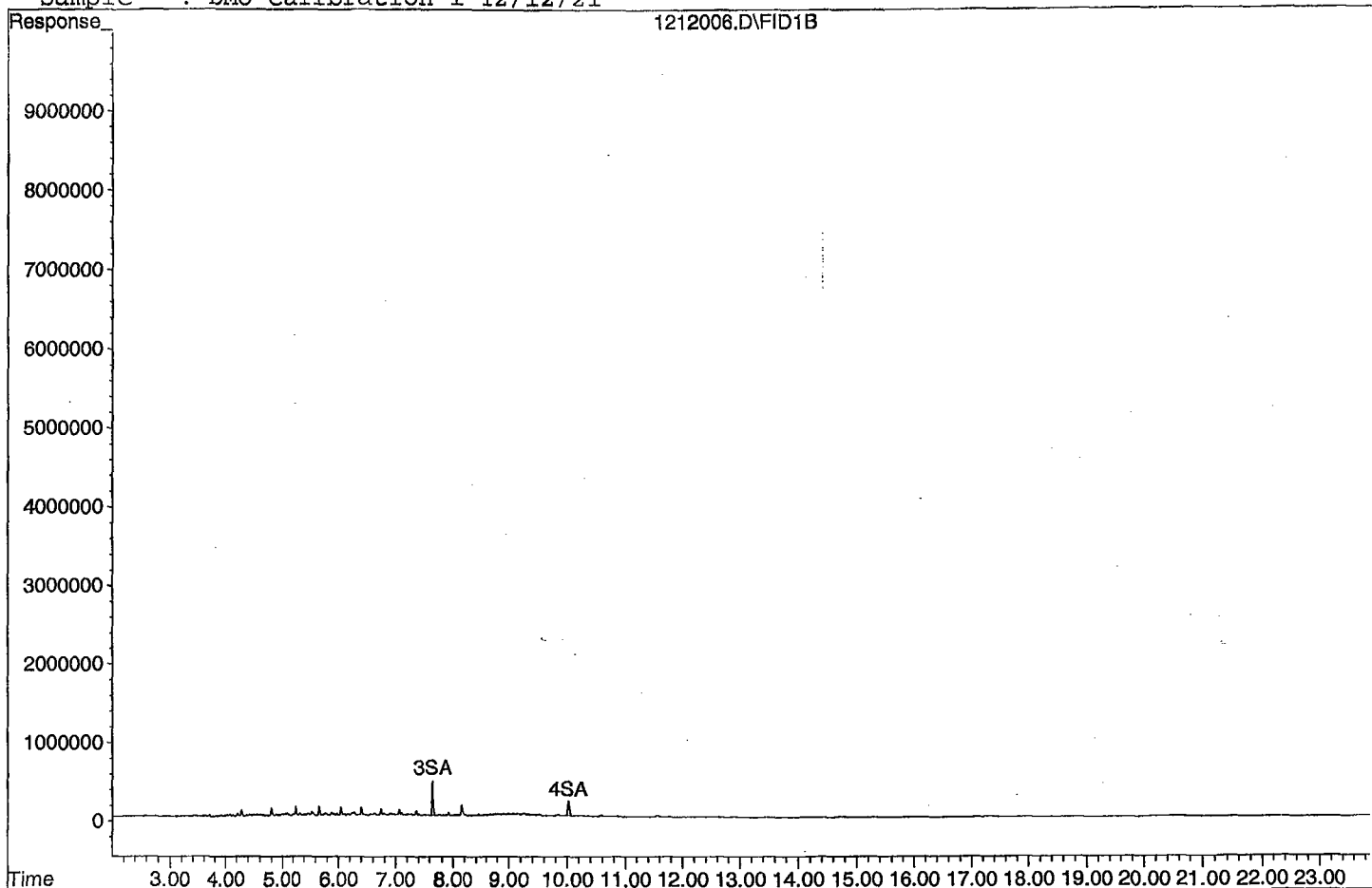
Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211212\1212006.D

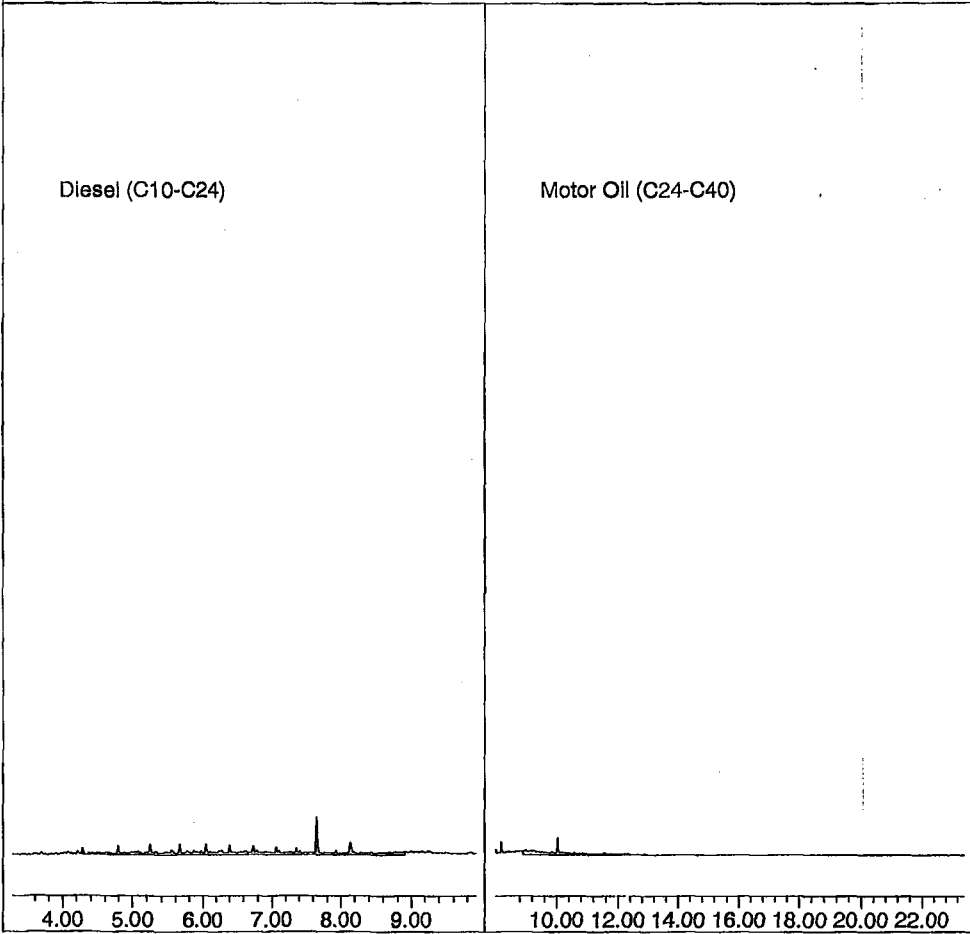
Sample : DMO Calibration 1 12/12/21

1212006.D\FID1B



Diesel (C10-C24)

Motor Oil (C24-C40)



Data File : G:\APOLLO\DATA\211212\1212007.D Vial: 5  
 Acq On : 12-12-21 16:37:14 Operator: KA  
 Sample : DMO Calibration 2 12/12/21 Inst : Apollo  
 Misc : Water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Dec 13 5:49 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Mon Dec 13 05:52:11 2021  
 Response via : Multiple Level Calibration

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

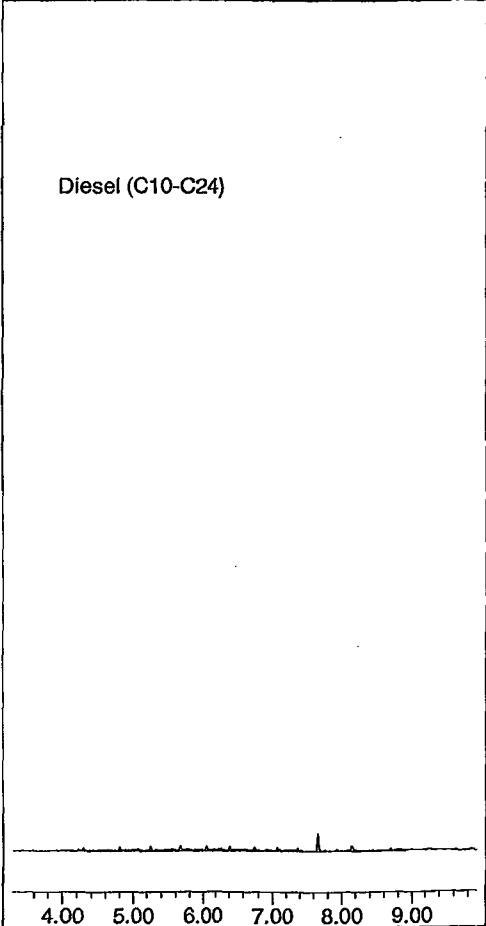
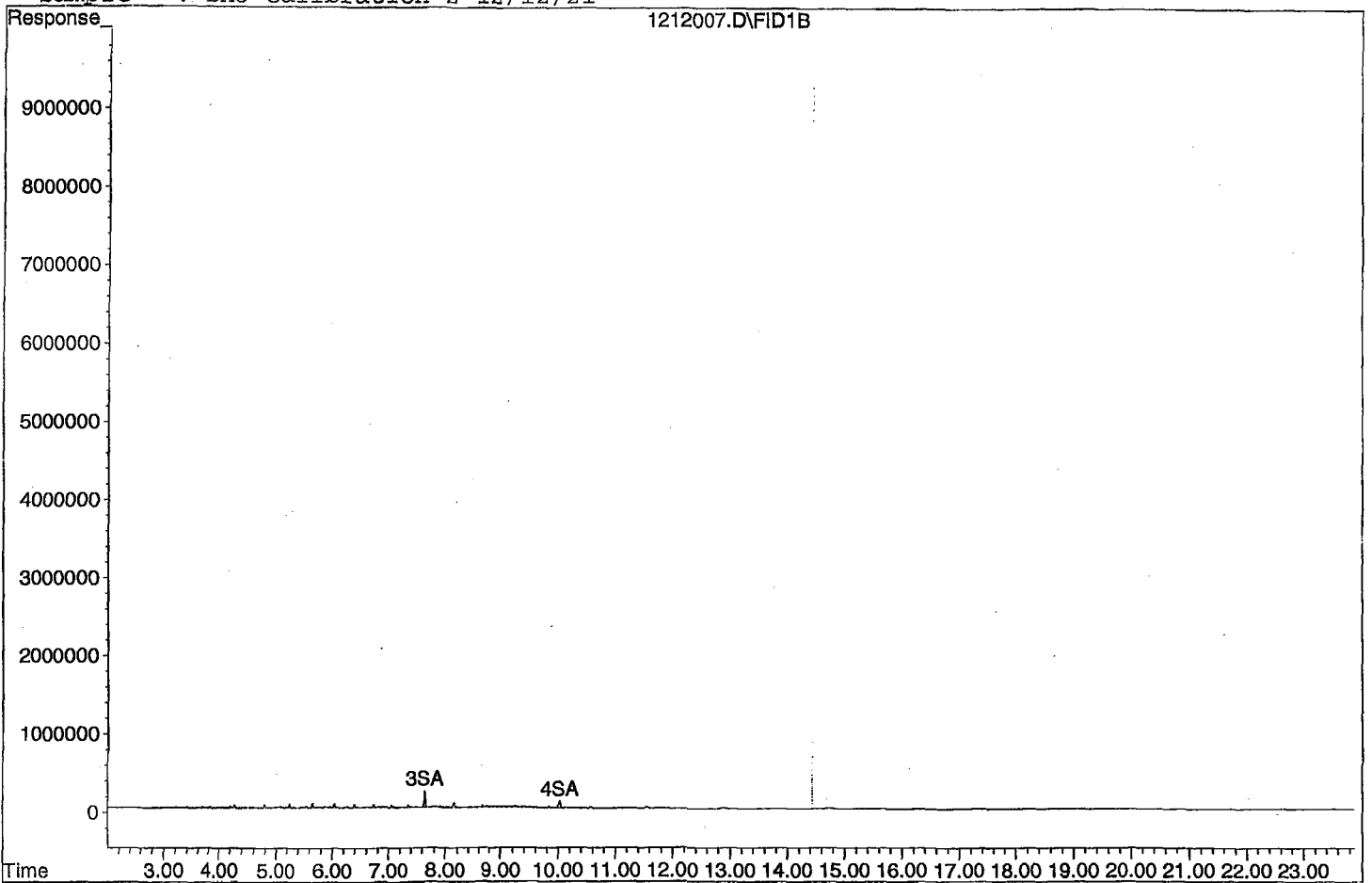
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.65	2678531	172.354 ppb
Surrogate Spike 30.000		Recovery =	574.51%
4) SA Octacosane(S)	10.03	1928500	0.788 ppb
Surrogate Spike 30.000		Recovery =	2.63%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	38506565	16.036 ppb
2) HBTM Motor Oil (C24-C40)	15.67	29354754	21.697 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211212\1212007.D

Sample : DMO Calibration 2 12/12/21



Data File : G:\APOLLO\DATA\211212\1212008.D Vial: 6  
 Acq On : 12-12-21 17:05:32 Operator: KA  
 Sample : DMO Calibration 3 12/12/21 Inst : Apollo  
 Misc : Water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Dec 13 5:50 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Mon Dec 13 05:52:11 2021  
 Response via : Multiple Level Calibration

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

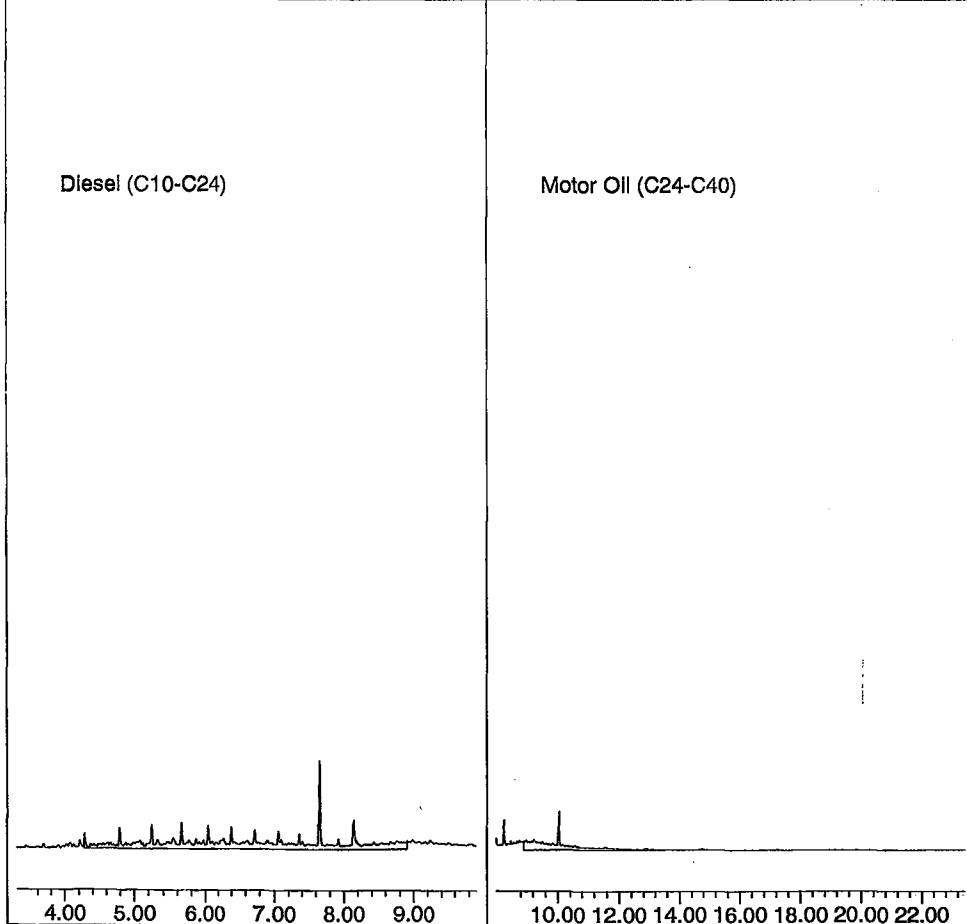
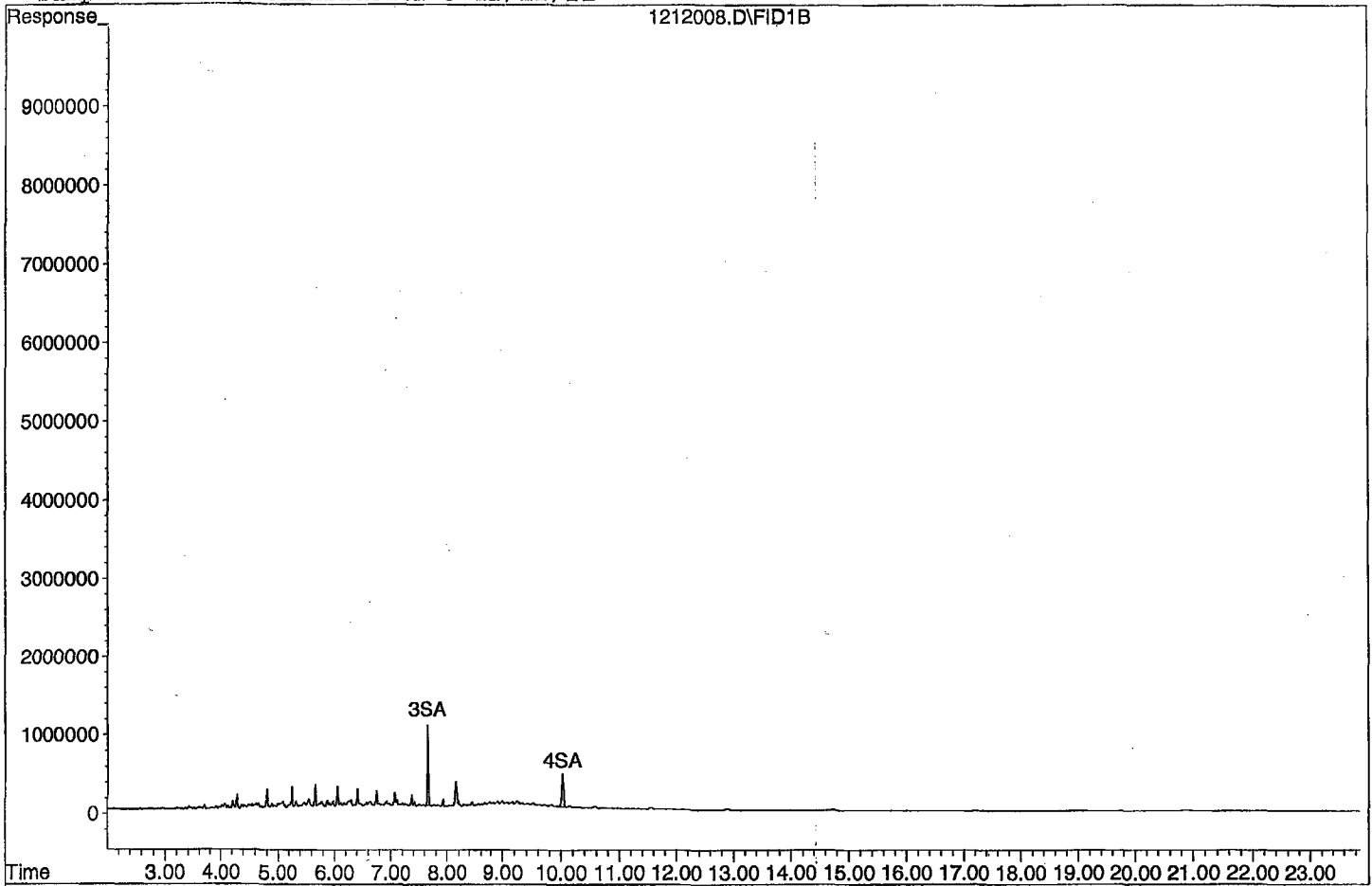
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.65	12767795	831.275 ppb
Surrogate Spike 30.000		Recovery =	2770.92%
4) SA Octacosane(S)	10.03	9472303	2.889 ppb
Surrogate Spike 30.000		Recovery =	9.63%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	206995836	54.193 ppb
2) HBTM Motor Oil (C24-C40)	15.67	126854570	58.325 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211212\1212008.D

Sample : DMO Calibration 3 12/12/21





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211212\1212009.D Vial: 7  
 Acq On : 12-12-21 17:33:48 Operator: KA  
 Sample : DMO Calibration 4 12/12/21 Inst : Apollo  
 Misc : Water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Dec 13 5:50 2021 Quant Results File: DOC1212.RES

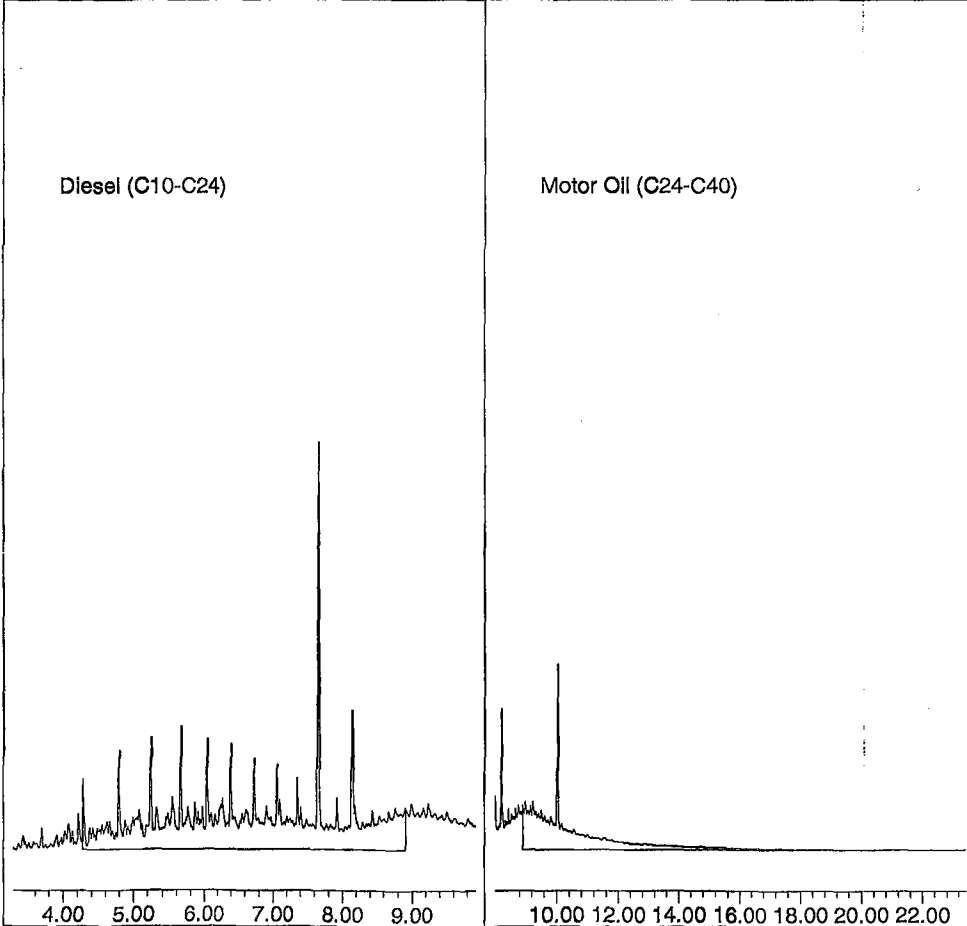
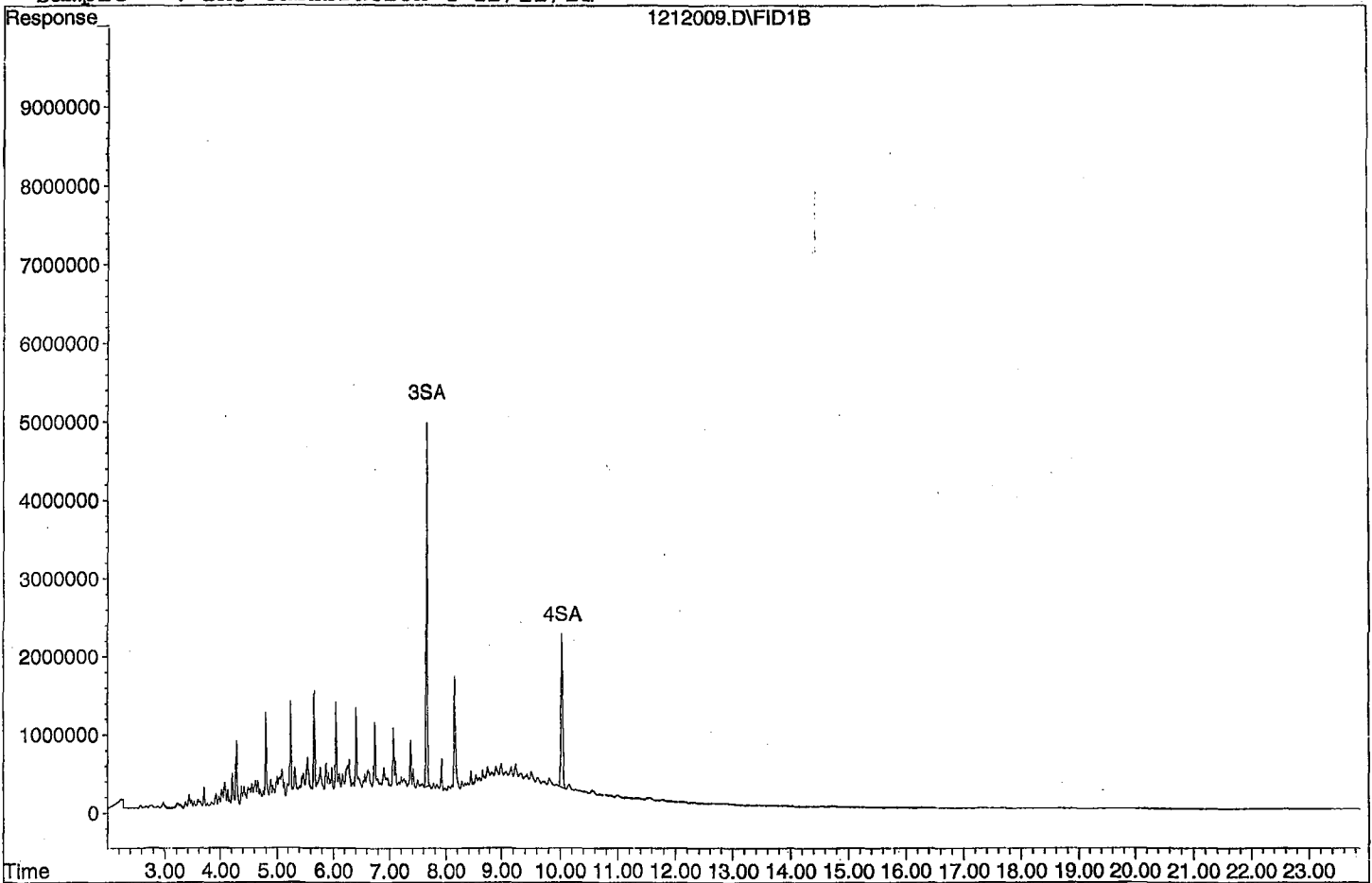
Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Mon Dec 13 05:52:11 2021  
 Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.66	61450098	4010.675 ppb
Surrogate Spike 30.000		Recovery =	13368.92%
4) SA Octacosane(S)	10.03	43859896	12.467 ppb
Surrogate Spike 30.000		Recovery =	41.56%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	1000844348	233.976 ppb
2) HBTM Motor Oil (C24-C40)	15.67	615281568	241.810 ppb
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\211212\1212009.D  
Sample : DMO Calibration 4 12/12/21



Data File : G:\APOLLO\DATA\211212\1212010.D Vial: 8  
 Acq On : 12-12-21 18:02:04 Operator: KA  
 Sample : DMO Calibration 5 12/12/21 Inst : Apollo  
 Misc : Water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Dec 13 5:50 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Mon Dec 13 05:52:11 2021  
 Response via : Multiple Level Calibration

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

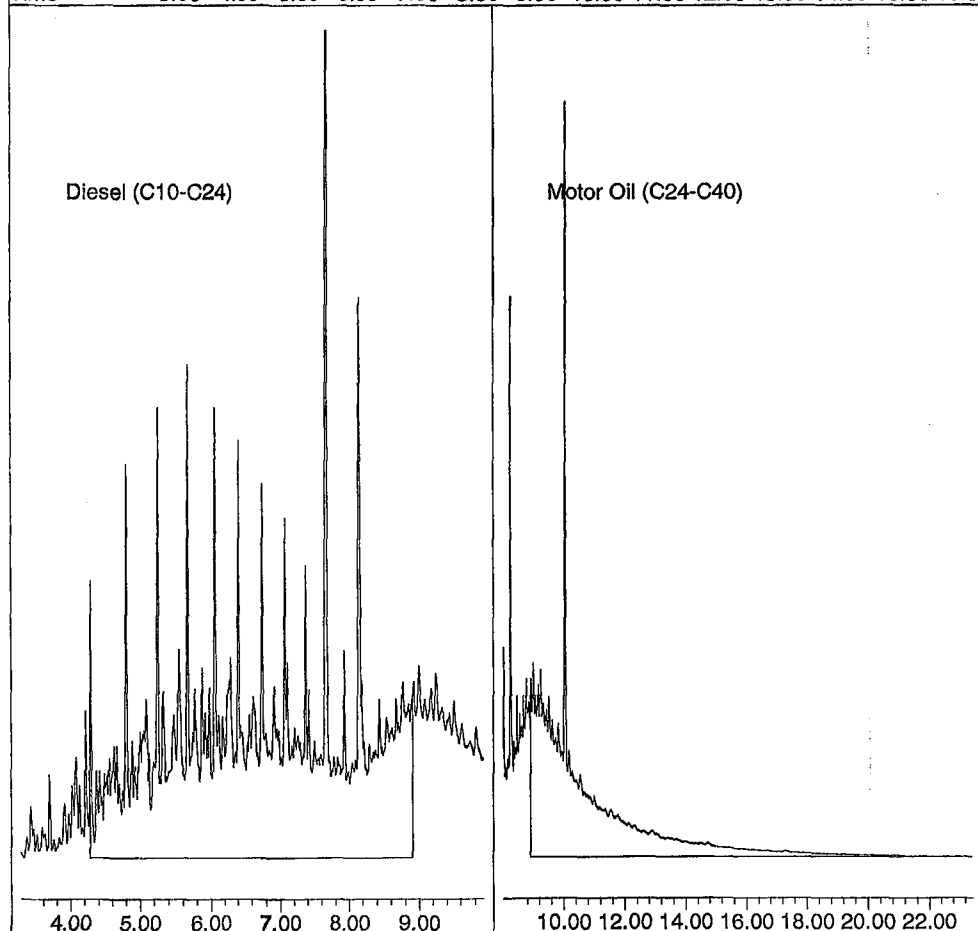
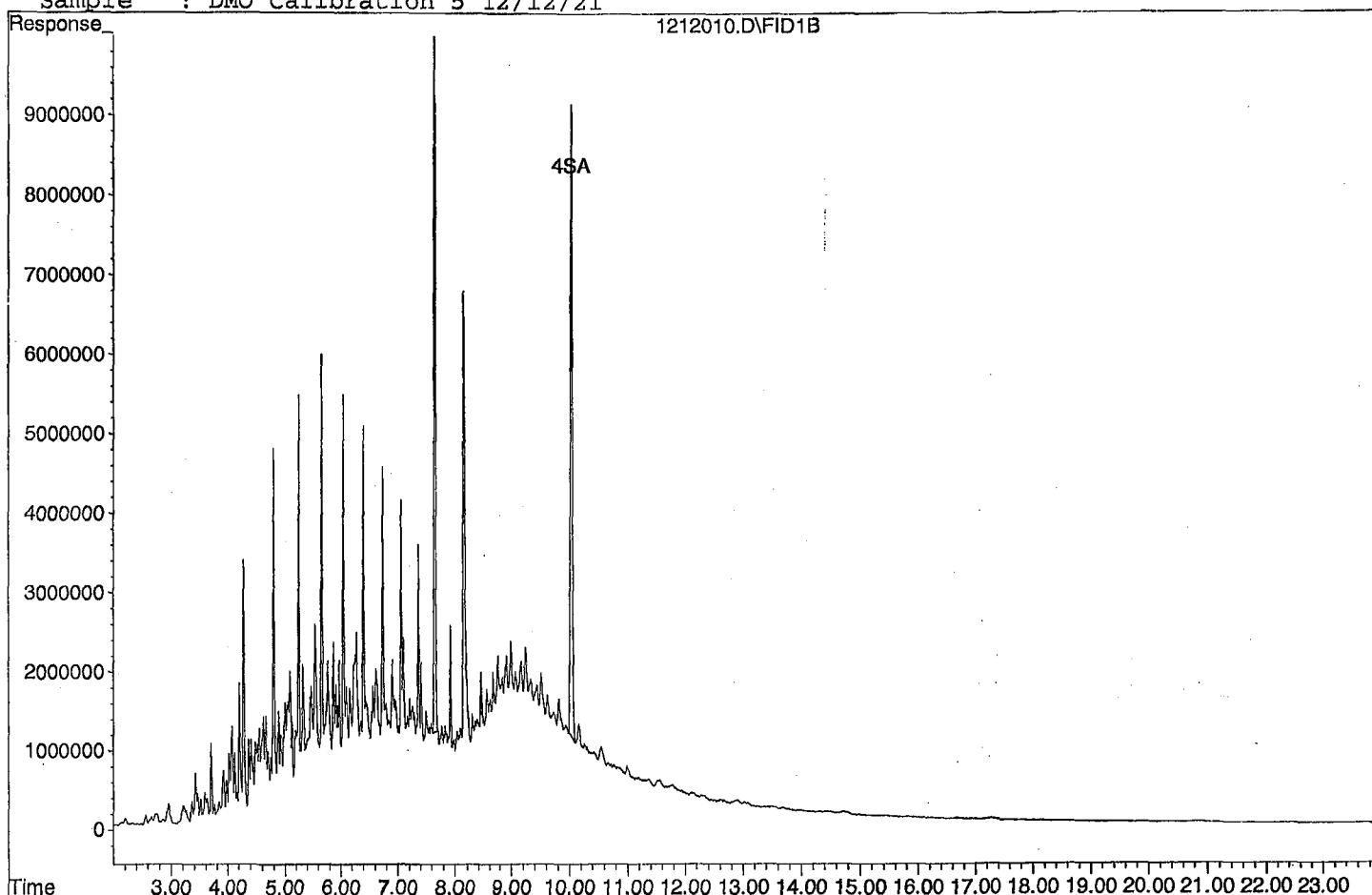
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.66	243188022	15879.826 ppb
Surrogate Spike 30.000		Recovery =	52932.75%
4) SA Octacosane(S)	10.04	174296600	48.797 ppb
Surrogate Spike 30.000		Recovery =	162.66%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	4012472898	916.018 ppb
2) HBTM Motor Oil (C24-C40)	15.67	2526276181	959.706 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211212\1212010.D

Sample : DMO Calibration 5 12/12/21



Data File : G:\APOLLO\DATA\211212\1212011.D Vial: 9  
 Acq On : 12-12-21 18:30:20 Operator: KA  
 Sample : DMO Calibration 6 12/12/21 Inst : Apollo  
 Misc : Water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Dec 13 5:50 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Mon Dec 13 05:52:11 2021  
 Response via : Multiple Level Calibration

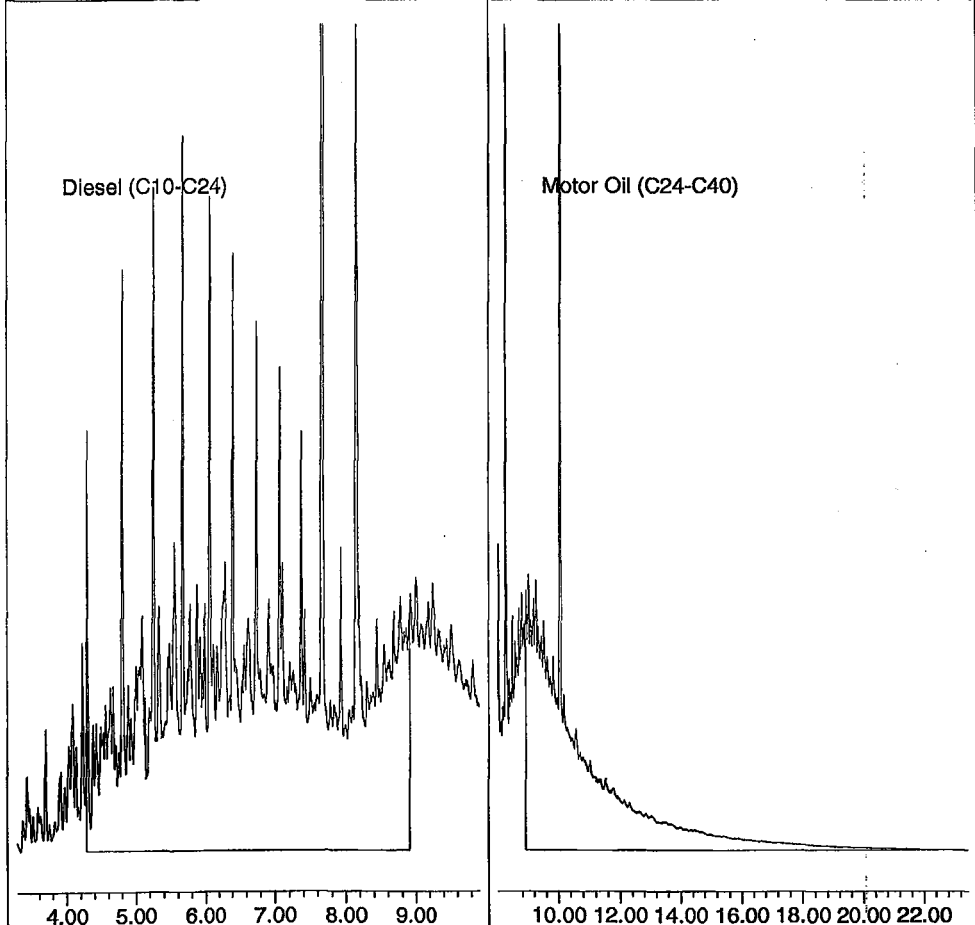
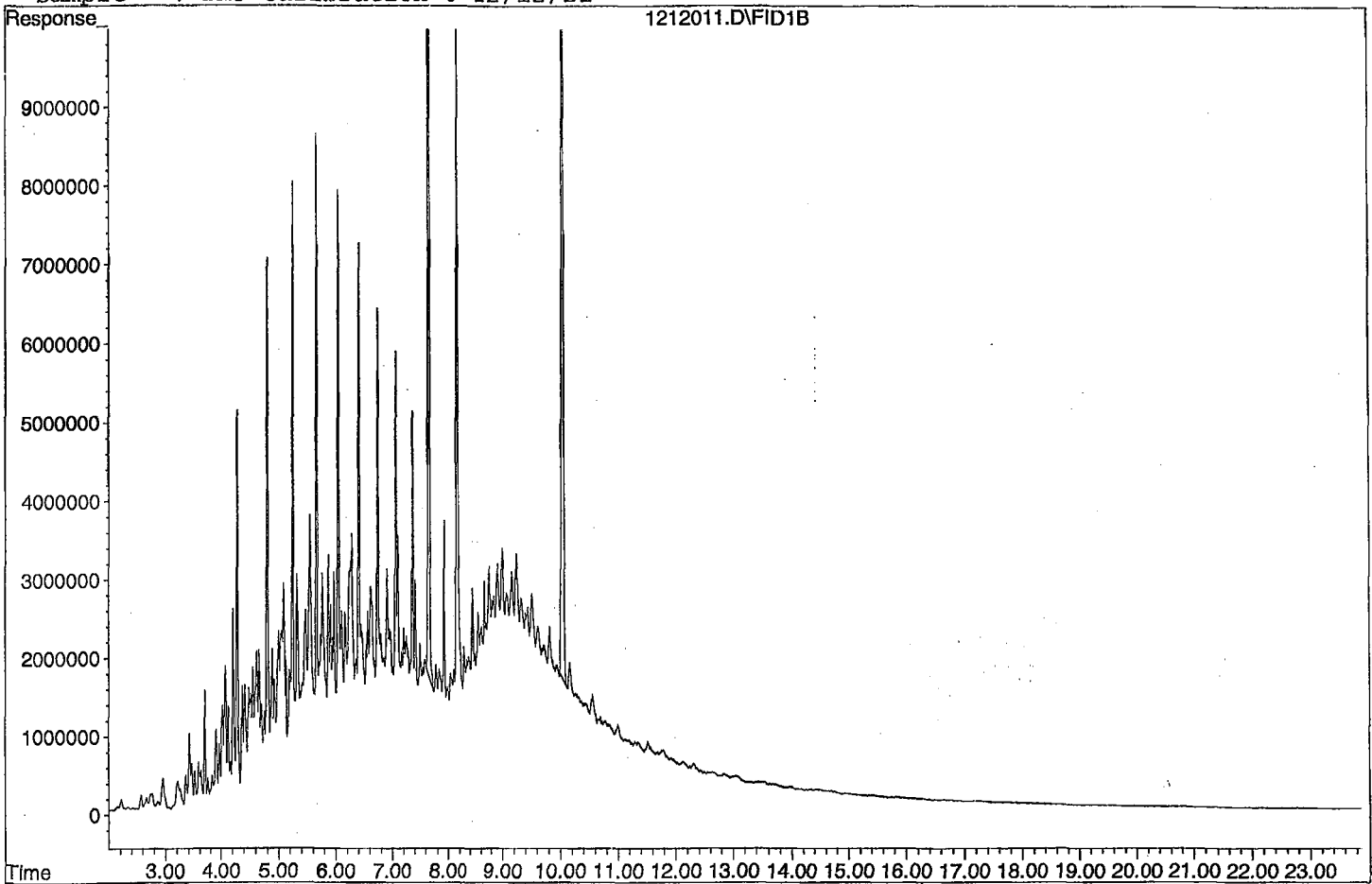
Volume Inj. : 2UL  
 Signal Phase : DB-5  
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.66	357101161	23319.396 ppb
Surrogate Spike 30.000		Recovery =	77731.32%
4) SA Octacosane(S)	10.04	251659753	70.344 ppb
Surrogate Spike 30.000		Recovery =	234.48%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	5888751722	1340.938 ppb
2) HBTM Motor Oil (C24-C40)	15.67	3732727704	1412.928 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211212\1212011.D  
Sample : DMO Calibration 6 12/12/21



Data File : G:\APOLLO\DATA\211212\1212012.D Vial: 10  
 Acq On : 12-12-21 18:58:36 Operator: KA  
 Sample : DMO Calibration 7 12/12/21 Inst : Apollo  
 Misc : Water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Dec 13 5:50 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Mon Dec 13 05:52:11 2021  
 Response via : Multiple Level Calibration

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

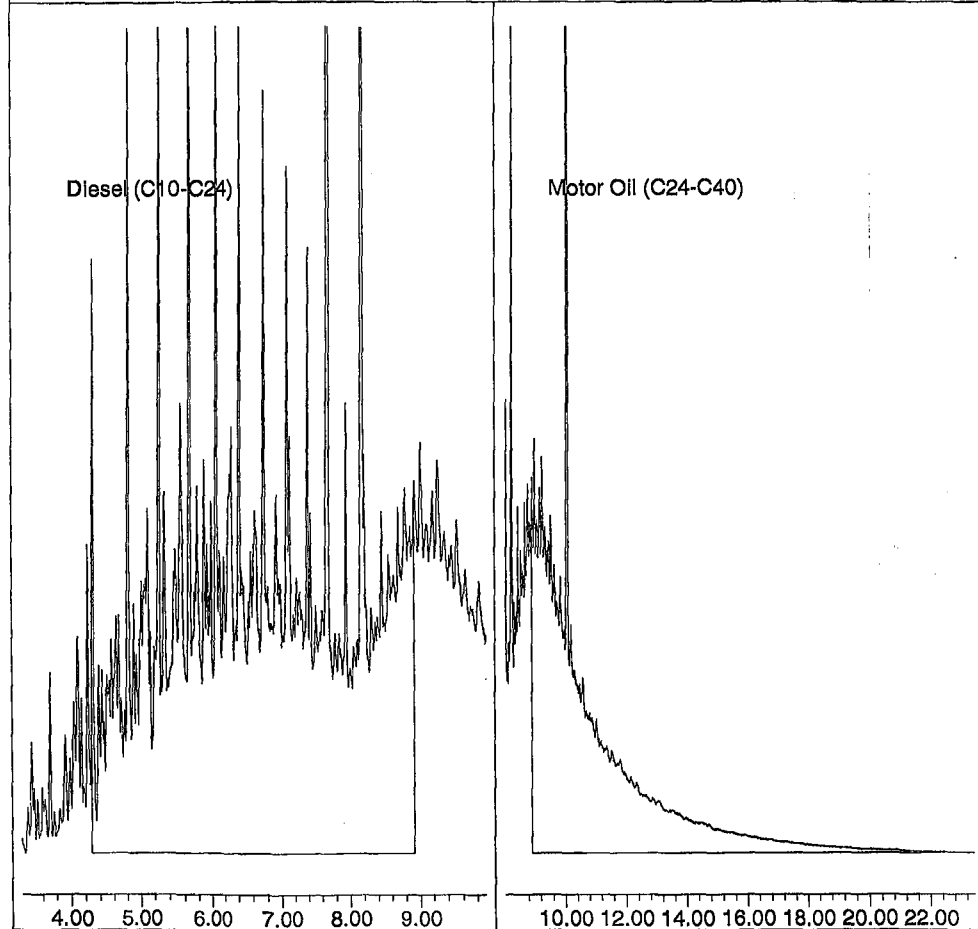
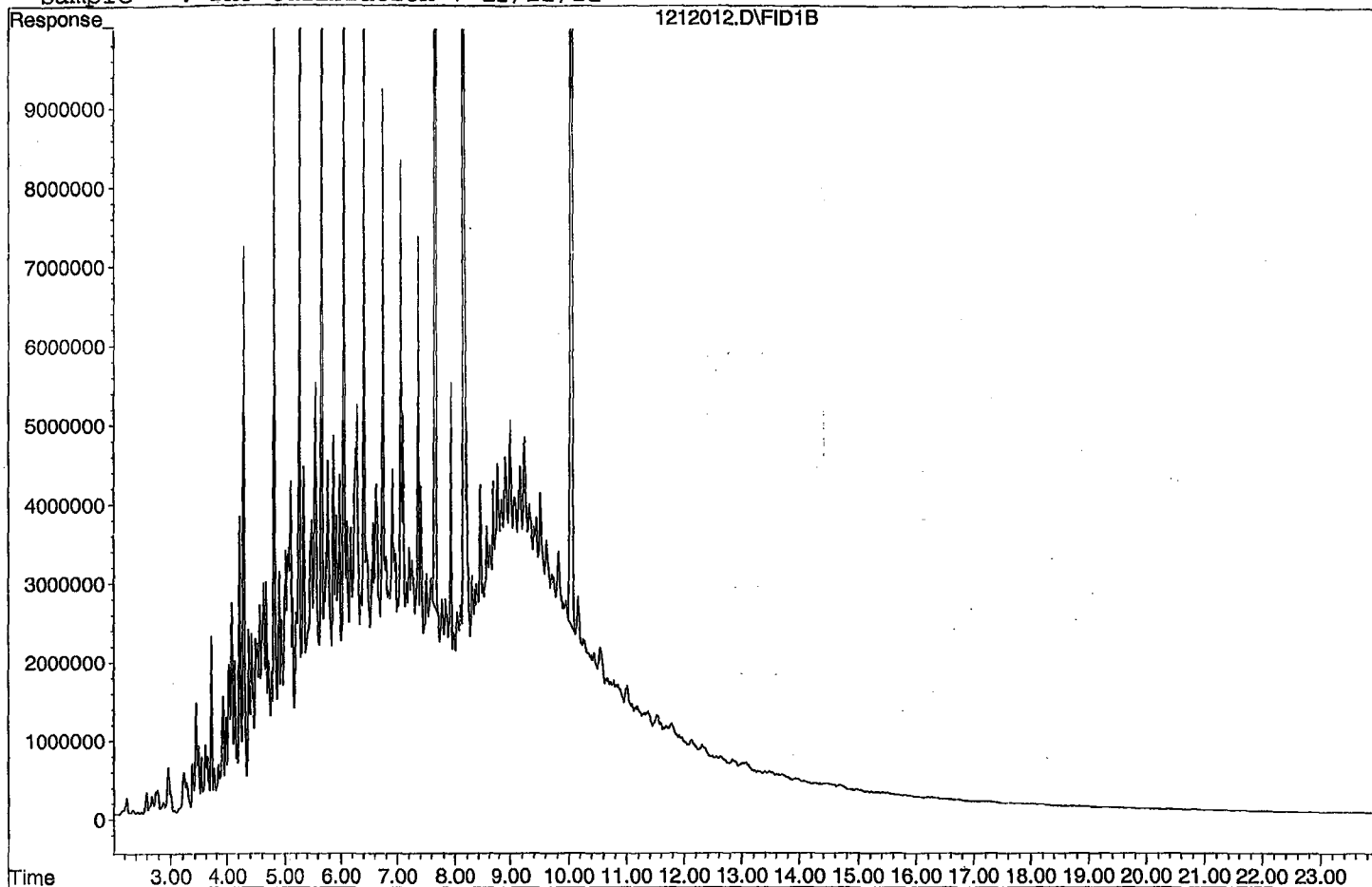
Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	506986332	33108.270 ppb
Surrogate Spike 30.000		Recovery	= 110360.90%
4) SA Octacosane(S)	10.05	372795641	104.084 ppb
Surrogate Spike 30.000		Recovery	= 346.95%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	8617221755	1958.853 ppb
2) HBTM Motor Oil (C24-C40)	15.67	5524762507	2086.135 ppb
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\211212\1212012.D

Sample : DMO Calibration 7 12/12/21

1212012.D\FID1B





TPH Extractables  
DOC1212

Form 7

Second Source Calibration

Lab Name: APPL, Inc.

SDG No: \_\_\_\_\_

Case No: \_\_\_\_\_

Date Analyzed: 12/12/2021

Matrix: Water

Instrument: Apollo

Initial Cal. Date: 12/12/2021

Data File: 1212013.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C24)	2932900	1827280	38	HATML	9.3
2	HBTM	Motor Oil (C24-C40)	2024600	1287750	36	HBTML	1.0
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Average

37.0

Data File : G:\APOLLO\DATA\211212\1212013.D Vial: 11  
 Acq On : 12-12-21 19:26:51 Operator: KA  
 Sample : DMO Second Source 10/28/21 Inst : Apollo  
 Misc : Water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Dec 13 5:53 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Mon Dec 13 05:52:11 2021  
 Response via : Multiple Level Calibration

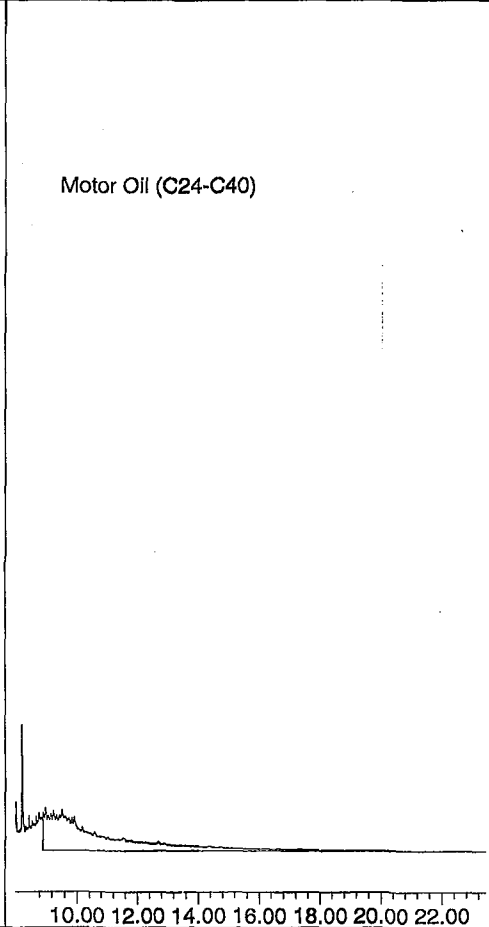
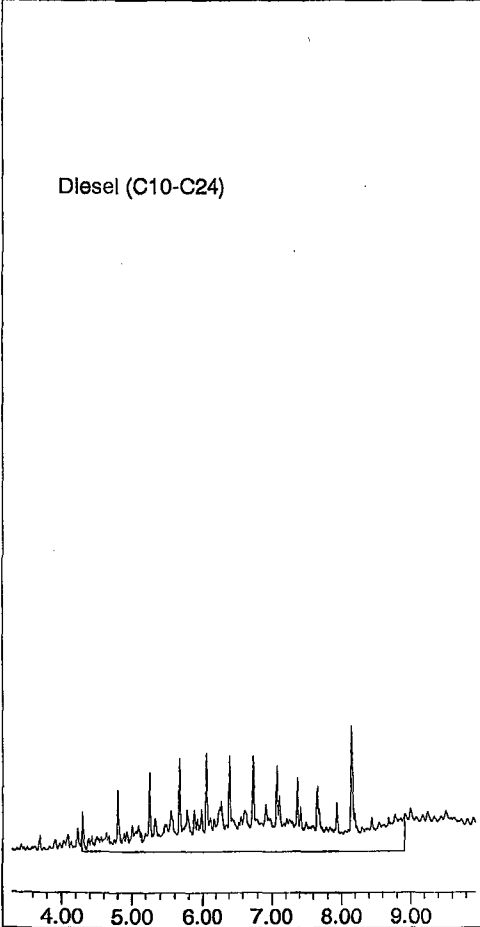
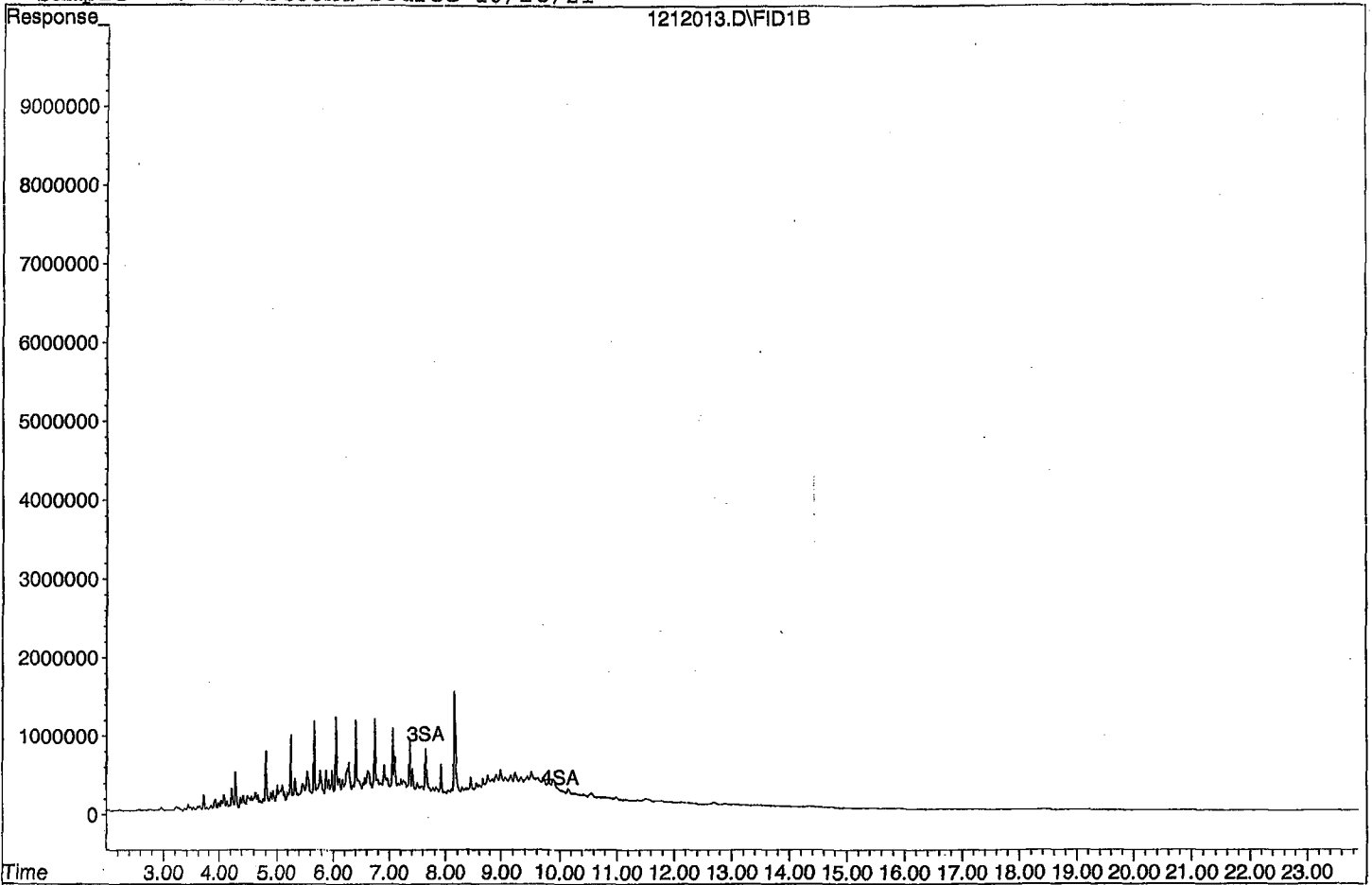
Volume Inj. : 2UL  
 Signal Phase : DB-5  
 Signal Info : FID02A

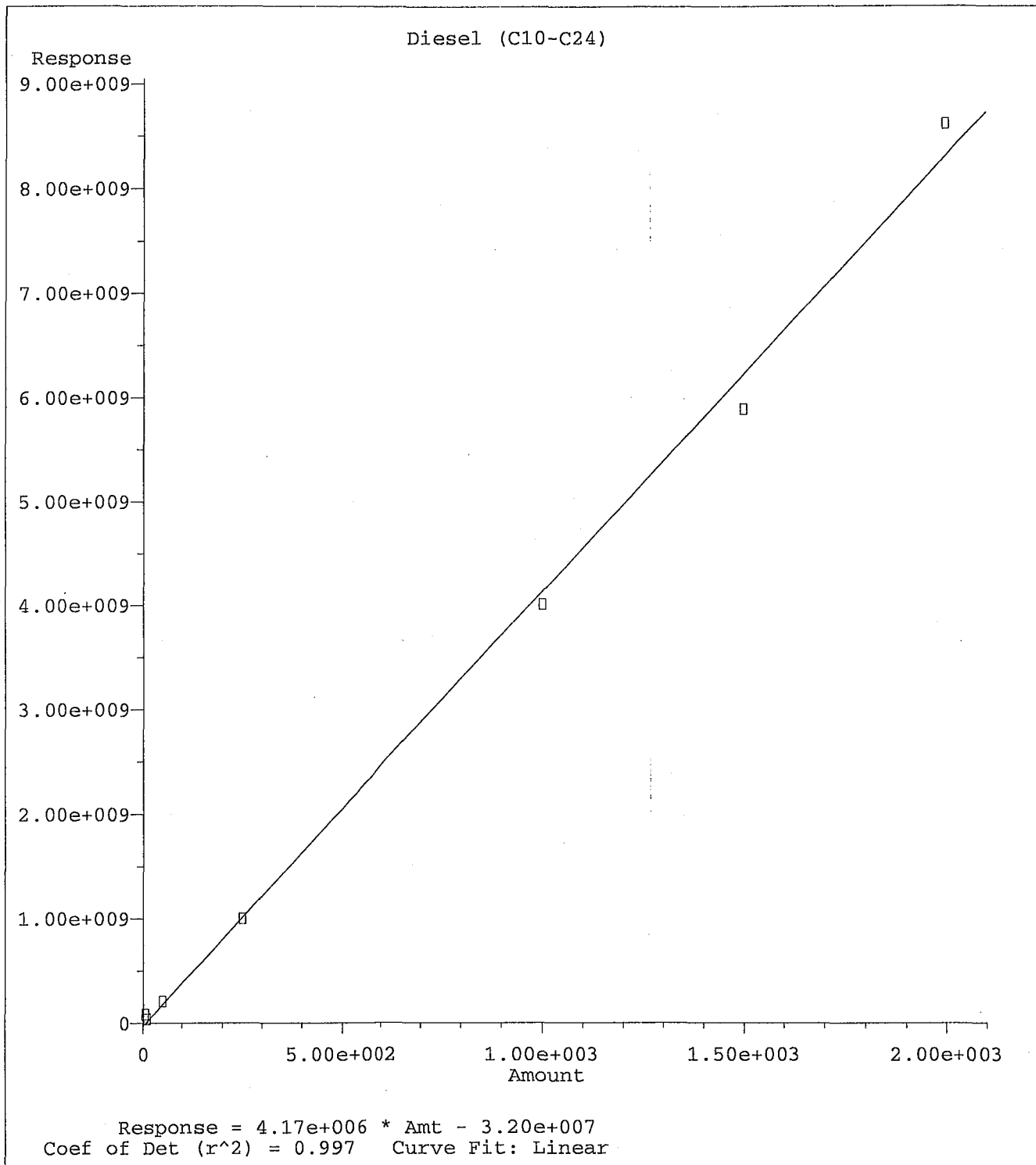
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.65	4209010	0.840 ppb
Surrogate Spike 30.000		Recovery =	2.80%
4) SA Octacosane(S)	10.02	207793	0.057 ppb
Surrogate Spike 30.000		Recovery =	0.19%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	913639690	226.836 ppb
2) HBTM Motor Oil (C24-C40)	15.67	643874690	252.551 ppb

Target Compounds

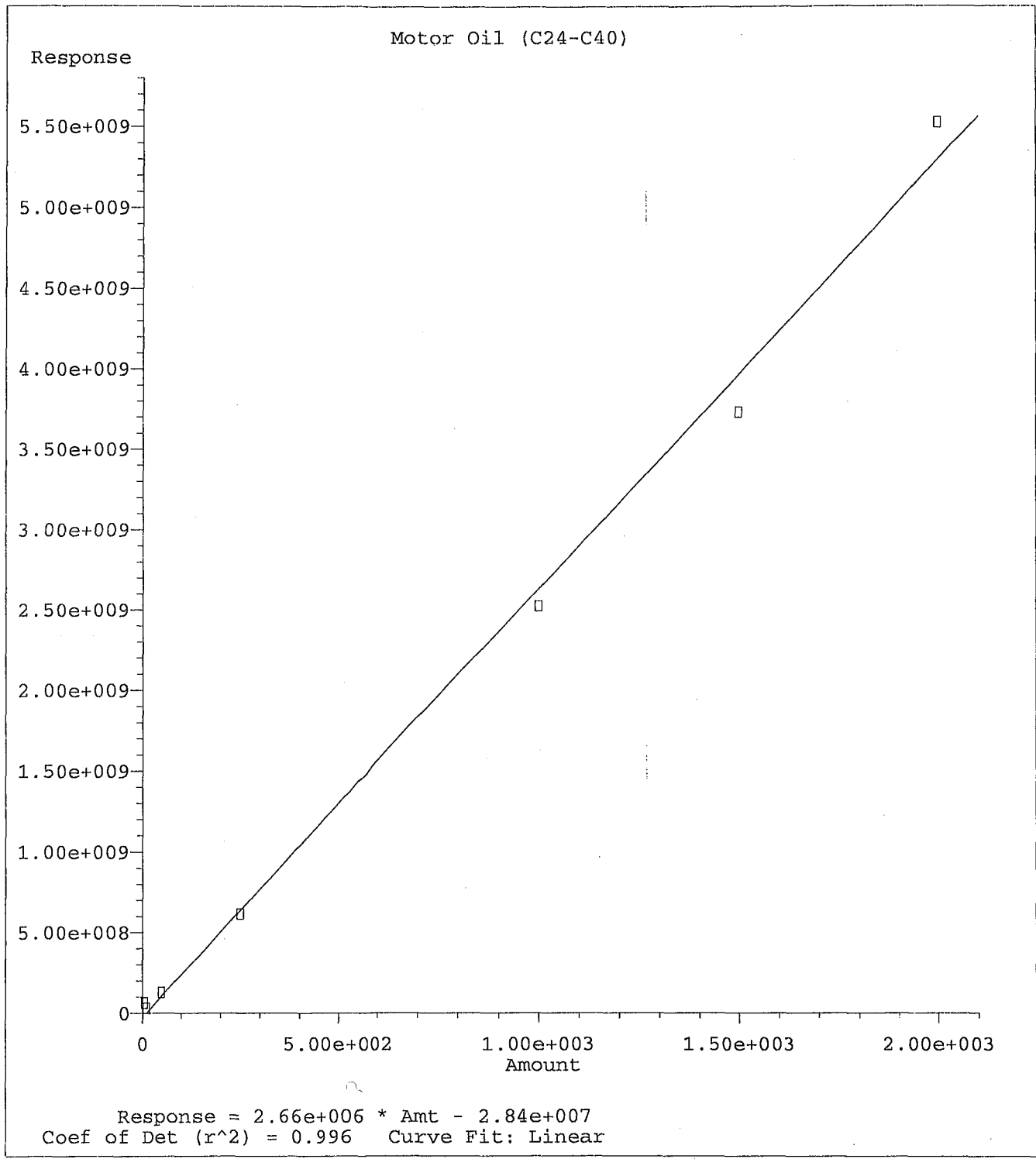
Quantitation Report

Data File: G:\APOLLO\DATA\211212\1212013.D  
Sample : DMO Second Source 10/28/21





Method Name: G:\APOLLO\DATA\211212\DOC1212.M  
 Calibration Table Last Updated: Mon Dec 13 05:52:11 2021



Method Name: G:\APOLLO\DATA\211212\DOC1212.M  
Calibration Table Last Updated: Mon Dec 13 05:52:11 2021

TPH Extractables  
DOC1212

Form 7

Continuing Calibration

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

SDG No:  
Date Analyzed: 12/15/2021  
Instrument: Apollo  
Initial Cal. Date: 12/12/2021  
Data File: 1215022.D

	Compound	MEAN	CCRF	%D	%Drift	
1	HATM Diesel (C10-C24)	2932900	2193700	25	HATML	6.0
2	HBTM Motor Oil (C24-C40)	2024600	1431050	29	HBTML	8.6
3	SA Ortho-Terphenyl(S)	2506260	2708040	8.1	SA	
4	SA Octacosane(S)	1810340	1999830	10	SA	
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40	Average			18.0		

Data File : G:\APOLLO\DATA\211215\1215022.D Vial: 22  
 Acq On : 12-15-21 19:24:43 Operator: KA  
 Sample : DMO STD DF2 12/09/21 Inst : Apollo  
 Misc : Water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Dec 16 8:25 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211229\DOC1212.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Thu Dec 16 12:24:49 2021  
 Response via : Multiple Level Calibration

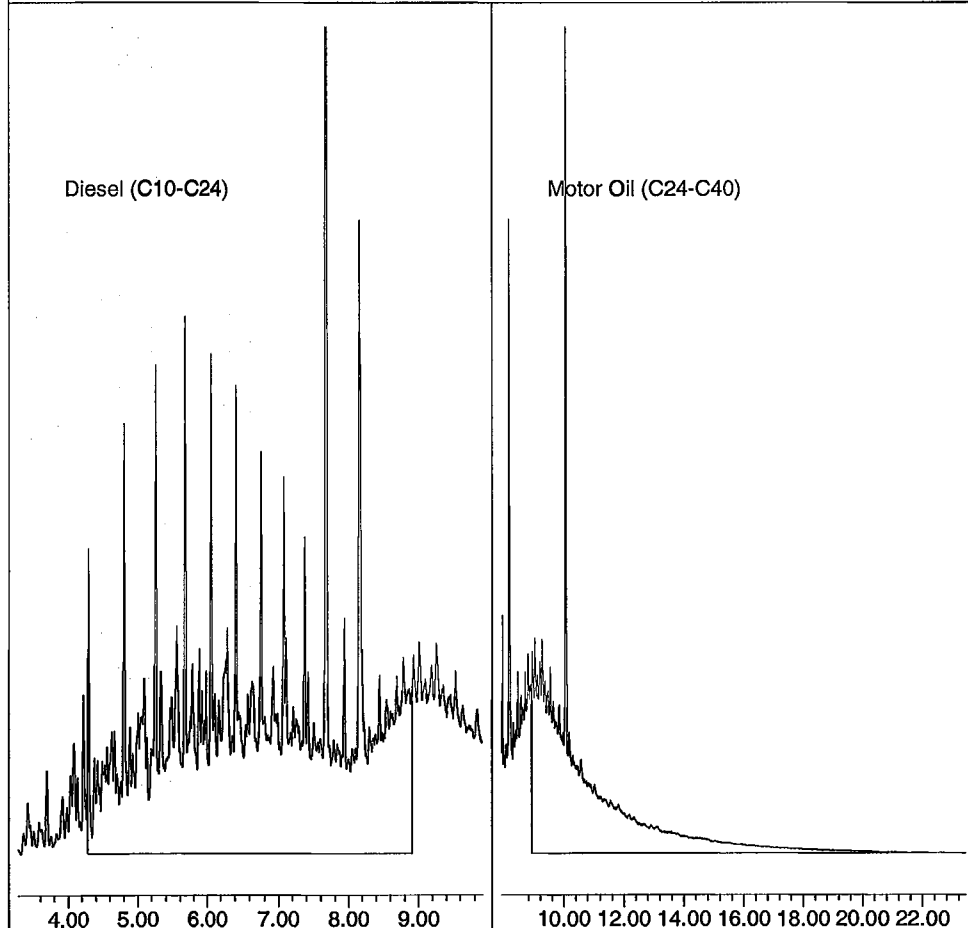
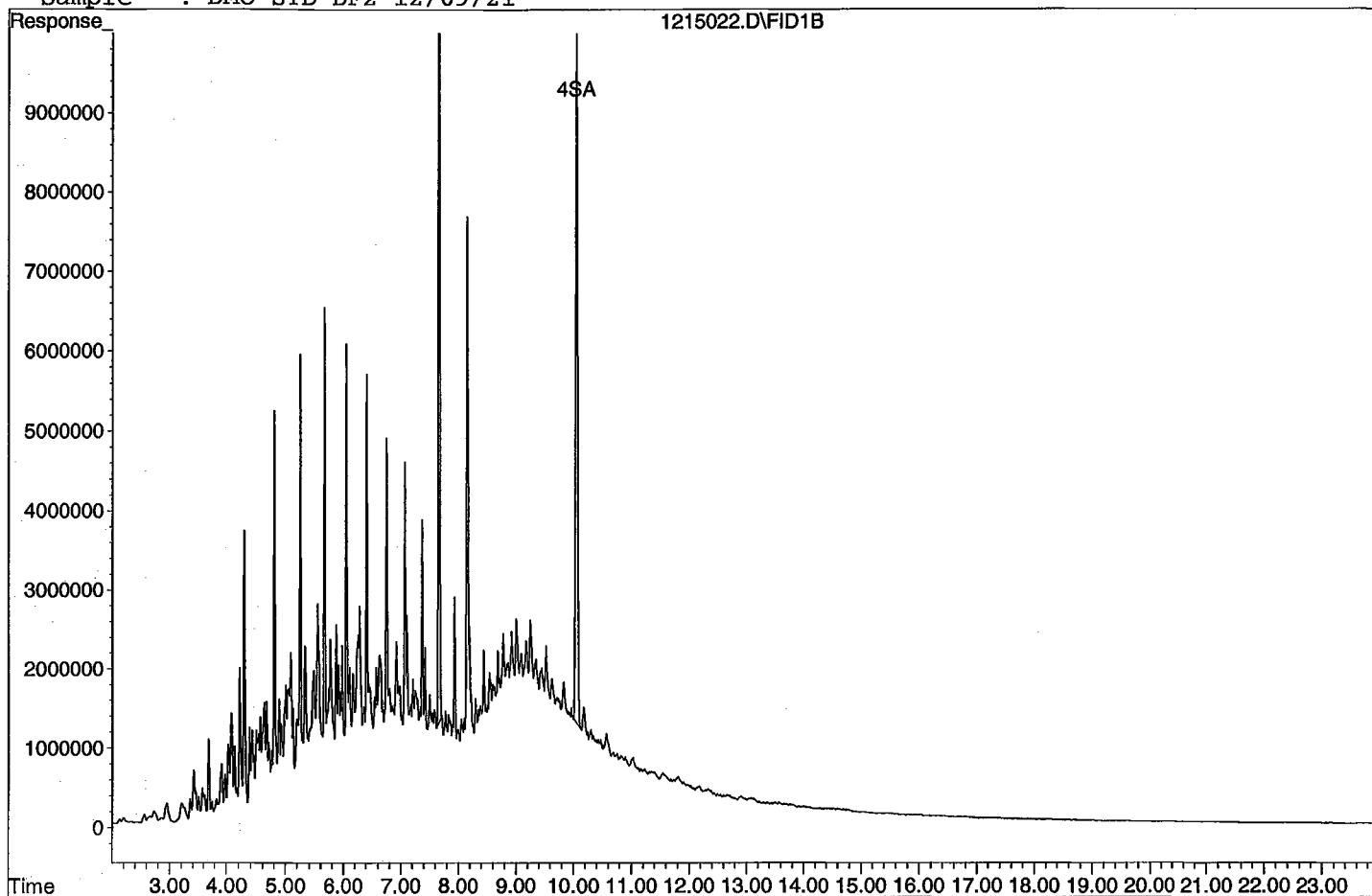
Volume Inj. : 2UL  
 Signal Phase : DB-5  
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	270804483	54.026 ppb
Surrogate Spike 30.000		Recovery =	180.09%
4) SA Octacosane(S)	10.06	199983211	55.234 ppb
Surrogate Spike 30.000		Recovery =	184.11%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	4387391400	1060.104 ppb
2) HBTM Motor Oil (C24-C40)	15.67	2862107228	1085.866 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211215\1215022.D  
Sample : DMO STD DF2 12/09/21





TPH Extractables  
DOC1212

Form 7

Continuing Calibration

Lab Name: APPL, Inc.  
Case No: \_\_\_\_\_  
Matrix: Water

SDG No: \_\_\_\_\_  
Date Analyzed: 12/16/2021  
Instrument: Apollo  
Initial Cal. Date: 12/12/2021  
Data File: 1215036.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C24)	2932900	2304410	21	HATML	11
2	HBTM	Motor Oil (C24-C40)	2024600	1514900	25	HBTML	15
3	SA	Ortho-Terphenyl(S)	2506260	2787660	11	SA	
4	SA	Octacosane(S)	1810340	2136780	18	SA	
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Average

18.8

Data File : G:\APOLLO\DATA\211215\1215036.D Vial: 36  
 Acq On : 12-16-21 1:58:02 Operator: KA  
 Sample : DMO STD DF2 12/09/21 Inst : Apollo  
 Misc : Water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Dec 16 8:26 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211229\DOC1212.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Thu Dec 16 12:24:49 2021  
 Response via : Multiple Level Calibration

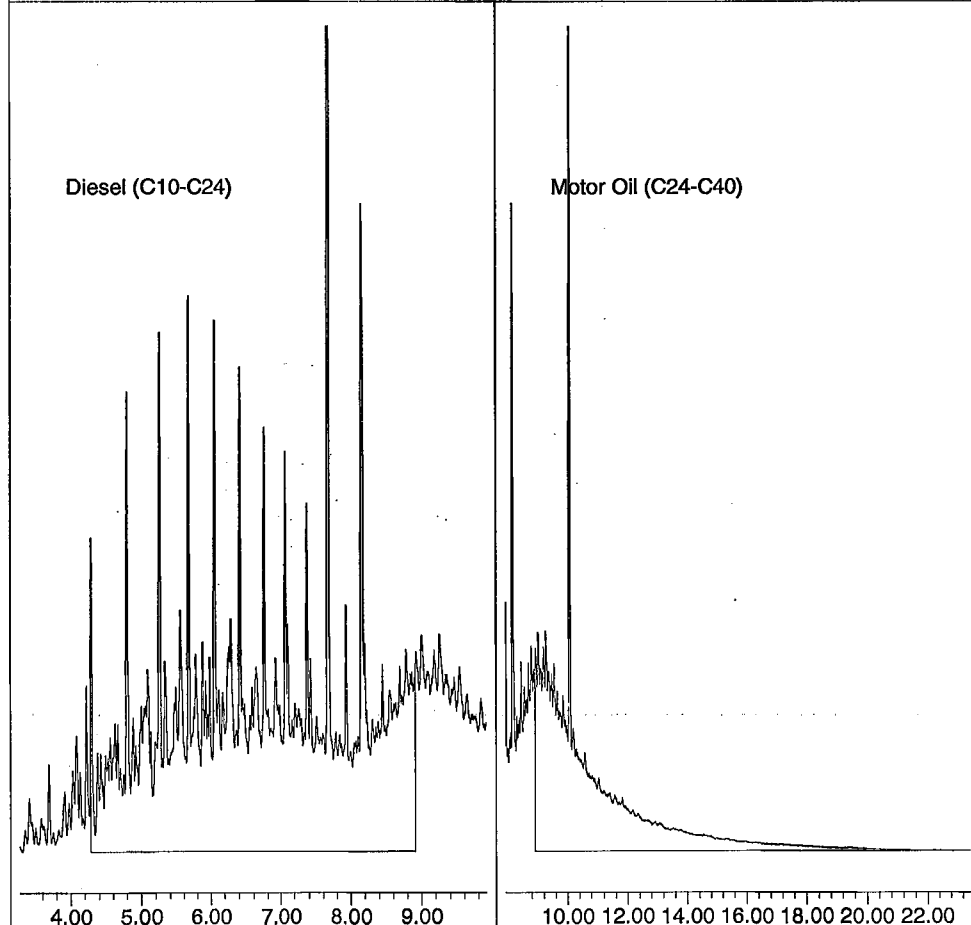
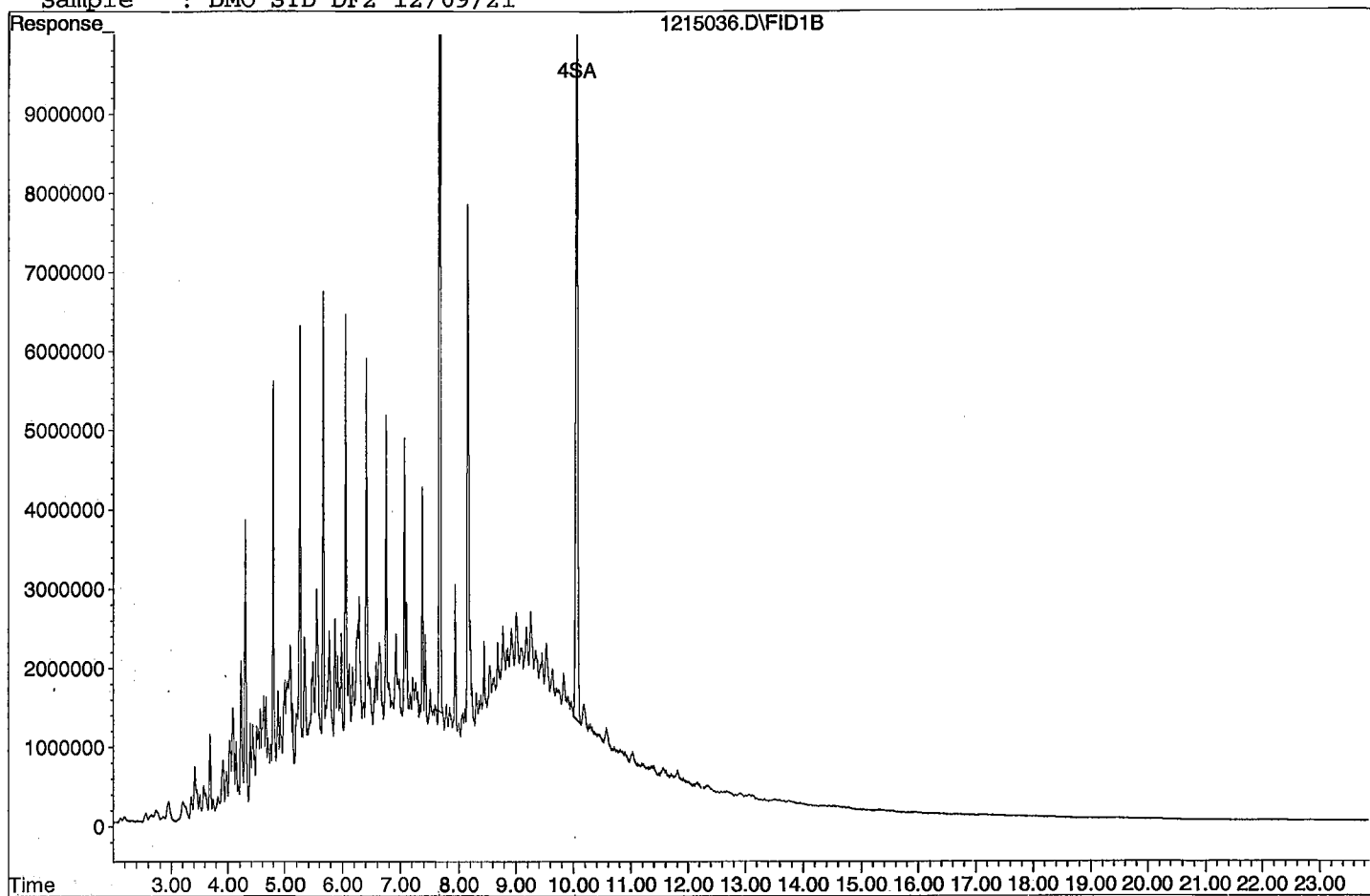
Volume Inj. : 2UL  
 Signal Phase : DB-5  
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	278766342	55.614 ppb
Surrogate Spike 30.000		Recovery =	185.38%
4) SA Octacosane(S)	10.06	213678358	59.016 ppb
Surrogate Spike 30.000		Recovery =	196.72%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	4608819906	1113.220 ppb
2) HBTM Motor Oil (C24-C40)	15.67	3029793316	1148.860 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211215\1215036.D  
Sample : DMO STD DF2 12/09/21



TPH Extractables  
DOC1212

Form 7  
Continuing Calibration

Lab Name: APPL, Inc.  
Case No: \_\_\_\_\_  
Matrix: Water

SDG No: \_\_\_\_\_  
Date Analyzed: 12/16/2021  
Instrument: Apollo  
Initial Cal. Date: 12/12/2021  
Data File: 1215053.D

	Compound	MEAN	CCRF	%D	%Drift	
1	HATM Diesel (C10-C24)	2932900	1896190	35	HATML	8.3
2	HBTM Motor Oil (C24-C40)	2024600	1256240	38	HBTML	4.5
3	SA Ortho-Terphenyl(S)	2506260	2347050	6.4	SA	
4	SA Octacosane(S)	1810340	1766440	2.4	SA	
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40	Average			20.5		

Data File : G:\APOLLO\DATA\211215\1215053.D Vial: 53  
 Acq On : 12-16-21 9:55:44 Operator: KA  
 Sample : DMO STD DF2 12/09/21 Inst : Apollo  
 Misc : Water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Dec 16 12:59 2021 Quant Results File: DOC1212.RES

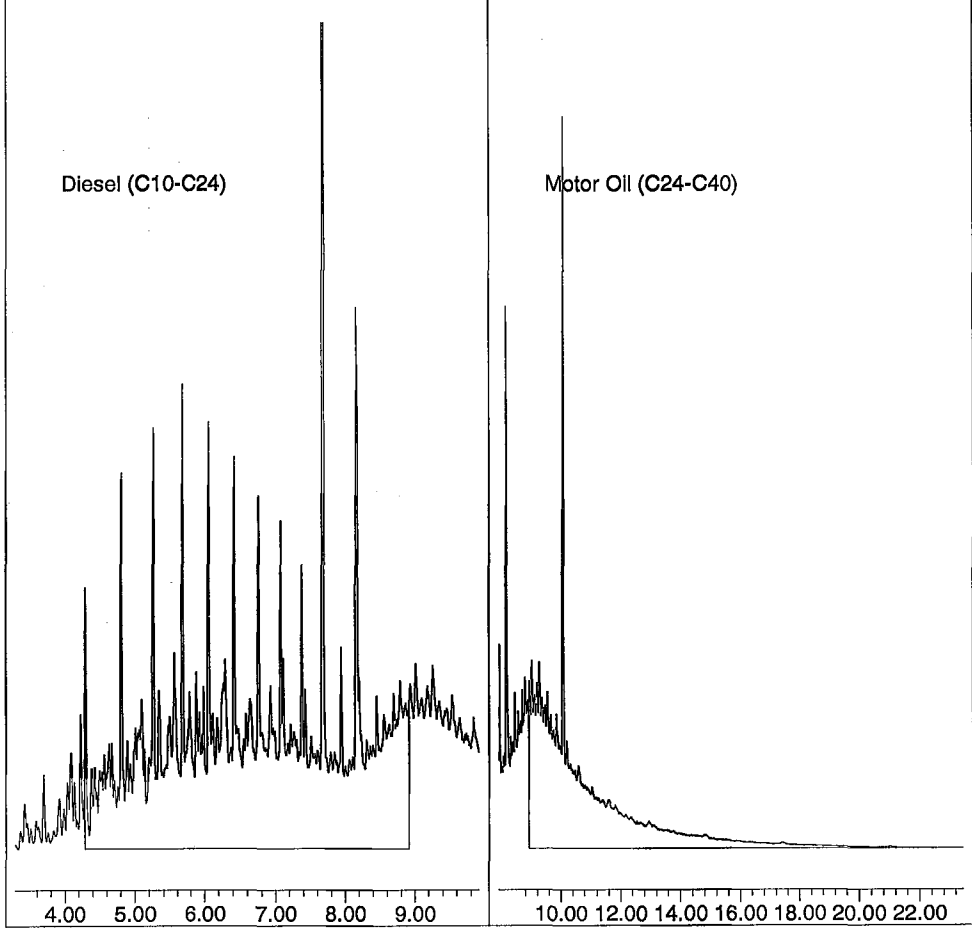
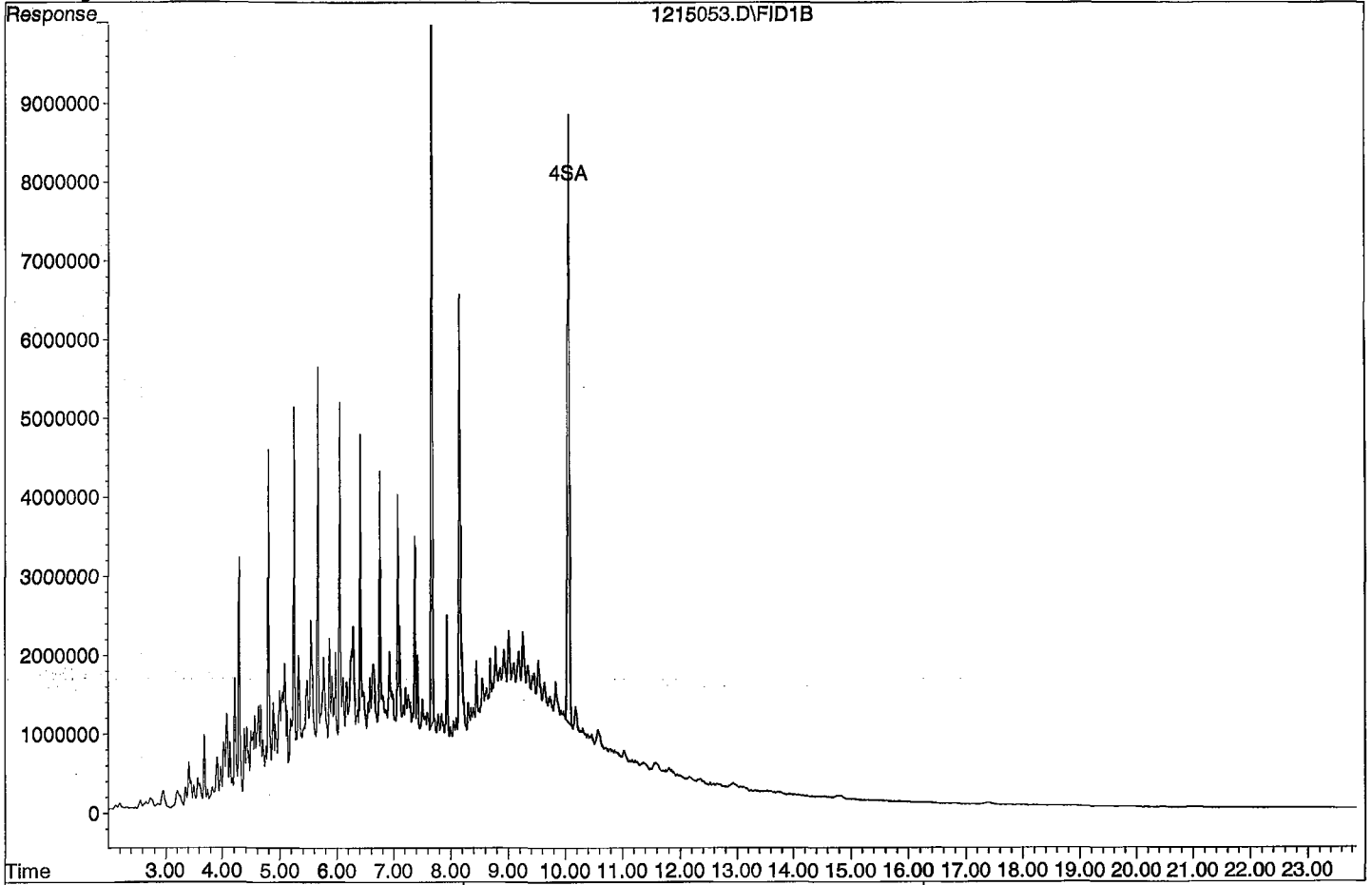
Method : G:\APOLLO\DATA\211229\DOC1212.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Thu Dec 16 12:24:49 2021  
 Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl (S)	7.67	234704955	46.824 ppb
Surrogate Spike 30.000		Recovery =	156.08%
4) SA Octacosane (S)	10.06	176643989	48.788 ppb
Surrogate Spike 30.000		Recovery =	162.63%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	3792389635	917.378 ppb
2) HBTM Motor Oil (C24-C40)	15.67	2512486522	954.525 ppb
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\211215\1215053.D  
Sample : DMO STD DF2 12/09/21



**ORGANICS**  
**Raw Data**

Data File : G:\APOLLO\DATA\211215\1215033.D Vial: 33  
 Acq On : 12-16-21 0:33:47 Operator: KA  
 Sample : BA46979W09 5/1030 Inst : Apollo  
 Misc : Water Multiplr: 4.85  
 IntFile : events.e  
 Quant Time: Dec 16 12:56 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211229\DOC1212.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Thu Dec 16 12:24:49 2021  
 Response via : Multiple Level Calibration

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

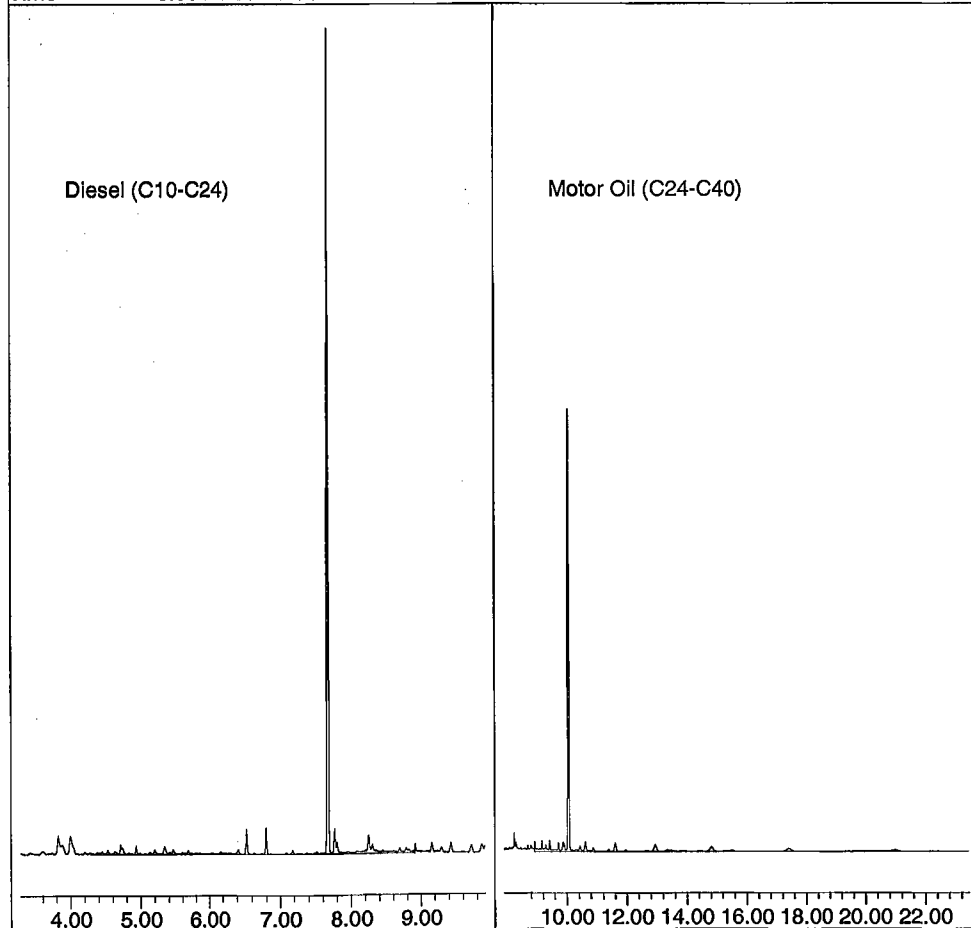
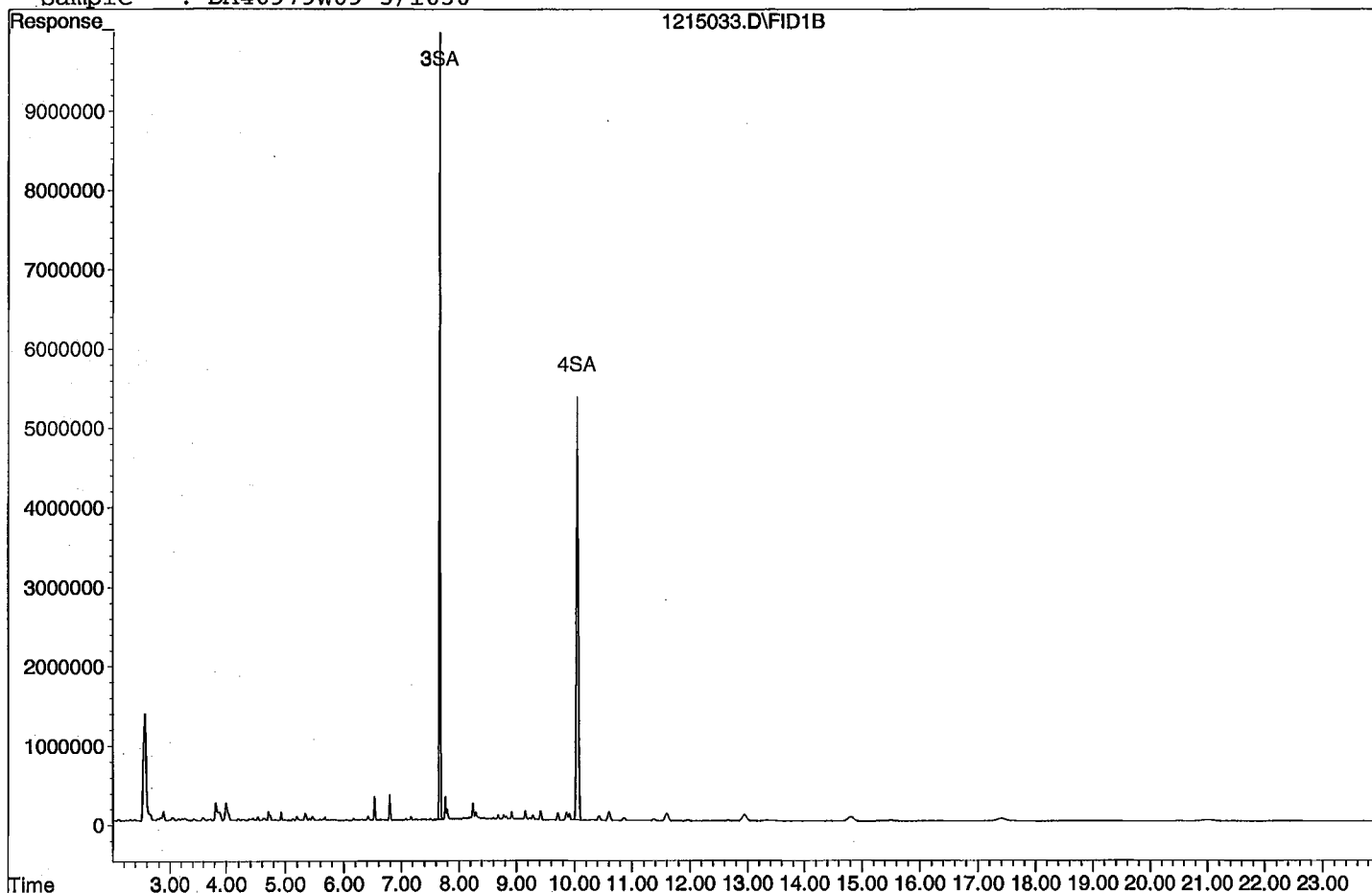
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	130614845	126.494 ppb
Surrogate Spike 145.631		Recovery =	86.86%
4) SA Octacosane(S)	10.05	122033531	163.615 ppb
Surrogate Spike 145.631		Recovery =	112.35%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	64570558	112.454 ppb
2) HBTM Motor Oil (C24-C40)	15.67	82155345	201.615 ppb

Target Compounds



Quantitation Report

Data File: G:\APOLLO\DATA\211215\1215033.D  
Sample : BA46979W09 5/1030



Data File : G:\APOLLO\DATA\211215\1215034.D Vial: 34  
 Acq On : 12-16-21 1:01:51 Operator: KA  
 Sample : BA46981W09 5/1040 Inst : Apollo  
 Misc : Water Multiplr: 4.81  
 IntFile : events.e  
 Quant Time: Dec 16 12:57 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211229\DOC1212.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Thu Dec 16 12:24:49 2021  
 Response via : Multiple Level Calibration

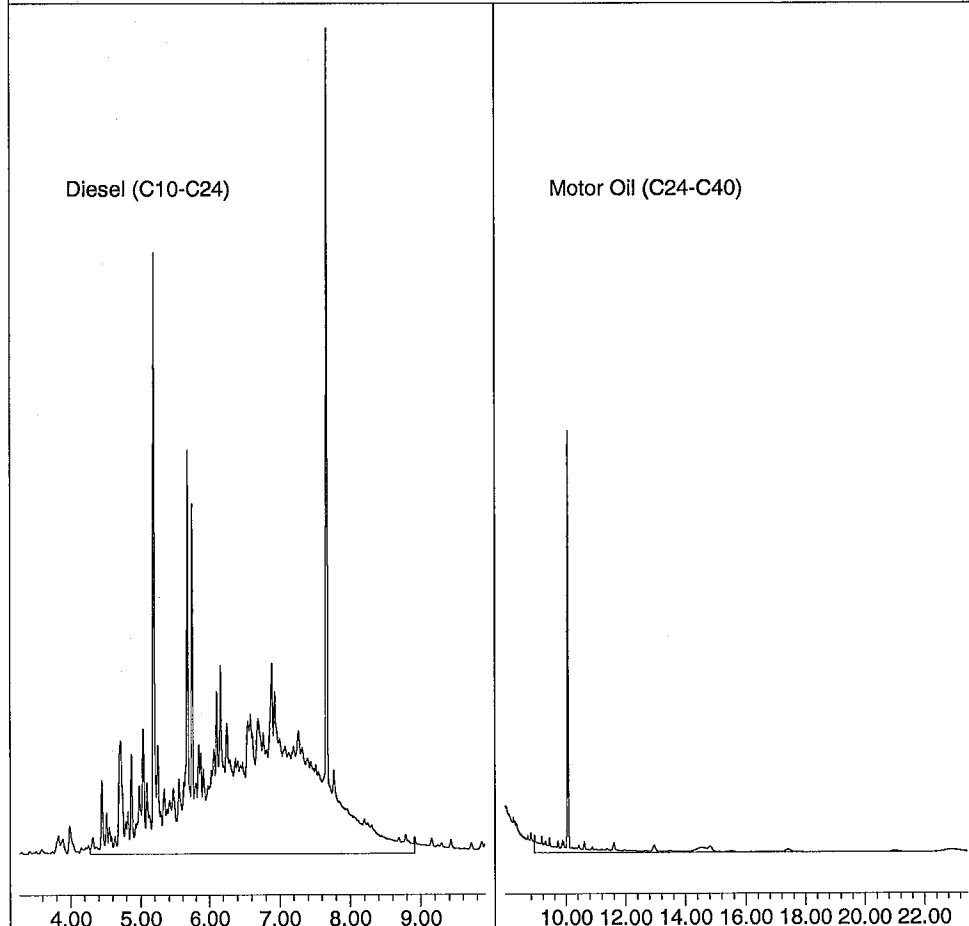
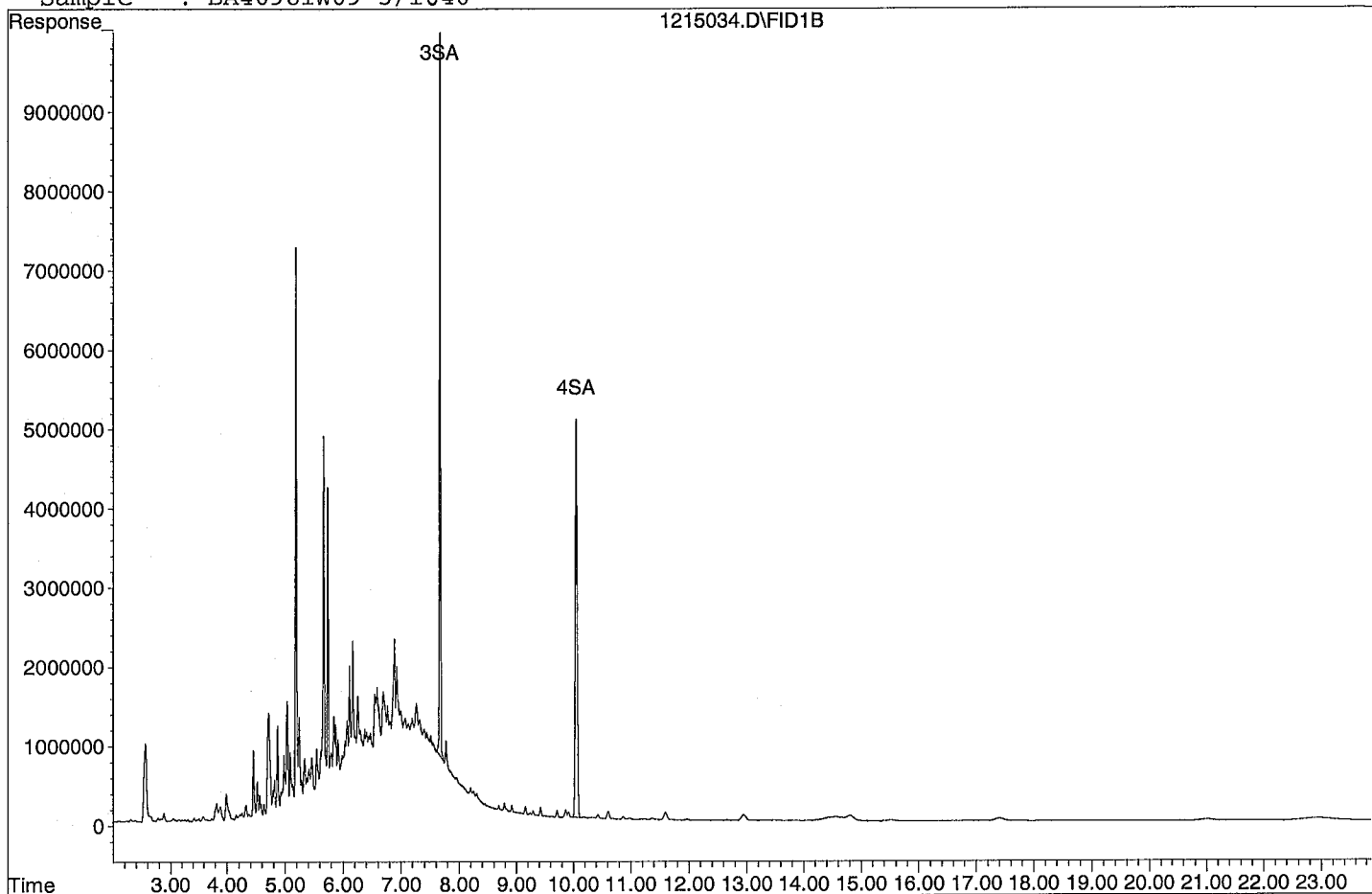
Volume Inj. : 2UL  
 Signal Phase : DB-5  
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	120439390	115.518 ppb
Surrogate Spike 144.231		Recovery =	80.09%
4) SA Octacosane(S)	10.05	113939999	151.294 ppb
Surrogate Spike 144.231		Recovery =	104.90%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	2246070333	2627.181 ppb
2) HBTM Motor Oil (C24-C40)	15.67	190395511	395.167 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211215\1215034.D  
Sample : BA46981W09 5/1040



Data File : G:\APOLLO\DATA\211215\1215035.D Vial: 35  
 Acq On : 12-16-21 1:29:57 Operator: KA  
 Sample : BA46983W09 5/1030 Inst : Apollo  
 Misc : Water Multiplr: 4.85  
 IntFile : events.e  
 Quant Time: Dec 16 12:57 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211229\DOC1212.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Thu Dec 16 12:24:49 2021  
 Response via : Multiple Level Calibration

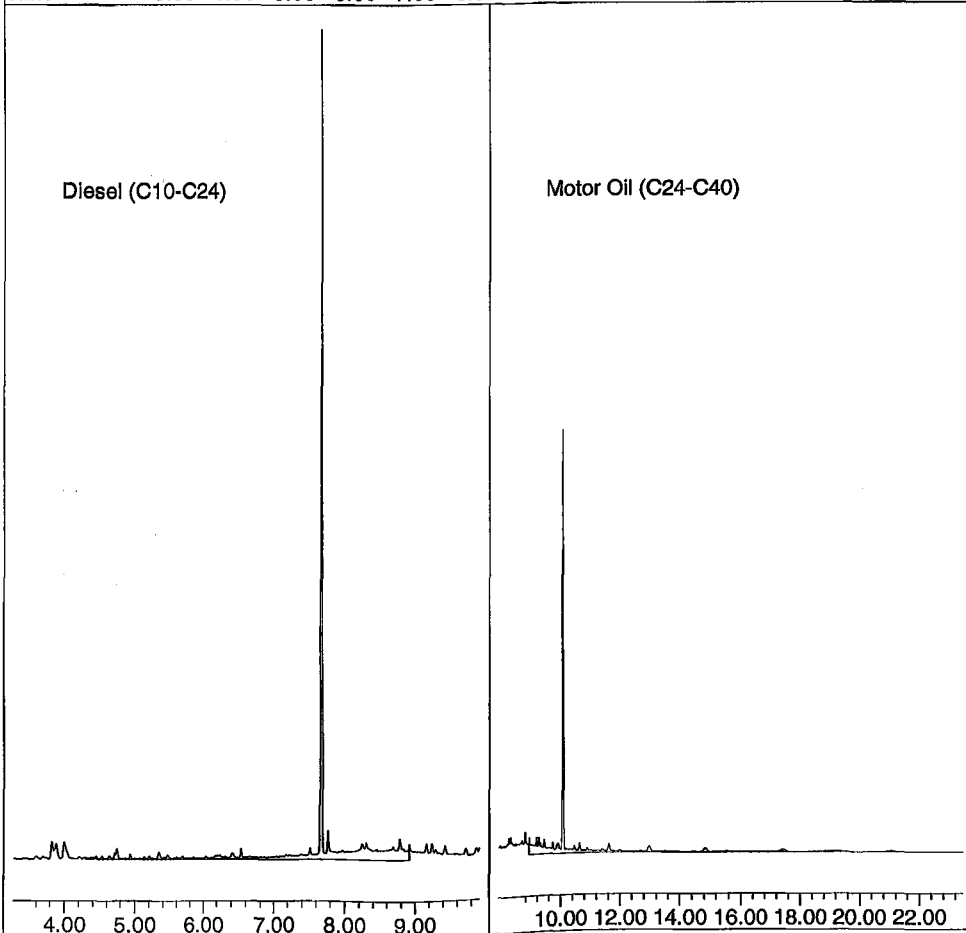
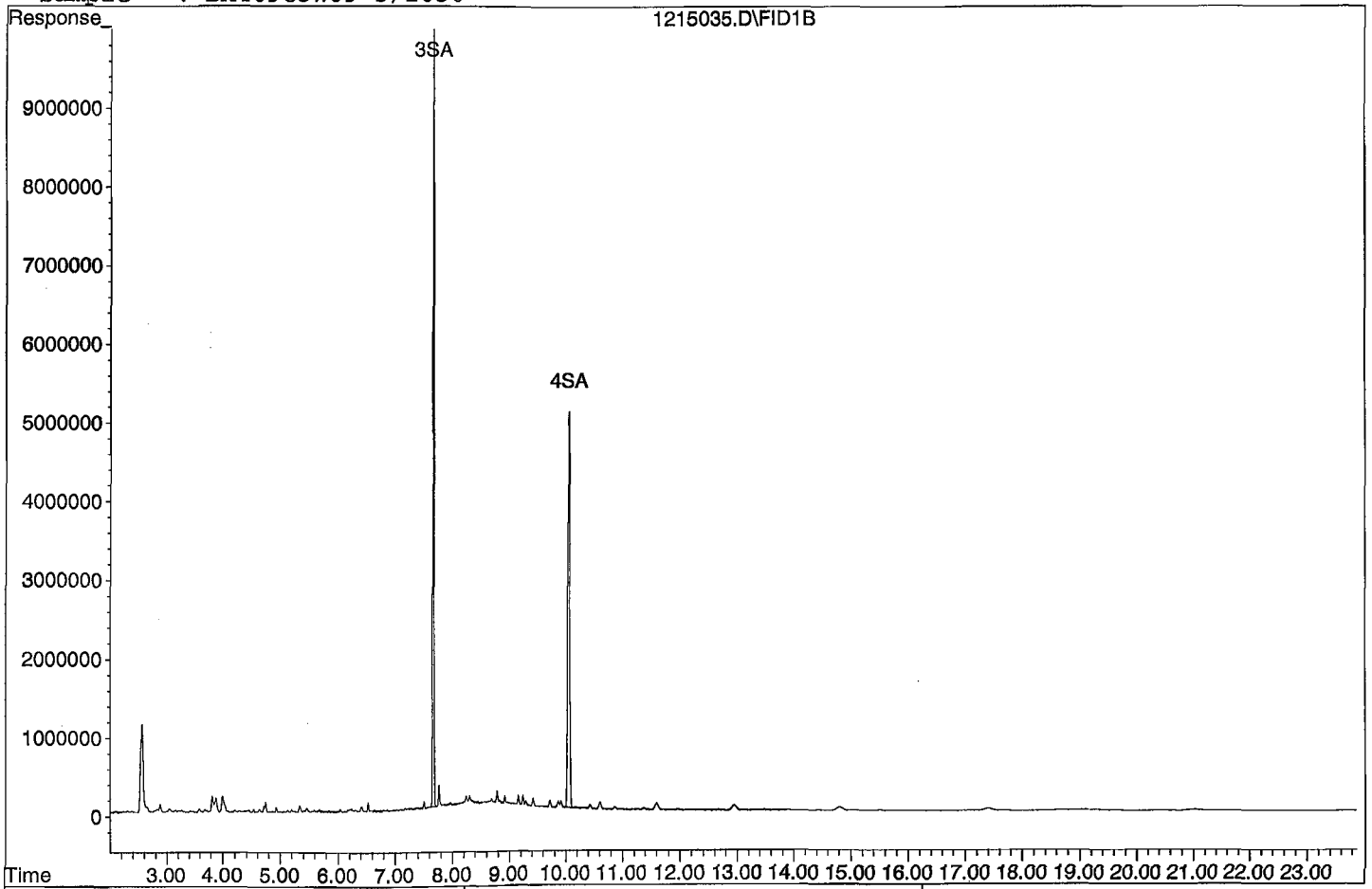
Volume Inj. : 2UL  
 Signal Phase : DB-5  
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	124767885	120.831 ppb
Surrogate Spike 145.631		Recovery =	82.97%
4) SA Octacosane(S)	10.05	118990430	159.535 ppb
Surrogate Spike 145.631		Recovery =	109.55%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	150844895	212.916 ppb
2) HBTM Motor Oil (C24-C40)	15.67	153545232	331.803 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211215\1215035.D  
Sample : BA46983W09 5/1030



Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\211215\1215037.D Vial: 37  
 Acq On : 12-16-21 2:26:10 Operator: KA  
 Sample : BA46985W09 5/1030 Inst : Apollo  
 Misc : Water Multiplr: 4.85  
 IntFile : events.e  
 Quant Time: Dec 16 12:58 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211229\DOC1212.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Thu Dec 16 12:24:49 2021  
 Response via : Multiple Level Calibration

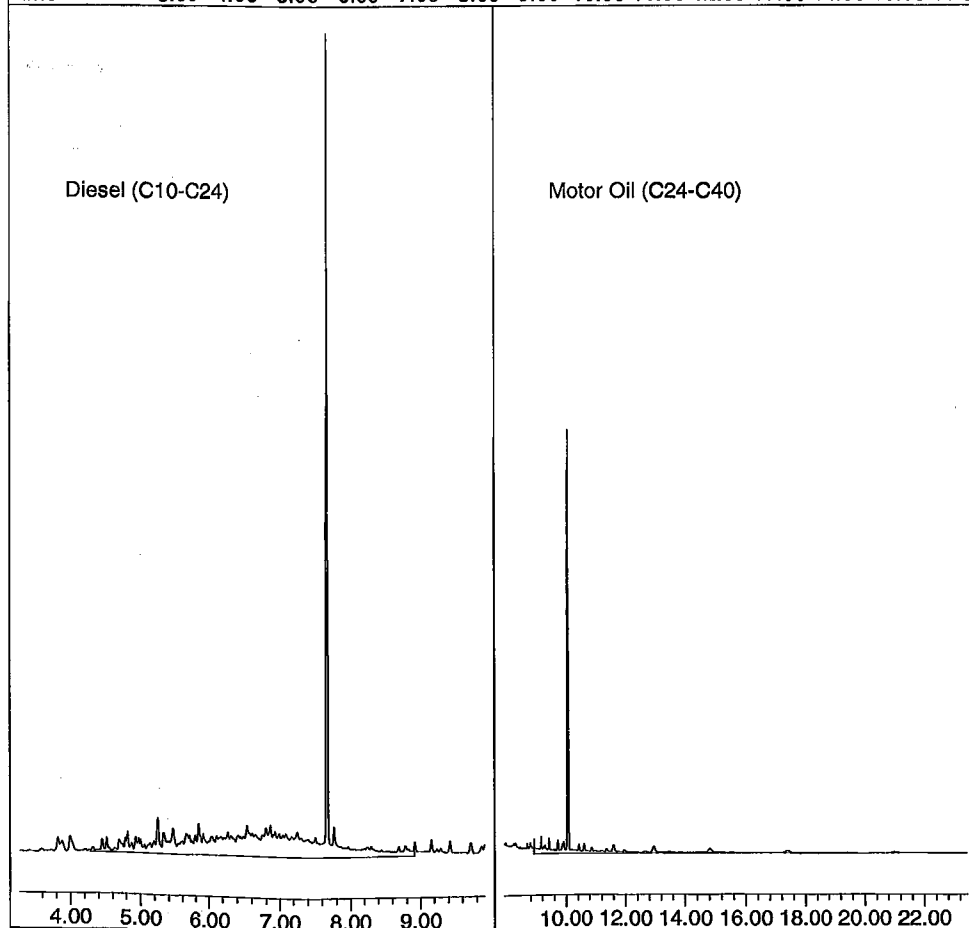
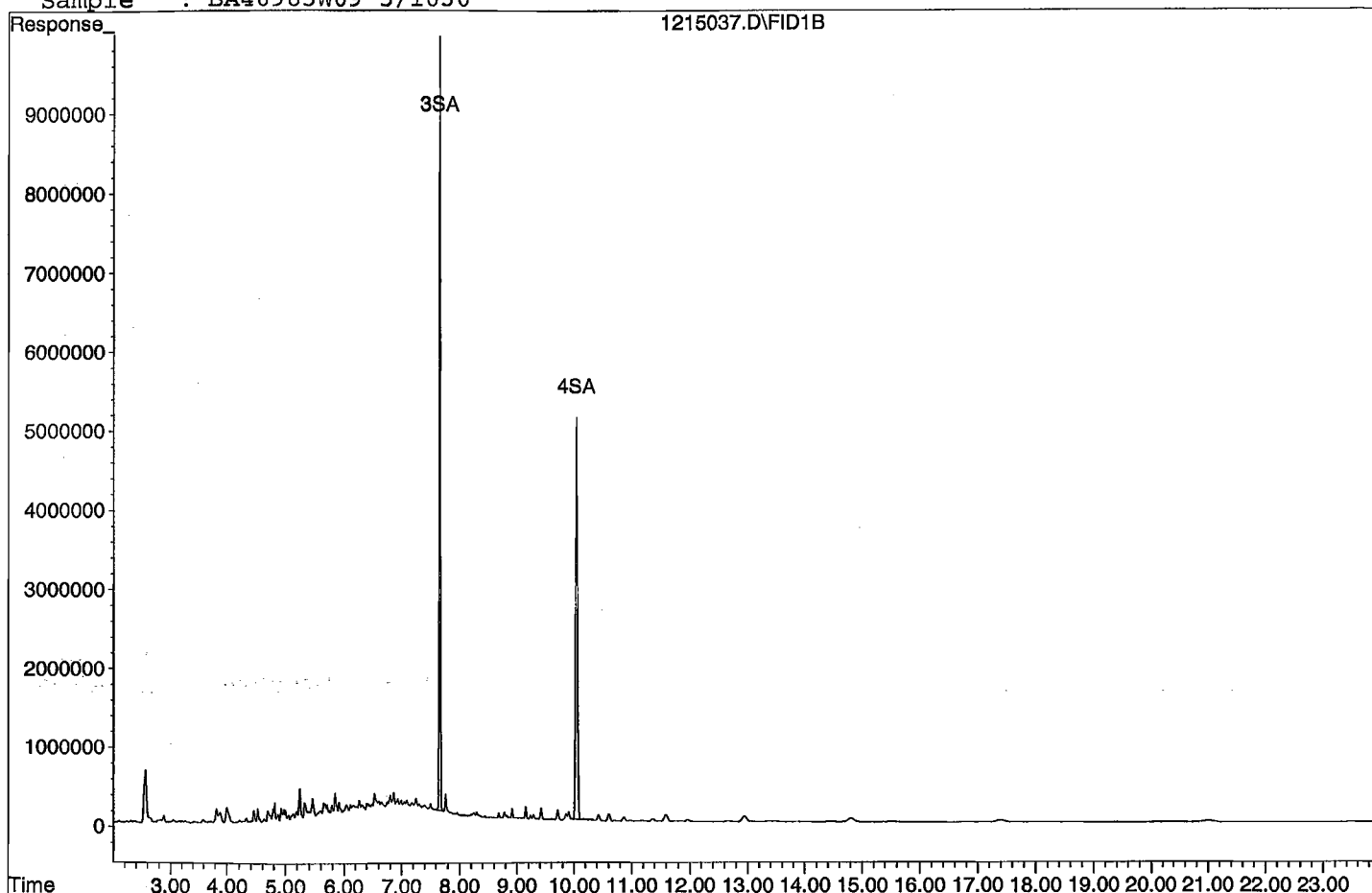
Volume Inj. : 2UL  
 Signal Phase : DB-5  
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	120922314	117.107 ppb
Surrogate Spike 145.631		Recovery =	80.41%
4) SA Octacosane(S)	10.05	112758031	151.179 ppb
Surrogate Spike 145.631		Recovery =	103.81%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	443585257	553.796 ppb
2) HBTM Motor Oil (C24-C40)	15.67	146100830	318.227 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211215\1215037.D  
Sample : BA46985W09 5/1030



Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\211215\1215027.D Vial: 27  
 Acq On : 12-15-21 21:45:15 Operator: KA  
 Sample : 211201A.BLK 5/1000 Inst : Apollo  
 Misc : Water Multiplr: 5.00  
 IntFile : events.e  
 Quant Time: Dec 16 12:51 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211229\DOC1212.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Thu Dec 16 12:24:49 2021  
 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)	7.67	127001860	126.684 ppb
Surrogate Spike 150.000		Recovery =	84.46%
4) SA Octacosane(S)	10.05	114820831	158.563 ppb
Surrogate Spike 150.000		Recovery =	105.71%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	52862494	101.785 ppb
2) HBTM Motor Oil (C24-C40)	15.67	61239257	168.376 ppb

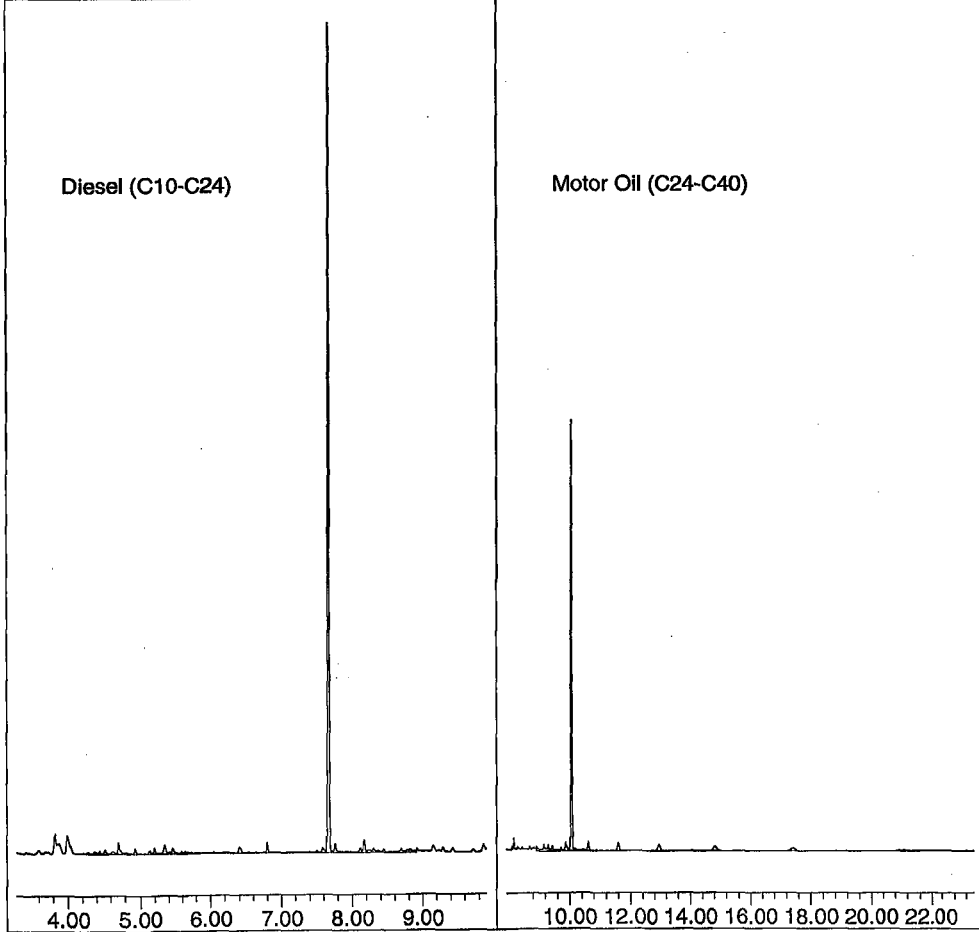
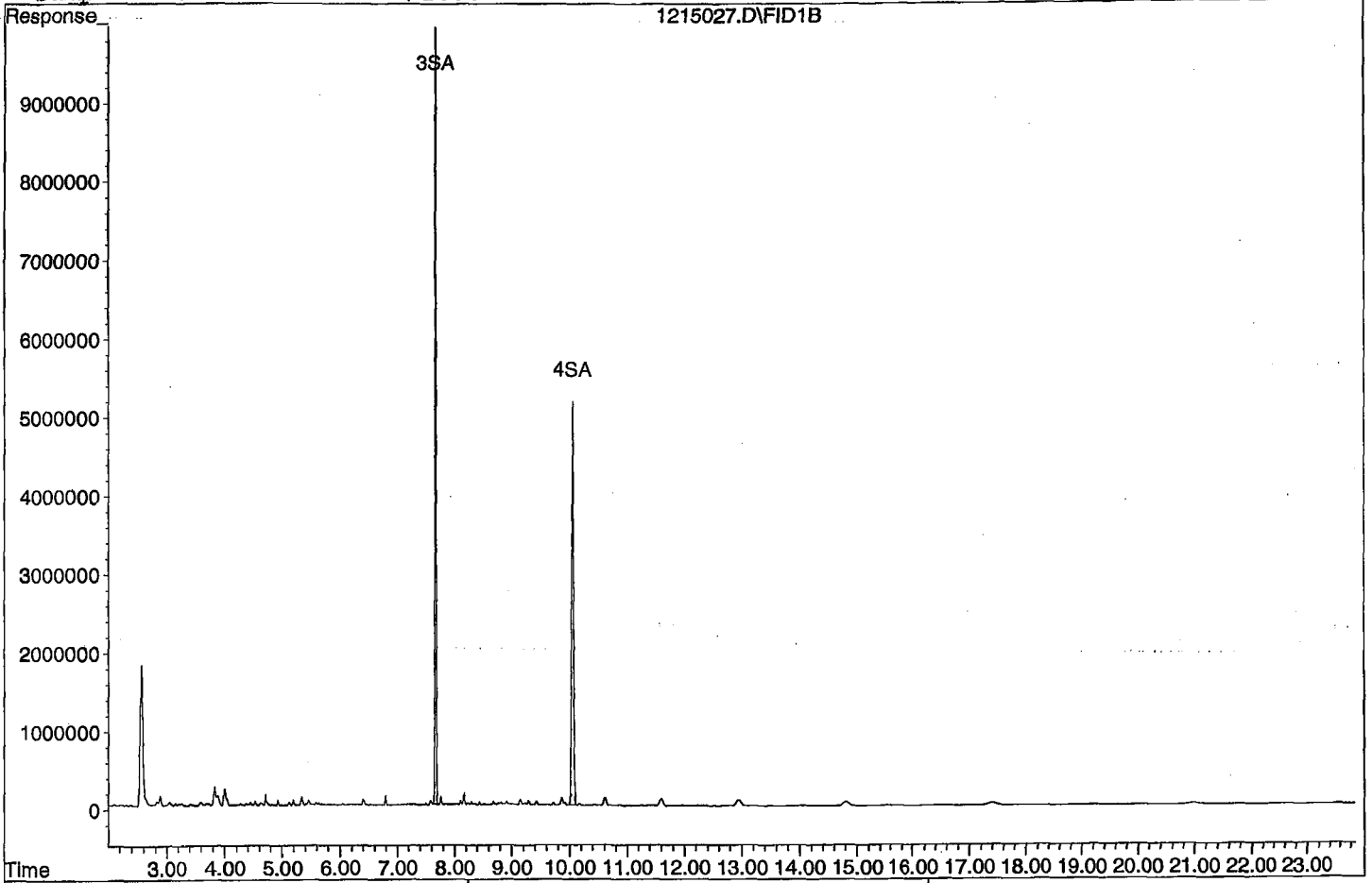
Target Compounds



Quantitation Report

Data File: G:\APOLLO\DATA\211215\1215027.D

Sample : 211201A BLK 5/1000



Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\211215\1215028.D Vial: 28  
 Acq On : 12-15-21 22:13:21 Operator: KA  
 Sample : 211201A LCS-1 5/1000 Inst : Apollo  
 Misc : Water Multiplr: 5.00  
 IntFile : events.e  
 Quant Time: Dec 16 12:53 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211215\DOC1212.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Thu Dec 16 12:24:49 2021  
 Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
<b>System Monitoring Compounds</b>			
3) SA Ortho-Terphenyl(S)	7.67	152679929	152.298 ppb
Surrogate Spike 150.000		Recovery =	101.53%
4) SA Octacosane(S)	10.06	120721221	166.711 ppb
Surrogate Spike 150.000		Recovery =	111.14%
<b>Target Compounds</b>			
1) HATM Diesel (C10-C24)	6.60	1972646633	2404.331 ppb
2) HBTM Motor Oil (C24-C40)	15.67	1554420376	2973.062 ppb

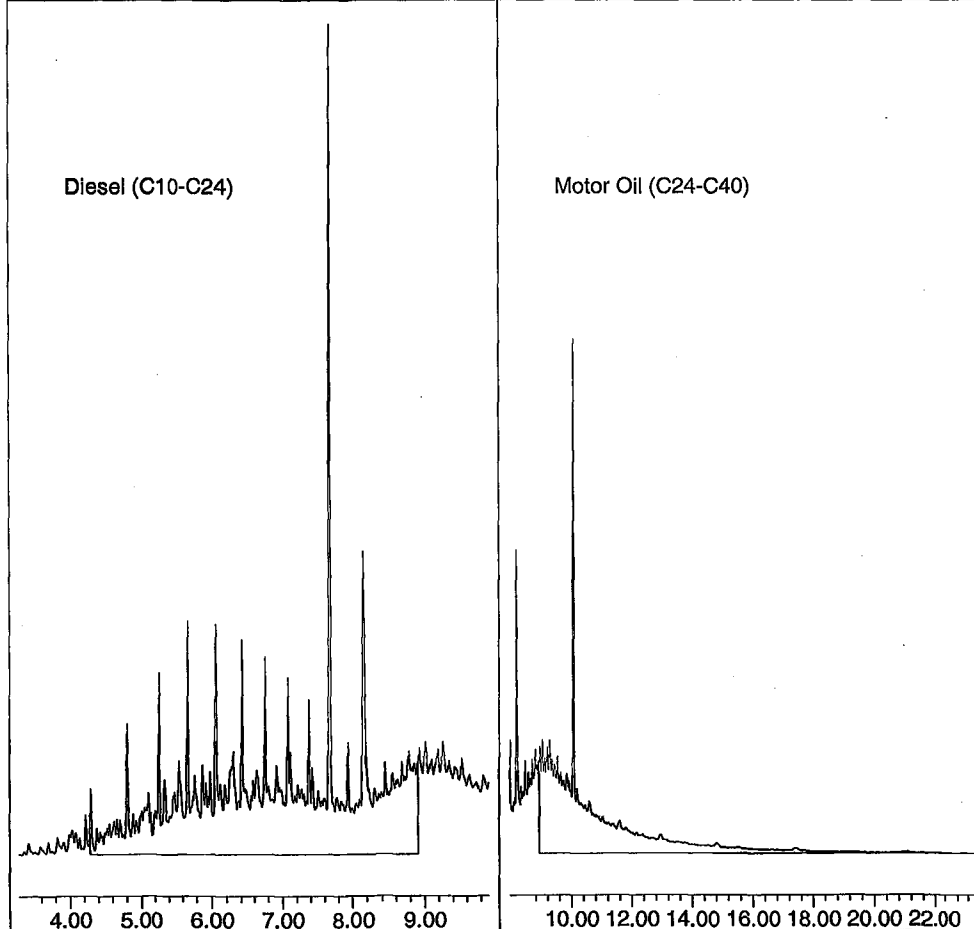
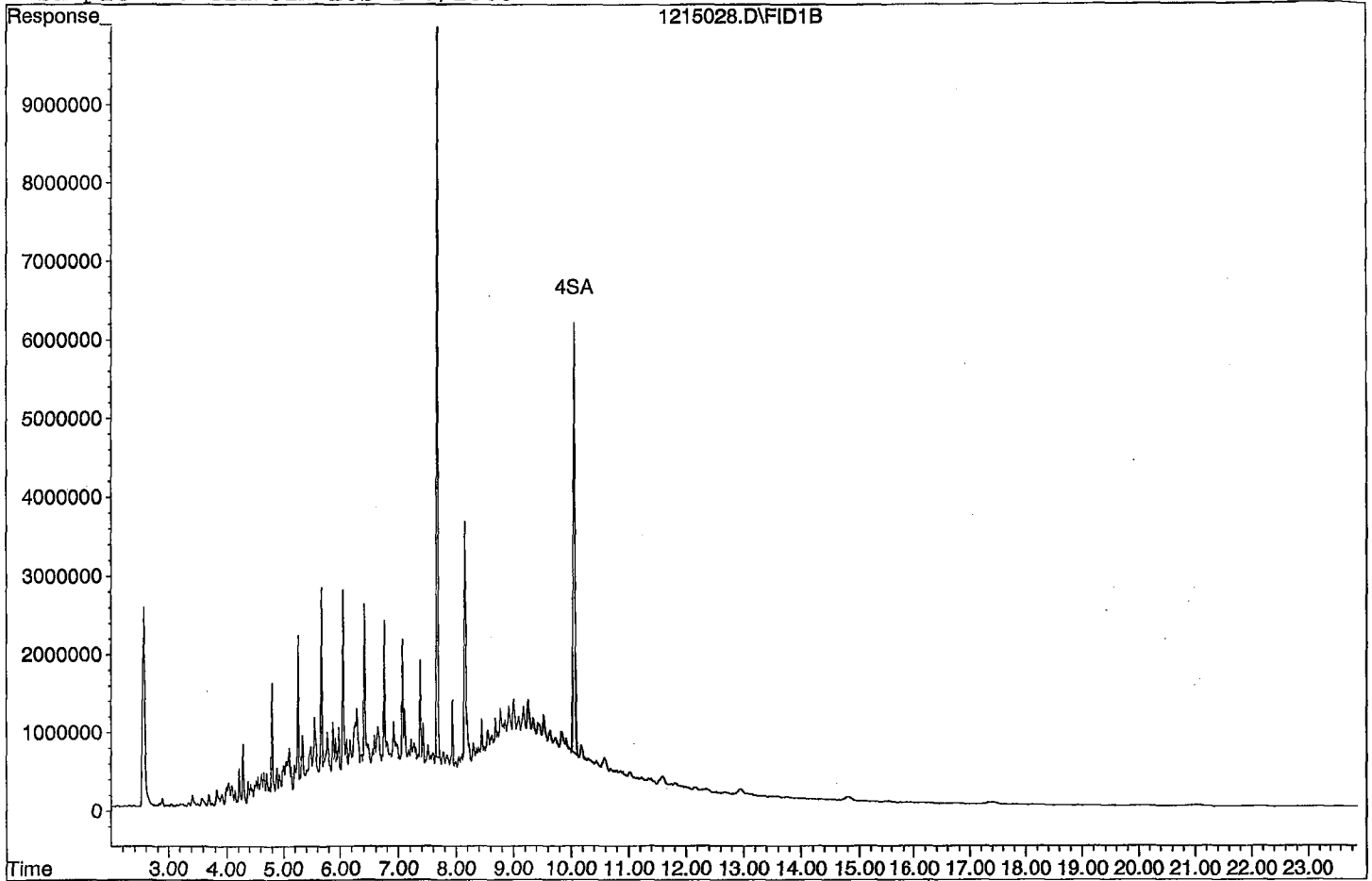
Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.  
 1215028.D DOC1212.M Thu Dec 30 15:24:53 2021

Quantitation Report

Data File: G:\APOLLO\DATA\211215\1215028.D

Sample : 211201A LCS-1 5/1000



Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\211215\1215029.D Vial: 29  
 Acq On : 12-15-21 22:41:27 Operator: KA  
 Sample : 211201A LCSD-1 5/1000 Inst : Apollo  
 Misc : Water Multiplr: 5.00  
 IntFile : events.e  
 Quant Time: Dec 16 12:54 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211229\DOC1212.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Thu Dec 16 12:24:49 2021  
 Response via : Multiple Level Calibration

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

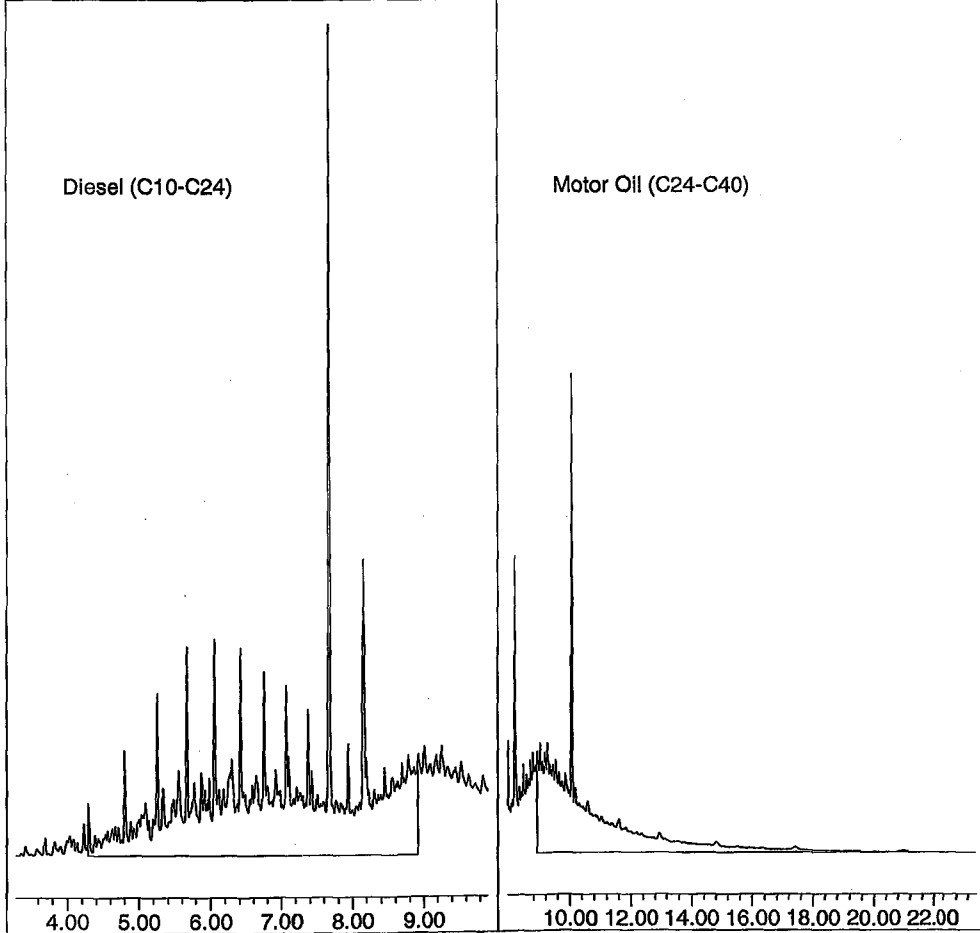
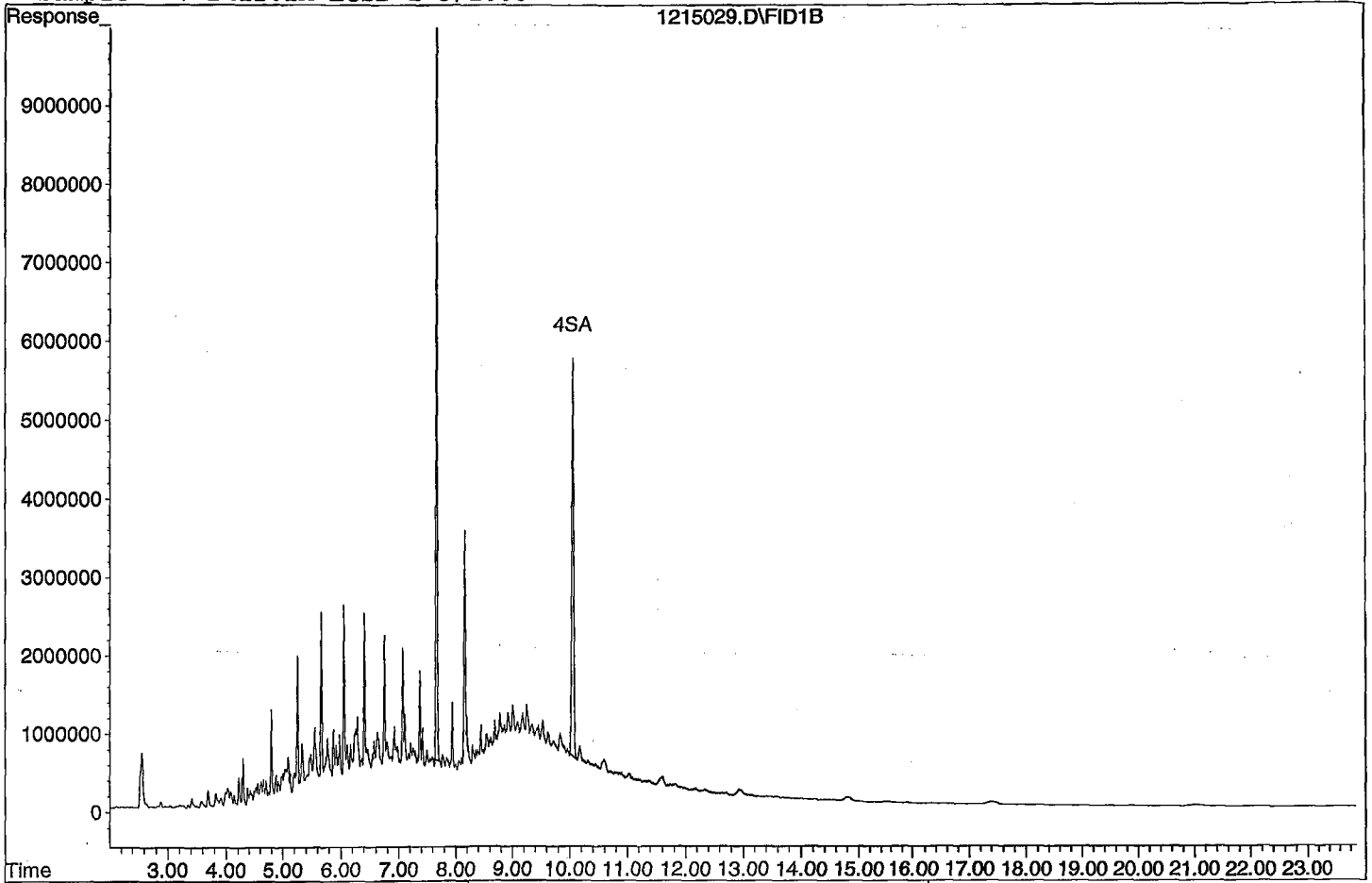
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	145424747	145.061 ppb
Surrogate Spike 150.000		Recovery =	96.71%
4) SA Octacosane(S)	10.06	115638570	159.692 ppb
Surrogate Spike 150.000		Recovery =	106.46%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	1840764013	2246.154 ppb
2) HBTM Motor Oil (C24-C40)	15.67	1509921875	2889.479 ppb
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\211215\1215029.D

Sample : 211201A LCSD-1 5/1000

1215029.D\FID1B



# Organic Extraction Worksheet

<b>Method</b>	Continuous Liq/Liq TPH- 3520C w/SGC	<b>Extraction Set</b>	211201A	<b>Extraction Method</b>	LIQ005SGC	<b>Units</b>	mL
Spiked ID 1	Diesel Motor Oil Mix 10-30-21 10-31-27	Surrogate ID 1	THC Surrogate 11-23-21 11-23-22				
Spiked ID 2	Decanoic 1000ug/mL Acid Solution 12-1-21 7-8-24	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:		12/01/21 10:54			
Spiked ID 8		Ext. End Time:		12/02/21 6:40			
		GC Requires Extract By:					
pH1	2	12/01/21 10:10	Water Bath Temp 1 °C	40/39.1 °C			
pH2			Water Bath Temp 2 °C	34/35.1			
pH3			Water Bath Temp 3 °C	30/29.5 °C			

Spiked By: SR

Date 12/1/2021

Witnessed By: CG

Date 12/1/2021

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1 211201A Blk		0.050	2	0.250	1	1000	5	2	12/01/21 10:12	*
						equip	E-HP3 E-WB1			
2 211201A LCS-1		0.080,0.050	1,2	0.250	1	1000	5	2	12/01/21 10:12	*
						equip	E-HP4 E-WB2			
3 211201A LCSD-1		0.080,0.050	1,2	0.250	1	1000	5	2	12/01/21 10:12	*
						equip	E-HP6 E-WB3			
4 BA46971	BA46971W09	0.050	2	0.250	1	1040	5	2	12/01/21 10:12	98336 *
						equip	E-HP7 E-WB1			
5 BA46973	BA46973W09	0.050	2	0.250	1	1050	5	2	12/01/21 10:12	98336 *
						equip	E-HP8 E-WB2			
6 BA46974	BA46974W07	0.050	2	0.250	1	1040	5	2	12/01/21 10:12	98336 *
						equip	E-HP9 E-WB3			
7 BA46979	BA46979W09	0.050	2	0.250	1	1030	5	2	12/01/21 10:12	98337 *
						equip	E-HP10 E-WB1			
8 BA46981	BA46981W09	0.050	2	0.250	1	1040	5	2	12/01/21 10:12	98337 *
						equip	E-HP11 E-WB2			
9 BA46983	BA46983W09	0.050	2	0.250	1	1030	5	2	12/01/21 10:12	98337 *
						equip	E-HP12 E-WB3			
10 BA46985	BA46985W09	0.050	2	0.250	1	1030	5	2	12/01/21 10:12	98337 *
						equip	E-HP13 E-WB1			

<b>Solvent and Lot#</b>	
1+1 HCL (5mLs)	60358
PH Strips	HC160397
Dichloromethane (DCM)	61117
Filter Paper	400202
Sodium Sulfate	2021071206
SILICA GEL (*)	050627T

<b>Extraction COC Transfer</b>	
Extraction lab employee Initials	KY
GC analyst's initials	KA
Date	12/2/21
Time	15:30
Refrigerator	HOBART

	<b>Technician's Initials</b>
Scanned By	SR
Sample Preparation	SR
Extraction	SR
Concentration	SR
Modified	12/2/2021 12:40:20 PM

Reviewed By: KY      Date 12/2/2021  
 142 of 507  
 Ext\_ID      73523

## Injection Log

Directory: G:\APOLLO\DATA\211212\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	4	1212006.D	1	DMO Calibration 1 12/12/21	Water	12-12-21 16:08:57
2	5	1212007.D	1	DMO Calibration 2 12/12/21	Water	12-12-21 16:37:14
3	6	1212008.D	1	DMO Calibration 3 12/12/21	Water	12-12-21 17:05:32
4	7	1212009.D	1	DMO Calibration 4 12/12/21	Water	12-12-21 17:33:48
5	8	1212010.D	1	DMO Calibration 5 12/12/21	Water	12-12-21 18:02:04
6	9	1212011.D	1	DMO Calibration 6 12/12/21	Water	12-12-21 18:30:20
7	10	1212012.D	1	DMO Calibration 7 12/12/21	Water	12-12-21 18:58:36
8	11	1212013.D	1	DMO Second Source 10/28/21	Water	12-12-21 19:26:51
9	22	1215022.D	1	DMO STD DF2 12/09/21	Water	12-15-21 19:24:43
10	27	1215027.D	5	211201A BLK 5/1000	Water	12-15-21 21:45:15
11	28	1215028.D	5	211201A LCS-1 5/1000	Water	12-15-21 22:13:21
12	29	1215029.D	5	211201A LCSD-1 5/1000	Water	12-15-21 22:41:27
13	33	1215033.D	4.85437	BA46979W09 5/1030	Water	12-16-21 0:33:47
14	34	1215034.D	4.80769	BA46981W09 5/1040	Water	12-16-21 1:01:51
15	35	1215035.D	4.85437	BA46983W09 5/1030	Water	12-16-21 1:29:57
16	36	1215036.D	1	DMO STD DF2 12/09/21	Water	12-16-21 1:58:02
17	37	1215037.D	4.85437	BA46985W09 5/1030	Water	12-16-21 2:26:10
18	53	1215053.D	1	DMO STD DF2 12/09/21	Water	12-16-21 9:55:44

**Diesel / Motor Oil Calibration Curve**

Prepared: 12/12/2021

Expires: 5/31/2026

Prepared By (Initials): KA

Methylen

e

Chloride

Lot No. 61117

Initial Standard Information							Final Standard			
Name of Initial Standard (QAU Label)	Supplier	Conc. (ug/mL)	APPL Mix Name	Reference to APPL Prep Date and Lot #'s	Exp. Date	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel / Motor Oil - 2	APPL	10	Diesel / Motor Oil - 1	Perp'd:12/09/21 A0164586-53276, 53175, 53277 and 53278, A0168842-53280, and CL16893- 53203	See man. Exp date	11/30/2027 10/31/2027 5/31/2026 3/31/28	100uL	200uL	MC	5
Diesel / Motor Oil - 3		50	Diesel / Motor Oil - 2				200uL	1mL	MC	10
Diesel / Motor Oil Calibration STD	Restek	2,000	Diesel / Motor Oil - 3				25uL	1mL	MC	50
			Diesel / Motor Oil - 4				125uL	1mL	MC	250
			Diesel / Motor Oil - 5				500uL	1mL	MC	1000
			Diesel / Motor Oil - 6				750uL	1mL	MC	1500
			Diesel / Motor Oil - 7				100uL	100uL	N/A	2,000



**Diesel / Motor Oil Second Source**

**Prepared: 10/28/2021**

**Expires: 10/28/2024**

**Prepared By (Initials): KA**

**Methylene**

**e**

**Chloride**

**Lot No. 61117**

Initial Standard Information							Final Standard			
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	Phenova	ALO-101287	50,000	CL16477-52980	See man. Exp date	2/28/2027	50uL	10mL	MC	250
Motor Oil Second Source	Absolute	51094	50,000	102819-52981		10/28/2024	50uL			

**Diesel / Motor Oil Calibration Standard**

Prepared: 12/9/2021

Prepared By (Initials): KA

Expires: 5/31/2026

Methylene  
e

Chloride

Lot No. 61117

Initial Standard Information							Final Standard			
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	Restek	31258	50,000	A0164586-53276, 53275, 53277, and 53278	See man. Exp date	10/31/2027	400uL	10mL	MC	2000
Motor Oil	Restek	31464	50,000	A0168842-52820		3/31/2028	400uL			2000
THC Surrogate	Phenova	ALO-130161	600	CL16893-53203		5/31/2026	1666uL			100

**Diesel Motor Oil Mix**

Prepared: 10/30/2021

Prepared By (Initials): KA

Expires: 10/31/2027

Initial Standard Information							Final Standard			
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	Restek	31258	50,000	A0164485-52825 and A0164586-53175, 53174, and 53176	See man. Date	10/31/2027	4.00 mL	8.0 mL	NA	25,000
Motor Oil Composite	Restek	31464	50,000	A0166510-52817, and A0168842-53169, 53170, and 53171	See man. Date	12/31/2027 3/31/28	4.00 mL			25,000

<b>THC Surrogate</b>										
<b>Prepared: 11/23/2021</b>							<b>KA</b>			
<b>Expires: 5/31/2026</b>										
<b>Initial Standard Information</b>							<b>Final Standard</b>			
<b>Name of Initial Standard (QAU Label)</b>	<b>Supplier</b>	<b>Supplier Part No.</b>	<b>Conc. (ug/mL)</b>	<b>Lot Number - QA Number</b>	<b>Exp. Date (1 yr.)</b>	<b>Exp. Date (Manufacturer)</b>	<b>Aliquot From Stock</b>	<b>Final Volume</b>	<b>Solvent</b>	<b>Final Standard Conc. (ug/mL)</b>
O-terphenyl / Octacosane Mix	Phenova	ALO-130161	600	CL16893-53204	See ma. Date	5/31/2026	N/A	N/A	N/A	600

**ORGANICS**  
**Calibration Data**

TPH Extractables  
DOC1028

Form 6  
Initial Calibration

Lab Name: APPL, Inc. \_\_\_\_\_

SDG No: \_\_\_\_\_

Case No: \_\_\_\_\_

Initial Cal. Date: 10/28/2021 \_\_\_\_\_

Matrix: Water \_\_\_\_\_

Instrument: Apollo \_\_\_\_\_

Initials: KA \_\_\_\_\_

1028003.D    1028004.D    1028005.D    1028006.D    1028007.D    1028008.D    1028009.D

	Compound	1	2	3	4	5	6	7				Avg	%RSD	Type	r <sup>2</sup>	Q
1	HATM Diesel (C10-C24)	2983809	2406563	2517872	2418941	2337993	2387715	2563791				2516669	8.7	HATM		
2	HBTML Motor Oil (C24-C40)	5192328	3260715	2065863	1824592	1695984	1676117	1728658				2492037	53	HBTM	1.000	
3	SA Ortho-Terphenyl(S)	3637234	3178668	3119876	3035678	2926966	2905323	3088794				3127505	7.9	SA		
4	SA Octacosane(S)	2469203	2170507	2286410	2275552	2170413	2171254	2286658				2261428	4.8	SA		
5																
6																
7																
8																
9																
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2.118919

Data File : G:\APOLLO\DATA\211028\1028003.D Vial: 3  
 Acq On : 10-28-21 9:19:03 Operator: KA  
 Sample : DMO STD 1 10/28/21 Inst : Apollo  
 Misc : water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Oct 28 15:39 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Thu Oct 28 15:39:11 2021  
 Response via : Multiple Level Calibration

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

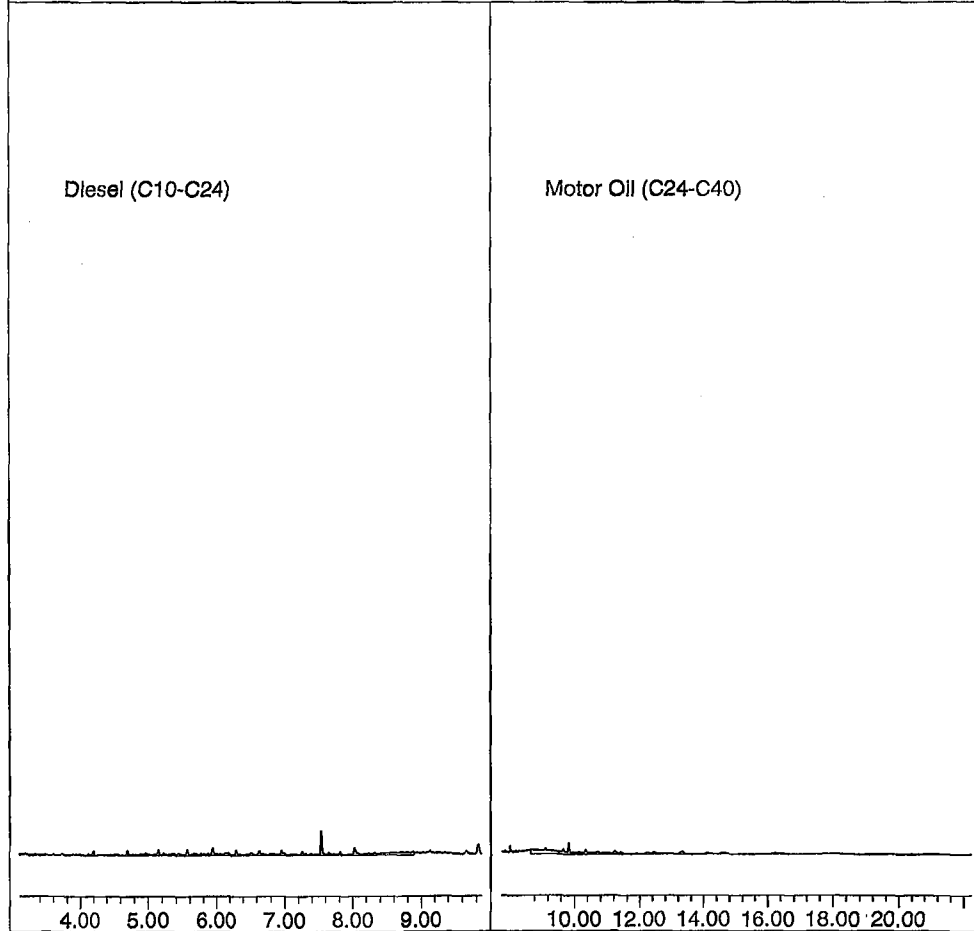
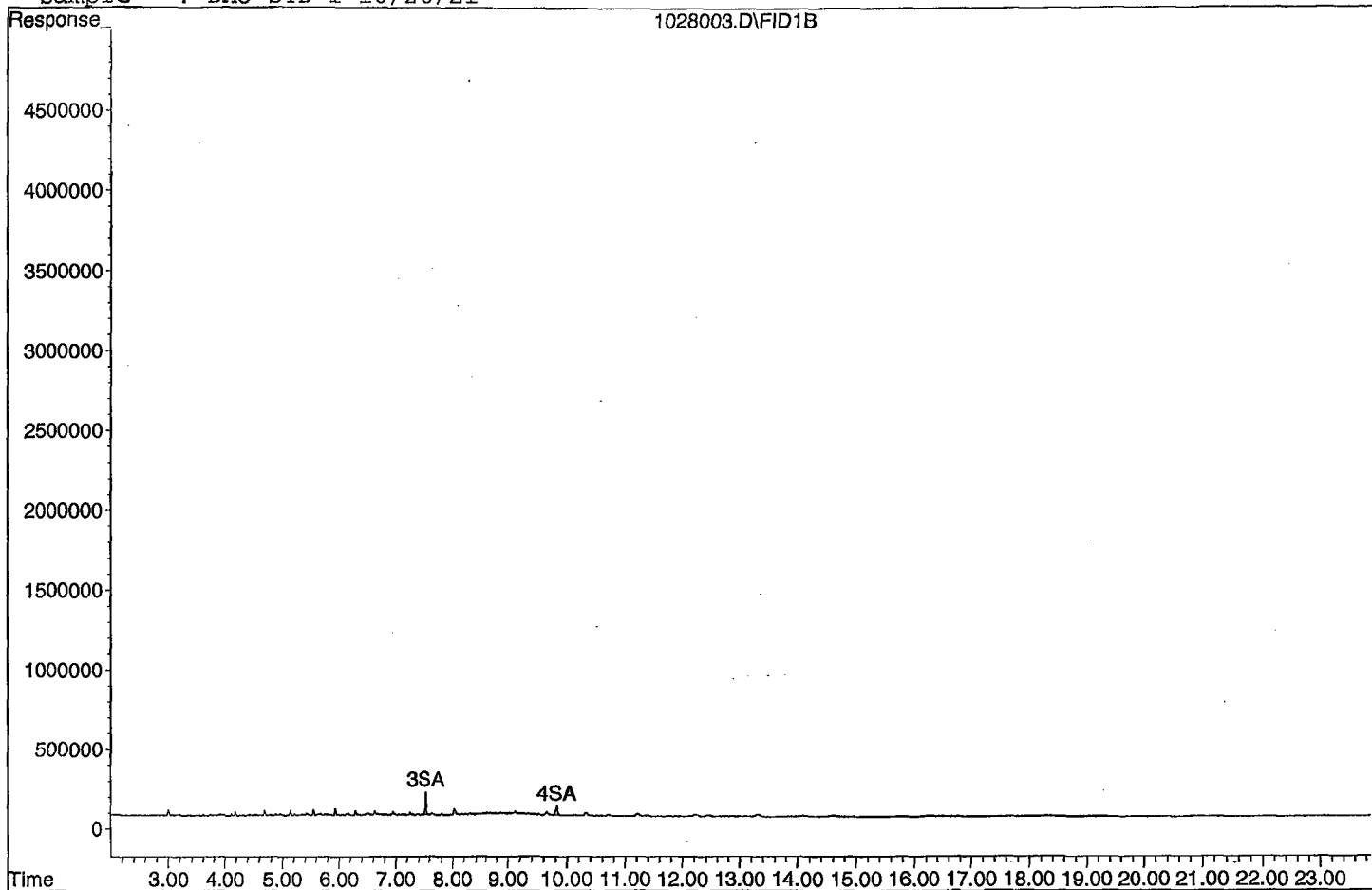
Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.53	1818617	0.291 ppb
Surrogate Spike 30.000		Recovery =	0.97%
4) SA Octacosane(S)	9.82	1234601	0.273 ppb
Surrogate Spike 30.000		Recovery =	0.91%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	29838086	5.928 ppb
2) HBTM Motor Oil (C24-C40)	14.96	51923283	5.234 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211028\1028003.D

Sample : DMO STD 1 10/28/21





Data File : G:\APOLLO\DATA\211028\1028004.D Vial: 4  
 Acq On : 10-28-21 9:47:06 Operator: KA  
 Sample : DMO STD 2 10/28/21 Inst : Apollo  
 Misc : water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Oct 28 15:39 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Thu Oct 28 15:39:11 2021  
 Response via : Multiple Level Calibration

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

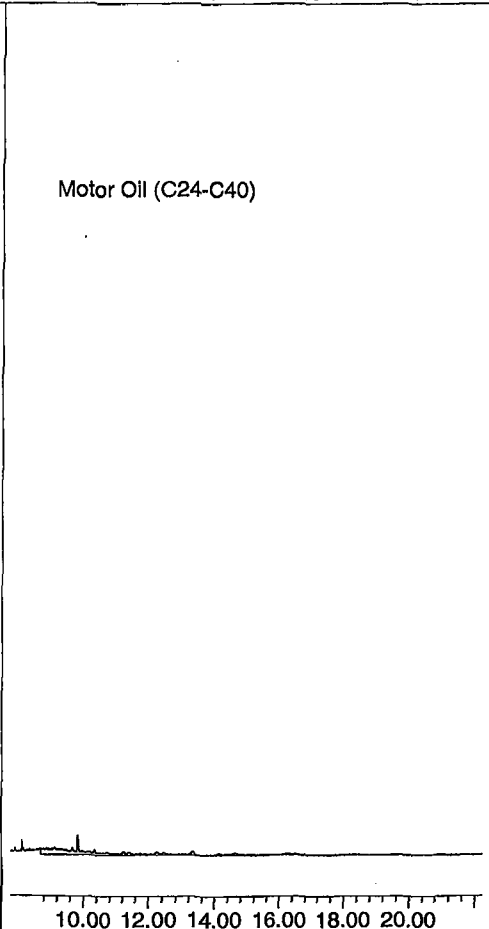
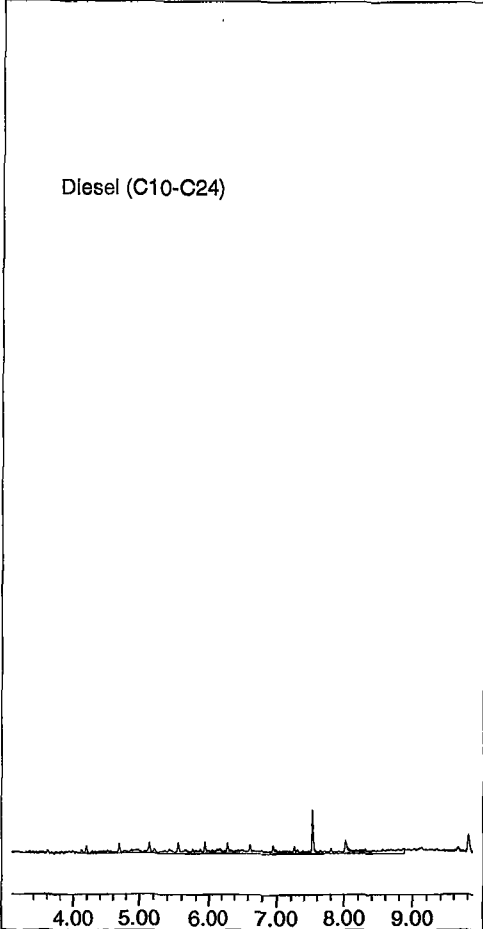
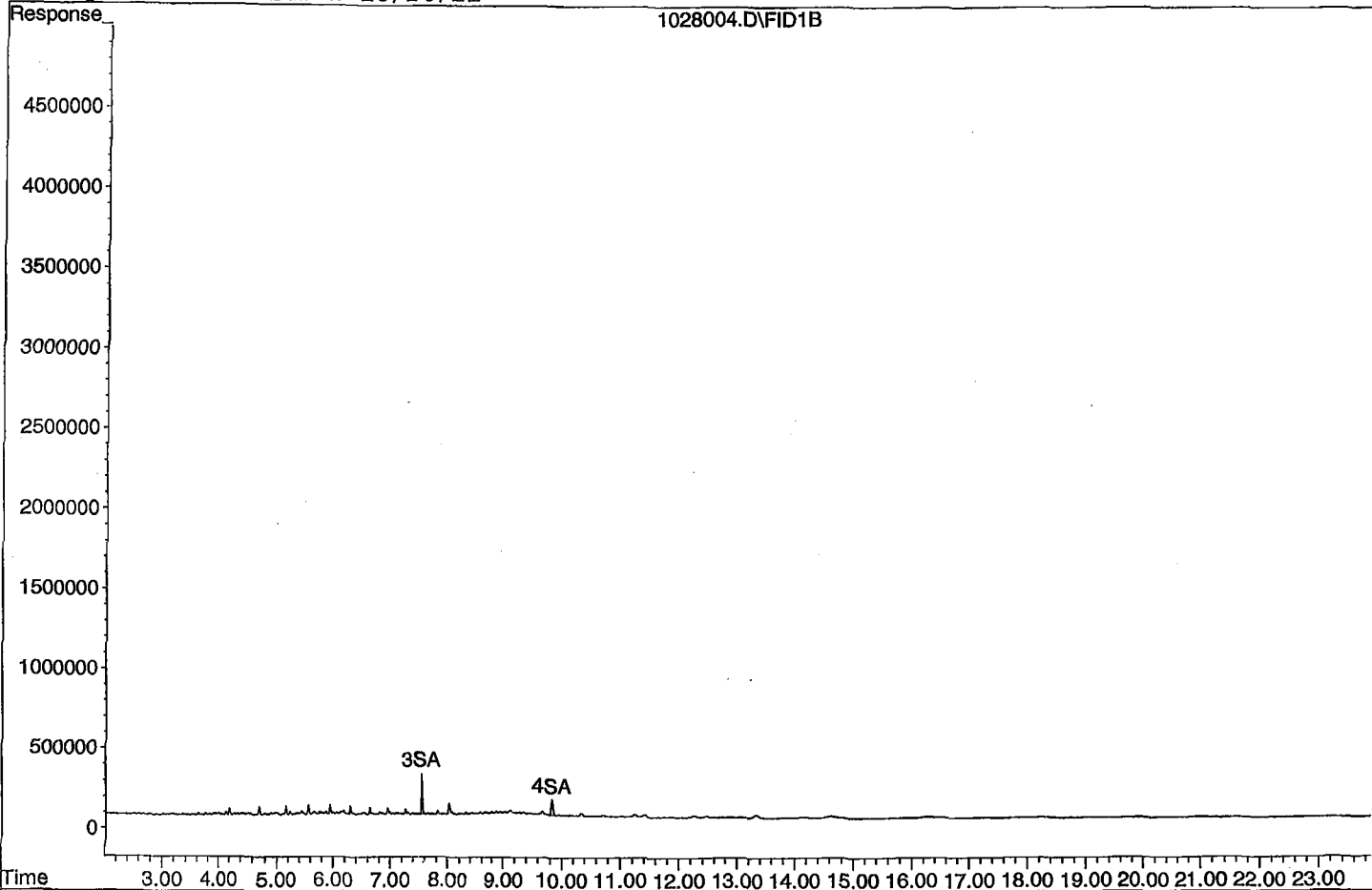
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.53	3178668	0.508 ppb
Surrogate Spike 30.000		Recovery =	1.69%
4) SA Octacosane(S)	9.82	2170507	0.480 ppb
Surrogate Spike 30.000		Recovery =	1.60%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	48131263	9.562 ppb
2) HBTM Motor Oil (C24-C40)	14.96	65214303	9.152 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211028\1028004.D

Sample : DMO STD 2 10/28/21



Data File : G:\APOLLO\DATA\211028\1028005.D Vial: 5  
 Acq On : 10-28-21 10:15:13 Operator: KA  
 Sample : DMO STD 3 10/28/21 Inst : Apollo  
 Misc : water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Oct 28 15:39 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Thu Oct 28 15:39:11 2021  
 Response via : Multiple Level Calibration

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

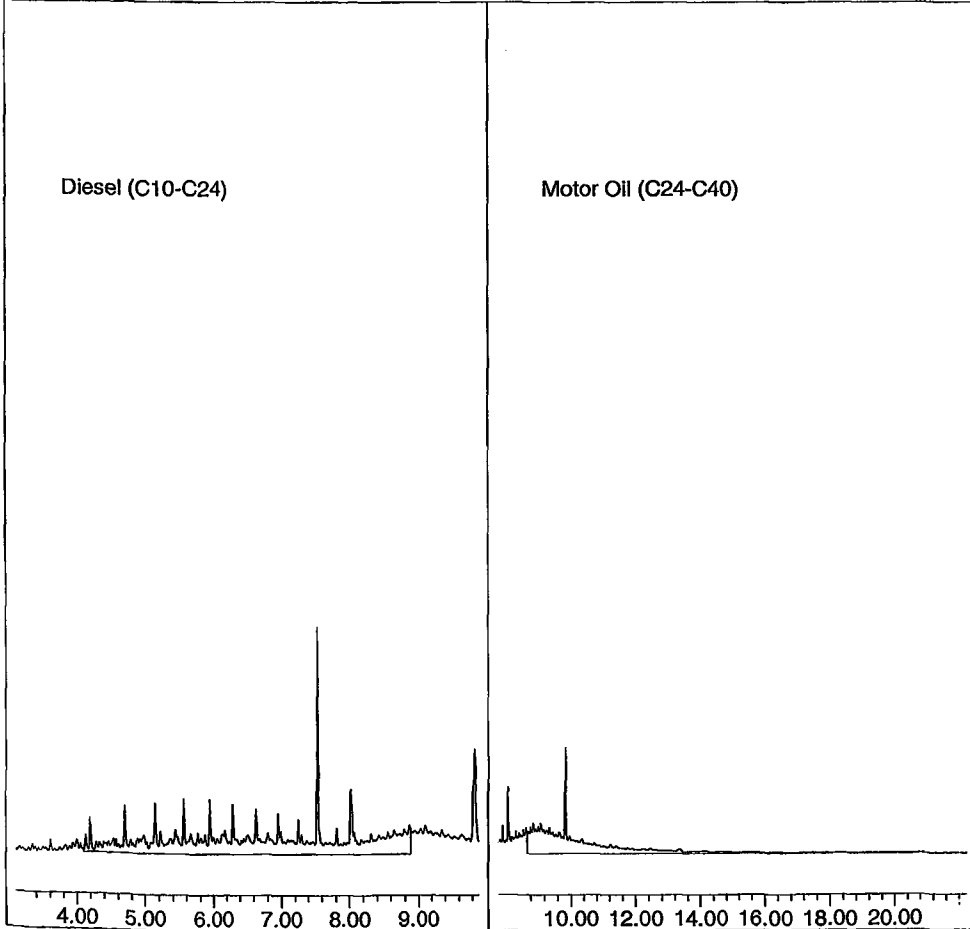
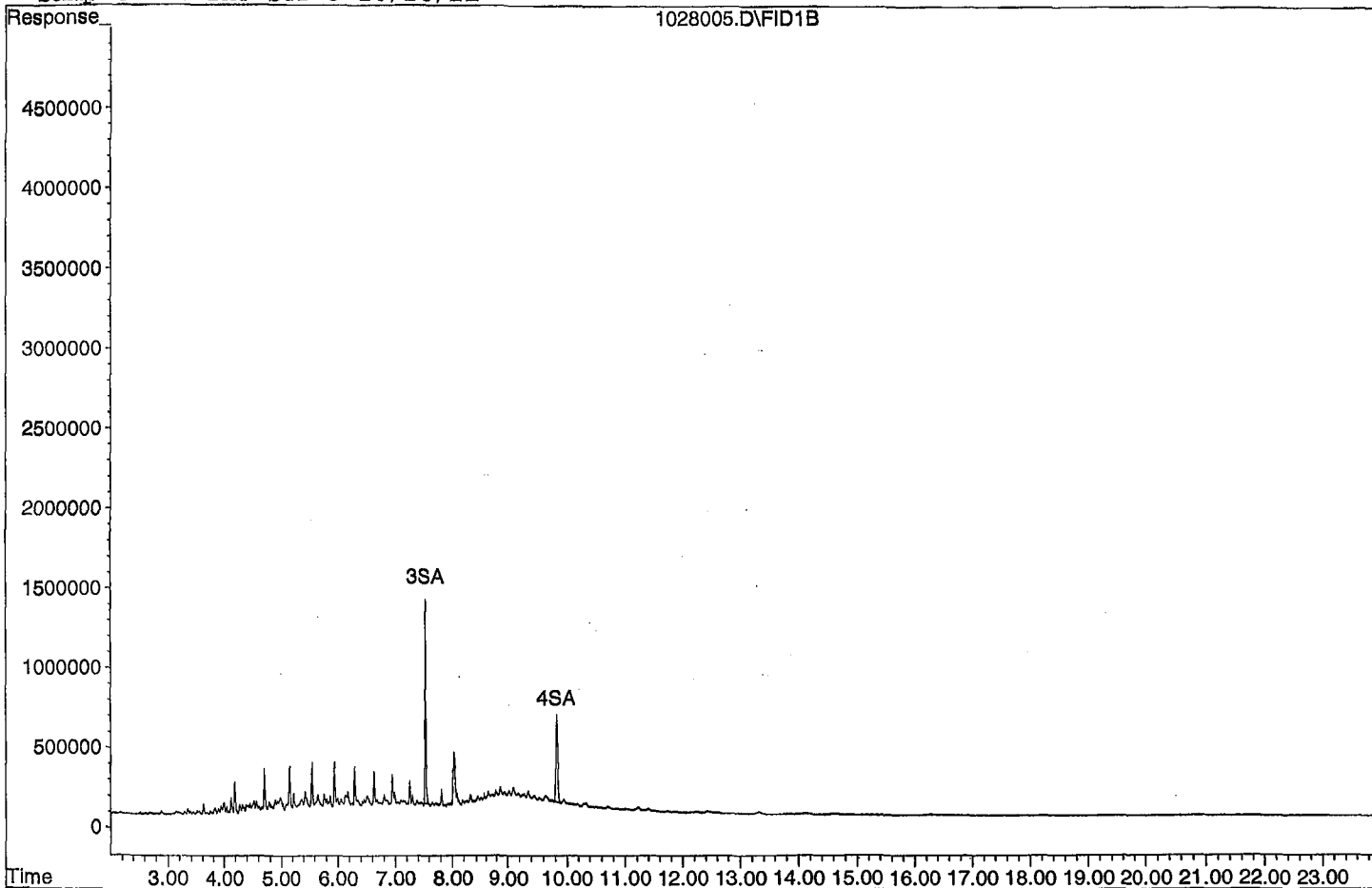
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.53	15599382	2.494 ppb
Surrogate Spike 30.000		Recovery =	8.31%
4) SA Octacosane(S)	9.82	11432050	2.528 ppb
Surrogate Spike 30.000		Recovery =	8.43%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	251787231	50.024 ppb
2) HBTM Motor Oil (C24-C40)	14.96	206586322	50.832 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211028\1028005.D

Sample : DMO STD 3 10/28/21



Data File : G:\APOLLO\DATA\211028\1028006.D Vial: 6  
 Acq On : 10-28-21 10:43:31 Operator: KA  
 Sample : DMO STD 4 10/28/21 Inst : Apollo  
 Misc : water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Oct 28 15:39 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Thu Oct 28 15:39:11 2021  
 Response via : Multiple Level Calibration

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

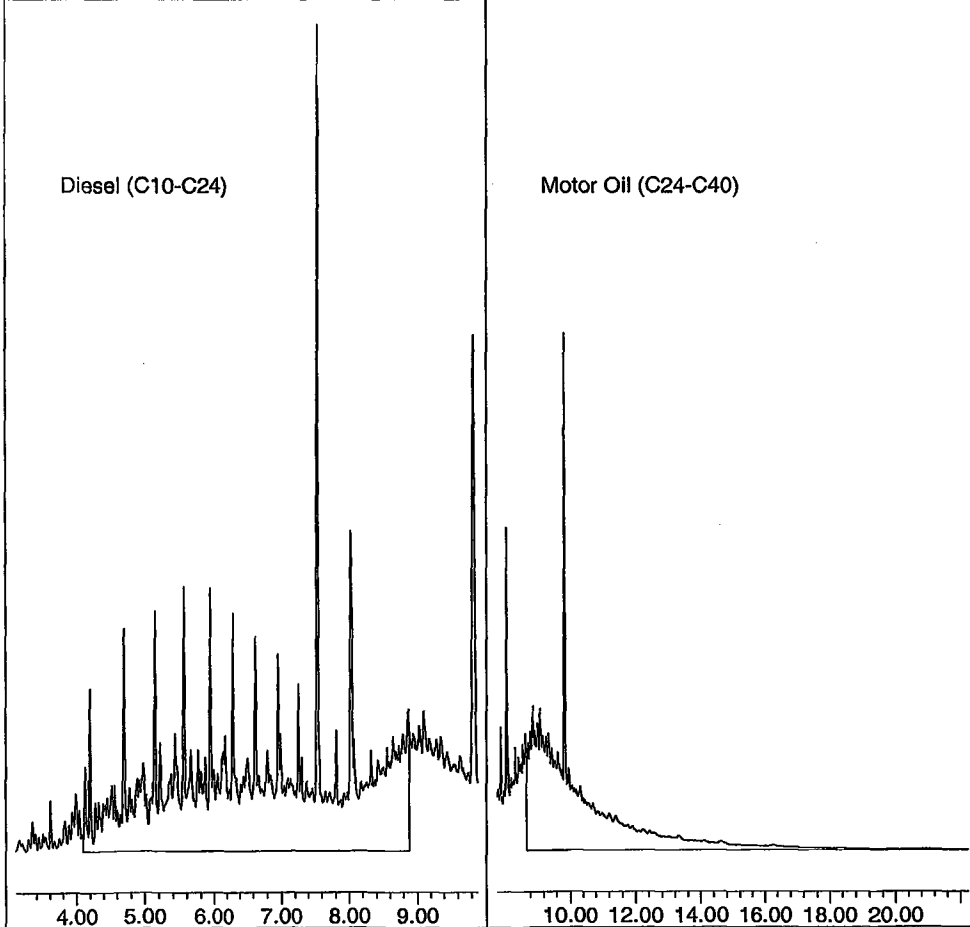
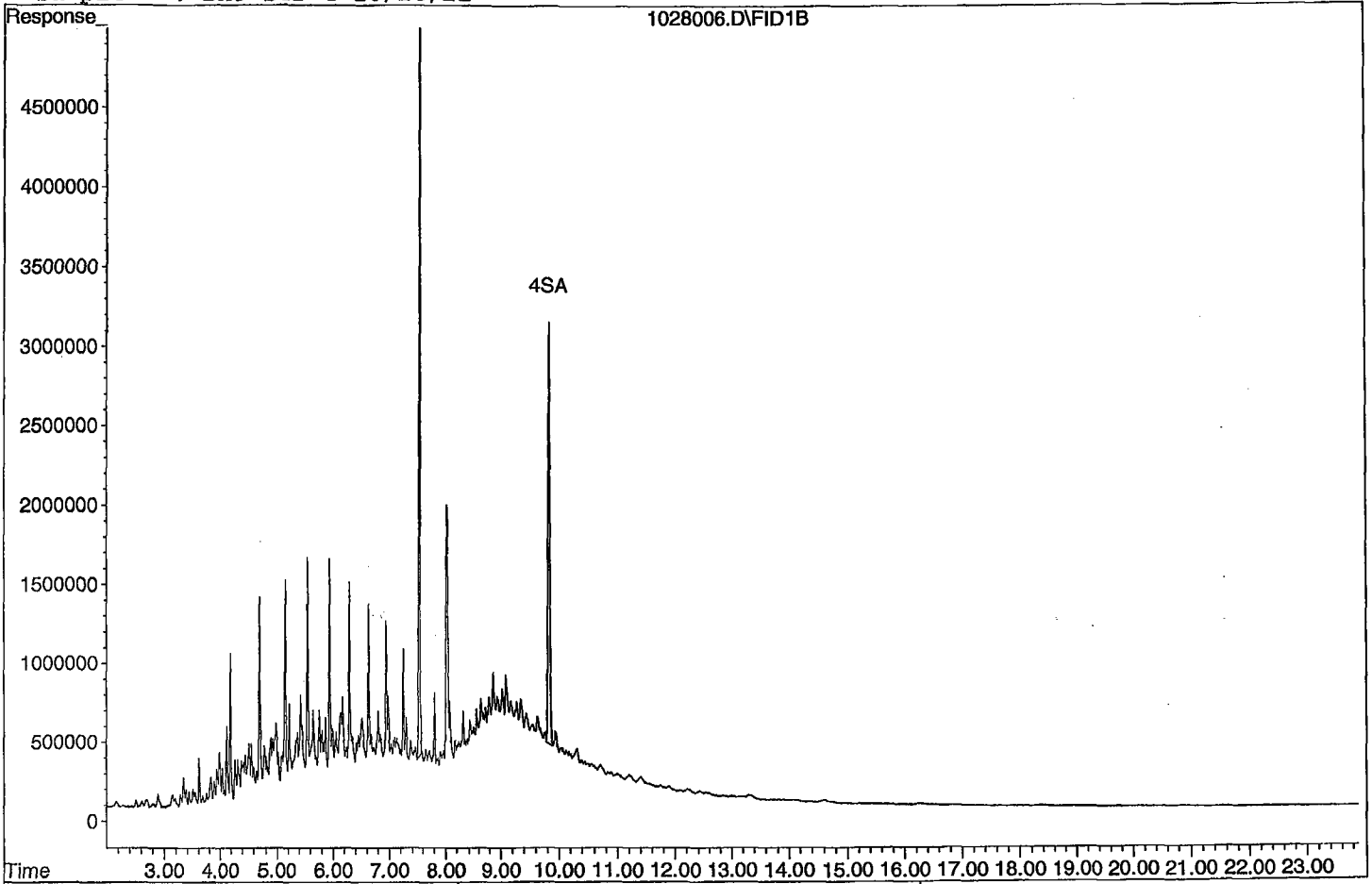
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.53	75891940	12.133 ppb
Surrogate Spike 30.000		Recovery =	40.44%
4) SA Octacosane(S)	9.82	56888797	12.578 ppb
Surrogate Spike 30.000		Recovery =	41.93%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	1209470396	240.292 ppb
2) HBTM Motor Oil (C24-C40)	14.96	912296132	258.892 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211028\1028006.D

Sample : DMO STD 4 10/28/21



Data File : G:\APOLLO\DATA\211028\1028007.D Vial: 7  
 Acq On : 10-28-21 11:11:42 Operator: KA  
 Sample : DMO STD 5 10/28/21 Inst : Apollo  
 Misc : water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Oct 28 15:39 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Thu Oct 28 15:39:11 2021  
 Response via : Multiple Level Calibration

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

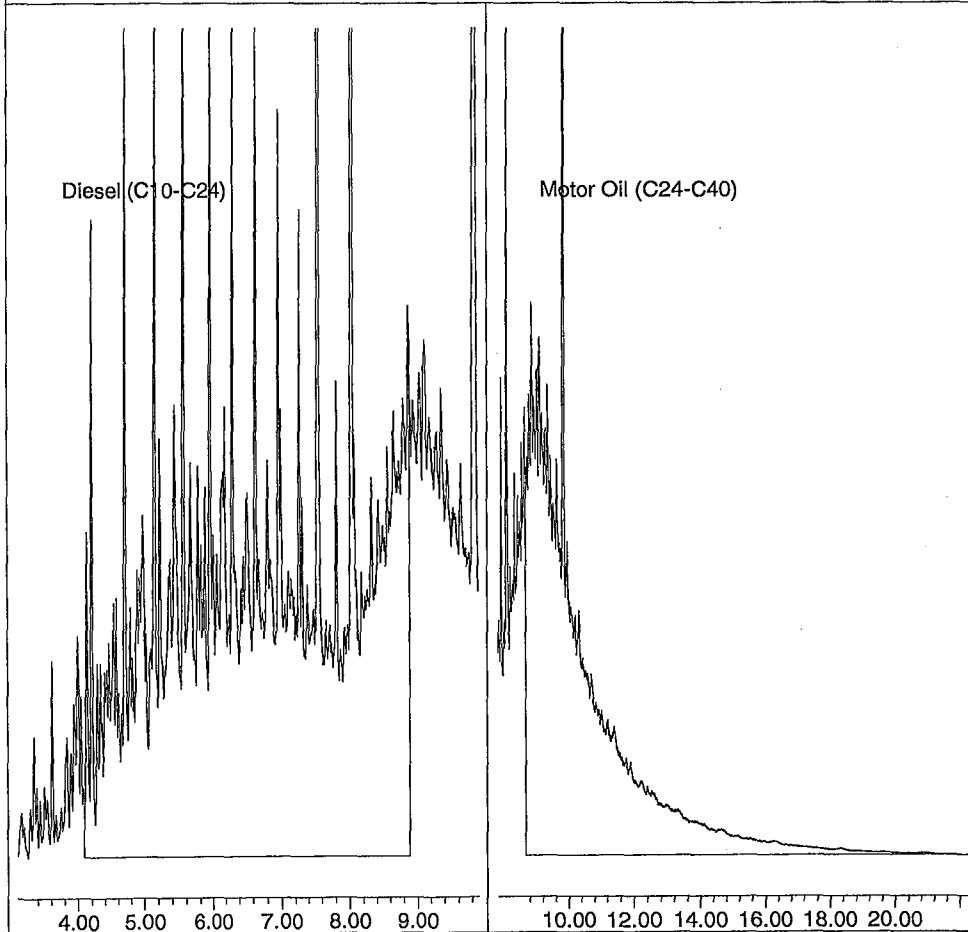
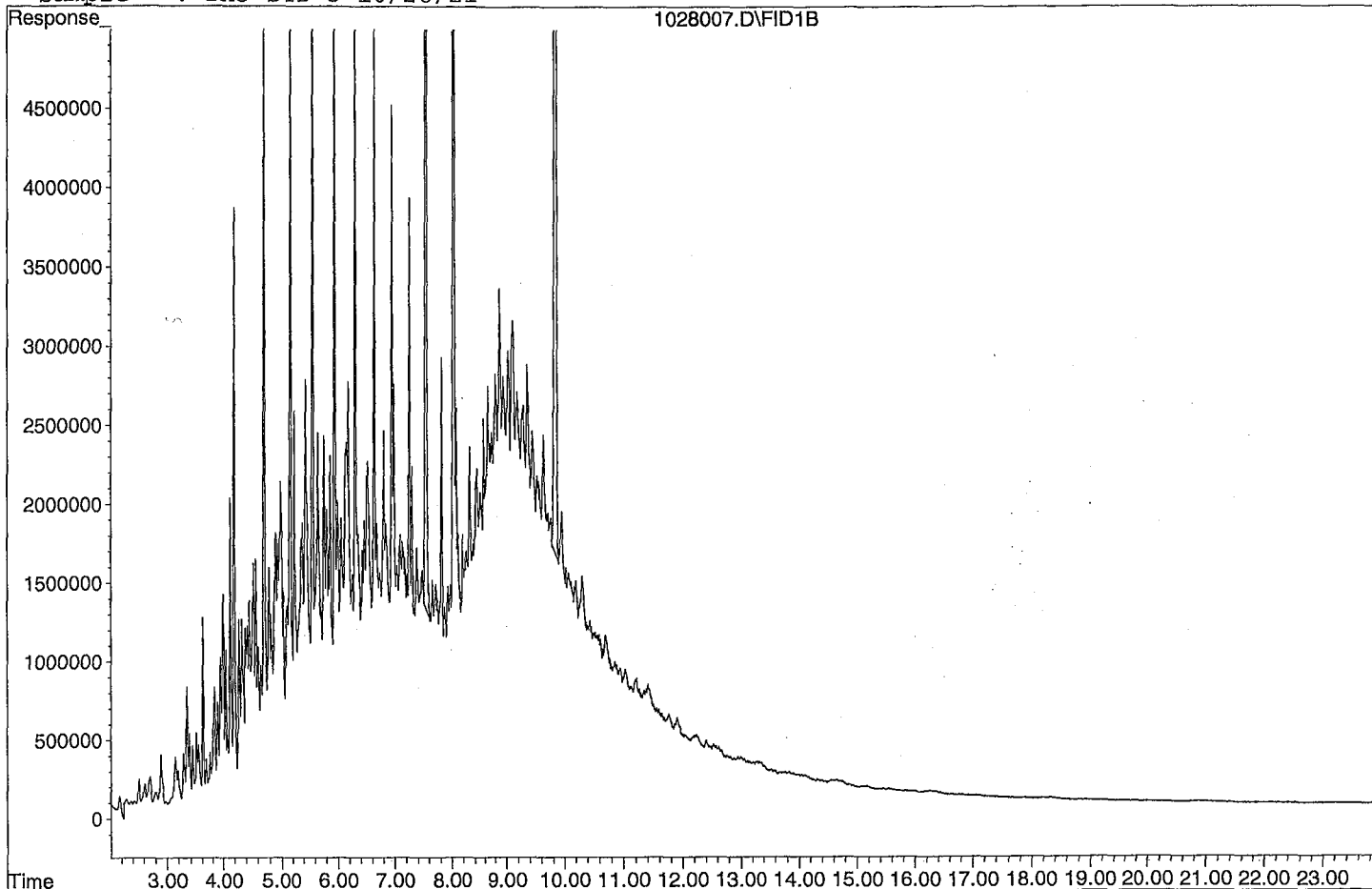
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.54	292696553	46.794 ppb
Surrogate Spike 30.000		Recovery =	155.98%
4) SA Octacosane(S)	9.83	217041298	47.988 ppb
Surrogate Spike 30.000		Recovery =	159.96%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	4675985227	929.003 ppb
2) HBTM Motor Oil (C24-C40)	14.96	3391967397	989.959 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211028\1028007.D

Sample : DMO STD 5 10/28/21





Data File : G:\APOLLO\DATA\211028\1028008.D Vial: 8  
 Acq On : 10-28-21 11:39:55 Operator: KA  
 Sample : DMO STD 6 10/28/21 Inst : Apollo  
 Misc : water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Oct 28 15:39 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Thu Oct 28 15:39:11 2021  
 Response via : Multiple Level Calibration

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

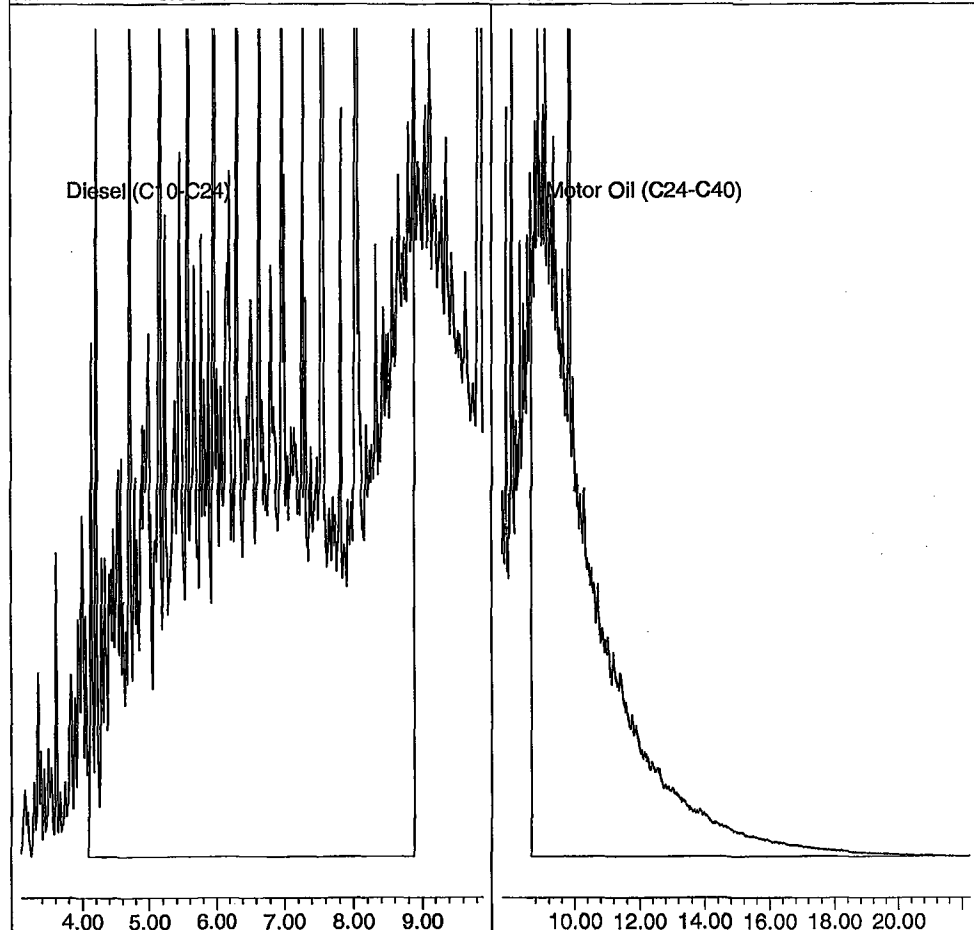
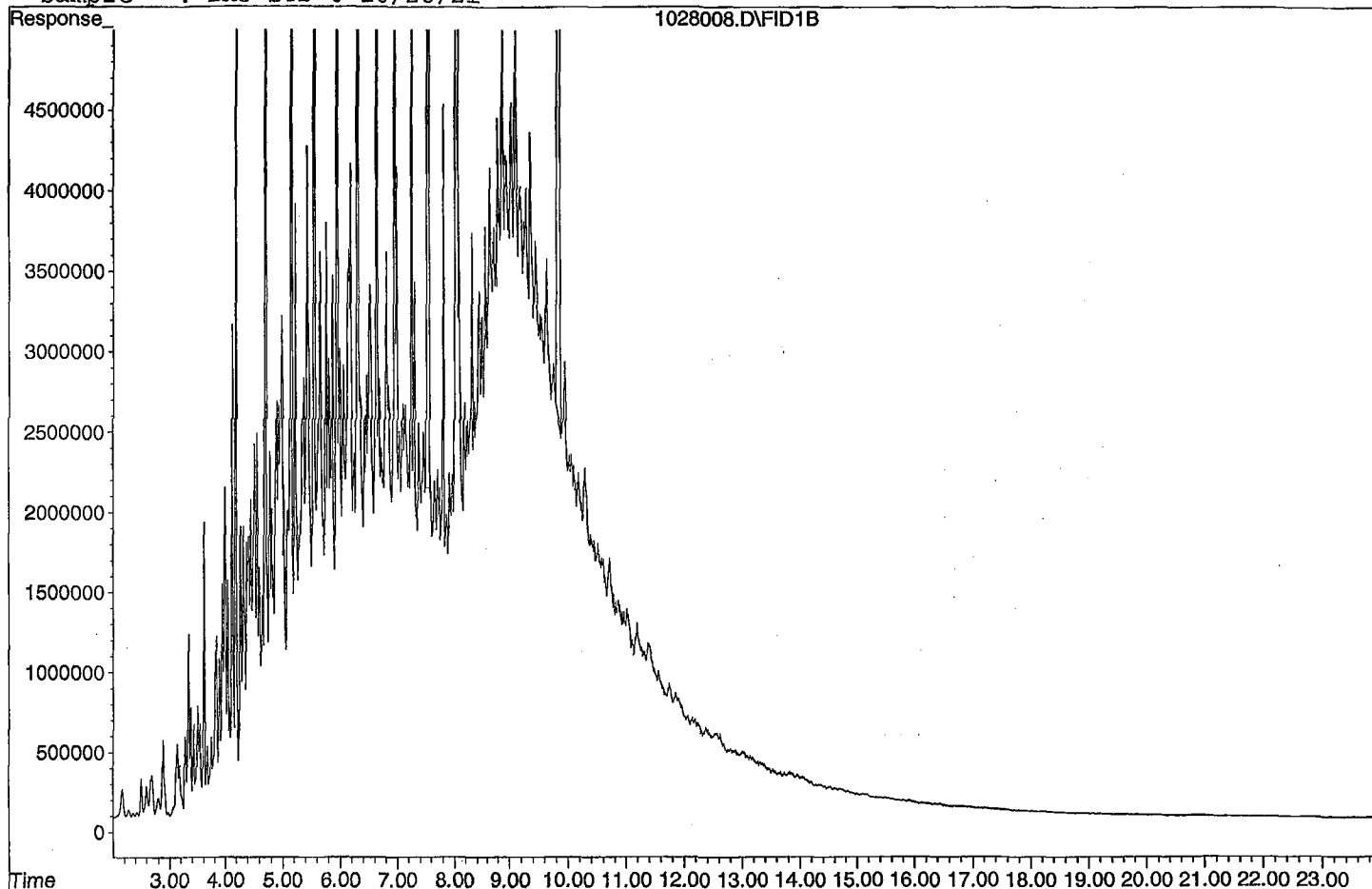
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.54	435798382	69.672 ppb
Surrogate Spike 30.000		Recovery =	232.24%
4) SA Octacosane(S)	9.84	325688048	72.009 ppb
Surrogate Spike 30.000		Recovery =	240.03%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	7163144090	1423.140 ppb
2) HBTM Motor Oil (C24-C40)	14.96	5028351305	1472.405 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211028\1028008.D

Sample : DMO STD 6 10/28/21



Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211028\1028009.D Vial: 9  
 Acq On : 10-28-21 12:08:10 Operator: KA  
 Sample : DMO STD 7 10/28/21 Inst : Apollo  
 Misc : water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Oct 28 15:39 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Thu Oct 28 15:39:11 2021  
 Response via : Multiple Level Calibration

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

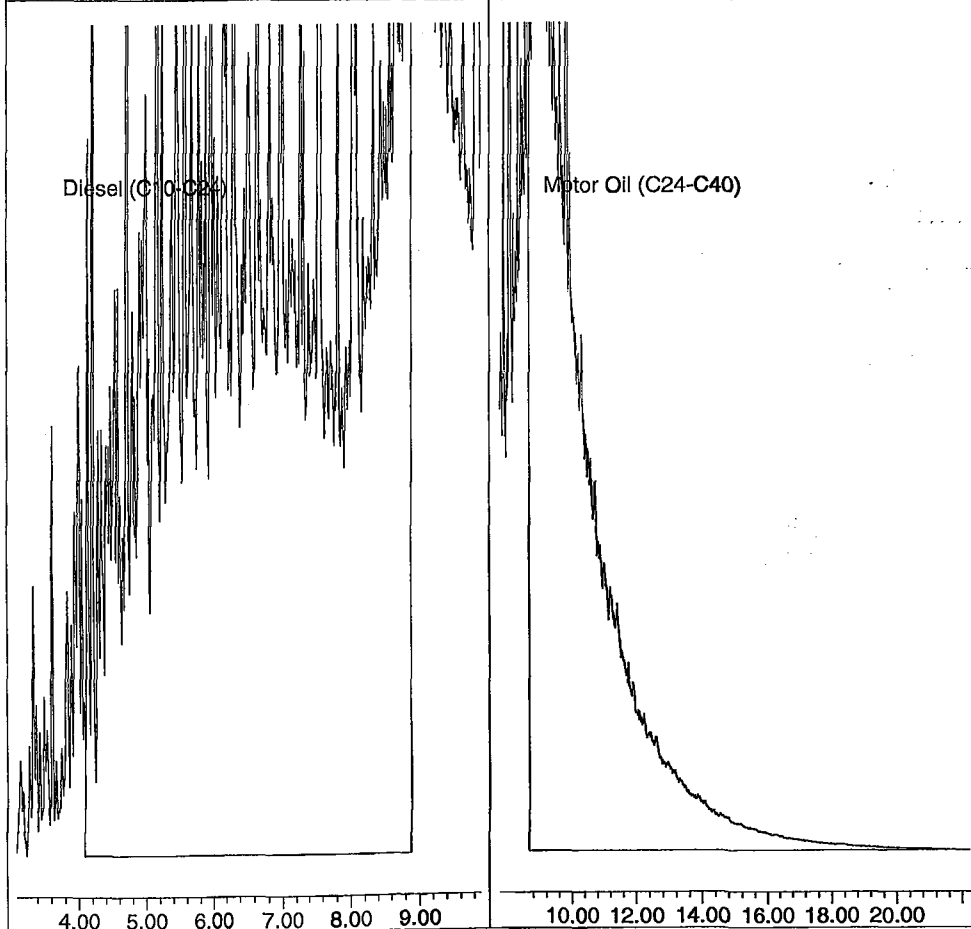
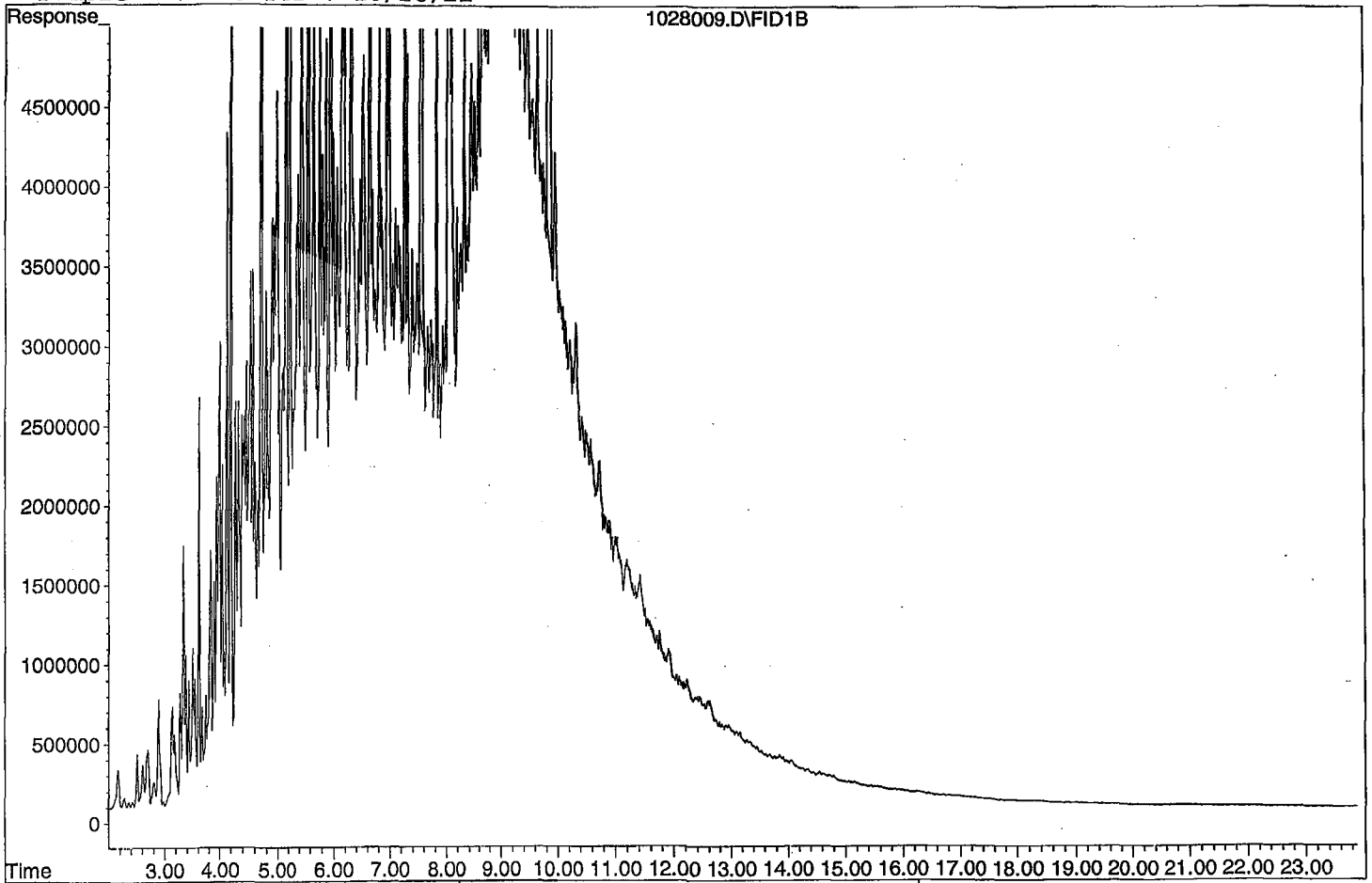
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl (S)	7.54	617758709	98.762 ppb
Surrogate Spike 30.000		Recovery =	329.21%
4) SA Octacosane (S)	9.85	457331573	101.116 ppb
Surrogate Spike 30.000		Recovery =	337.05%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	10255165539	2037.448 ppb
2) HBTM Motor Oil (C24-C40)	14.96	6914631831	2028.526 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211028\1028009.D

Sample : DMO STD 7 10/28/21



TPH Extractables  
DOC1028

Form 7

Second Source Calibration

Lab Name: APPL, Inc.  
Case No: \_\_\_\_\_  
Matrix: Water

SDG No: \_\_\_\_\_  
Date Analyzed: 10/28/2021  
Instrument: Apollo  
Initial Cal. Date: 10/28/2021  
Data File: 1028010.D

	Compound	MEAN	CCRF	%D	%Drift
1	HATM Diesel (C10-C24)	2516670	2266400	9.9	HATM
2	HBTM Motor Oil (C24-C40)	2492040	1663520	33	HBTML 5.9
3					
4					
5					
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36					
37					
38					
39					
40	Average			21.5	

Data File : G:\APOLLO\DATA\211028\1028010.D Vial: 10  
 Acq On : 10-28-21 12:36:26 Operator: KA  
 Sample : DMO Second Source 10/28/21 Inst : Apollo  
 Misc : water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Oct 28 15:39 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Thu Oct 28 15:39:11 2021  
 Response via : Multiple Level Calibration

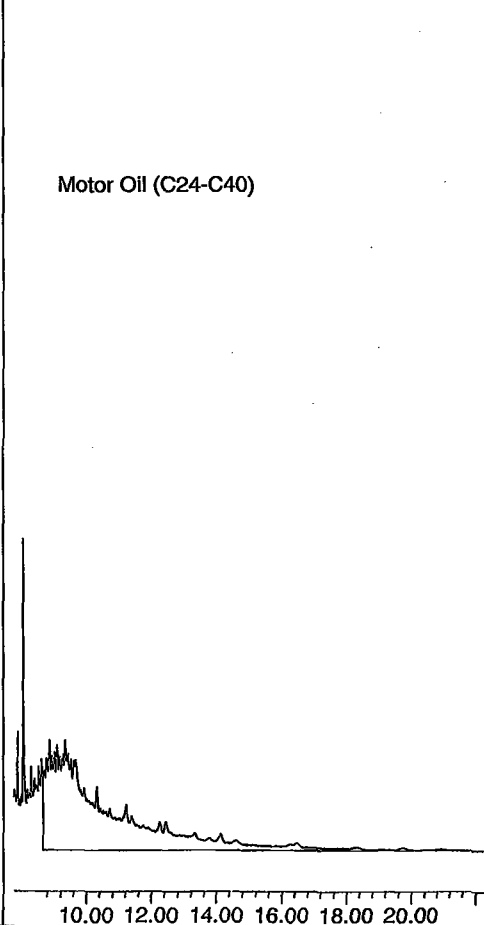
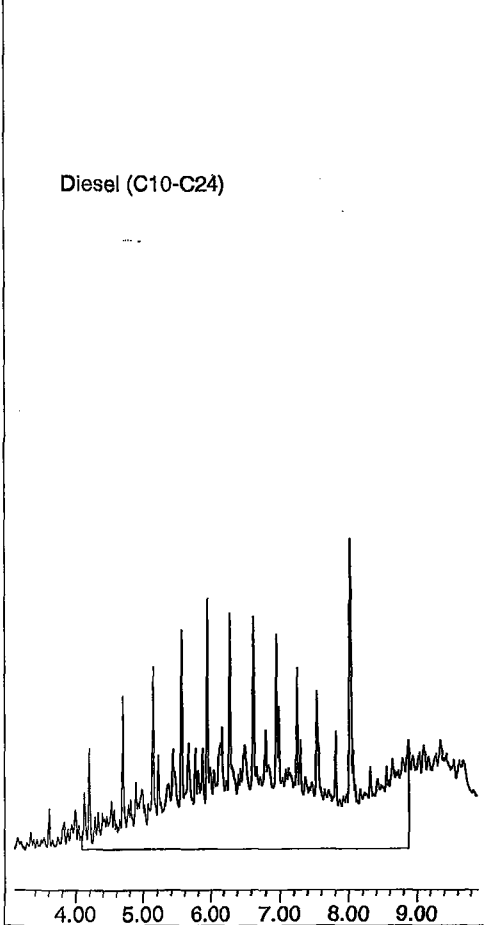
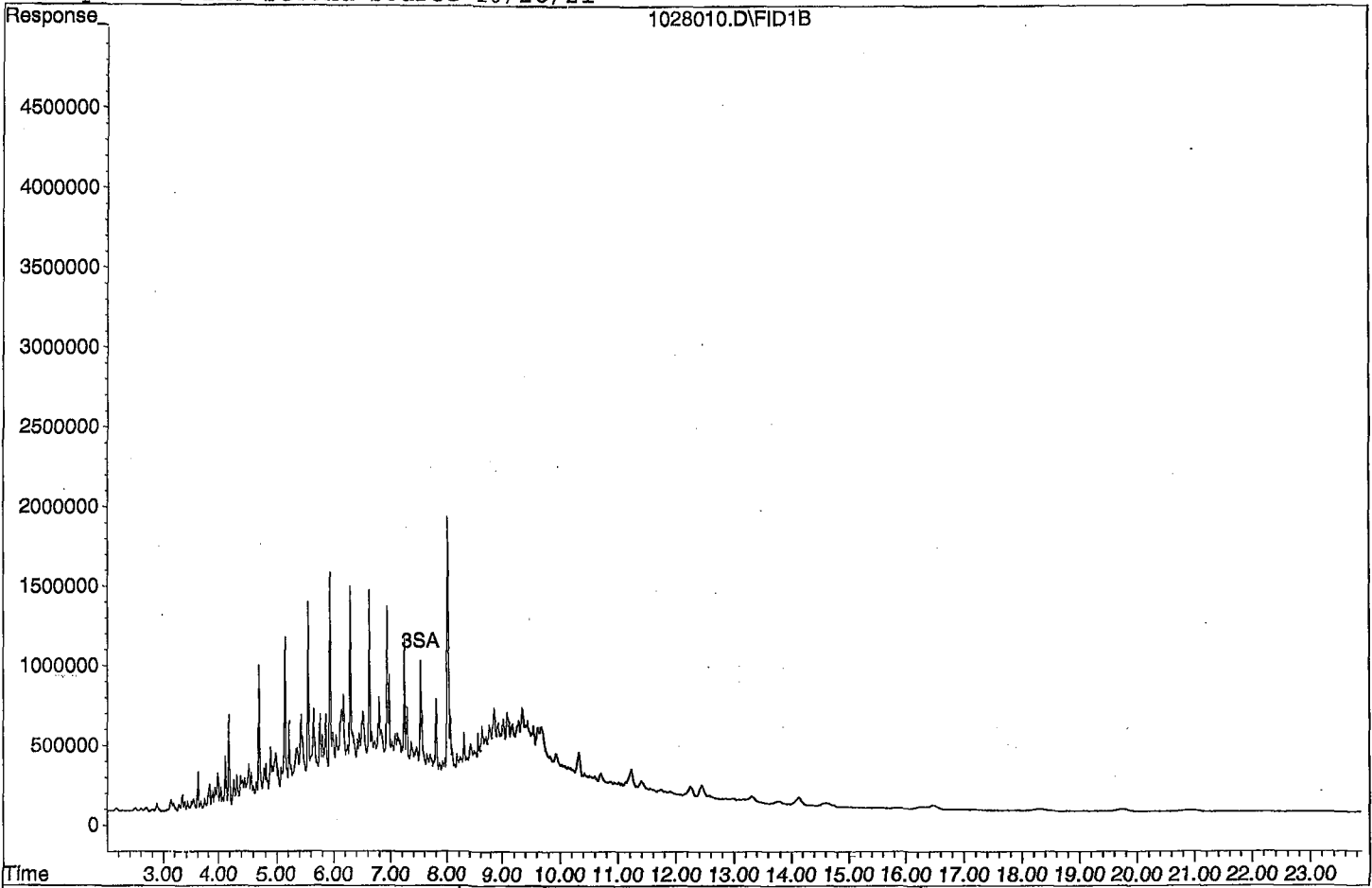
Volume Inj. : 2UL  
 Signal Phase : DB-5  
 Signal Info : FID02A

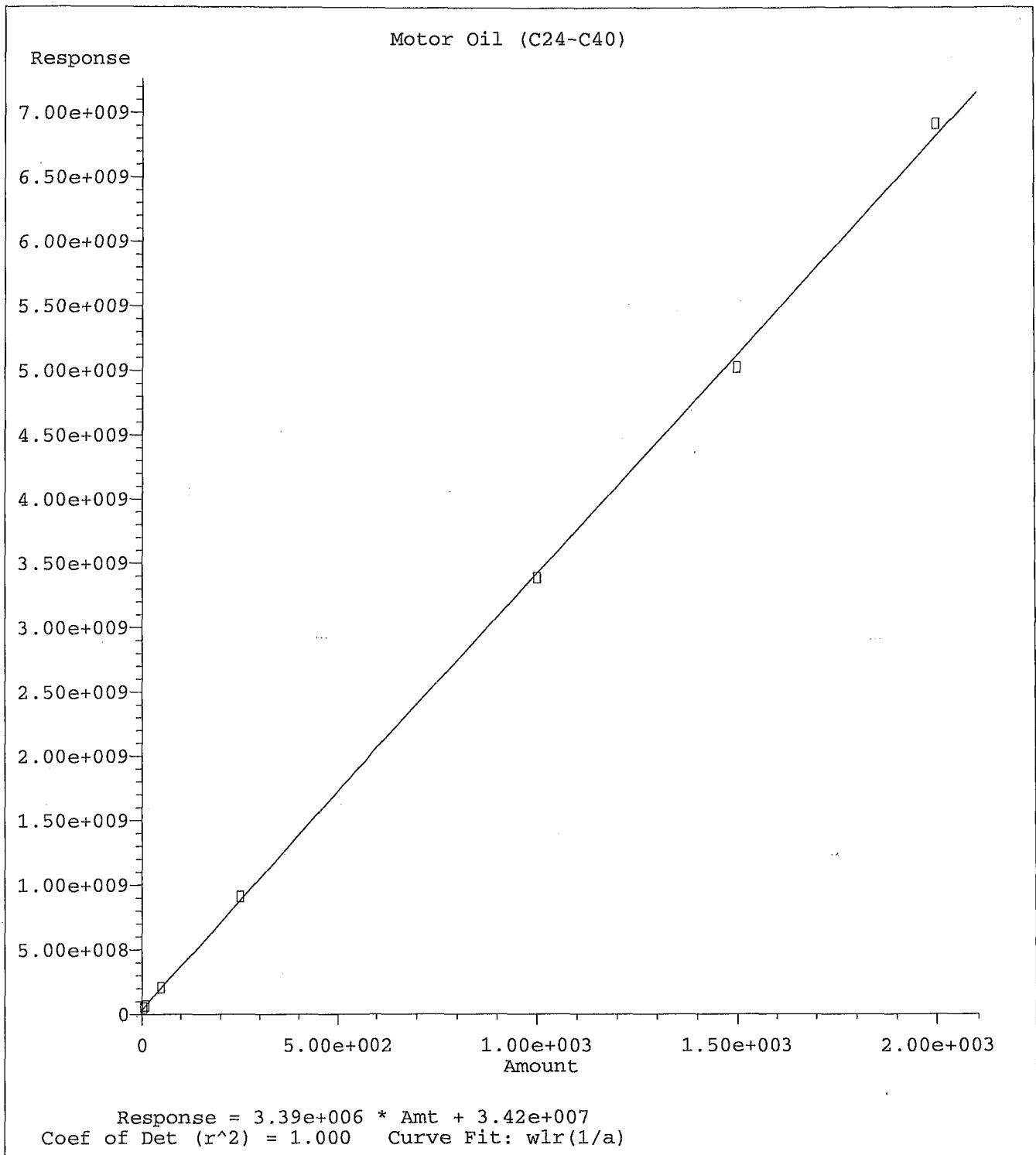
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.53	4250105	0.679 ppb
Surrogate Spike 30.000		Recovery =	2.26%
4) SA Octacosane(S)	9.83	-3553	N.D. ppb
Surrogate Spike 30.000		Recovery =	0.00%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	1133202337	225.139 ppb
2) HBTM Motor Oil (C24-C40)	14.96	831758038	235.148 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211028\1028010.D  
Sample : DMO Second Source 10/28/21





Method Name: G:\APOLLO\DATA\211028\DOC1028.M  
 Calibration Table Last Updated: Thu Oct 28 15:37:06 2021



TPH Extractables  
DEC0911

Form 6  
Initial Calibration

Lab Name: APPL, Inc.  
Case No: \_\_\_\_\_  
Matrix: Water

SDG No: \_\_\_\_\_  
Initial Cal. Date: 9/11/2021  
Instrument: Apollo

Initials: KA

911002.D    911003.D    911004.D    911005.D    911006.D    911007.D

	Compound	1	2	3	4	5	6					Avg	%RSD	Type	r <sup>2</sup>	Q
1	SC Decanoic Acid(S)	883995	1084261	1313446	1384667	1522107	1509937					1283069	20	SC		*
2																
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6																
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0.562142

Data File : G:\APOLLO\DATA\210911\911002.D Vial: 2  
 Acq On : 9-11-21 10:22:53 Operator: KA  
 Sample : Decanoic Acid STD 1 Inst : Apollo  
 Misc : water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Sep 13 9:30 2021 Quant Results File: DEC0911.RES

Method : G:\APOLLO\DATA\210808\DEC0911.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Mon Sep 13 09:30:16 2021  
 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)	5.77	5303968	2.067 ppb
Surrogate Spike 24.000		Recovery =	8.61%

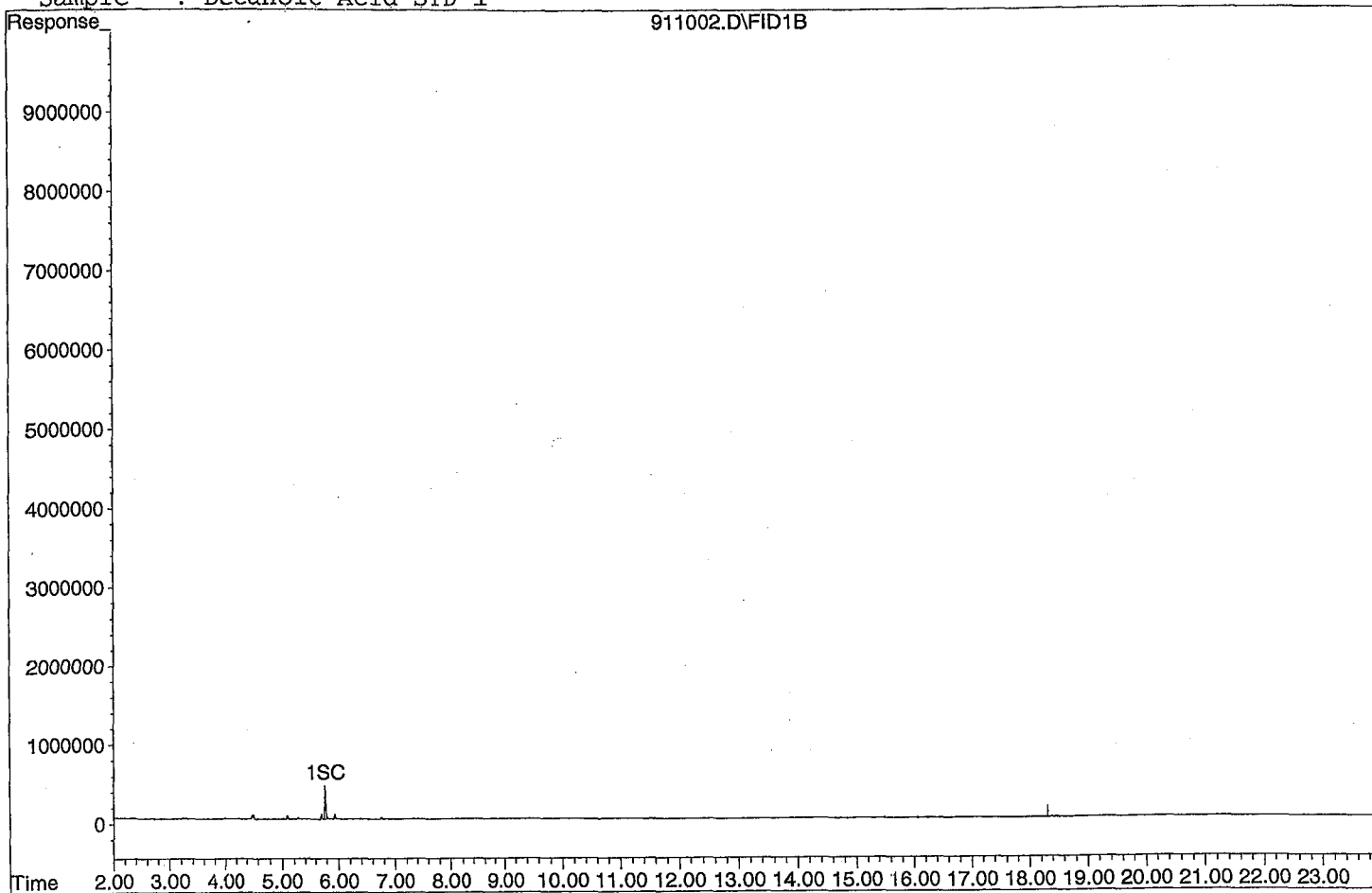
Target Compounds

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\210911\911002.D

Sample : Decanoic Acid STD 1



Data File : G:\APOLLO\DATA\210911\911003.D Vial: 3  
 Acq On : 9-11-21 10:51:11 Operator: KA  
 Sample : Decanoic Acid STD 2 Inst : Apollo  
 Misc : water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Sep 23 17:12 2021 Quant Results File: DEC0911.RES

Method : G:\APOLLO\DATA\210808\DEC0911.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Mon Sep 13 09:30:16 2021  
 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)	5.77	13011132	5.070 ppb
Surrogate Spike 24.000	Recovery	=	21.13%

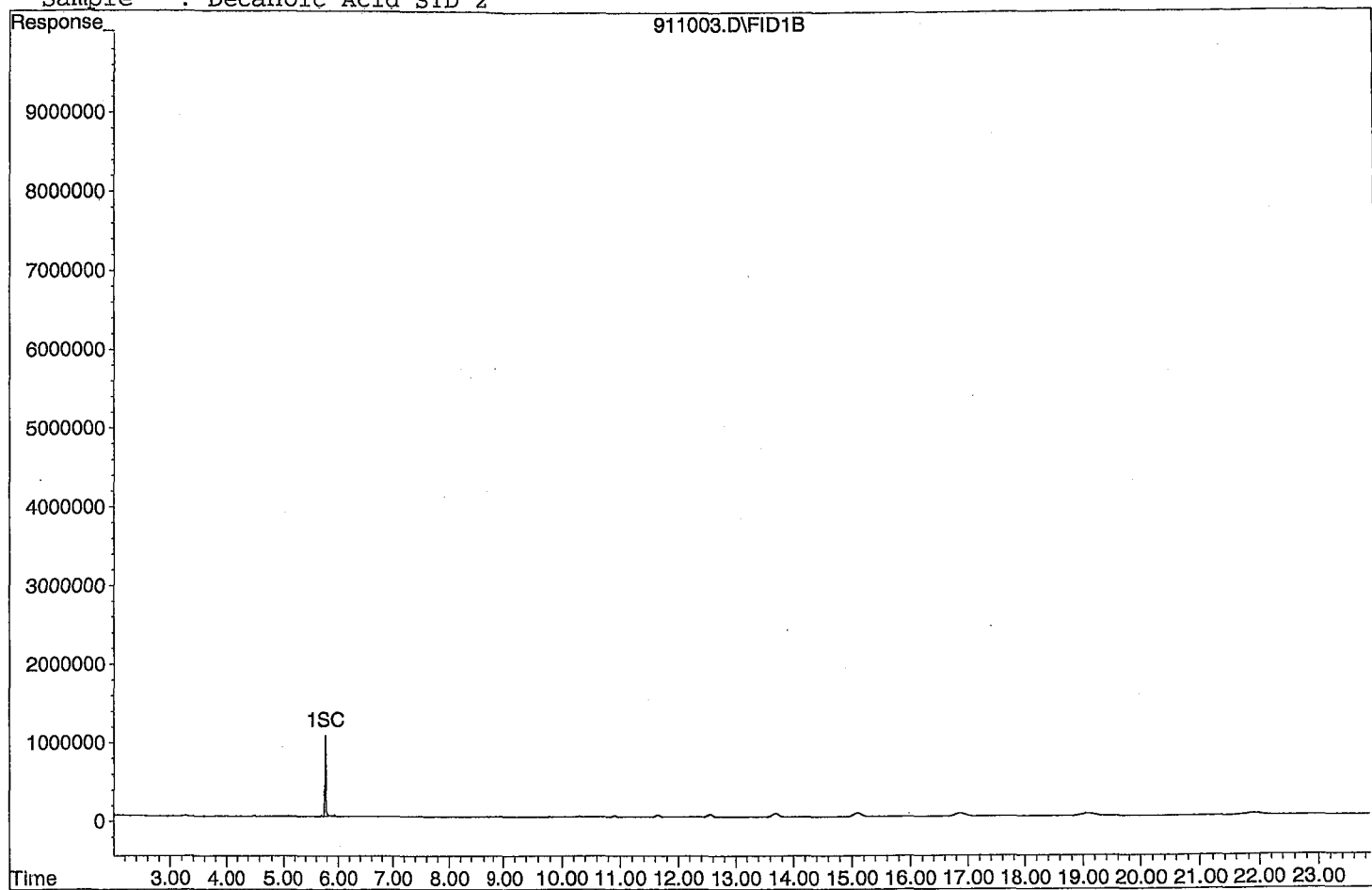
Target Compounds

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\210911\911003.D

Sample : Decanoic Acid STD 2



Data File : G:\APOLLO\DATA\210911\911004.D Vial: 4  
 Acq On : 9-11-21 11:19:39 Operator: KA  
 Sample : Decanoic Acid STD 3 Inst : Apollo  
 Misc : water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Sep 23 17:12 2021 Quant Results File: DEC0911.RES

Method : G:\APOLLO\DATA\210808\DEC0911.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Mon Sep 13 09:30:16 2021  
 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)	5.79	63045408	24.568 ppb
Surrogate Spike 24.000		Recovery =	102.37%

Target Compounds

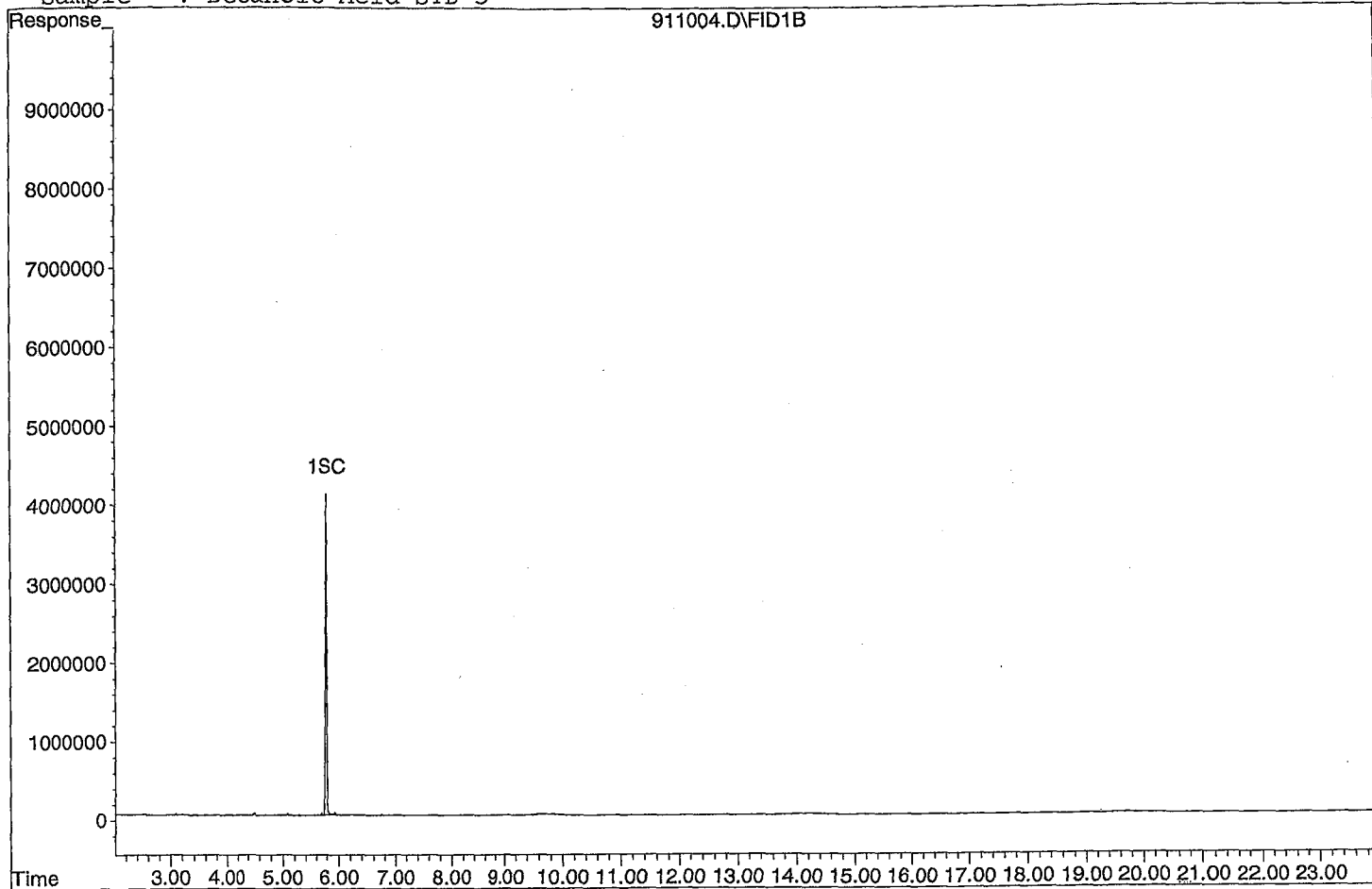
Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\210911\911004.D

Sample : Decanoic Acid STD 3

911004.D\FID1B



Data File : G:\APOLLO\DATA\210911\911005.D Vial: 5  
 Acq On : 9-11-21 11:48:04 Operator: KA  
 Sample : Decanoic Acid STD 4 Inst : Apollo  
 Misc : water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Sep 23 17:12 2021 Quant Results File: DEC0911.RES

Method : G:\APOLLO\DATA\210808\DEC0911.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Mon Sep 13 09:30:16 2021  
 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)	5.80	99696015	38.851 ppb
Surrogate Spike 24.000	Recovery	=	161.88%

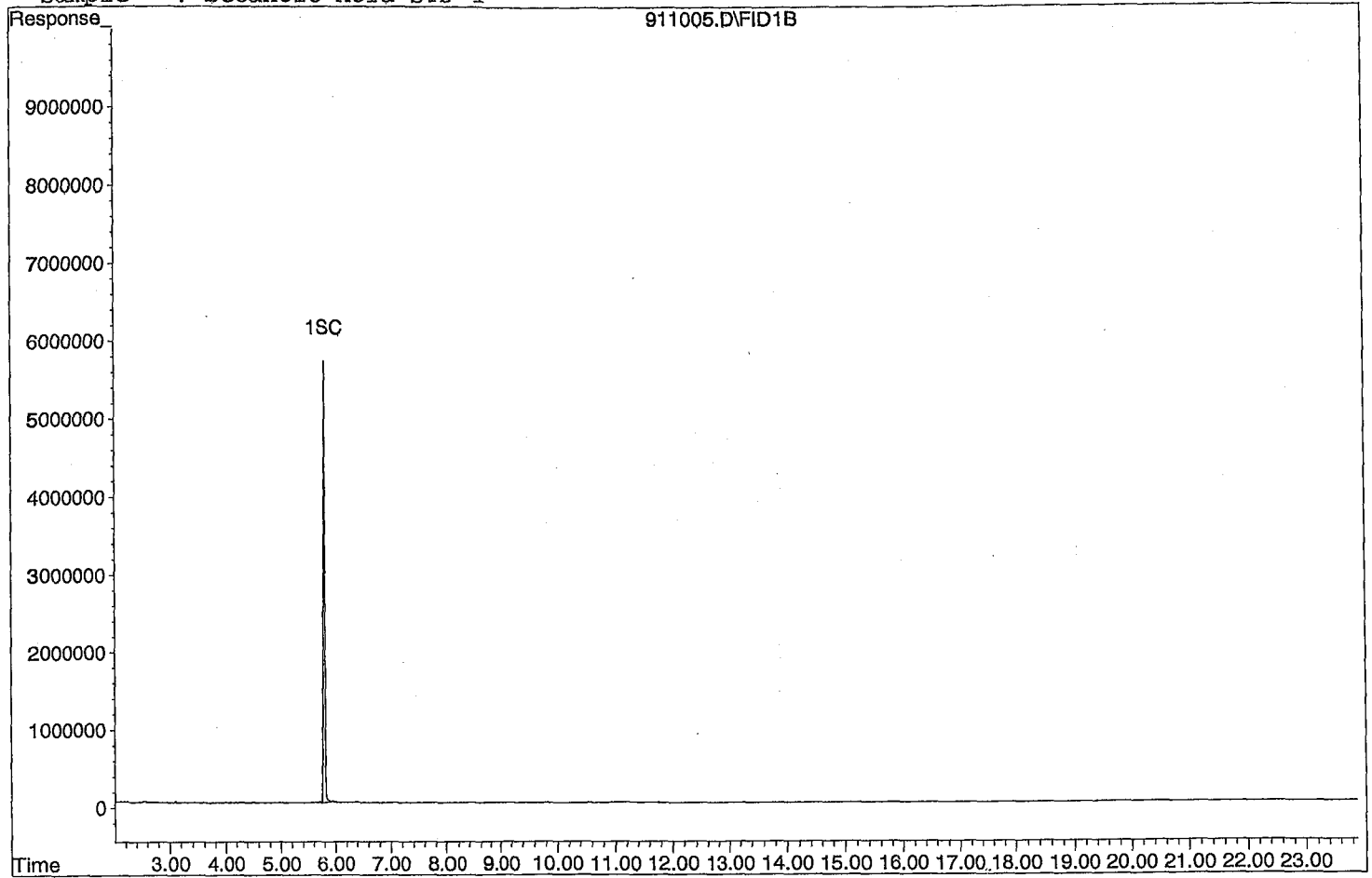
Target Compounds

Target Compounds



Quantitation Report

Data File: G:\APOLLO\DATA\210911\911005.D  
Sample : Decanoic Acid STD 4



Data File : G:\APOLLO\DATA\210911\911006.D Vial: 6  
 Acq On : 9-11-21 12:16:37 Operator: KA  
 Sample : Decanoic Acid STD 5 Inst : Apollo  
 Misc : water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Sep 23 17:12 2021 Quant Results File: DEC0911.RES

Method : G:\APOLLO\DATA\210808\DEC0911.M (Chemstation Integrator)  
 Title : 8Q15 B&C  
 Last Update : Mon Sep 13 09:30:16 2021  
 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)	5.81	146122260	56.942 ppb
Surrogate Spike 24.000		Recovery =	237.26%

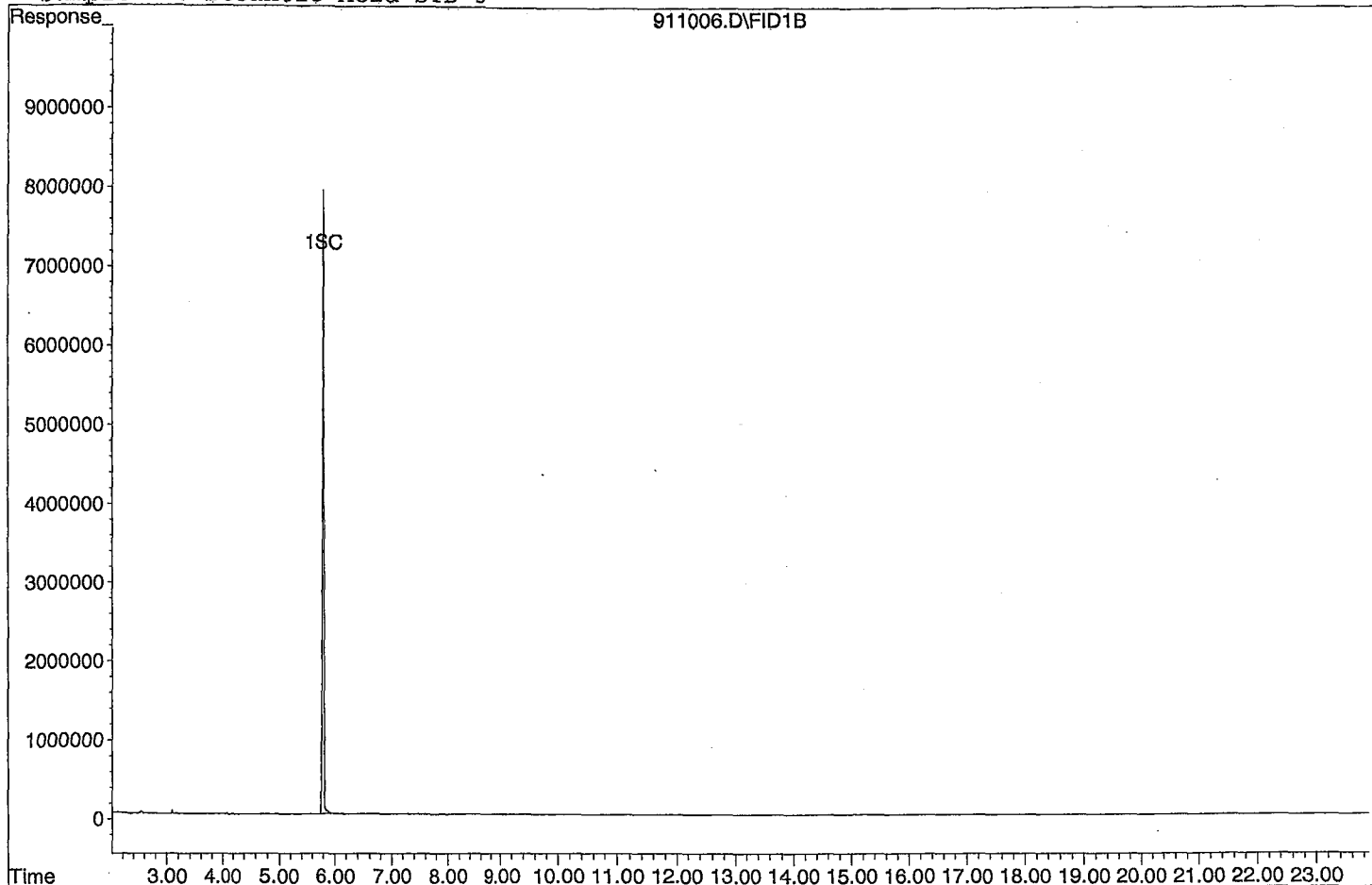
Target Compounds

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\210911\911006.D

Sample : Decanoic Acid STD 5



Data File : G:\APOLLO\DATA\210911\911007.D Vial: 7  
 Acq On : 9-11-21 12:45:02 Operator: KA  
 Sample : Decanoic Acid STD 6 Inst : Apollo  
 Misc : water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Sep 23 17:12 2021 Quant Results File: DEC0911.RES

Method : G:\APOLLO\DATA\210808\DEC0911.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Mon Sep 13 09:30:16 2021  
 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

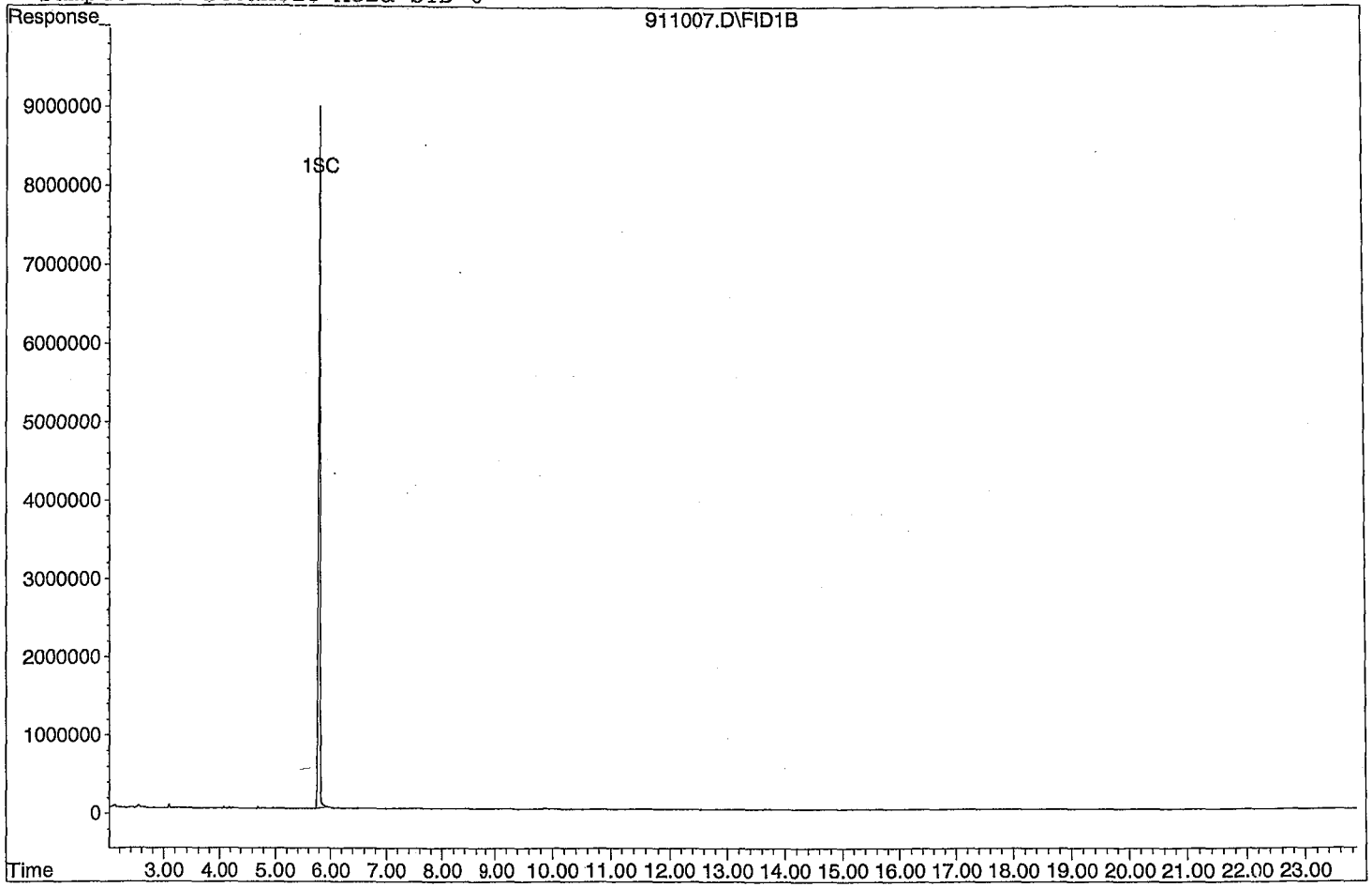
1) SC Decanoic Acid(S)	5.81	181192435	70.609 ppb
Surrogate Spike 24.000		Recovery =	294.20%

Target Compounds

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\210911\911007.D  
Sample : Decanoic Acid STD 6



TPH Extractables  
DOC1028

Form 7

Continuing Calibration

Lab Name: APPL, Inc.  
Case No: \_\_\_\_\_  
Matrix: Water

SDG No: \_\_\_\_\_  
Date Analyzed: 12/4/2021  
Instrument: Apollo  
Initial Cal. Date: 10/28/2021  
Data File: 1202082.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C24)	2516670	2650660	5.3	HATM	
2	HBTM	Motor Oil (C24-C40)	2492040	1889600	24	HBTML	10
3	SA	Ortho-Terphenyl(S)	3127510	2369560	24	SA	*
4	SA	Octacosane(S)	2261430	2423210	7.2	SA	
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
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28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40		Average			15.1		

Data File : G:\APOLLO\DATA\211202\1202082.D Vial: 82  
 Acq On : 12-4-21 4:18:20 Operator: KA  
 Sample : DMO STD DF2 10/06/21 Inst : Apollo  
 Misc : water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Dec 6 7:57 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211202\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Fri Dec 03 08:22:29 2021  
 Response via : Multiple Level Calibration

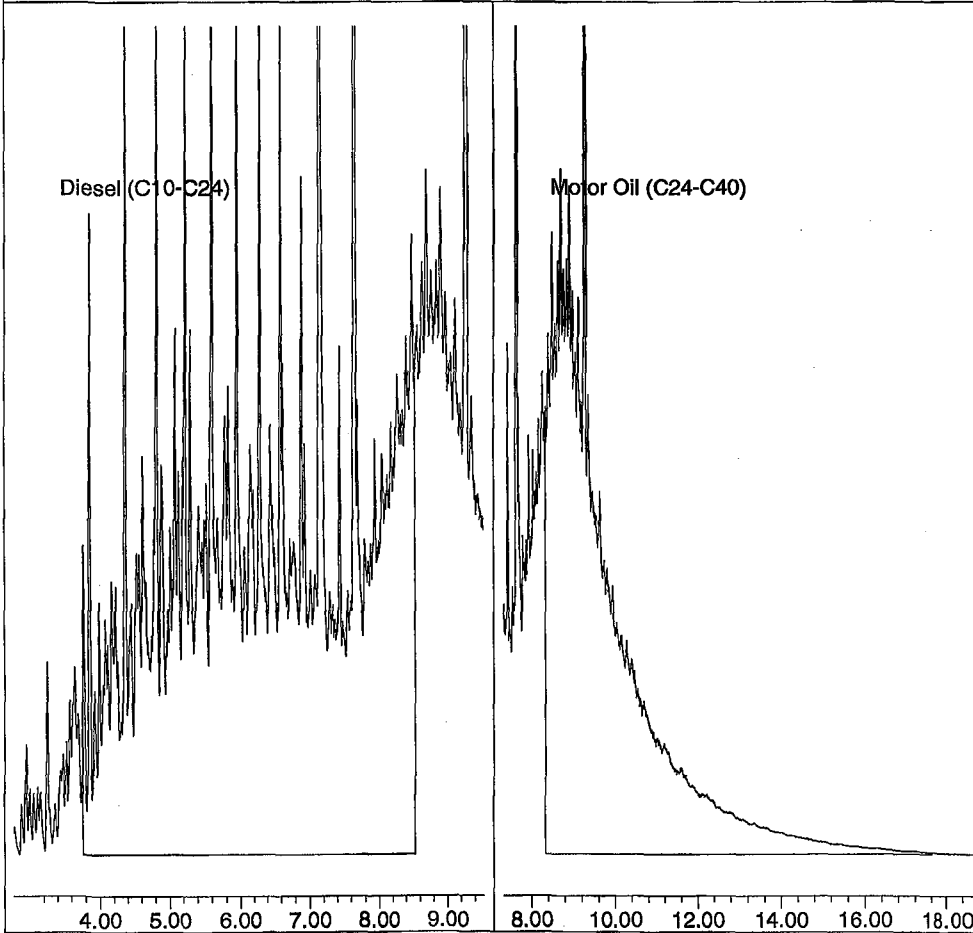
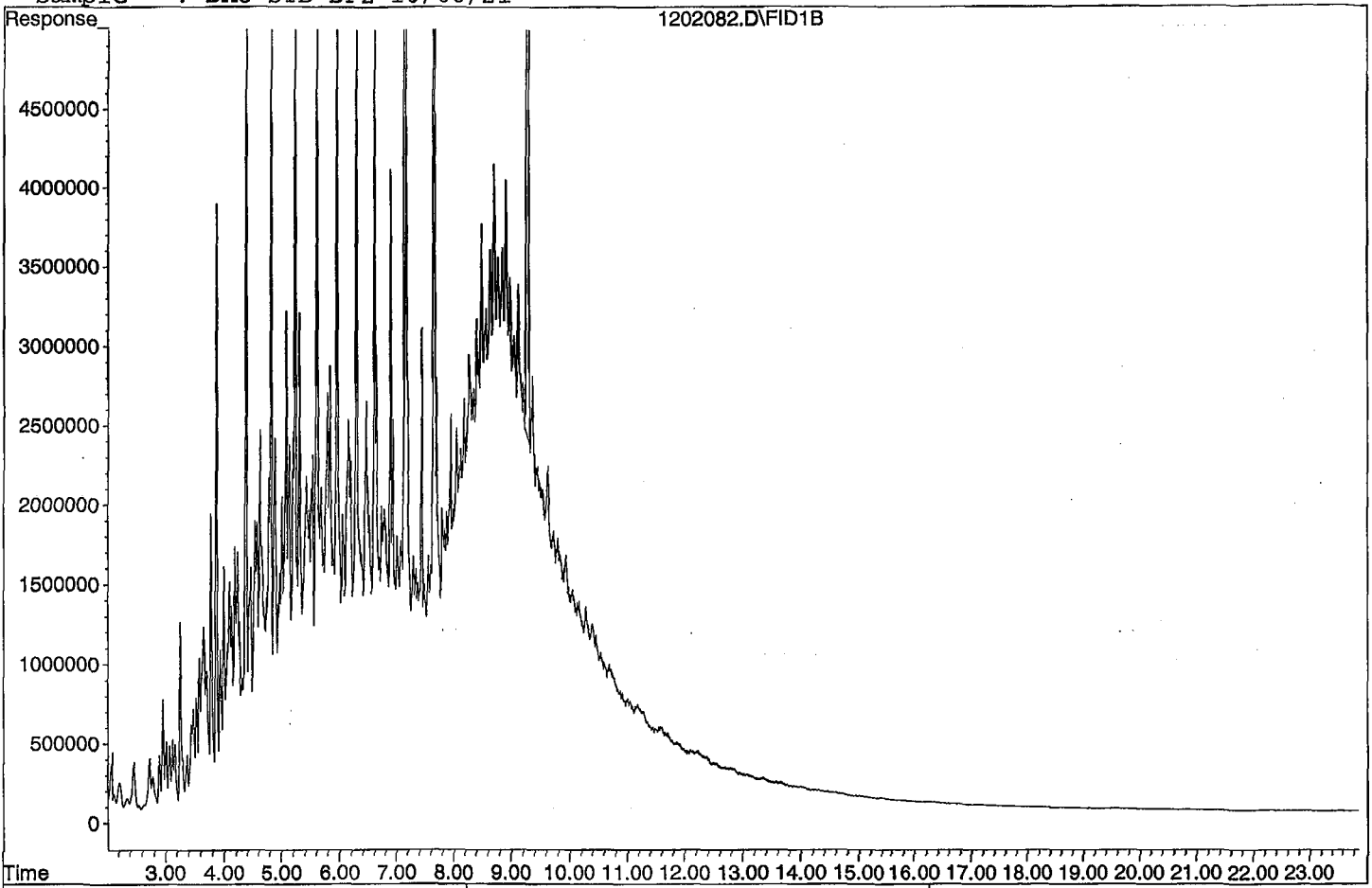
Volume Inj. : 2UL  
 Signal Phase : DB-5  
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
<b>System Monitoring Compounds</b>			
3) SA Ortho-Terphenyl(S)	7.14	236955522	37.883 ppb
Surrogate Spike 30.000		Recovery =	126.28%
4) SA Octacosane(S)	9.27	242321243	53.577 ppb
Surrogate Spike 30.000		Recovery =	178.59%
<b>Target Compounds</b>			
1) .HATM Diesel (C10-C24)	6.15	5301313117	1053.240 ppb
2) HBTM Motor Oil (C24-C40)	12.97	3779207381	1104.127 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211202\1202082.D  
Sample : DMO STD DF2 10/06/21





TPH Extractables  
DEC0911

Form 7  
Continuing Calibration

Lab Name: APPL, Inc.  
Case No: \_\_\_\_\_  
Matrix: Water

SDG No: \_\_\_\_\_  
Date Analyzed: 12/4/2021  
Instrument: Apollo  
Initial Cal. Date: 9/11/2021  
Data File: 1202083.D

		Compound	MEAN	CCRF	%D	%Drift
1	SC	Decanoic Acid(S)	1283070	1358940	5.9	SC
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
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36						
37						
38						
39						
40		Average			5.9	

Data File : G:\APOLLO\DATA\211202\1202083.D Vial: 83  
 Acq On : 12-4-21 4:46:28 Operator: KA  
 Sample : Decanoic Acid CCV 11/05/21 Inst : Apollo  
 Misc : water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Dec 6 7:58 2021 Quant Results File: DEC0911.RES

Method : G:\APOLLO\DATA\211202\DEC0911.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Wed Dec 22 10:59:27 2021  
 Response via : Multiple Level Calibration

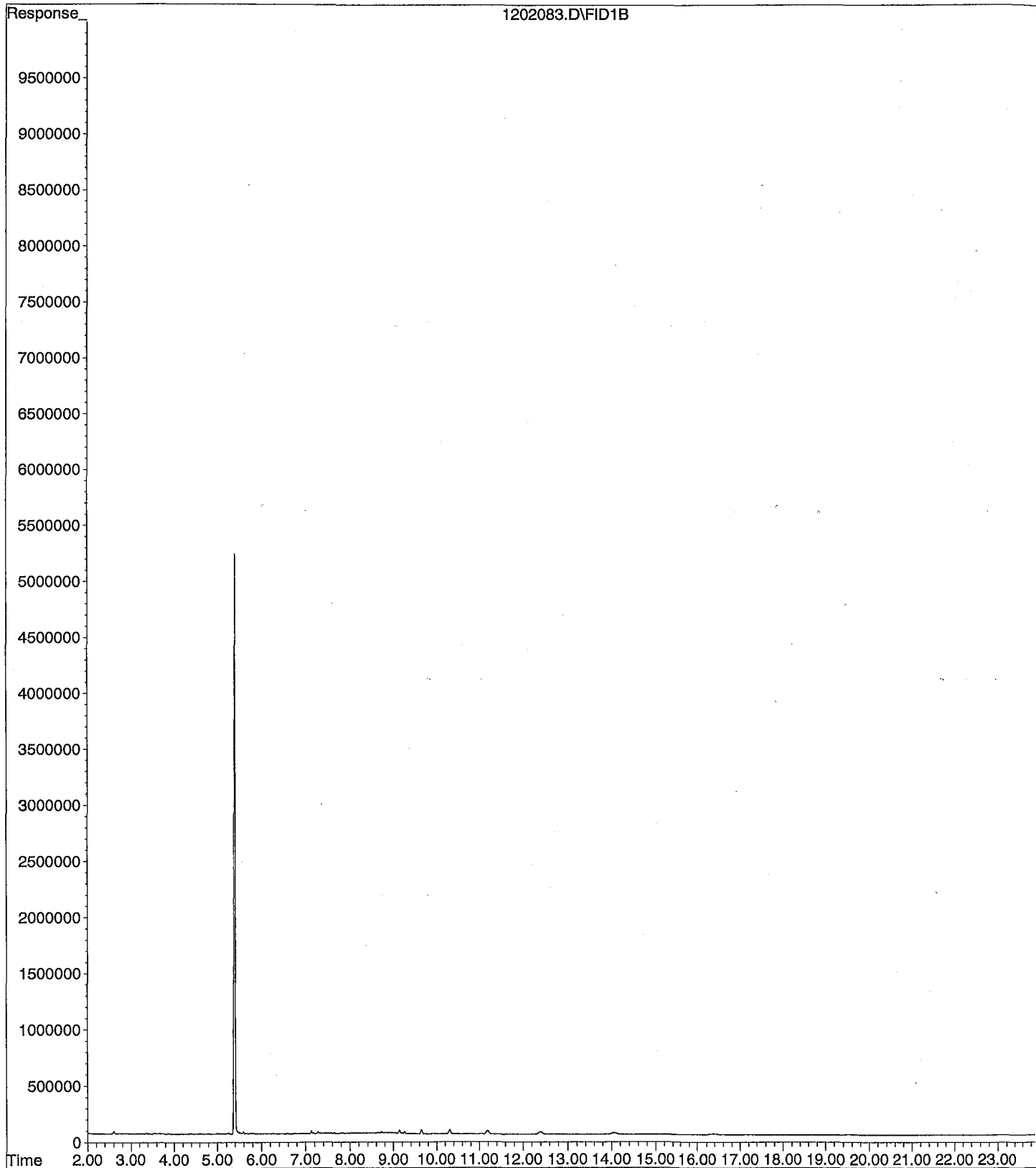
Volume Inj. : 2UL  
 Signal Phase : DB-5  
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
1) SC Decanoic Acid(S)	5.40	97843608	38.129 ppb
Surrogate Spike 24.000		Recovery =	158.87%

Target Compounds .

Target Compounds

File : G:\APOLLO\DATA\211202\1202083.D  
Operator : KA  
Acquired : 12-4-21 4:46:28 using AcqMethod TPHSN.M  
Instrument : Apollo  
Sample Name: Decanoic Acid CCV 11/05/21  
Misc Info : water  
Vial Number: 83



TPH Extractables  
DOC1028

Form 7  
Continuing Calibration

Lab Name: APPL, Inc.  
Case No: \_\_\_\_\_  
Matrix: Water

SDG No: \_\_\_\_\_  
Date Analyzed: 12/4/2021  
Instrument: Apollo  
Initial Cal. Date: 10/28/2021  
Data File: 1202097.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C24)	2516670	2648400	5.2	HATM	
2	HBTM	Motor Oil (C24-C40)	2492040	1889330	24	HBTML	10
3	SA	Ortho-Terphenyl(S)	3127510	2674320	14	SA	
4	SA	Octacosane(S)	2261430	2384620	5.4	SA	
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37							
38							
39							
40		Average			12.2		

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211202\1202097.D Vial: 97  
 Acq On : 12-4-21 11:20:18 Operator: KA  
 Sample : DMO STD DF2 10/06/21 Inst : Apollo  
 Misc : water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Dec 4 13:58 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211202\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Fri Dec 03 08:22:29 2021  
 Response via : Multiple Level Calibration

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

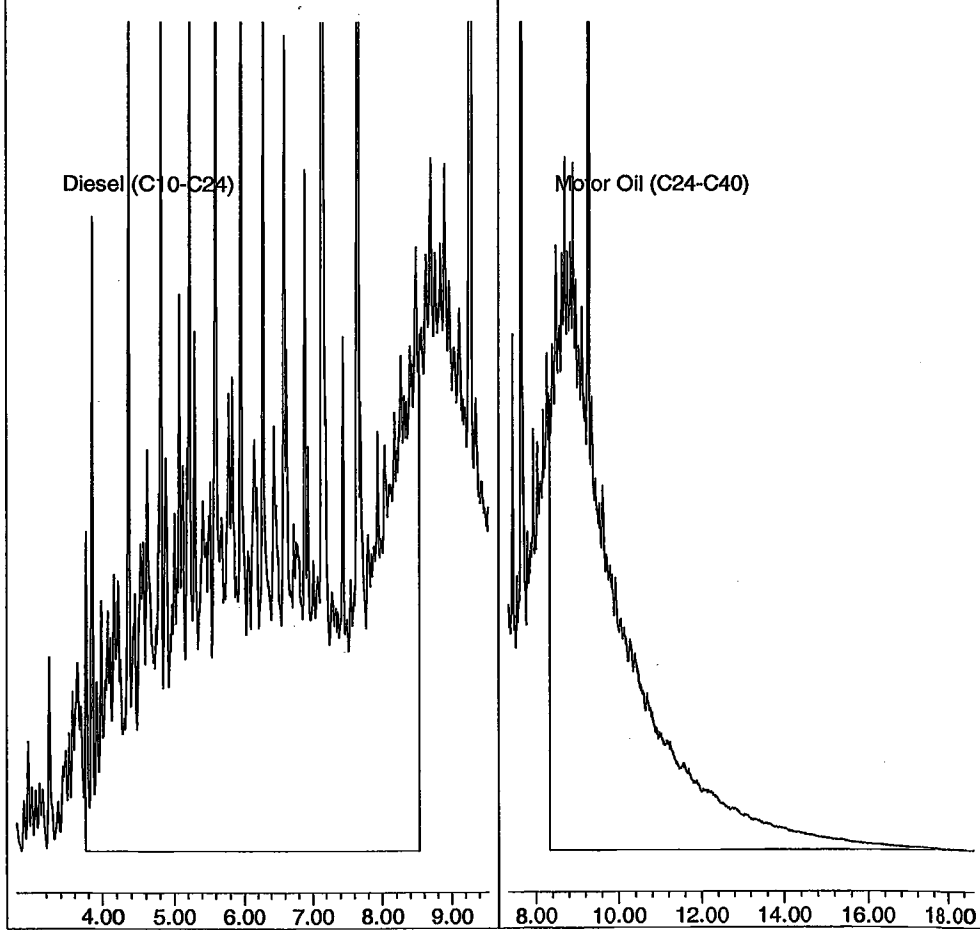
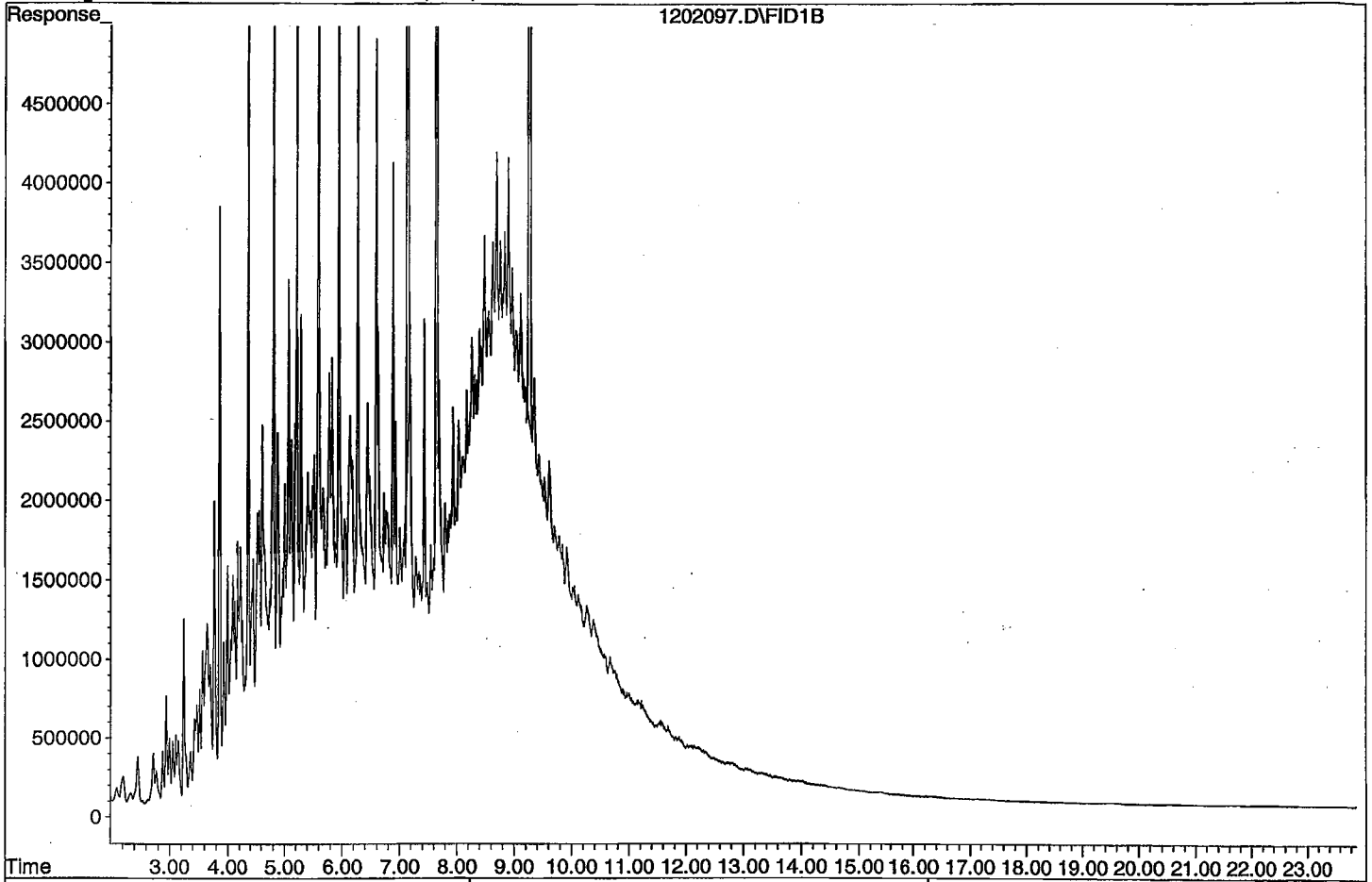
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.14	267431538	42.755 ppb
Surrogate Spike 30.000		Recovery =	142.52%
4) SA Octacosane(S)	9.27	238462222	52.724 ppb
Surrogate Spike 30.000		Recovery =	175.75%
Target Compounds			
1) HATM Diesel (C10-C24)	6.15	5296797192	1052.343 ppb
2) HBTM Motor Oil (C24-C40)	12.97	3778660623	1103.966 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211202\1202097.D

Sample : DMO STD DF2 10/06/21



TPH Extractables  
DEC0911

Form 7  
Continuing Calibration

Lab Name: APPL, Inc.  
Case No: \_\_\_\_\_  
Matrix: Water

SDG No: \_\_\_\_\_  
Date Analyzed: 12/4/2021  
Instrument: Apollo  
Initial Cal. Date: 9/11/2021  
Data File: 1202098.D

		Compound	MEAN	CCRF	%D	%Drift
1	SC	Decanoic Acid(S)	1283070	1317660	2.7	SC
2						
3						
4						
5						
6						
7						
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39						
40		Average			2.7	

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211202\1202098.D Vial: 98  
 Acq On : 12-4-21 11:48:27 Operator: KA  
 Sample : Decanoic Acid CCV 11/05/21 Inst : Apollo  
 Misc : water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Dec 7 12:53 2021 Quant Results File: DEC0911.RES

Method : G:\APOLLO\DATA\211202\DEC0911.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Wed Dec 22 10:59:27 2021  
 Response via : Multiple Level Calibration

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

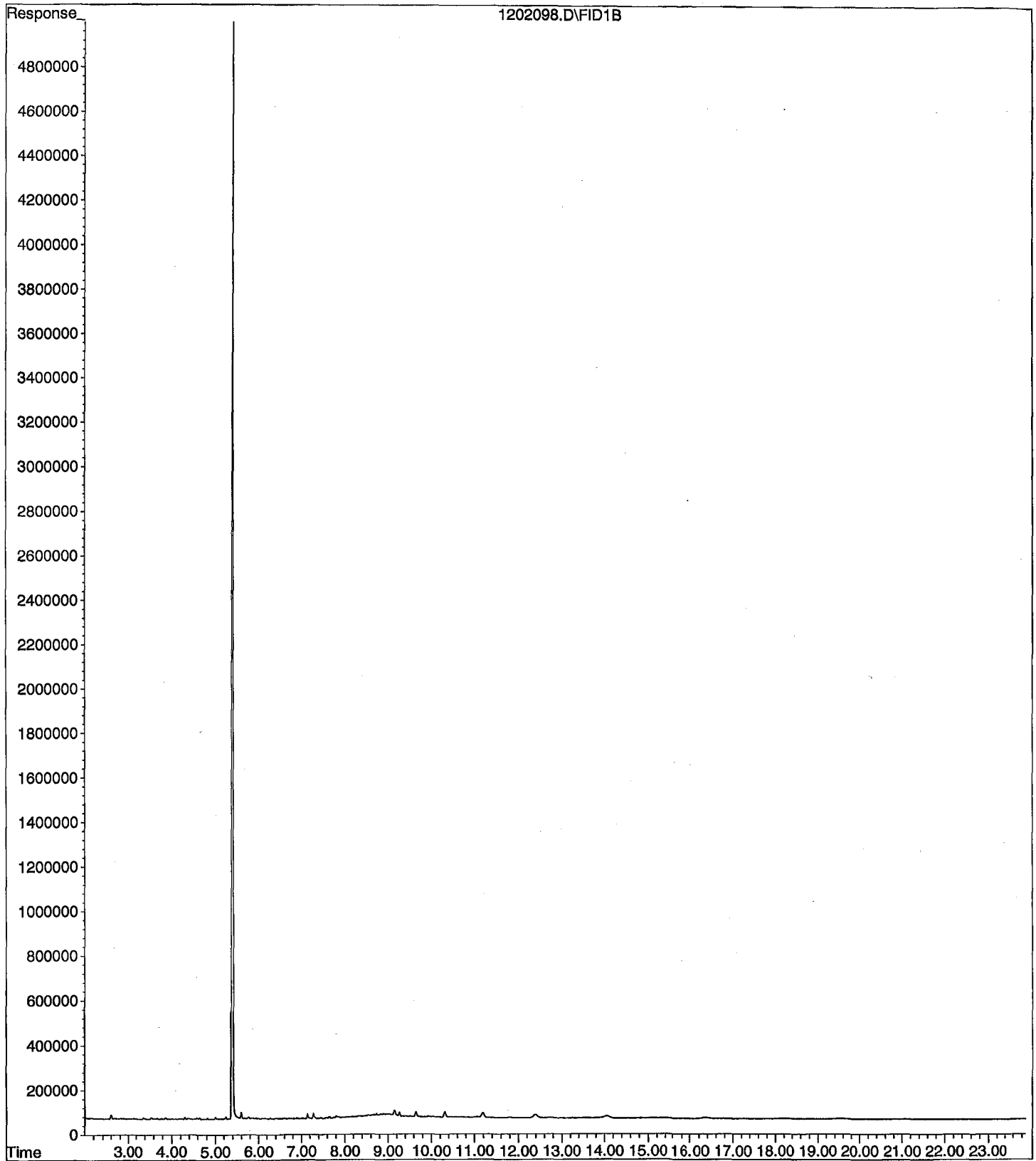
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) SC Decanoic Acid(S)	5.40	94871319	36.970 ppb
Surrogate Spike 24.000		Recovery =	154.04%

Target Compounds

Target Compounds



File : G:\APOLLO\DATA\211202\1202098.D  
Operator : KA  
Acquired : 12-4-21 11:48:27 using AcqMethod TPHSN.M  
Instrument : Apollo  
Sample Name: Decanoic Acid CCV 11/05/21  
Misc Info : water  
Vial Number: 98



**ORGANICS**  
**Raw Data**

Data File : G:\APOLLO\DATA\211202\1202091.D Vial: 91  
 Acq On : 12-4-21 8:31:33 Operator: KA  
 Sample : BA46979W09 5/1030 SG Inst : Apollo  
 Misc : water Multiplr: 4.85  
 IntFile : events.e  
 Quant Time: Dec 11 20:11 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211202\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Fri Dec 03 08:22:29 2021  
 Response via : Multiple Level Calibration

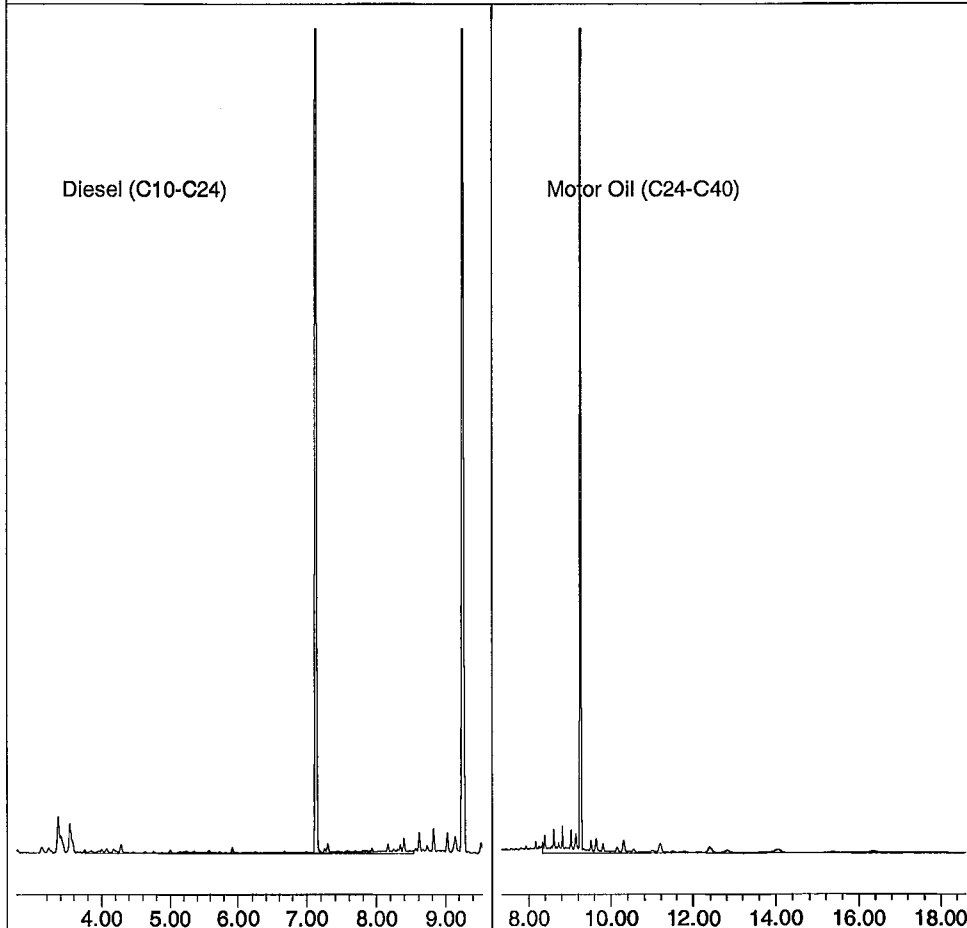
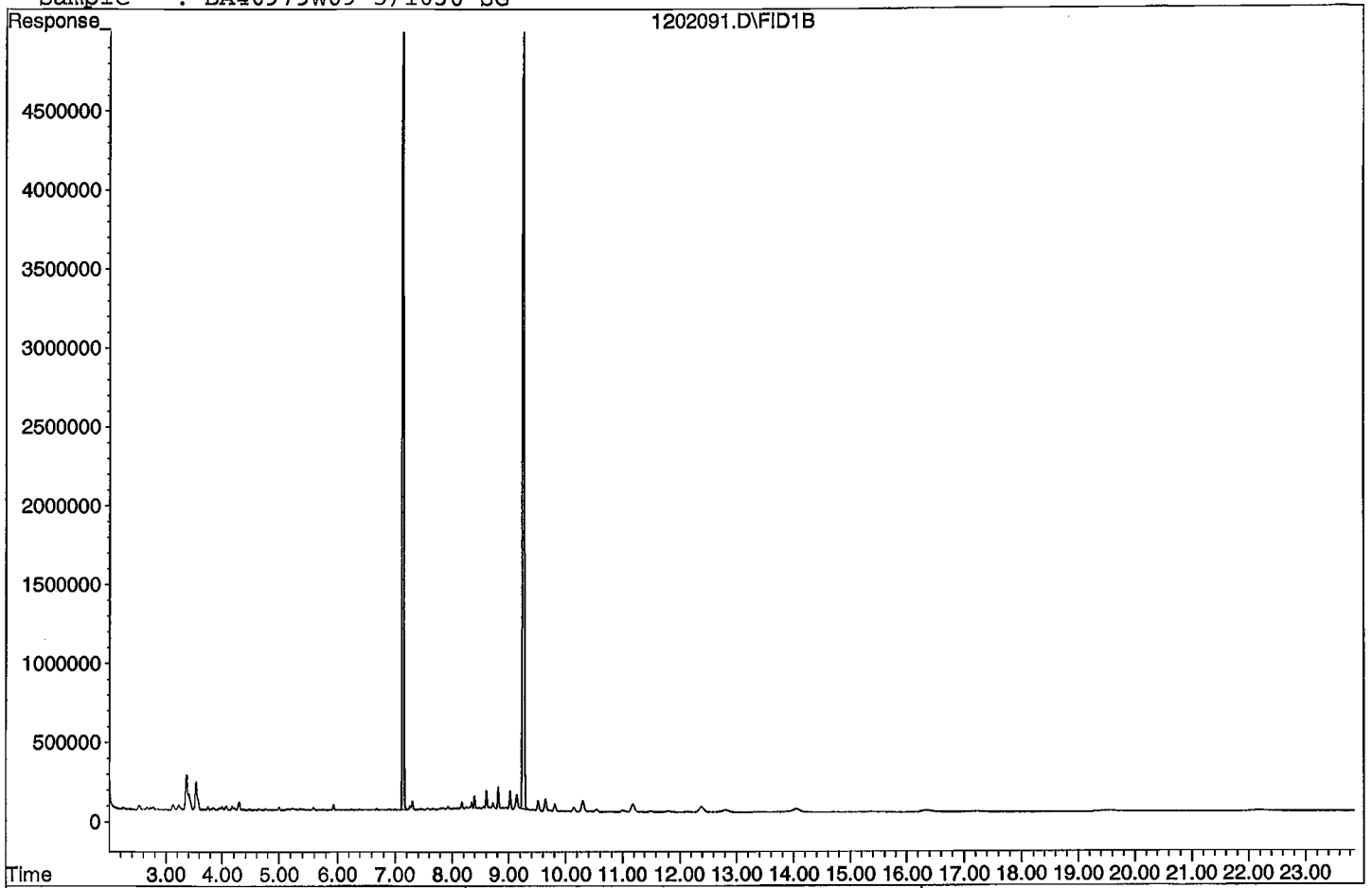
Volume Inj. : 2UL  
 Signal Phase : DB-5  
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.13	119061934	92.401 ppb
Surrogate Spike 145.631		Recovery =	63.45%
4) SA Octacosane(S)	9.26	114022006	122.380 ppb
Surrogate Spike 145.631		Recovery =	84.03%
Target Compounds			
1) HATM Diesel (C10-C24)	6.15	26655185	25.707 ppb
2) HBTM Motor Oil (C24-C40)	12.97	66888241	46.824 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211202\1202091.D  
Sample : BA46979W09 5/1030 SG



Data File : G:\APOLLO\DATA\211202\1202092.D Vial: 92  
 Acq On : 12-4-21 8:59:40 Operator: KA  
 Sample : BA46981W09 5/1040 SG Inst : Apollo  
 Misc : water Multiplr: 4.81  
 IntFile : events.e  
 Quant Time: Dec 11 20:11 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211202\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Fri Dec 03 08:22:29 2021  
 Response via : Multiple Level Calibration

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

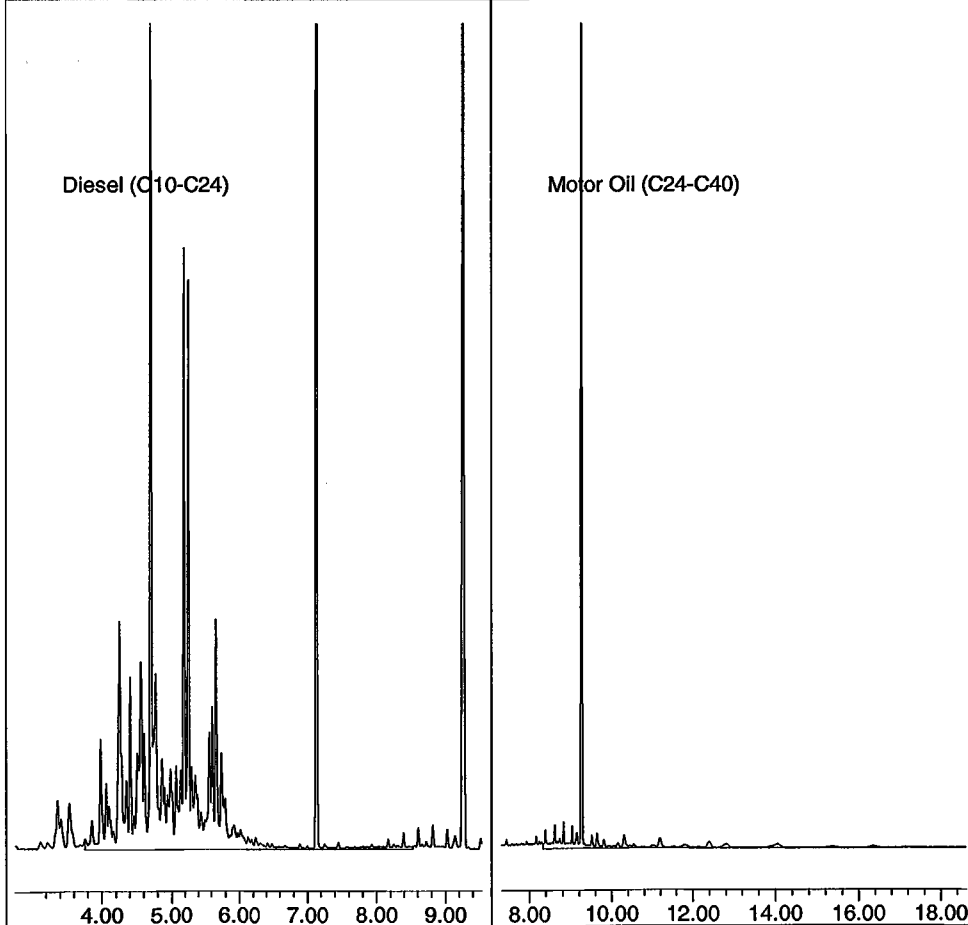
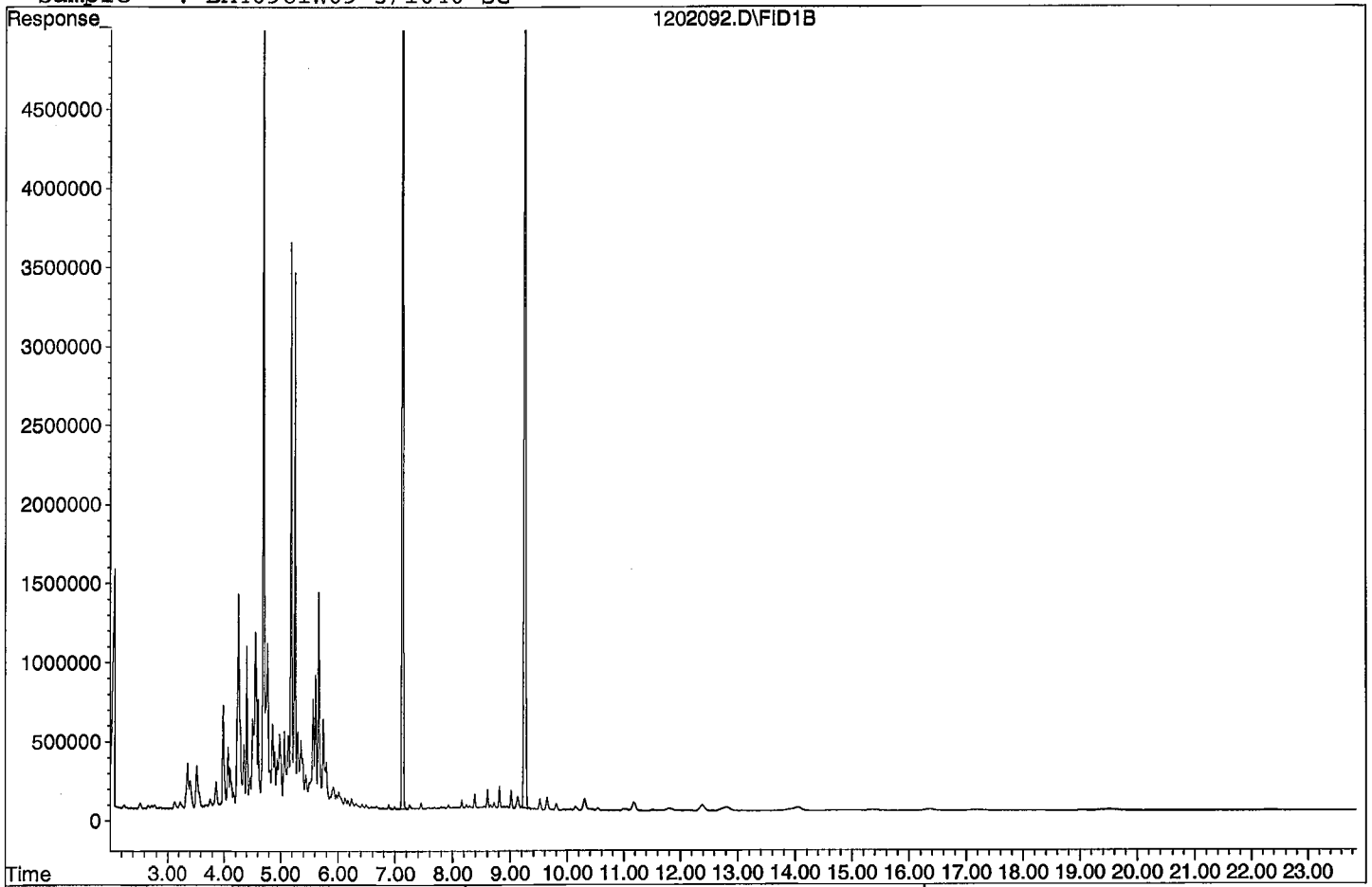
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.13	118515959	91.093 ppb
Surrogate Spike 144.231		Recovery =	63.16%
4) SA Octacosane(S)	9.26	117328239	124.717 ppb
Surrogate Spike 144.231		Recovery =	86.47%
Target Compounds			
1) HATM Diesel (C10-C24)	6.15	591764039	565.235 ppb
2) HBTM Motor Oil (C24-C40)	12.97	67696344	47.519 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211202\1202092.D

Sample : BA46981W09 5/1040 SG



Data File : G:\APOLLO\DATA\211202\1202093.D Vial: 93  
 Acq On : 12-4-21 9:27:47 Operator: KA  
 Sample : BA46983W09 5/1030 SG Inst : Apollo  
 Misc : water Multiplr: 4.85  
 IntFile : events.e  
 Quant Time: Dec 11 20:12 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211202\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Fri Dec 03 08:22:29 2021  
 Response via : Multiple Level Calibration

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

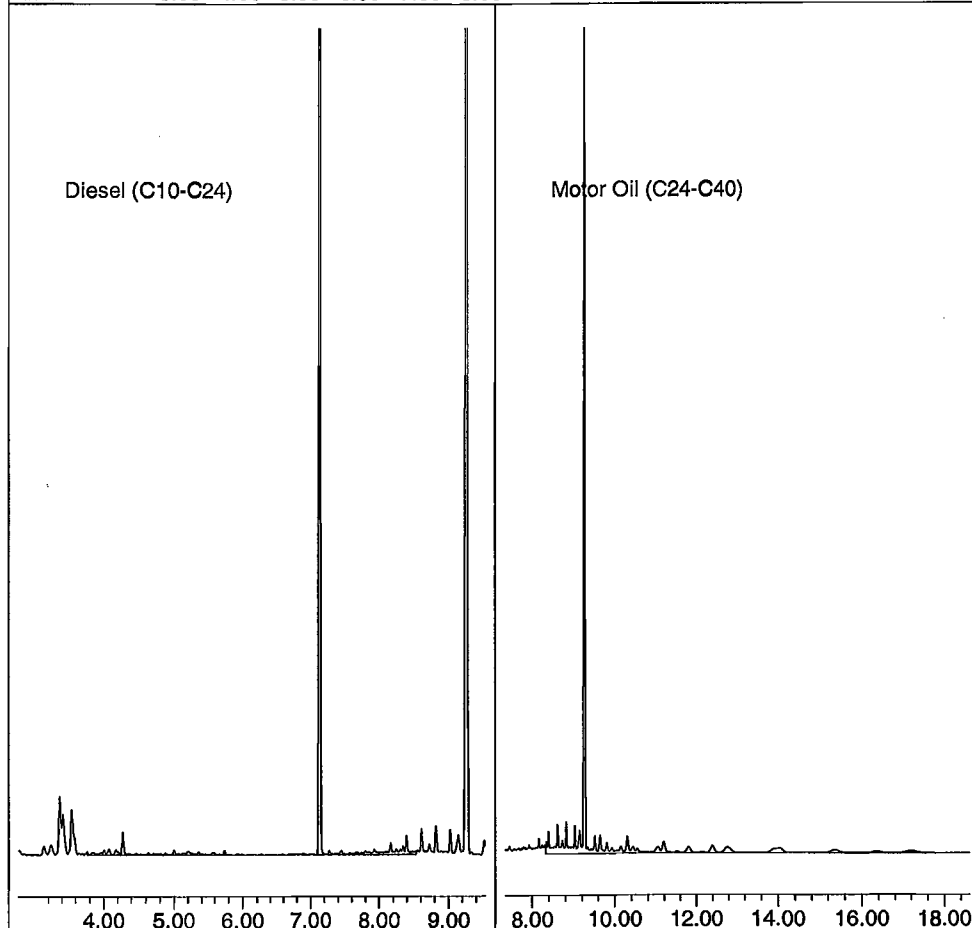
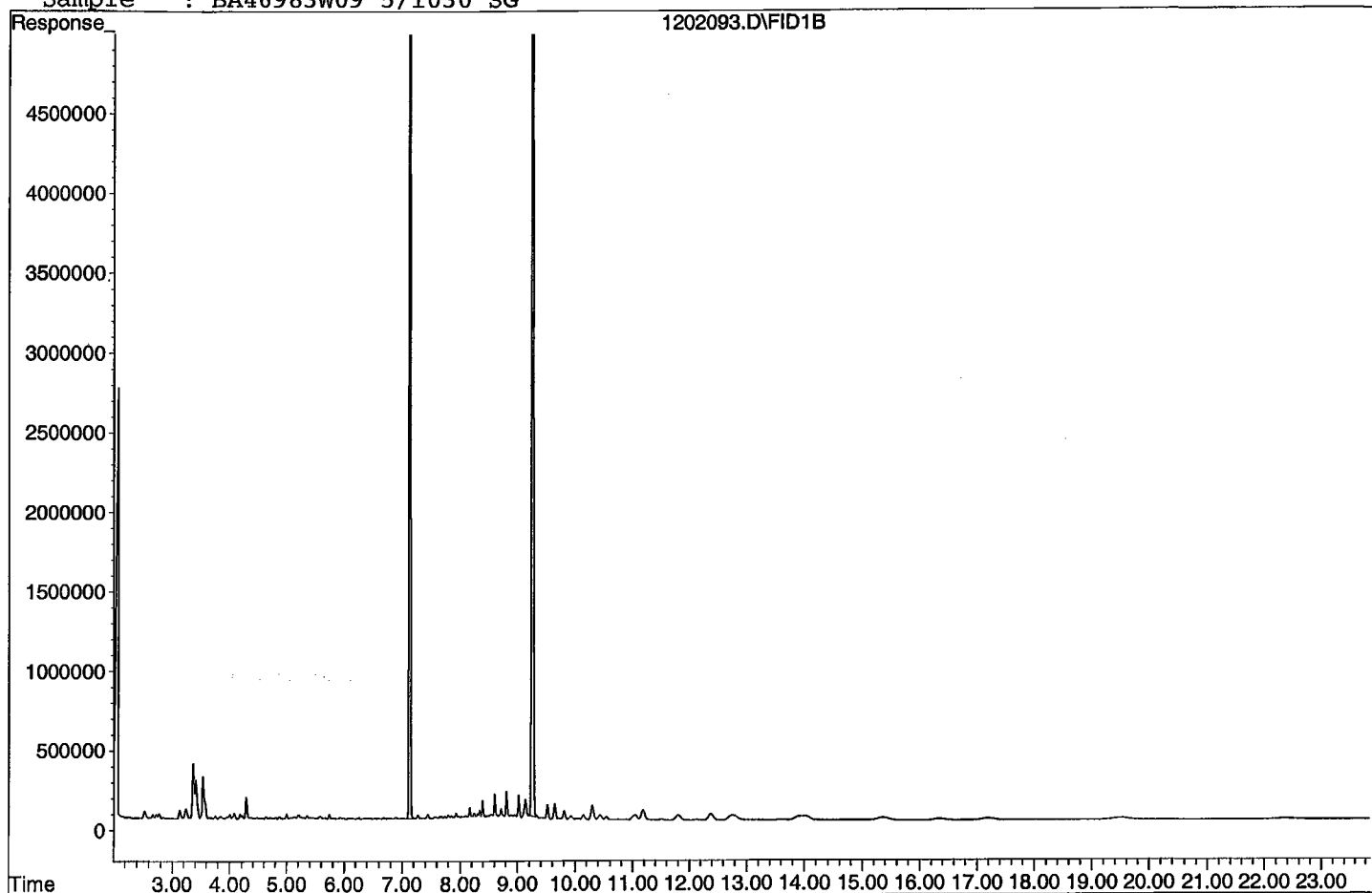
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.13	158398602	122.930 ppb
Surrogate Spike 145.631		Recovery =	84.41%
4) SA Octacosane(S)	9.26	153169858	164.397 ppb
Surrogate Spike 145.631		Recovery =	112.89%
Target Compounds			
1) HATM Diesel (C10-C24)	6.15	29014879	27.983 ppb
2) HBTM Motor Oil (C24-C40)	12.97	94046143	85.692 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211202\1202093.D

Sample : BA46983W09 5/1030 SG





Data File : G:\APOLLO\DATA\211202\1202094.D Vial: 94  
 Acq On : 12-4-21 9:55:55 Operator: KA  
 Sample : BA46985W09 5/1030 SG Inst : Apollo  
 Misc : water Multiplr: 4.85  
 IntFile : events.e  
 Quant Time: Dec 11 20:12 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211202\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Fri Dec 03 08:22:29 2021  
 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)	7.13	170498289	132.320 ppb
Surrogate Spike 145.631		Recovery =	90.86%
4) SA Octacosane(S)	9.26	164748391	176.824 ppb
Surrogate Spike 145.631		Recovery =	121.42%
Target Compounds			
1) HATM Diesel (C10-C24)	6.15	120613662	116.325 ppb
2) HBTM Motor Oil (C24-C40)	12.97	93394065	84.759 ppb

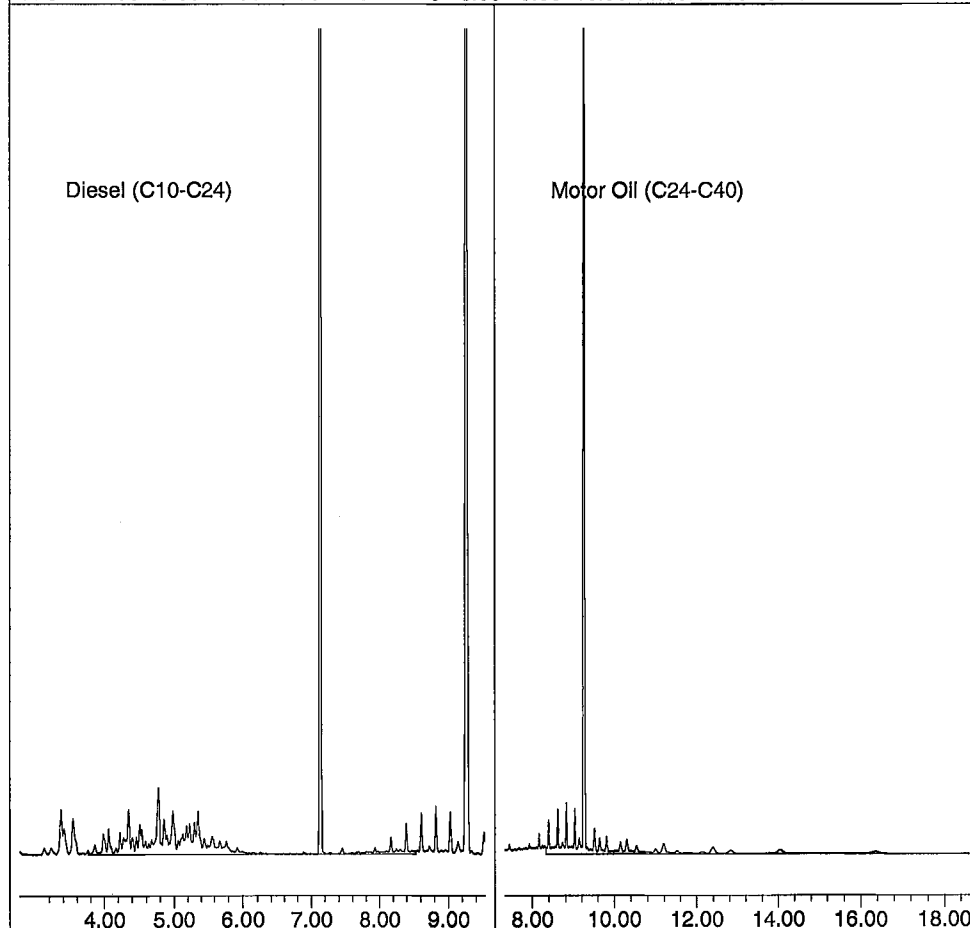
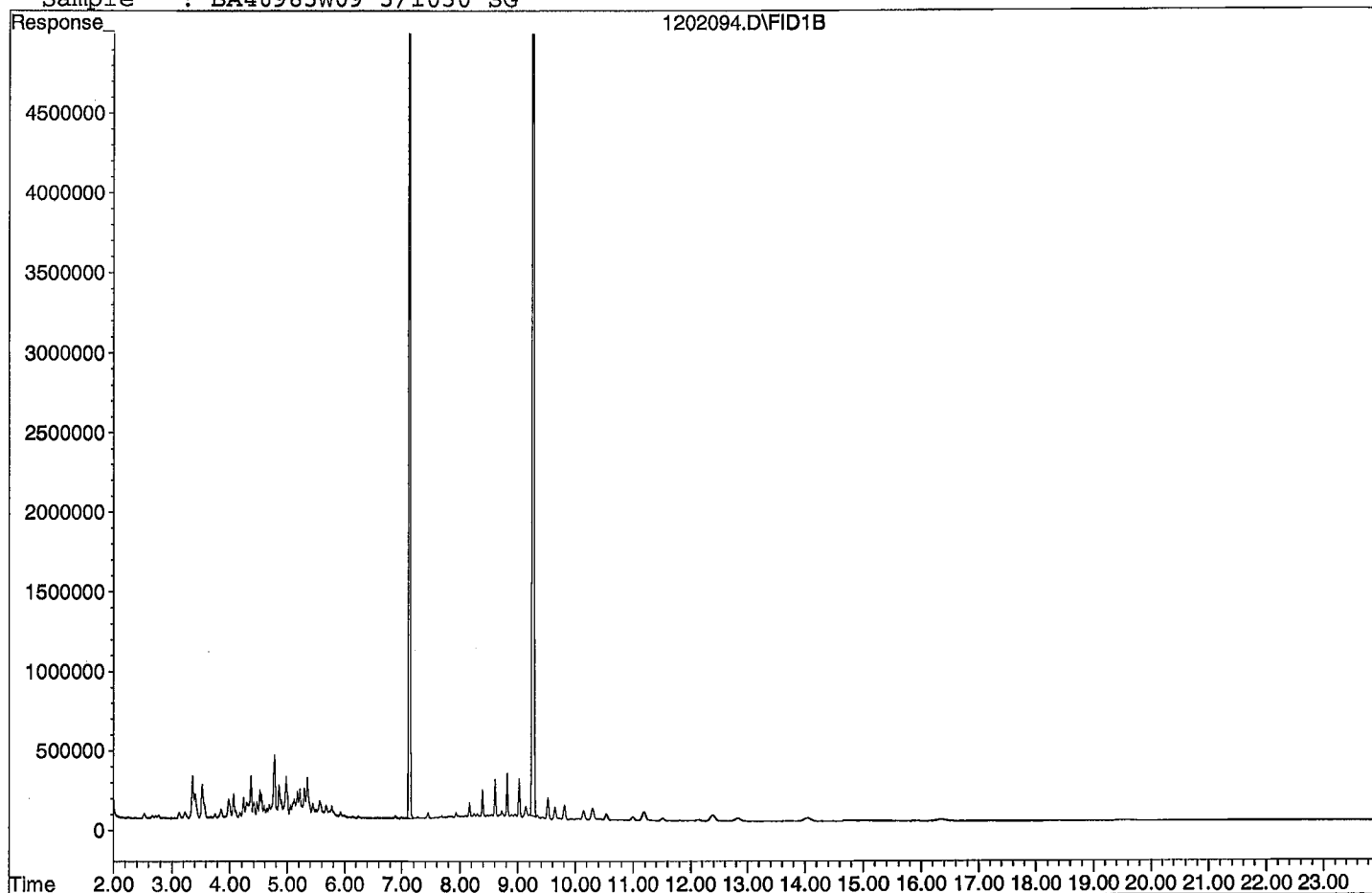
Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211202\1202094.D

Sample : BA46985W09 5/1030 SG

1202094.D\FID1B



Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\211202\1202085.D Vial: 85  
 Acq On : 12-4-21 5:42:45 Operator: KA  
 Sample : 211201A BLK 5/1000 SG Inst : Apollo  
 Misc : water Multiplr: 5.00  
 IntFile : events.e  
 Quant Time: Dec 11 19:55 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211202\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Fri Dec 03 08:22:29 2021  
 Response via : Multiple Level Calibration

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

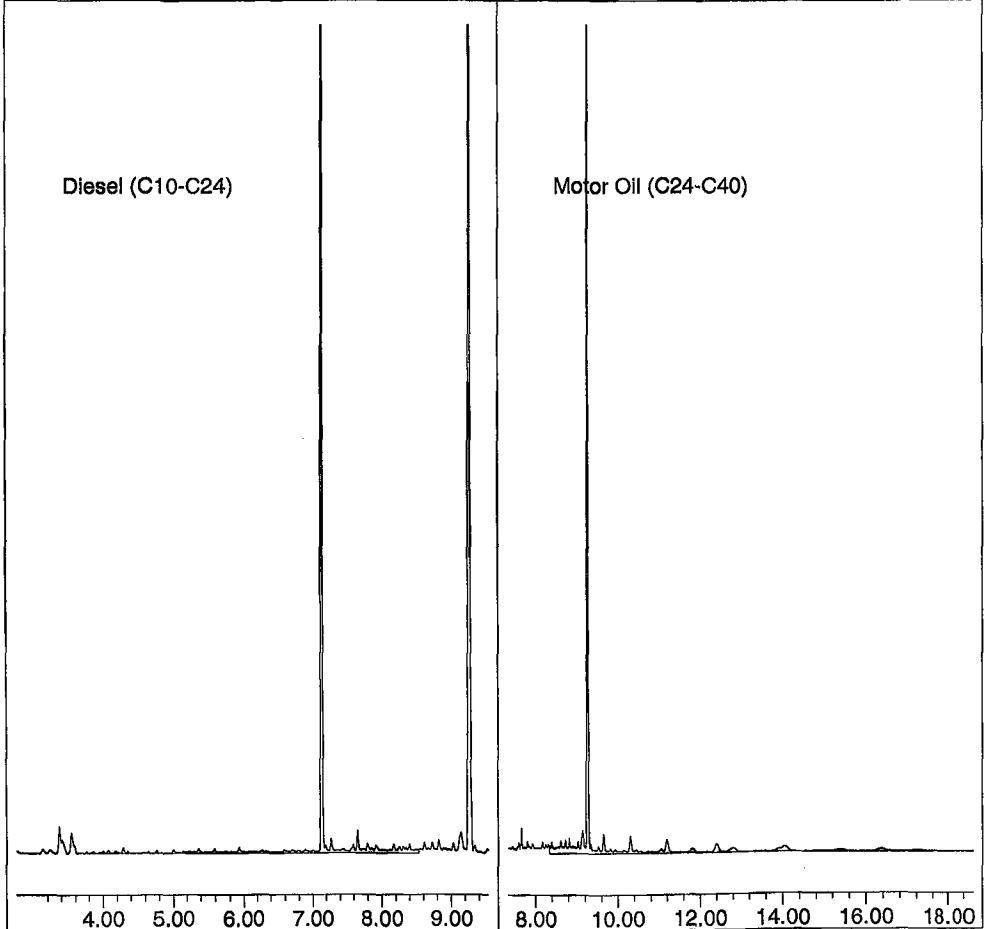
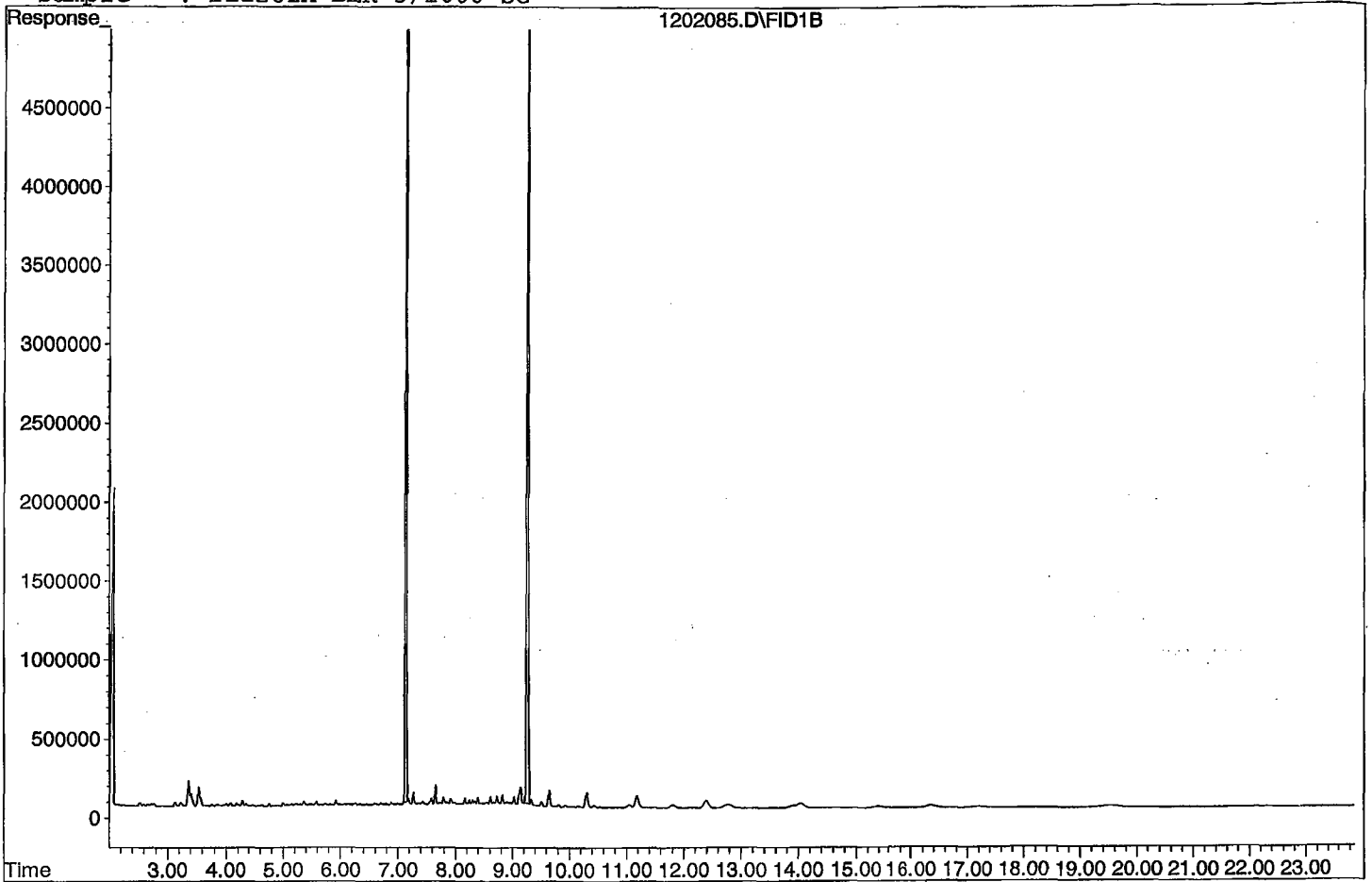
Compound	R.T.	Response	Conc Units
<b>System Monitoring Compounds</b>			
3) SA Ortho-Terphenyl(S)	7.13	112183926	89.675 ppb
Surrogate Spike 150.000		Recovery =	59.78%
4) SA Octacosane(S)	9.26	107033436	118.325 ppb
Surrogate Spike 150.000		Recovery =	78.88%
<b>Target Compounds</b>			
1) HATM Diesel (C10-C24)	6.15	39359335	39.099 ppb
2) HBTM Motor Oil (C24-C40)	12.97	79580266	66.938 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211202\1202085.D

Sample : 211201A BLK 5/1000 SG



Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\211202\1202086.D Vial: 86  
 Acq On : 12-4-21 6:10:51 Operator: KA  
 Sample : 211201A LCS-1 5/1000 SG Inst : Apollo  
 Misc : water Multiplr: 5.00  
 IntFile : events.e  
 Quant Time: Dec 11 19:57 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211202\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Fri Dec 03 08:22:29 2021  
 Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
<b>System Monitoring Compounds</b>			
3) SA Ortho-Terphenyl(S)	7.13	130406848	104.242 ppb
Surrogate Spike 150.000		Recovery =	69.49%
4) SA Octacosane(S)	9.26	123444142	136.467 ppb
Surrogate Spike 150.000		Recovery =	90.98%
<b>Target Compounds</b>			
1) HATM Diesel (C10-C24)	6.15	1973116794	1960.048 ppb
2) HBTM Motor Oil (C24-C40)	12.97	1615586312	2331.196 ppb

Target Compounds

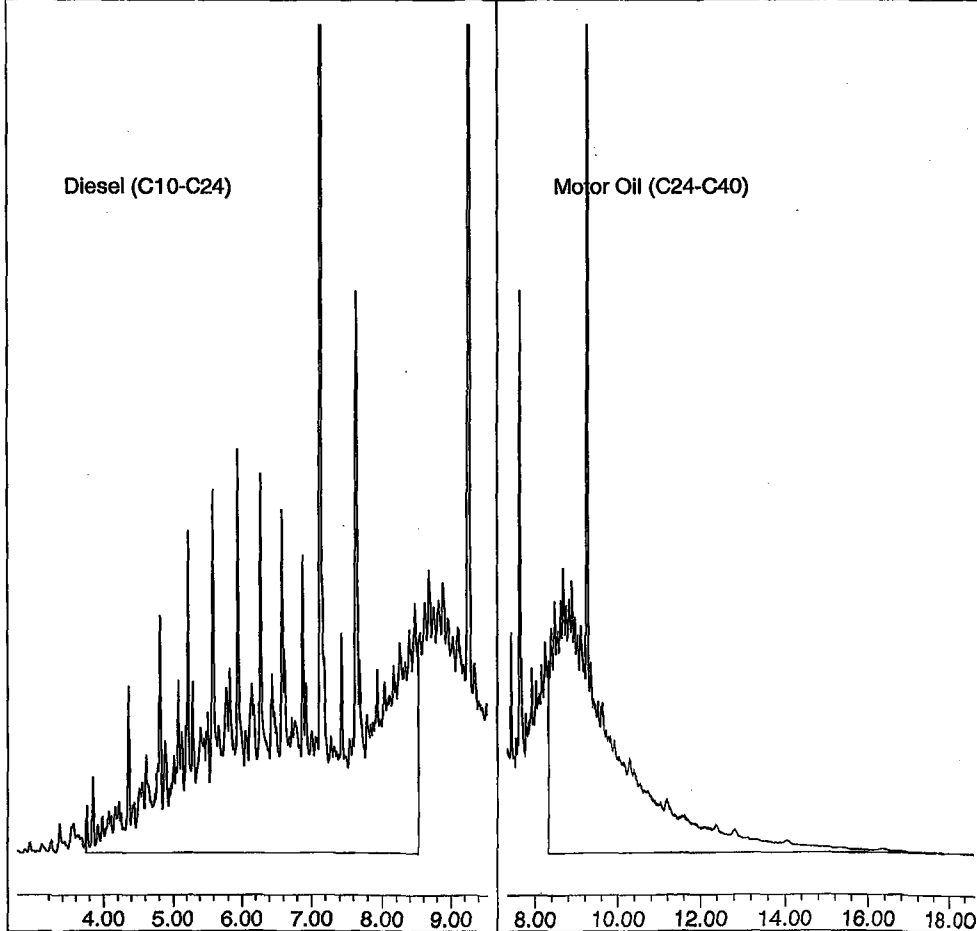
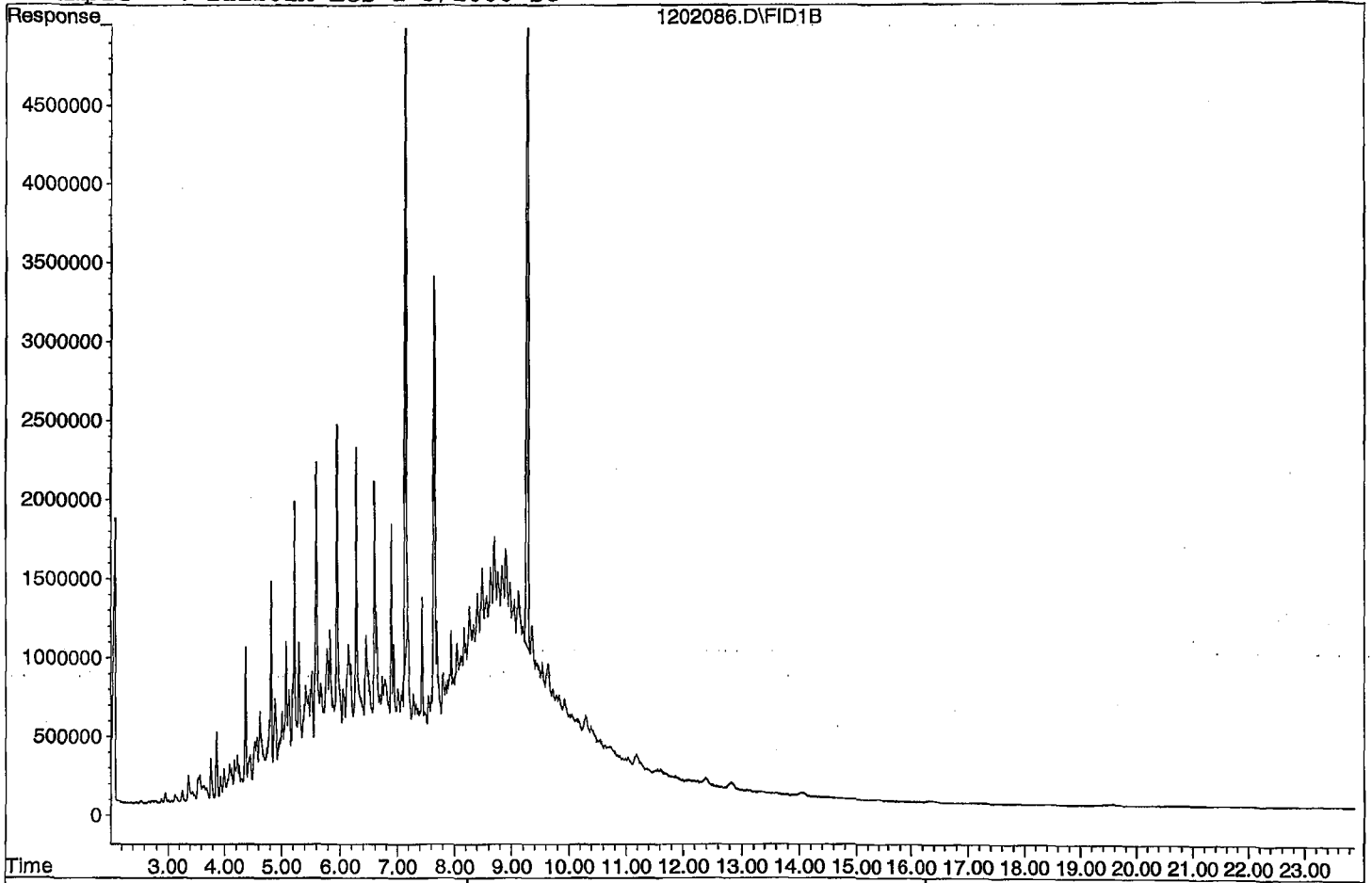
Diesel:

$$\frac{(1973116794)(5)}{(2516669)(2)} = \frac{9865583970}{5033338} = \boxed{1960.048}$$

Quantitation Report

Data File: G:\APOLLO\DATA\211202\1202086.D

Sample : 211201A LCS-1 5/1000 SG



Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\211202\1202087.D Vial: 87  
 Acq On : 12-4-21 6:38:59 Operator: KA  
 Sample : 211201A LCSD-1 5/1000 SG Inst : Apollo  
 Misc : water Multiplr: 5.00  
 IntFile : events.e  
 Quant Time: Dec 11 20:09 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211202\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Fri Dec 03 08:22:29 2021  
 Response via : Multiple Level Calibration

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

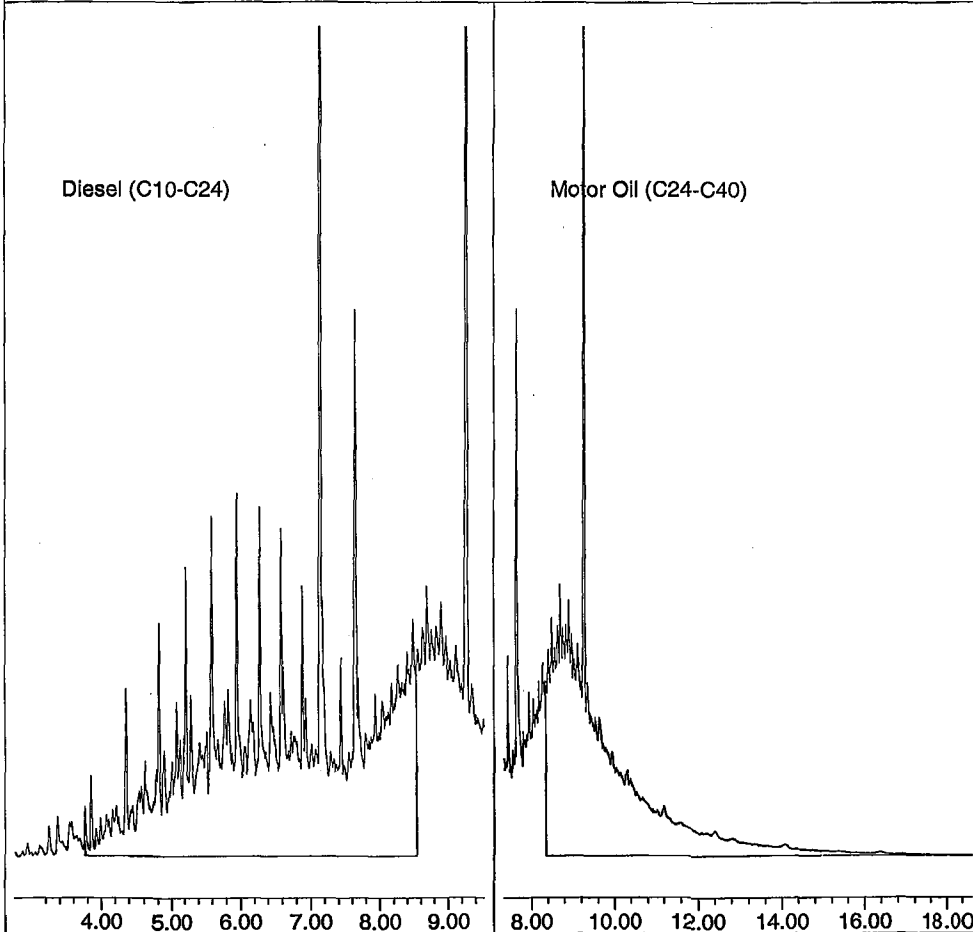
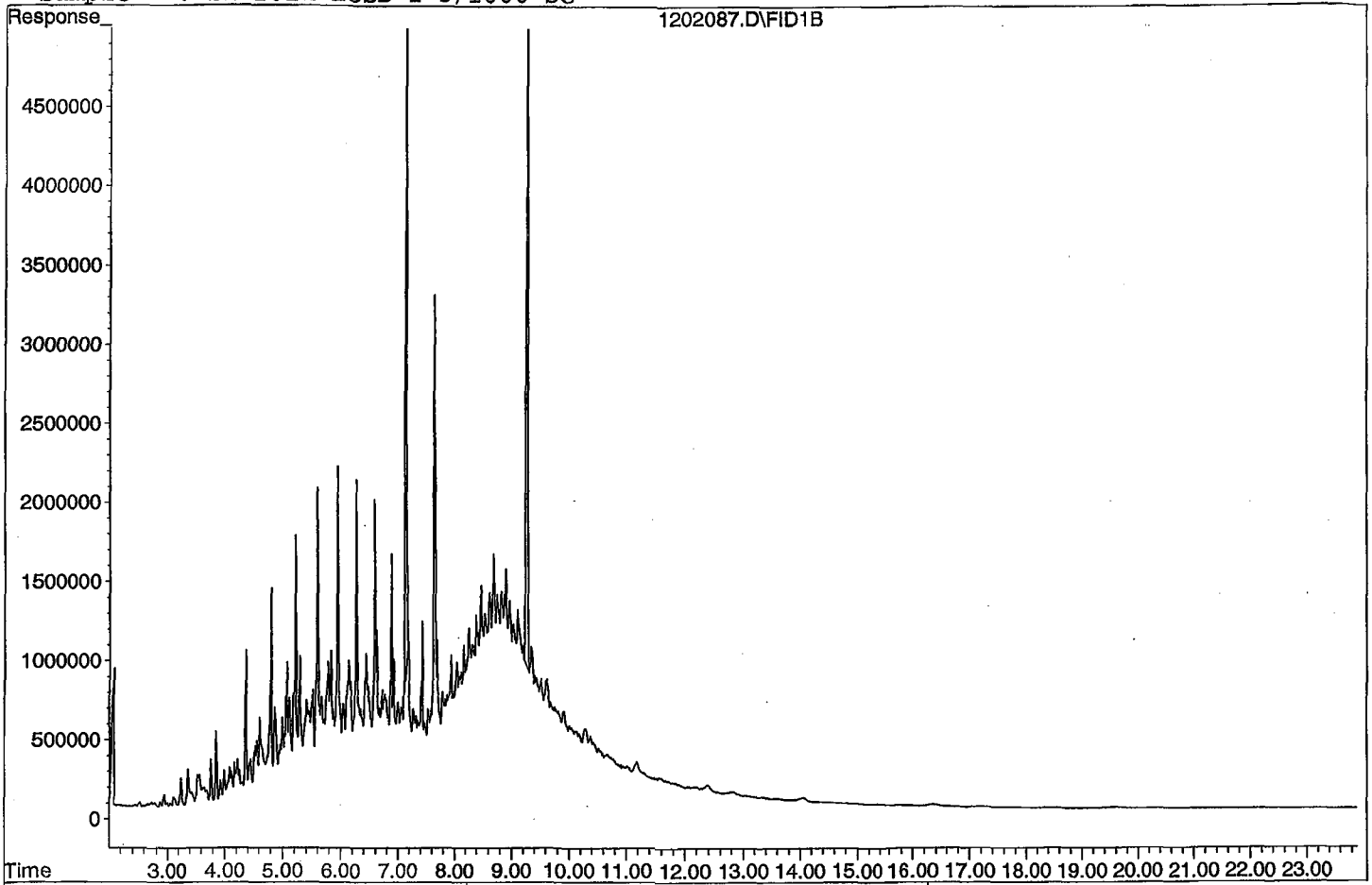
Compound	R.T.	Response	Conc Units
<b>System Monitoring Compounds</b>			
3) SA Ortho-Terphenyl(S)	7.13	119563088	95.574 ppb
Surrogate Spike 150.000		Recovery =	63.72%
4) SA Octacosane(S)	9.26	112293040	124.140 ppb
Surrogate Spike 150.000		Recovery =	82.76%
<b>Target Compounds</b>			
1) HATM Diesel (C10-C24)	6.15	1802455316	1790.517 ppb
2) HBTM Motor Oil (C24-C40)	12.97	1474094756	2122.621 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211202\1202087.D

Sample : 211201A LCSD-1 5/1000 SG





# Organic Extraction Worksheet

<b>Method</b>	Continuous Liq/Liq TPH- 3520C w/SGC	<b>Extraction Set</b>	211201A	<b>Extraction Method</b>	LIQ005SGC	<b>Units</b>	mL
Spiked ID 1	Diesel Motor Oil Mix 10-30-21 10-31-27	Surrogate ID 1	THC Surrogate 11-23-21 11-23-22				
Spiked ID 2	Decanoic 1000ug/mL Acid Solution 12-1-21 7-8-24	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:		12/01/21 10:54			
Spiked ID 8		Ext. End Time:		12/02/21 6:40			
		GC Requires Extract By:					
pH1	2	12/01/21 10:10	Water Bath Temp 1 °C	40/39.1 °C			
pH2			Water Bath Temp 2 °C	34/35.1			
pH3			Water Bath Temp 3 °C	30/29.5 °C			

Spiked By: SR

Date 12/1/2021

Witnessed By: CG

Date 12/1/2021

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1 211201A Blk		0.050	2	0.250	1	1000	5	2	12/01/21 10:12	*
					equip	E-HP3 E-WB1				
2 211201A LCS-1		0.080,0.050	1,2	0.250	1	1000	5	2	12/01/21 10:12	*
					equip	E-HP4 E-WB2				
3 211201A LCSD-1		0.080,0.050	1,2	0.250	1	1000	5	2	12/01/21 10:12	*
					equip	E-HP6 E-WB3				
4 BA46971	BA46971W09	0.050	2	0.250	1	1040	5	2	12/01/21 10:12	98336 *
					equip	E-HP7 E-WB1				
5 BA46973	BA46973W09	0.050	2	0.250	1	1050	5	2	12/01/21 10:12	98336 *
					equip	E-HP8 E-WB2				
6 BA46974	BA46974W07	0.050	2	0.250	1	1040	5	2	12/01/21 10:12	98336 *
					equip	E-HP9 E-WB3				
7 BA46979	BA46979W09	0.050	2	0.250	1	1030	5	2	12/01/21 10:12	98337 *
					equip	E-HP10 E-WB1				
8 BA46981	BA46981W09	0.050	2	0.250	1	1040	5	2	12/01/21 10:12	98337 *
					equip	E-HP11 E-WB2				
9 BA46983	BA46983W09	0.050	2	0.250	1	1030	5	2	12/01/21 10:12	98337 *
					equip	E-HP12 E-WB3				
10 BA46985	BA46985W09	0.050	2	0.250	1	1030	5	2	12/01/21 10:12	98337 *
					equip	E-HP13 E-WB1				

Solvent and Lot#	
1+1 HCL (5mLs)	60358
PH Strips	HC160397
Dichloromethane (DCM)	61117
Filter Paper	400202
Sodium Sulfate	2021071206
SILICA GEL (*)	050627T

Extraction COC Transfer	
Extraction lab employee Initials	KY
GC analyst's initials	KA
Date	12/2/21
Time	15:30
Refrigerator	HOBART

Technician's Initials	
Scanned By	SR
Sample Preparation	SR
Extraction	SR
Concentration	SR
Modified	12/2/2021 12:40:20 PM

Reviewed By: KY Date 12/2/2021  
 209 of 507  
 Ext\_ID 73523

## Injection Log

Directory: G:\APOLLO\DATA\210911\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	2	911002.D	1	Decanoic Acid STD 1	water	9-11-21 10:22:53
2	3	911003.D	1	Decanoic Acid STD 2	water	9-11-21 10:51:11
3	4	911004.D	1	Decanoic Acid STD 3	water	9-11-21 11:19:39
4	5	911005.D	1	Decanoic Acid STD 4	water	9-11-21 11:48:04
5	6	911006.D	1	Decanoic Acid STD 5	water	9-11-21 12:16:37
6	7	911007.D	1	Decanoic Acid STD 6	water	9-11-21 12:45:02
7	3	1028003.D	1	DMO STD 1 10/28/21	water	10-28-21 9:19:03
8	4	1028004.D	1	DMO STD 2 10/28/21	water	10-28-21 9:47:06
9	5	1028005.D	1	DMO STD 3 10/28/21	water	10-28-21 10:15:13
10	6	1028006.D	1	DMO STD 4 10/28/21	water	10-28-21 10:43:31
11	7	1028007.D	1	DMO STD 5 10/28/21	water	10-28-21 11:11:42
12	8	1028008.D	1	DMO STD 6 10/28/21	water	10-28-21 11:39:55
13	9	1028009.D	1	DMO STD 7 10/28/21	water	10-28-21 12:08:10
14	10	1028010.D	1	DMO Second Source 10/28/21	water	10-28-21 12:36:26
15	82	1202082.D	1	DMO STD DF2 10/06/21	water	12-4-21 4:18:20
16	83	1202083.D	1	Decanoic Acid CCV 11/05/21	water	12-4-21 4:46:28
17	85	1202085.D	5	211201A BLK 5/1000 SG	water	12-4-21 5:42:45
18	86	1202086.D	5	211201A LCS-1 5/1000 SG	water	12-4-21 6:10:51
19	87	1202087.D	5	211201A LCSD-1 5/1000 SG	water	12-4-21 6:38:59
20	91	1202091.D	4.85437	BA46979W09 5/1030 SG	water	12-4-21 8:31:33
21	92	1202092.D	4.80769	BA46981W09 5/1040 SG	water	12-4-21 8:59:40
22	93	1202093.D	4.85437	BA46983W09 5/1030 SG	water	12-4-21 9:27:47
23	94	1202094.D	4.85437	BA46985W09 5/1030 SG	water	12-4-21 9:55:55
24	97	1202097.D	1	DMO STD DF2 10/06/21	water	12-4-21 11:20:18
25	98	1202098.D	1	Decanoic Acid CCV 11/05/21	water	12-4-21 11:48:27

## Diesel / Motor Oil Calibration Curve

Prepared: 10/28/2021

Expires: 5/31/2026

Prepared By (Initials): KA

Methylene

e

Chloride

Lot No. 61117

Initial Standard Information						Final Standard				
Name of Initial Standard (QAU Label)	Supplier	Conc. (ug/mL)	APPL Mix Name	Reference to APPL Prep Date and Lot #'s	Exp. Date	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel / Motor Oil - 2	APPL	10	Diesel / Motor Oil - 1	Prep'd: 10/6/21 A0164485-52822, A0168842-82820, A0168510-52817 CL16893-52835	See man. Exp date	10/31/2027 12/31/2027 5/31/2026	100uL	200uL	MC	5
Diesel / Motor Oil - 3		50	Diesel / Motor Oil - 2				200uL	1mL	MC	10
Diesel / Motor Oil Calibration STD	Restek	2,000	Diesel / Motor Oil - 3				25uL	1mL	MC	50
			Diesel / Motor Oil - 4				125uL	1mL	MC	250
			Diesel / Motor Oil - 5				500uL	1mL	MC	1000
			Diesel / Motor Oil - 6				750uL	1mL	MC	1500
			Diesel / Motor Oil - 7				100uL	100uL	N/A	2,000

**Diesel / Motor Oil Second Source**

**Prepared: 10/28/2021**

**Expires: 10/28/2024**

**Prepared By (Initials): KA**

**Methylen**

**e**

**Chloride**

**Lot No. 61117**

Initial Standard Information							Final Standard			
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	Phenova	AL0-101287	50,000	CL16477-52980	See man. Exp date	2/28/2027	50uL	10mL	MC	250
Motor Oil Second Source	Absolute	51094	50,000	102819-52981		10/28/2024	50uL			

**Decanoic Acid Calibration Curve**

Prepared: 9/11/2021

Prepared By (Initials): KA

Expires: 7/12/2022

Methylene

e

Chloride

Lot No. 61117

Initial Standard Information							Final Standard			
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	O2SI	Decanoic Acid-1	60	Prepared 9/11/21	7/12/2022	N/A	50uL	1mL	MC	3
		Decanoic Acid-2					100uL	1mL	MC	6
		Decanoic Acid-3					400uL	1mL	MC	24
		Decanoic Acid-4					600uL	1mL	MC	36
		Decanoic Acid-5					800uL	1mL	MC	48
		Decanoic Acid-6					100uL	100uL	N/A	60

**Diesel / Motor Oil Calibration Standard**

Prepared: 10/6/2021

Prepared By (Initials): KAExpires: 5/31/2026**Methylene  
Chloride  
Lot No. 61117**

Initial Standard Information							Final Standard			
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	Restek	31258	50,000	A016448 5-52822	9/3/2022	10/31/2027	400uL			2000
Motor Oil	Restek	31464	50,000	A016884 2-52820 and A016651 0-52817	10/6/2021	12/31/2027	400uL	10mL	MC	2000
THC Surrogate	Phenova	ALO-130161	600	CL16893 52835	10/6/2021	5/31/2026	1666uL			100

<b>Decanoic Acid CCV</b>										
<b>Prepared: 11/5/2021</b>						<b>Prepared By (Initials): KA</b>				
<b>Expires: 7/8/2024</b>										
<b>Methylene Chloride</b>										
<b>Lot No. 61117</b>										
<b>Initial Standard Information</b>							<b>Final Standard Information</b>			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Decanoic Acid	O2SI	72766	1,000	070821-52989	See man. Exp date	7/8/2024	360uL	10mL	MC	36

**Diesel Motor Oil Mix**

Prepared: 10/30/2021

Prepared By (Initials): KA

Expires: 10/31/2027

Initial Standard Information							Final Standard			
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	Restek	31258	50,000	<del>A0164485-52825</del> and <del>A0164586-53175, 53174, and 53176</del>	See man. Date	10/31/2027	4.00 mL	8.0 mL	NA	25,000
Motor Oil Composite	Restek	31464	50,000	<del>A0166510-52817, and A0168842-53169, 53170, and 53171</del>	See man. Date	12/31/2027 3/31/28	4.00 mL			25,000



**THC Surrogate****Prepared: 11/23/2021****KA****Expires: 5/31/2026**

Initial Standard Information							Final Standard			
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	CL16893-53204	See ma. Date	5/31/2026	N/A	N/A	N/A	600

**Decanoic Acid Spike**Prepared: 12/1/2021Prepared By (Initials): KAExpires: 7/8/2024

Initial Standard Information							Final Standard			
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 Spike	Absolute	72766	1,000	070821-52697	See man. Exp date	7/8/2024	N/A	N/A	N/A	1,000

**ORGANICS**  
**Calibration Data**

TPH Extractables  
DOC1028

Form 6  
Initial Calibration

Lab Name: APPL, Inc.  
Case No: \_\_\_\_\_  
Matrix: Water

SDG No: \_\_\_\_\_  
Initial Cal. Date: 10/28/2021  
Instrument: Apollo

Initials: KA

1028003.D    1028004.D    1028005.D    1028006.D    1028007.D    1028008.D    1028009.D

	Compound	1	2	3	4	5	6	7				Avg	%RSD	Type	r <sup>2</sup>	Q
1	HATM Diesel (C10-C24)	2983809	2406563	2517872	2418941	2337993	2387715	2563791				2516669	8.7	HATM		
2	HBTML Motor Oil (C24-C40)	5192328	3260715	2065863	1824592	1695984	1676117	1728658				2492037	53	HBTM	1.000	
3	SA Ortho-Terphenyl(S)	3637234	3178668	3119876	3035678	2926966	2905323	3088794				3127505	7.9	SA		
4	SA Octacosane(S)	2469203	2170507	2286410	2275552	2170413	2171254	2286658				2261428	4.8	SA		
5																
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2.118919

Data File : G:\APOLLO\DATA\211028\1028003.D Vial: 3  
 Acq On : 10-28-21 9:19:03 Operator: KA  
 Sample : DMO STD 1 10/28/21 Inst : Apollo  
 Misc : water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Oct 28 15:39 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Thu Oct 28 15:39:11 2021  
 Response via : Multiple Level Calibration

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

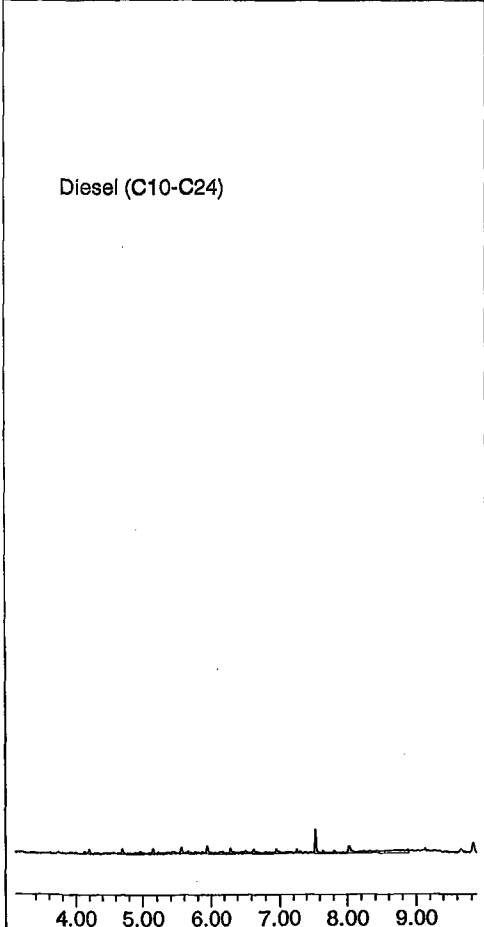
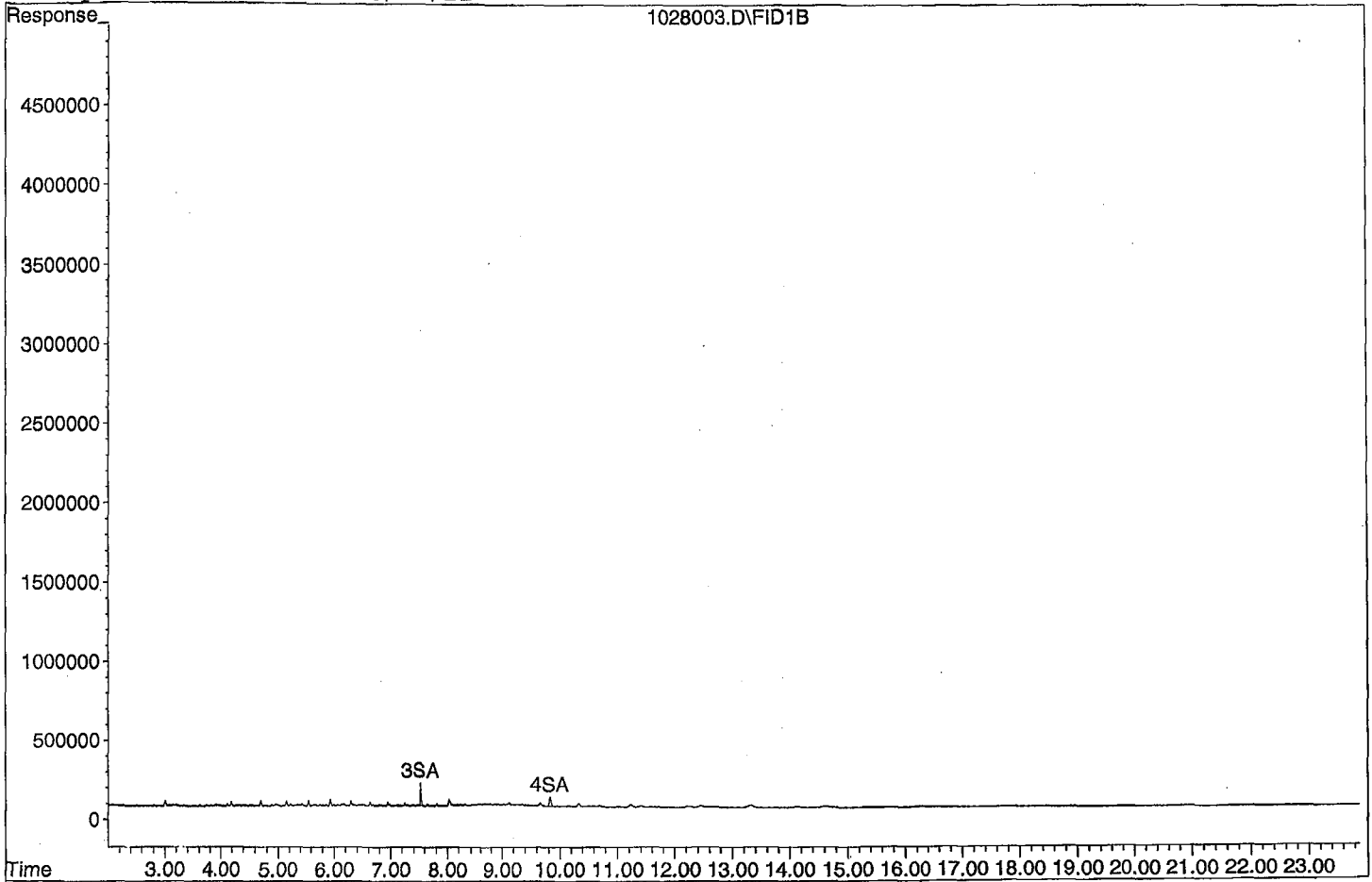
Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.53	1818617	0.291 ppb
Surrogate Spike 30.000		Recovery =	0.97%
4) SA Octacosane(S)	9.82	1234601	0.273 ppb
Surrogate Spike 30.000		Recovery =	0.91%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	29838086	5.928 ppb
2) HBTM Motor Oil (C24-C40)	14.96	51923283	5.234 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211028\1028003.D

Sample : DMO STD 1 10/28/21



Data File : G:\APOLLO\DATA\211028\1028004.D Vial: 4  
 Acq On : 10-28-21 9:47:06 Operator: KA  
 Sample : DMO STD 2 10/28/21 Inst : Apollo  
 Misc : water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Oct 28 15:39 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Thu Oct 28 15:39:11 2021  
 Response via : Multiple Level Calibration

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

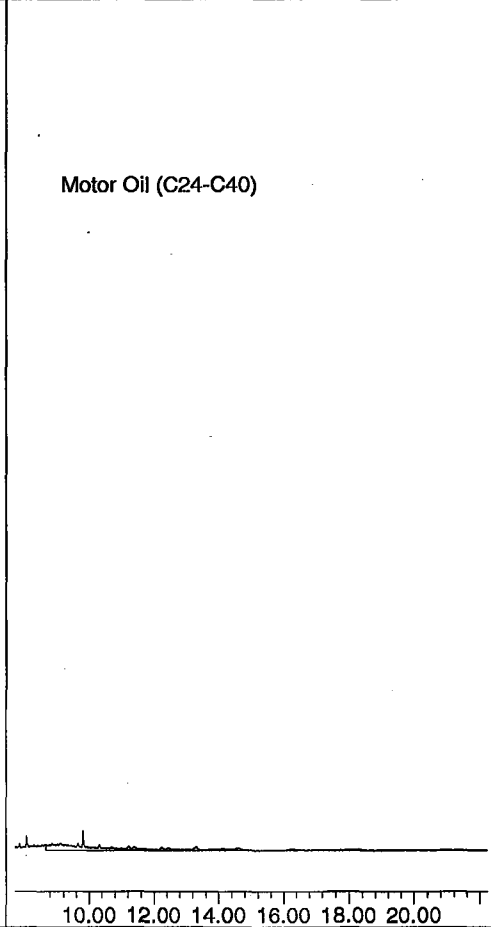
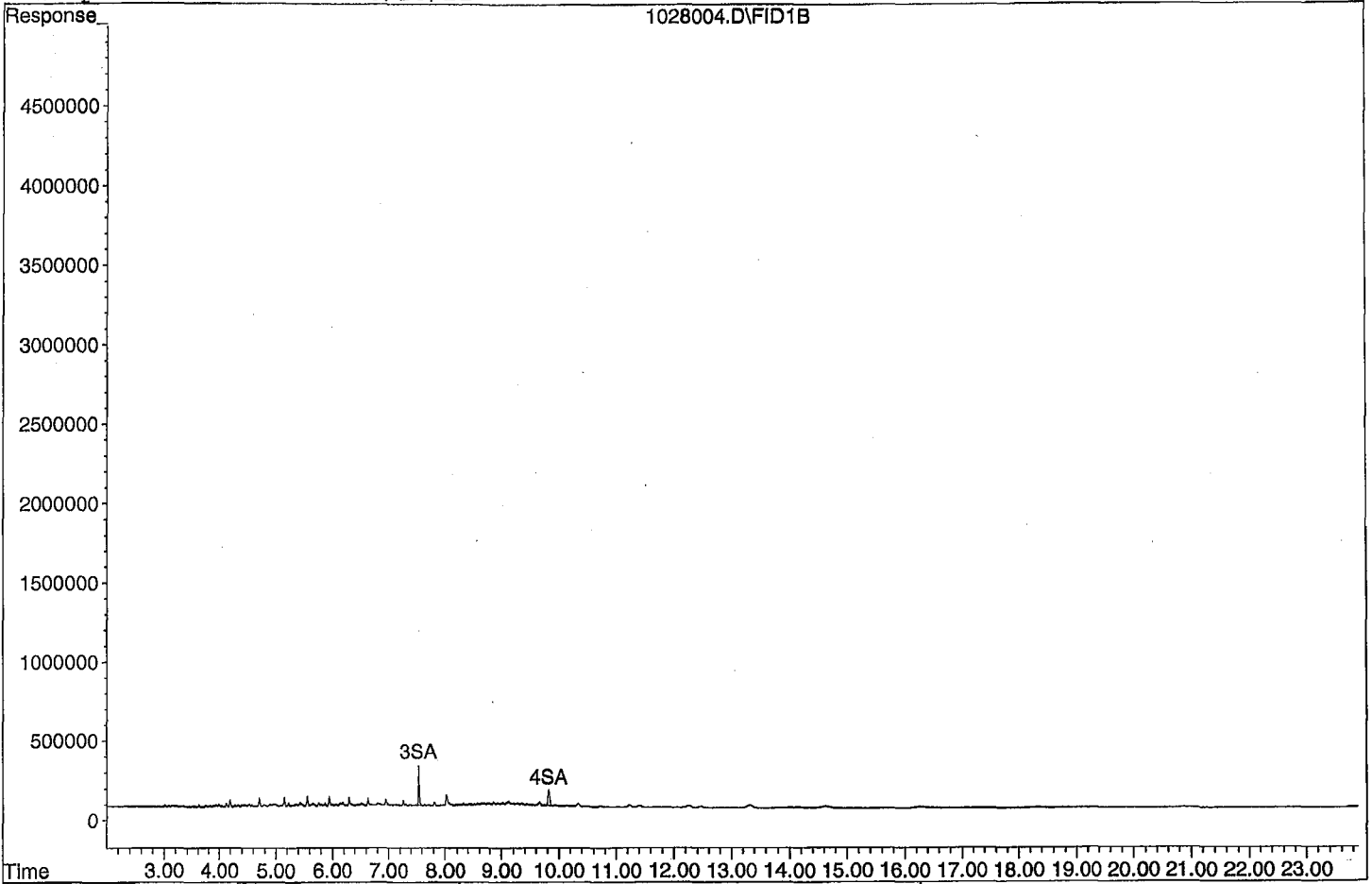
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.53	3178668	0.508 ppb
Surrogate Spike 30.000		Recovery =	1.69%
4) SA Octacosane(S)	9.82	2170507	0.480 ppb
Surrogate Spike 30.000		Recovery =	1.60%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	48131263	9.562 ppb
2) HBTM Motor Oil (C24-C40)	14.96	65214303	9.152 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211028\1028004.D

Sample : DMO STD 2 10/28/21





Data File : G:\APOLLO\DATA\211028\1028005.D Vial: 5  
 Acq On : 10-28-21 10:15:13 Operator: KA  
 Sample : DMO STD 3 10/28/21 Inst : Apollo  
 Misc : water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Oct 28 15:39 2021 Quant Results File: DOC1028.RES

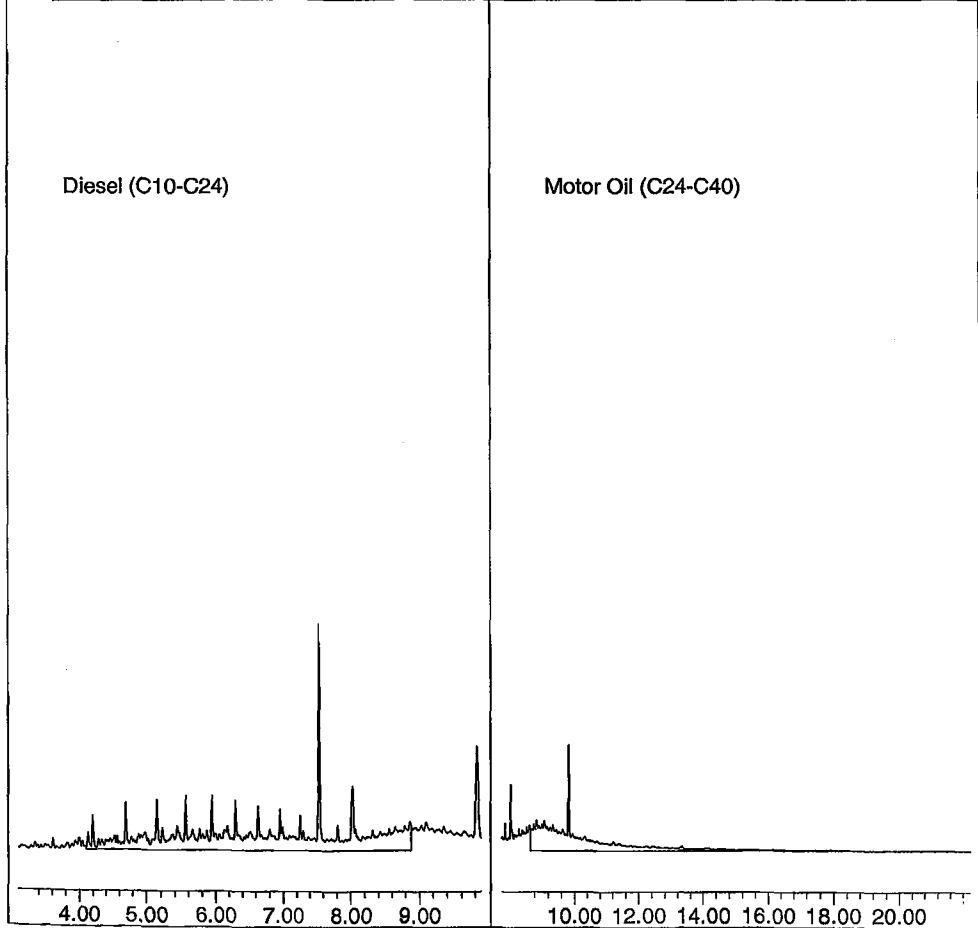
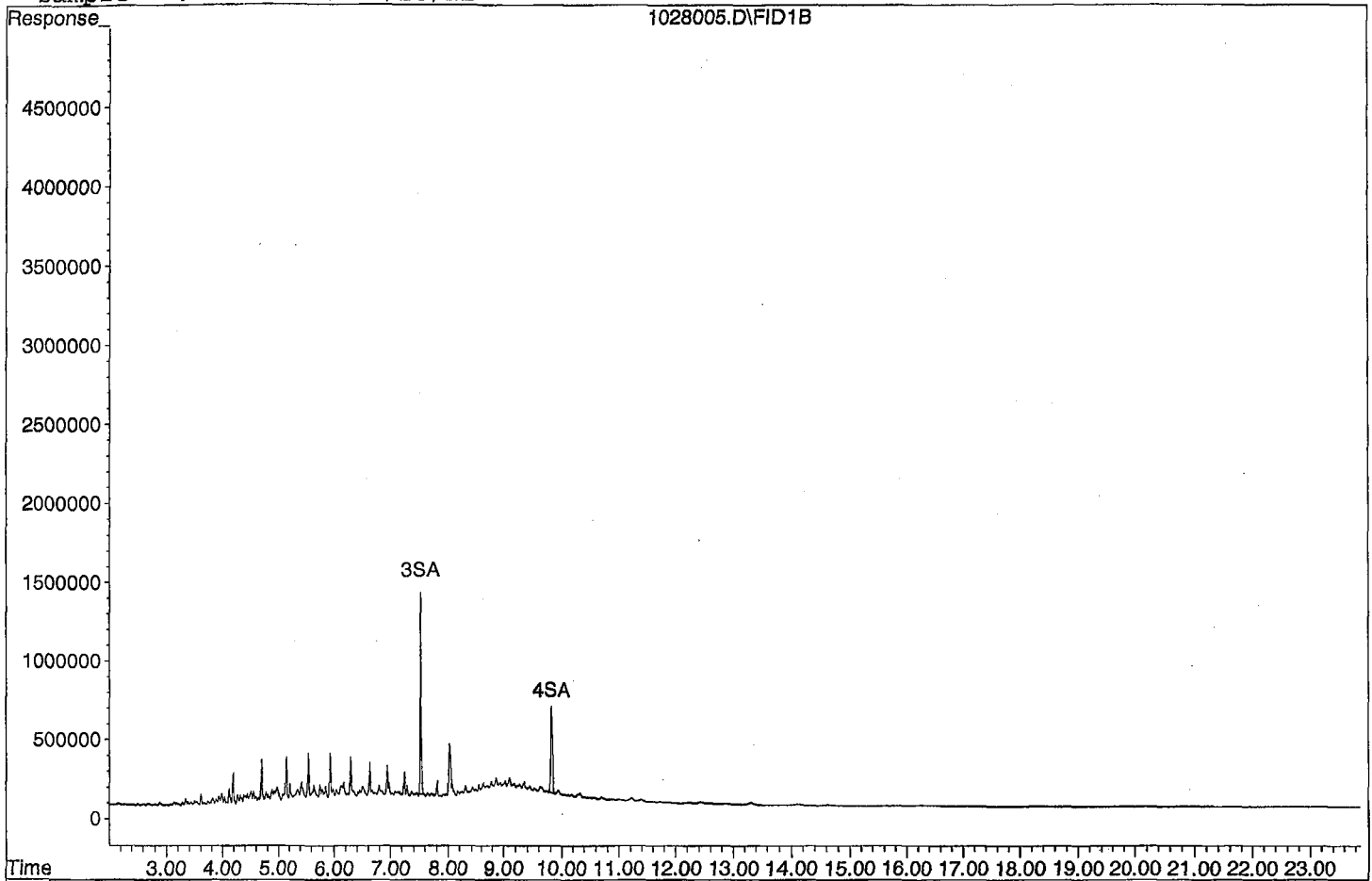
Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Thu Oct 28 15:39:11 2021  
 Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.53	15599382	2.494 ppb
Surrogate Spike 30.000		Recovery =	8.31%
4) SA Octacosane(S)	9.82	11432050	2.528 ppb
Surrogate Spike 30.000		Recovery =	8.43%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	251787231	50.024 ppb
2) HBTM Motor Oil (C24-C40)	14.96	206586322	50.832 ppb
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\211028\1028005.D  
Sample : DMO STD 3 10/28/21



Data File : G:\APOLLO\DATA\211028\1028006.D Vial: 6  
 Acq On : 10-28-21 10:43:31 Operator: KA  
 Sample : DMO STD 4 10/28/21 Inst : Apollo  
 Misc : water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Oct 28 15:39 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Thu Oct 28 15:39:11 2021  
 Response via : Multiple Level Calibration

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

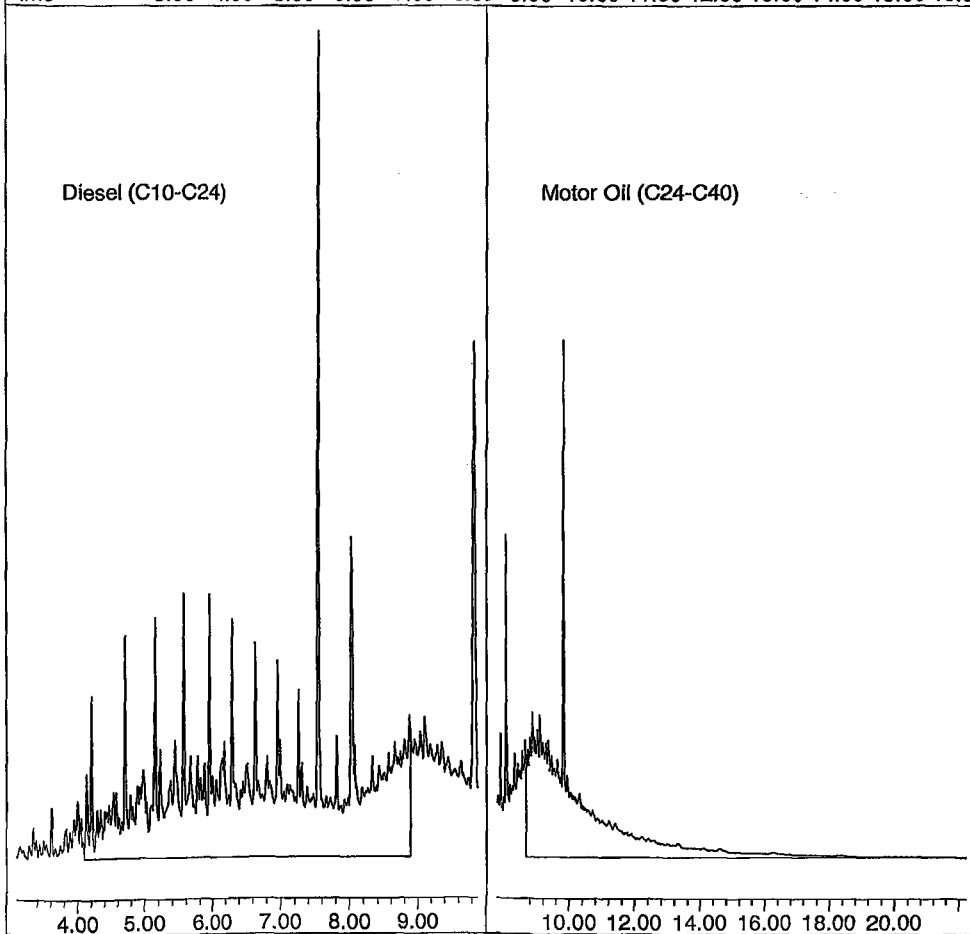
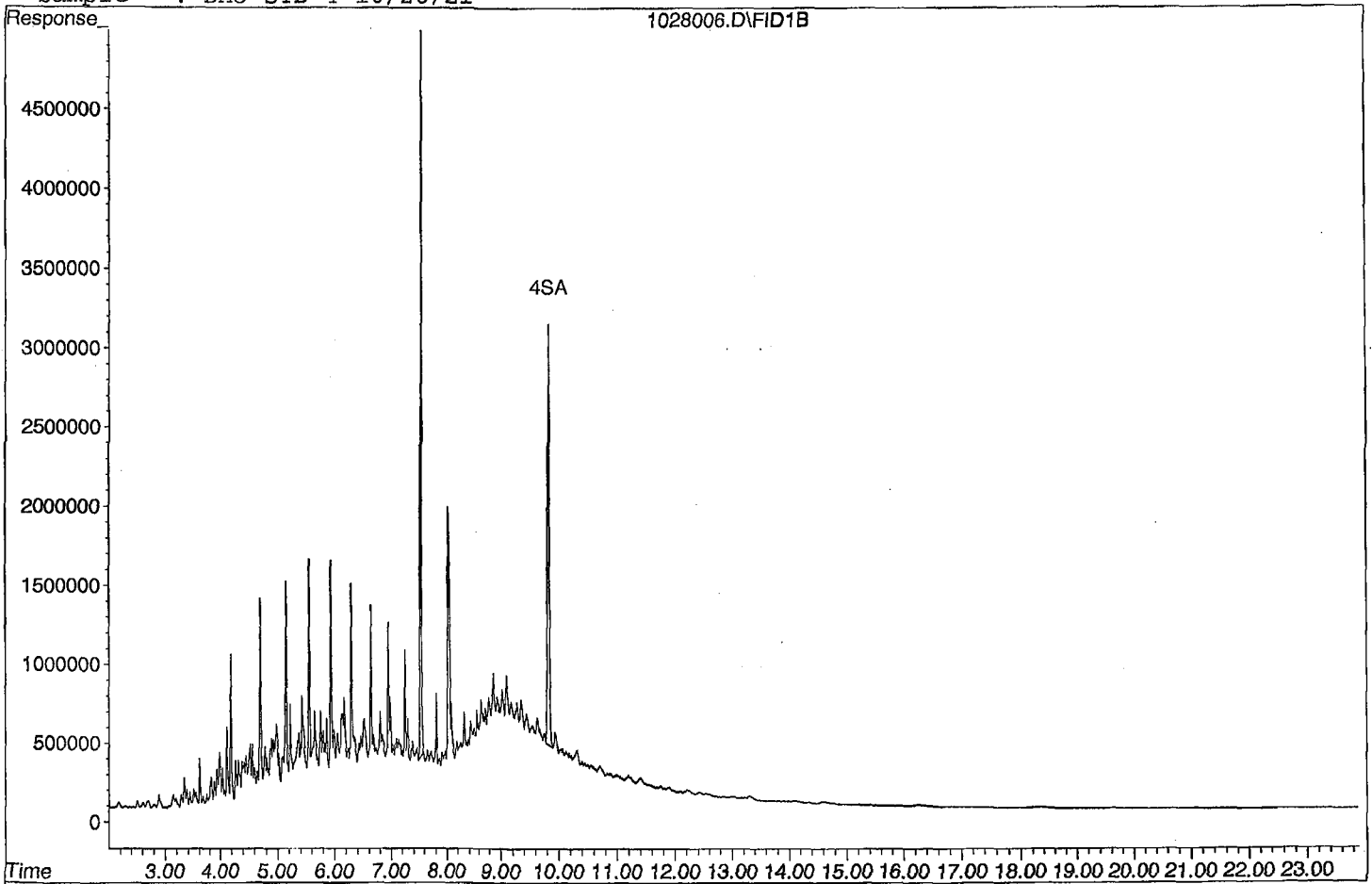
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.53	75891940	12.133 ppb
Surrogate Spike 30.000		Recovery =	40.44%
4) SA Octacosane(S)	9.82	56888797	12.578 ppb
Surrogate Spike 30.000		Recovery =	41.93%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	1209470396	240.292 ppb
2) HBTM Motor Oil (C24-C40)	14.96	912296132	258.892 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211028\1028006.D

Sample : DMO STD 4 10/28/21



Data File : G:\APOLLO\DATA\211028\1028007.D Vial: 7  
 Acq On : 10-28-21 11:11:42 Operator: KA  
 Sample : DMO STD 5 10/28/21 Inst : Apollo  
 Misc : water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Oct 28 15:39 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Thu Oct 28 15:39:11 2021  
 Response via : Multiple Level Calibration

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

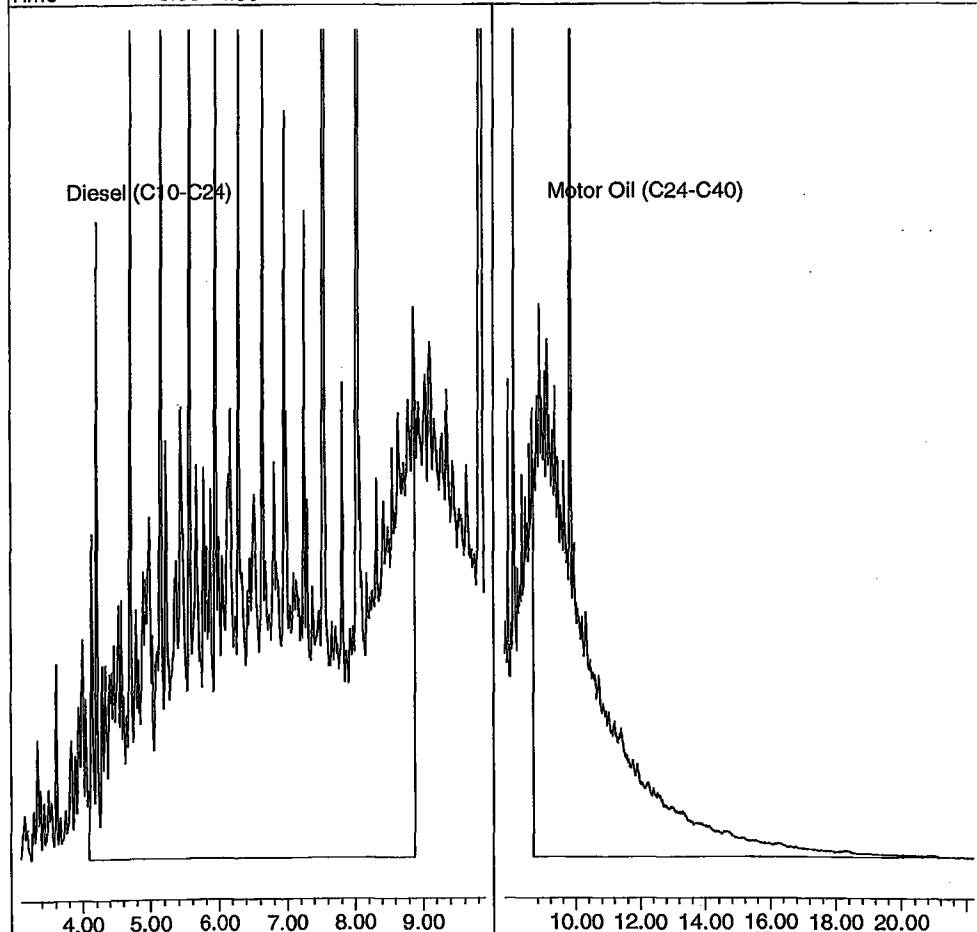
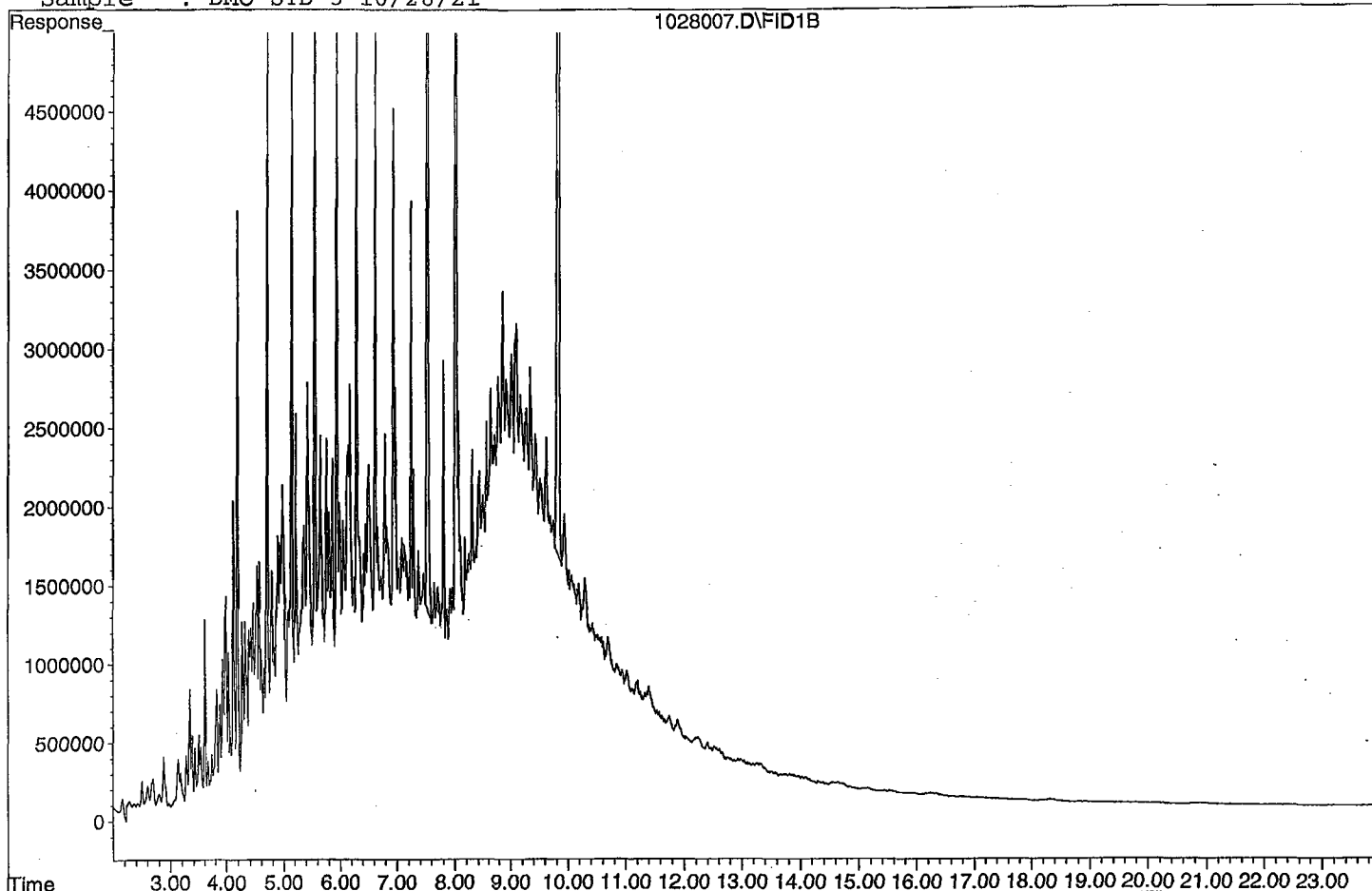
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.54	292696553	46.794 ppb
Surrogate Spike 30.000		Recovery =	155.98%
4) SA Octacosane(S)	9.83	217041298	47.988 ppb
Surrogate Spike 30.000		Recovery =	159.96%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	4675985227	929.003 ppb
2) HBTM Motor Oil (C24-C40)	14.96	3391967397	989.959 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211028\1028007.D

Sample : DMO STD 5 10/28/21



Data File : G:\APOLLO\DATA\211028\1028008.D Vial: 8  
 Acq On : 10-28-21 11:39:55 Operator: KA  
 Sample : DMO STD 6 10/28/21 Inst : Apollo  
 Misc : water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Oct 28 15:39 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Thu Oct 28 15:39:11 2021  
 Response via : Multiple Level Calibration

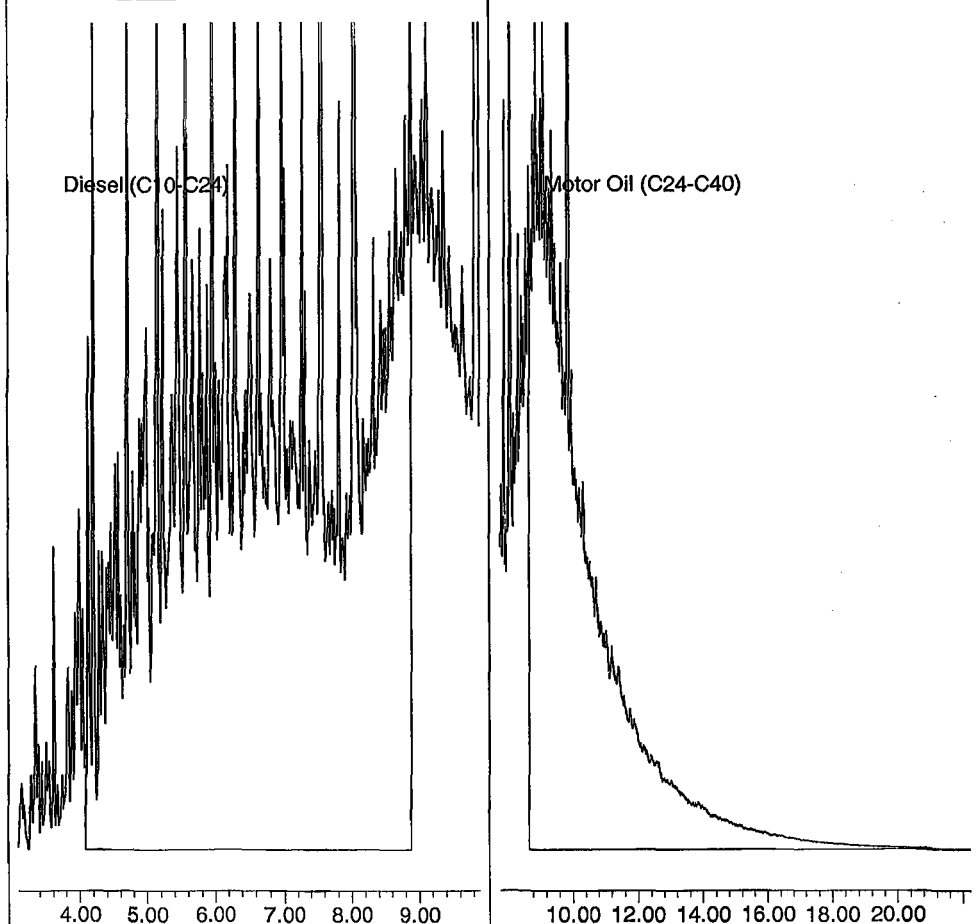
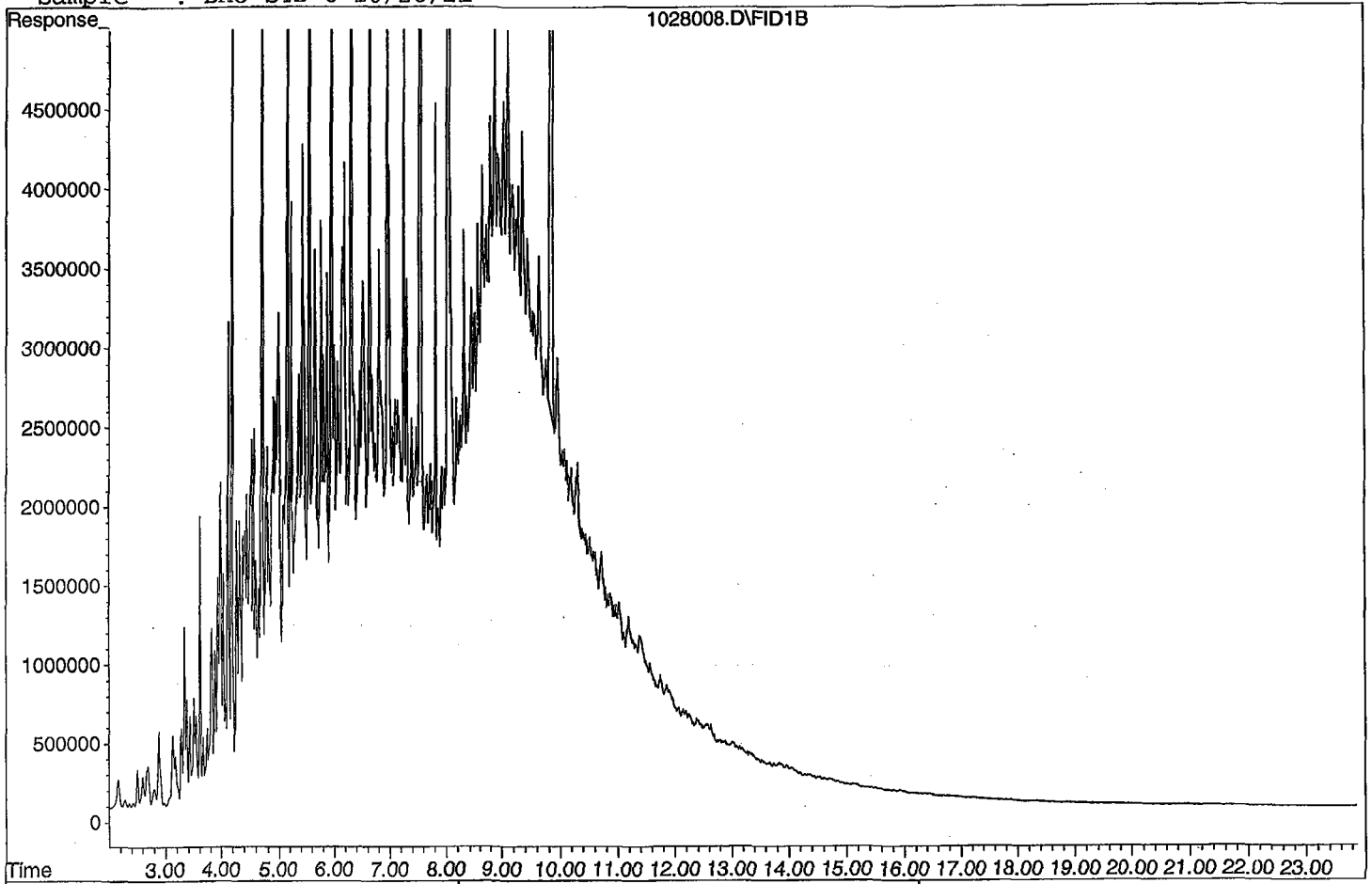
Volume Inj. : 2UL  
 Signal Phase : DB-5  
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.54	435798382	69.672 ppb
Surrogate Spike 30.000		Recovery =	232.24%
4) SA Octacosane(S)	9.84	325688048	72.009 ppb
Surrogate Spike 30.000		Recovery =	240.03%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	7163144090	1423.140 ppb
2) HBTM Motor Oil (C24-C40)	14.96	5028351305	1472.405 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211028\1028008.D  
Sample : DMO STD 6 10/28/21





Data File : G:\APOLLO\DATA\211028\1028009.D Vial: 9  
 Acq On : 10-28-21 12:08:10 Operator: KA  
 Sample : DMO STD 7 10/28/21 Inst : Apollo  
 Misc : water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Oct 28 15:39 2021 Quant Results File: DOC1028.RES

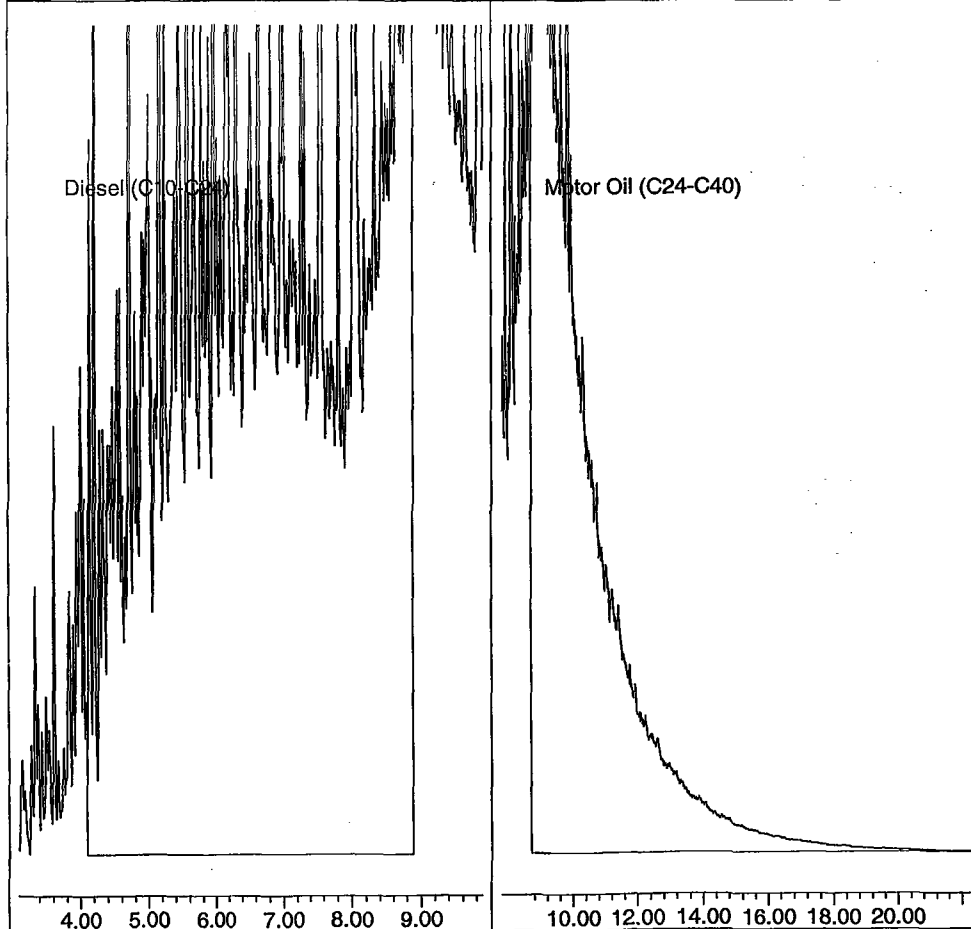
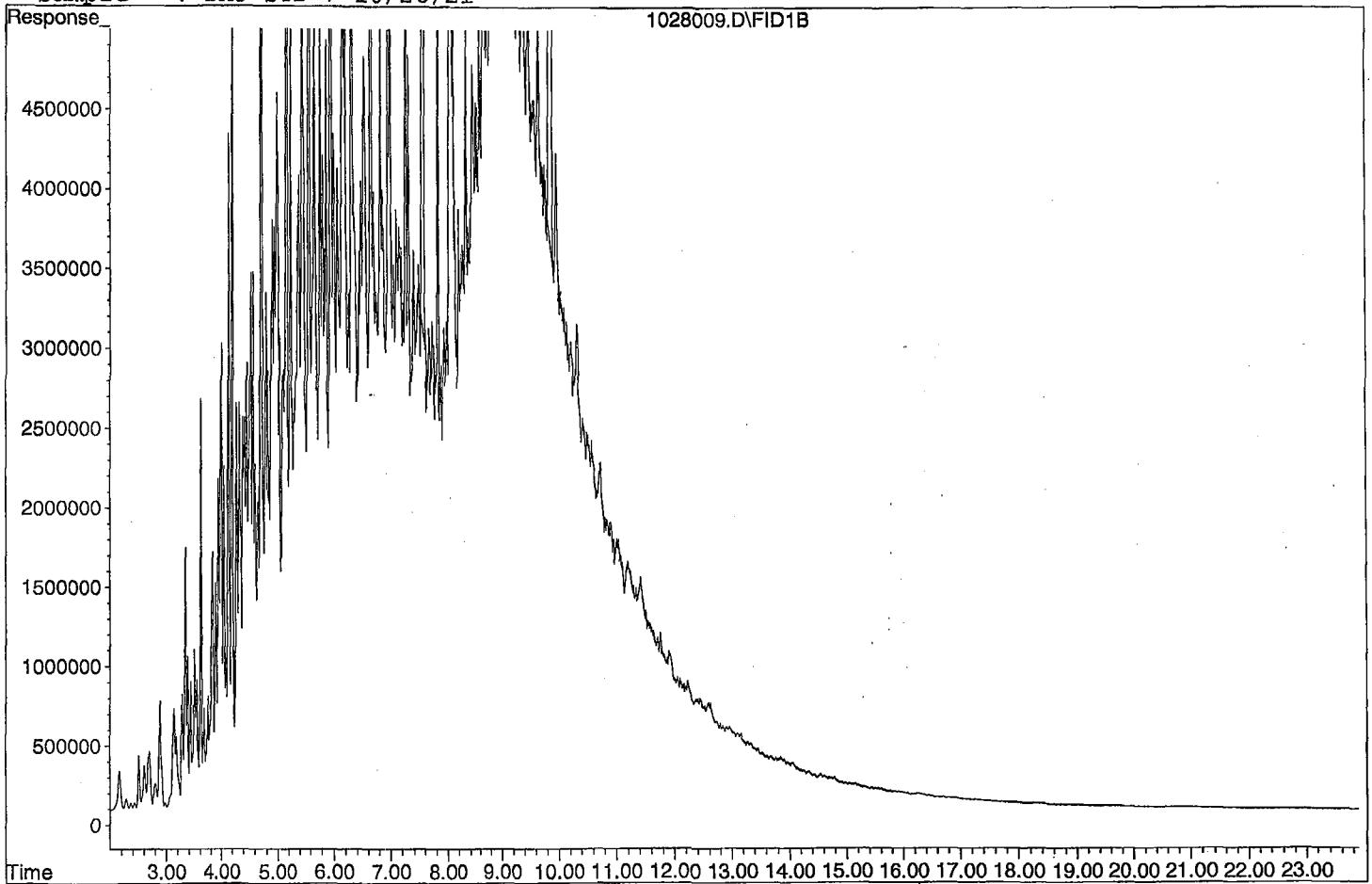
Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Thu Oct 28 15:39:11 2021  
 Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.54	617758709	98.762 ppb
Surrogate Spike 30.000		Recovery =	329.21%
4) SA Octacosane(S)	9.85	457331573	101.116 ppb
Surrogate Spike 30.000		Recovery =	337.05%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	10255165539	2037.448 ppb
2) HBTM Motor Oil (C24-C40)	14.96	6914631831	2028.526 ppb
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\211028\1028009.D  
Sample : DMO STD 7 10/28/21



TPH Extractables  
DOC1028

Form 7

Second Source Calibration

Lab Name: APPL, Inc.

SDG No: \_\_\_\_\_

Case No: \_\_\_\_\_

Date Analyzed: 10/28/2021

Matrix: Water

Instrument: Apollo

Initial Cal. Date: 10/28/2021

Data File: 1028010.D

	Compound	MEAN	CCRF	%D	%Drift
1	HATM Diesel (C10-C24)	2516670	2266400	9.9	HATM
2	HBTM Motor Oil (C24-C40)	2492040	1663520	33	HBTML 5.9
3					
4					
5					
6					
7					
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39					
40	Average			21.5	

Data File : G:\APOLLO\DATA\211028\1028010.D Vial: 10  
 Acq On : 10-28-21 12:36:26 Operator: KA  
 Sample : DMO Second Source 10/28/21 Inst : Apollo  
 Misc : water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Oct 28 15:39 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Thu Oct 28 15:39:11 2021  
 Response via : Multiple Level Calibration

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

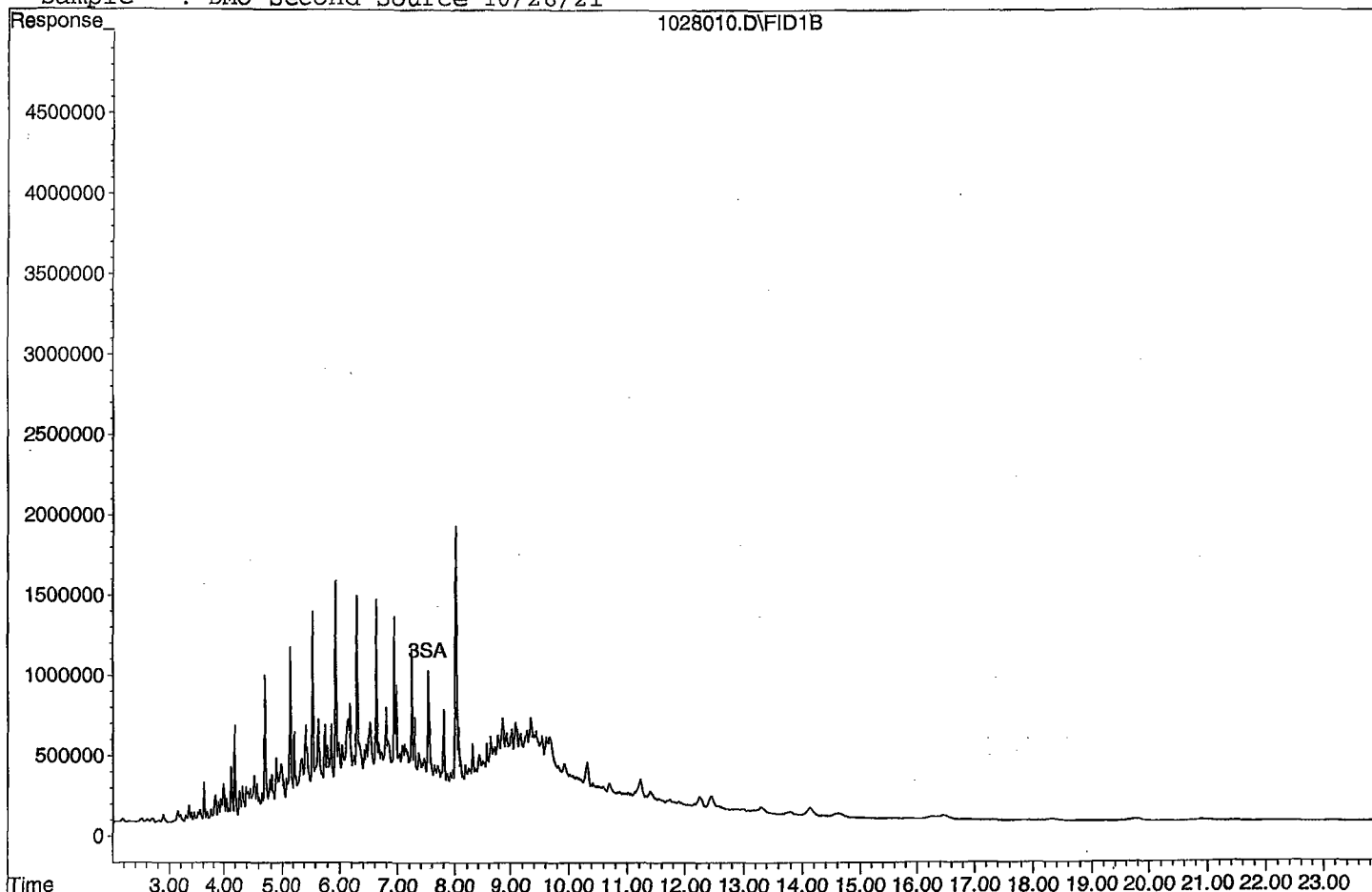
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.53	4250105	0.679 ppb
Surrogate Spike 30.000		Recovery =	2.26%
4) SA Octacosane(S)	9.83	-3553	N.D. ppb
Surrogate Spike 30.000		Recovery =	0.00%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	1133202337	225.139 ppb
2) HBTM Motor Oil (C24-C40)	14.96	831758038	235.148 ppb
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\211028\1028010.D

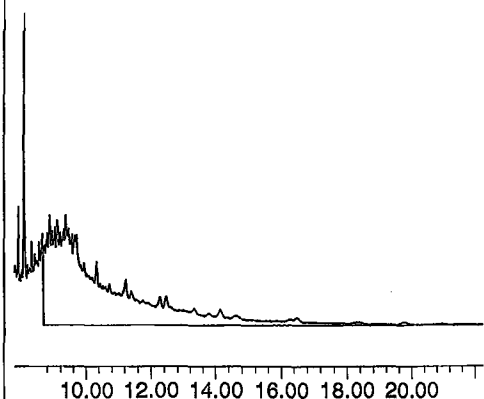
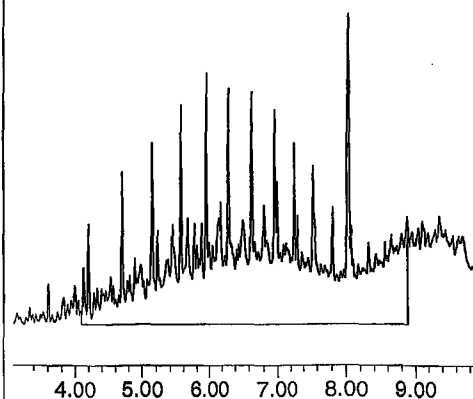
Sample : DMO Second Source 10/28/21

1028010.D\FID1B

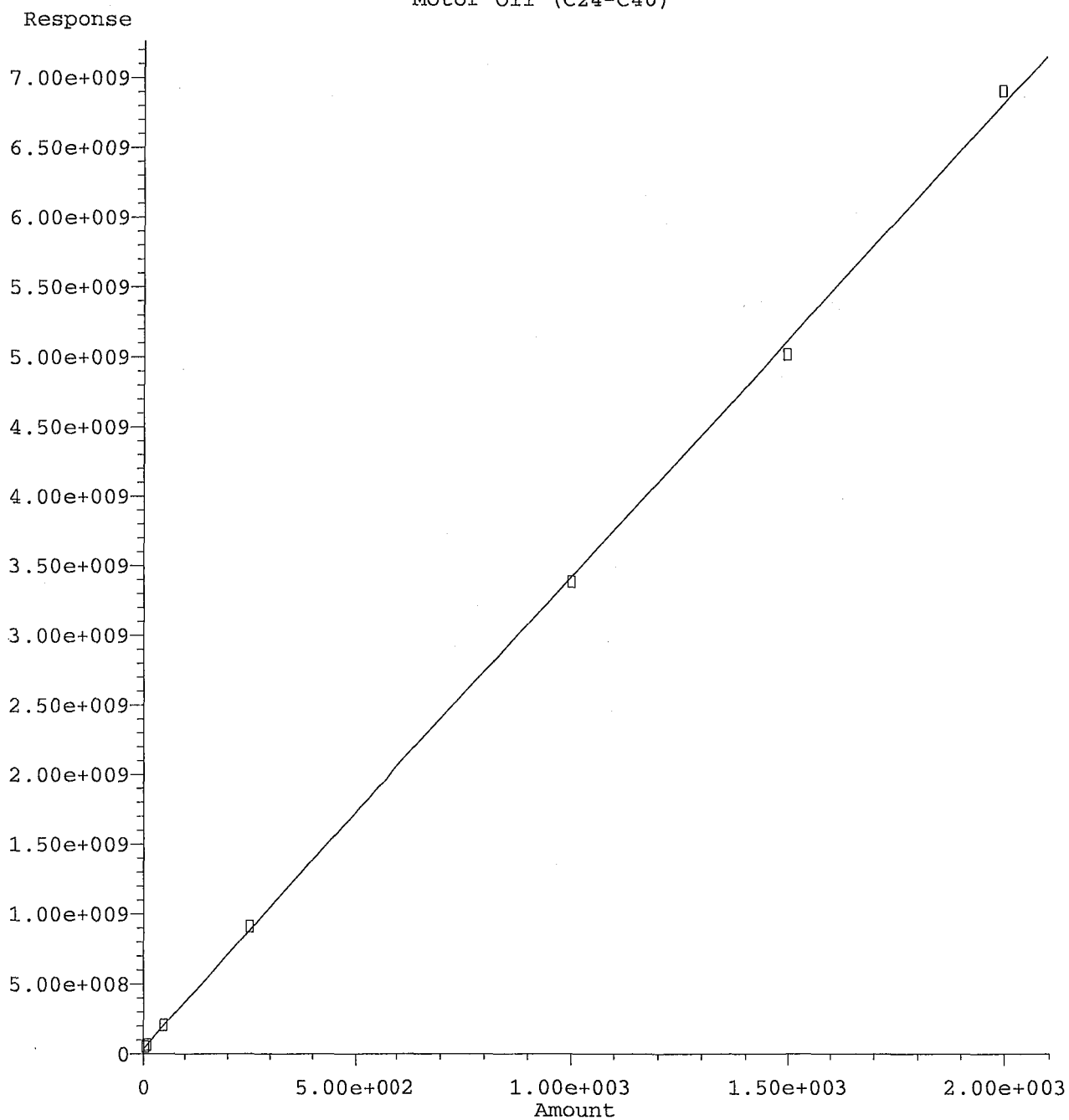


Diesel (C10-C24)

Motor Oil (C24-C40)



Motor Oil (C24-C40)



Response =  $3.39e+006 * Amt + 3.42e+007$   
Coef of Det ( $r^2$ ) = 1.000 Curve Fit: wlr(1/a)

Method Name: G:\APOLLO\DATA\211028\DOC1028.M  
Calibration Table Last Updated: Thu Oct 28 15:37:06 2021

TPH Extractables  
DOC1028

Form 7  
Continuing Calibration

Lab Name: APPL, Inc.  
Case No: \_\_\_\_\_  
Matrix: Water

SDG No: \_\_\_\_\_  
Date Analyzed: 12/3/2021  
Instrument: Apollo  
Initial Cal. Date: 10/28/2021  
Data File: 1202039.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C24)	2516670	2648030	5.2	HATM	
2	HBTM	Motor Oil (C24-C40)	2492040	1912280	23	HBTML	12
3	SA	Ortho-Terphenyl(S)	3127510	2638380	16	SA	
4	SA	Octacosane(S)	2261430	2411190	6.6	SA	
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Average

12.7

Data File : G:\APOLLO\DATA\211202\1202039.D Vial: 39  
 Acq On : 12-3-21 8:03:38 Operator: KA  
 Sample : DMO STD DF2 10/06/21 Inst : Apollo  
 Misc : water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Dec 3 12:34 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211202\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Fri Dec 03 08:22:29 2021  
 Response via : Multiple Level Calibration

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

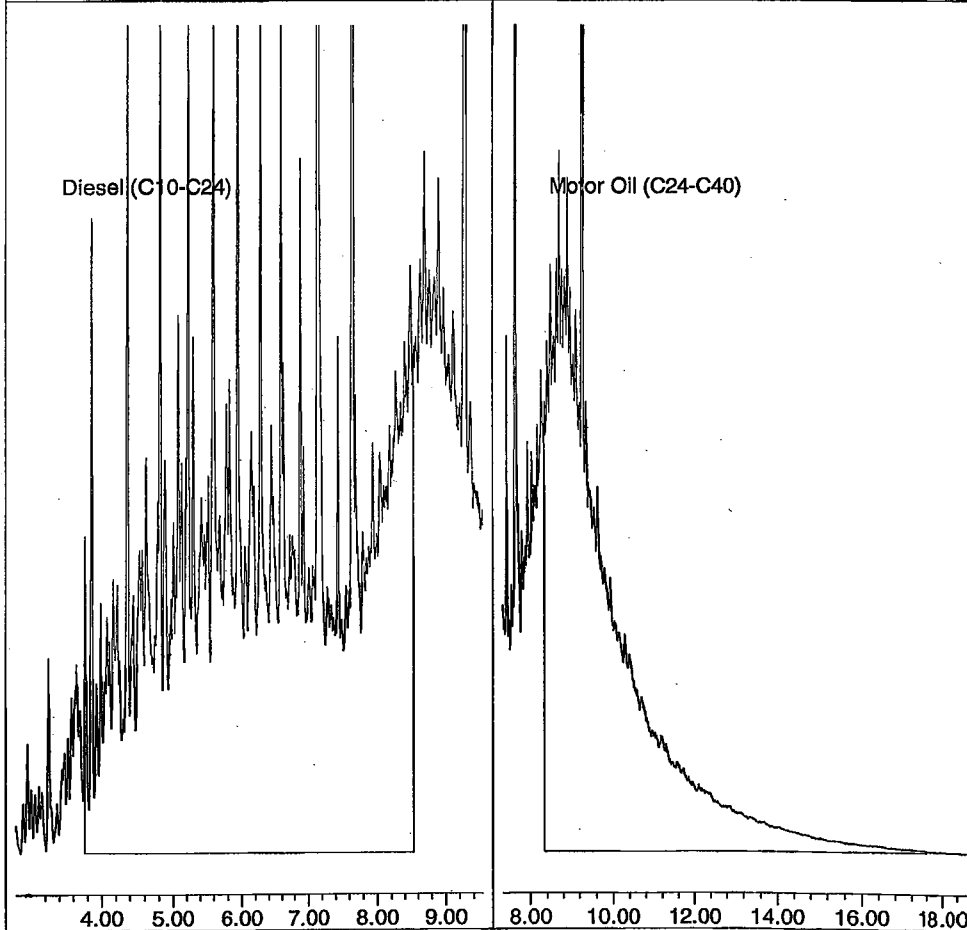
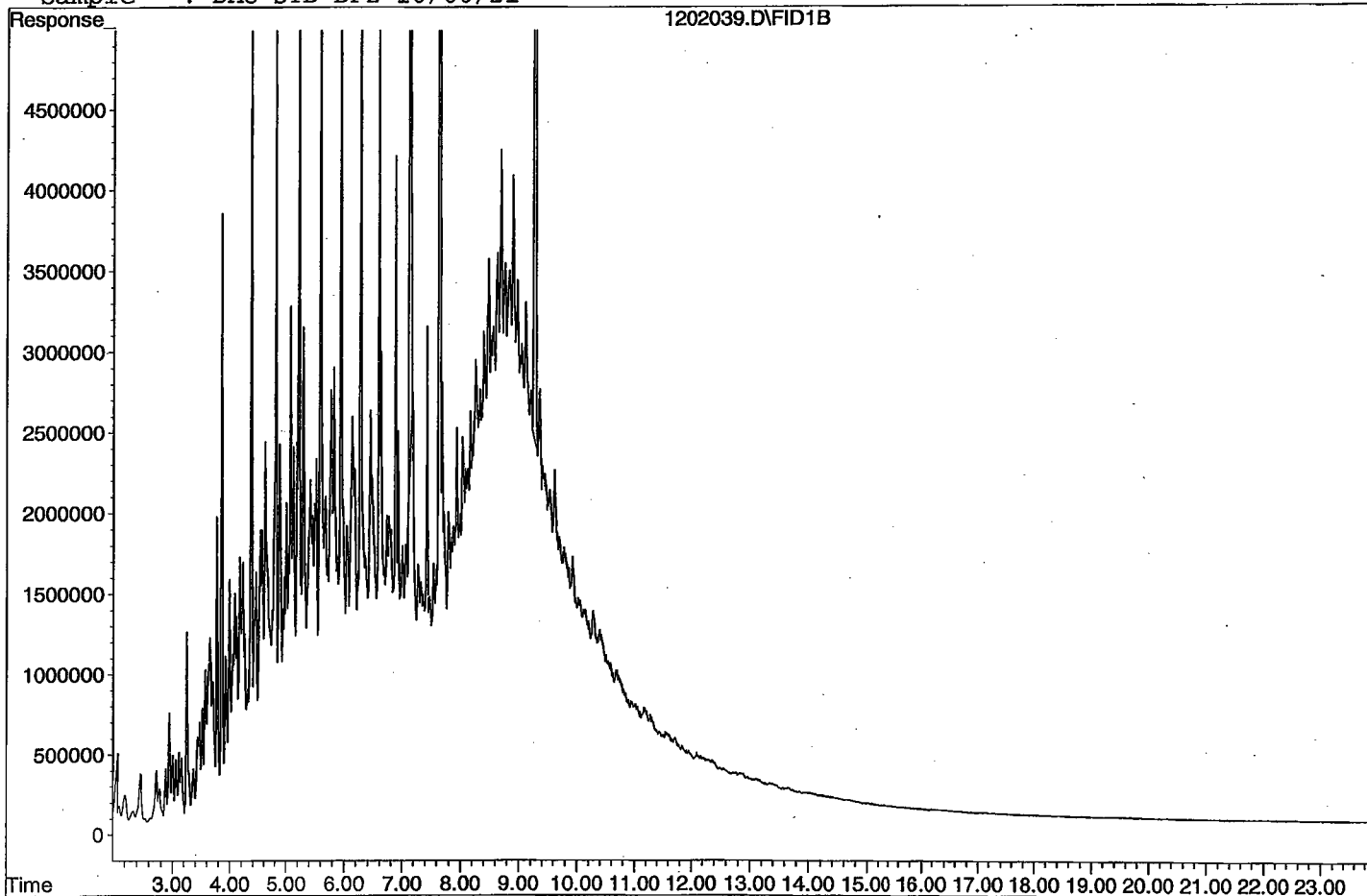
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.14	263837915	42.180 ppb
Surrogate Spike 30.000		Recovery =	140.60%
4) SA Octacosane(S)	9.27	241119122	53.311 ppb
Surrogate Spike 30.000		Recovery =	177.70%
Target Compounds			
1) HATM Diesel (C10-C24)	6.15	5296066413	1052.198 ppb
2) HBTM Motor Oil (C24-C40)	12.97	3824568635	1117.501 ppb
Target Compounds			



Quantitation Report

Data File: G:\APOLLO\DATA\211202\1202039.D

Sample : DMO STD DF2 10/06/21



TPH Extractables  
DOC1028

Form 7

Continuing Calibration

Lab Name: APPL, Inc.  
Case No: \_\_\_\_\_  
Matrix: Water

SDG No: \_\_\_\_\_  
Date Analyzed: 12/3/2021  
Instrument: Apollo  
Initial Cal. Date: 10/28/2021  
Data File: 1202056.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C24)	2516670	2757150	9.6	HATM	
2	HBTM	Motor Oil (C24-C40)	2492040	1980050	21	HBTML	16
3	SA	Ortho-Terphenyl(S)	3127510	2283620	27	SA	*
4	SA	Octacosane(S)	2261430	2513390	11	SA	
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40		Average			17.2		

Data File : G:\APOLLO\DATA\211202\1202056.D Vial: 56  
 Acq On : 12-3-21 16:05:12 Operator: KA  
 Sample : DMO STD DF2 10/06/21 Inst : Apollo  
 Misc : water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Dec 11 19:38 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211202\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Fri Dec 03 08:22:29 2021  
 Response via : Multiple Level Calibration

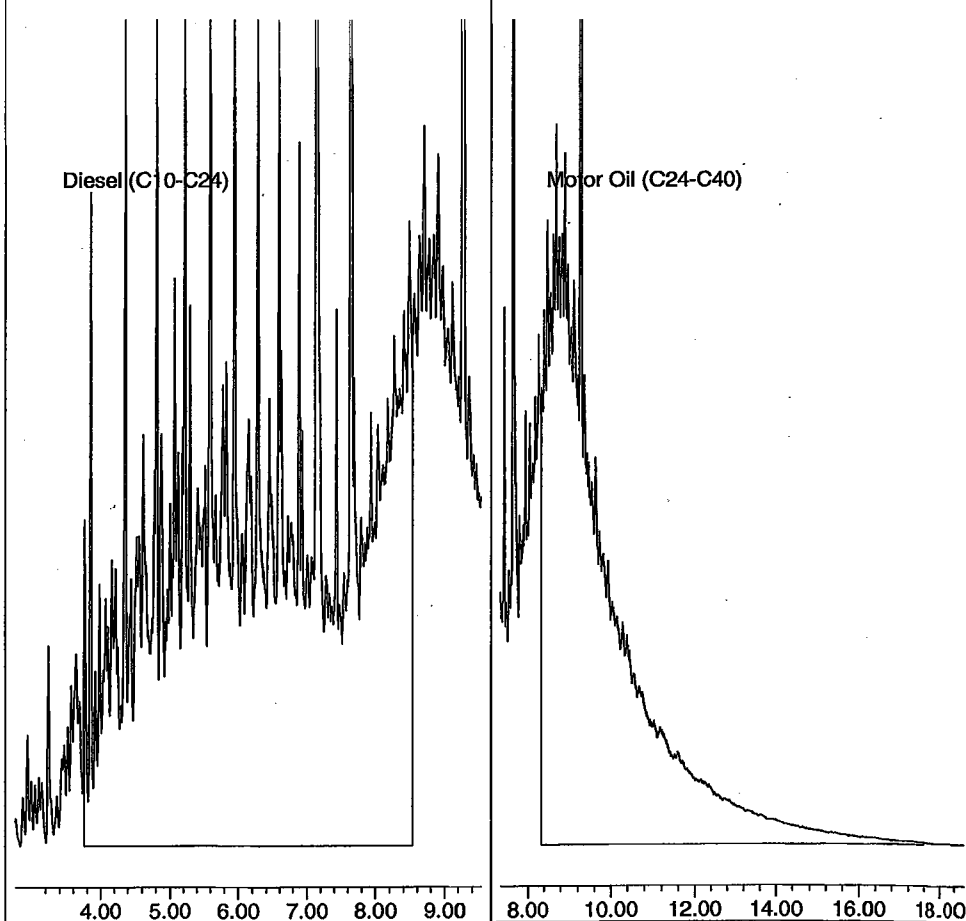
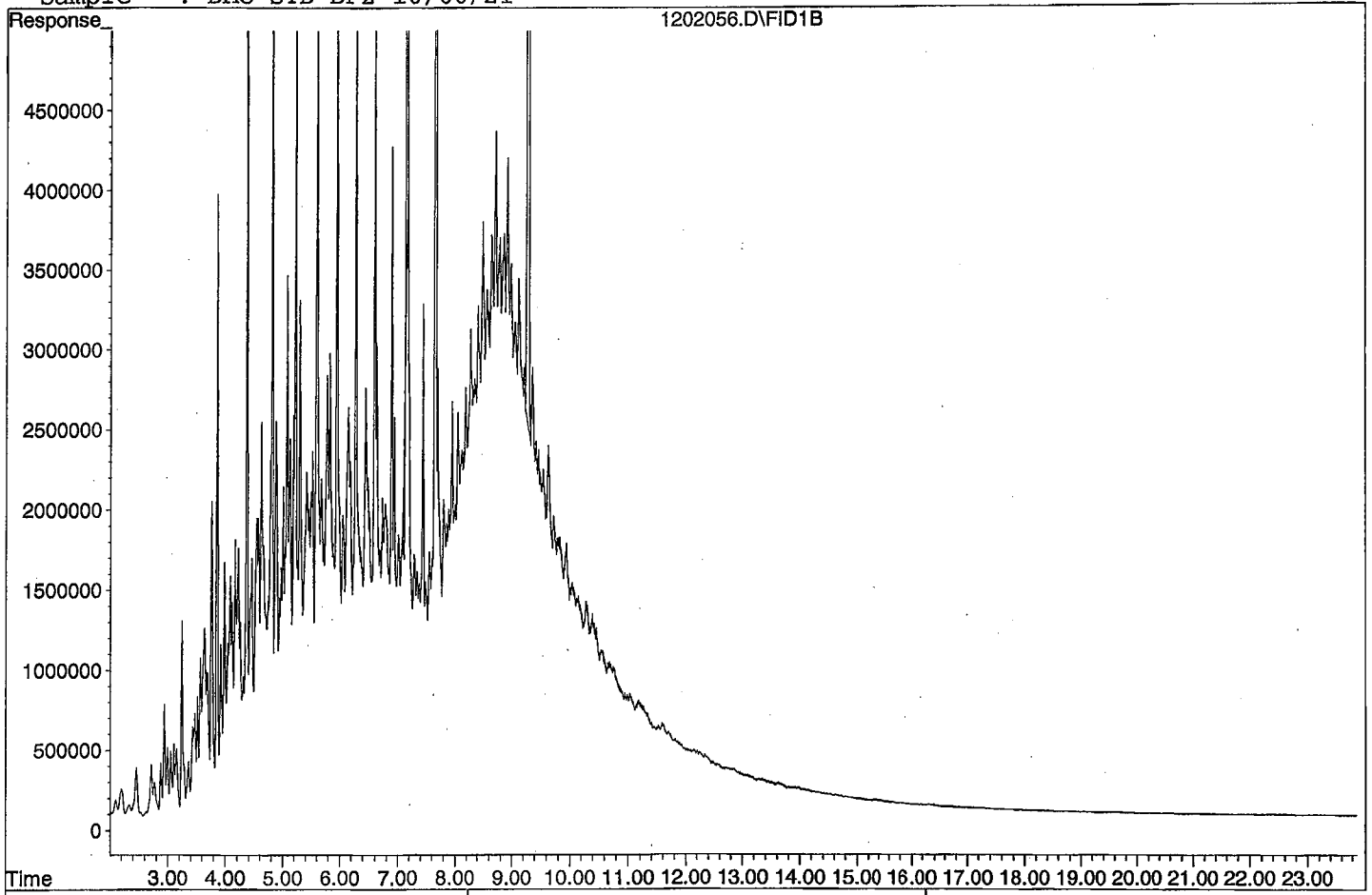
Volume Inj. : 2UL  
 Signal Phase : DB-5  
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.14	228361958	36.509 ppb
Surrogate Spike 30.000		Recovery =	121.70%
4) SA Octacosane(S)	9.27	251339066	55.571 ppb
Surrogate Spike 30.000		Recovery =	185.24%
Target Compounds			
1) HATM Diesel (C10-C24)	6.15	5514299430	1095.555 ppb
2) HBTM Motor Oil (C24-C40)	12.97	3960094721	1157.457 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211202\1202056.D  
Sample : DMO STD DF2 10/06/21



TPH Extractables  
DOC1028

Form 7  
Continuing Calibration

Lab Name: APPL, Inc.  
Case No: \_\_\_\_\_  
Matrix: Water

SDG No: \_\_\_\_\_  
Date Analyzed: 12/3/2021  
Instrument: Apollo  
Initial Cal. Date: 10/28/2021  
Data File: 1202062.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C24)	2516670	2667870	6.0	HATM	
2	HBTM	Motor Oil (C24-C40)	2492040	1932210	22	HBTML	13
3	SA	Ortho-Terphenyl(S)	3127510	2671270	15	SA	
4	SA	Octacosane(S)	2261430	2408810	6.5	SA	
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40							

Average

12.4

Data File : G:\APOLLO\DATA\211202\1202062.D Vial: 62  
 Acq On : 12-3-21 18:55:09 Operator: KA  
 Sample : DMO STD DF2 10/06/21 Inst : Apollo  
 Misc : water Multiplr: 1.00  
 IntFile : events.e  
 Quant Time: Dec 6 7:47 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211202\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Fri Dec 03 08:22:29 2021  
 Response via : Multiple Level Calibration

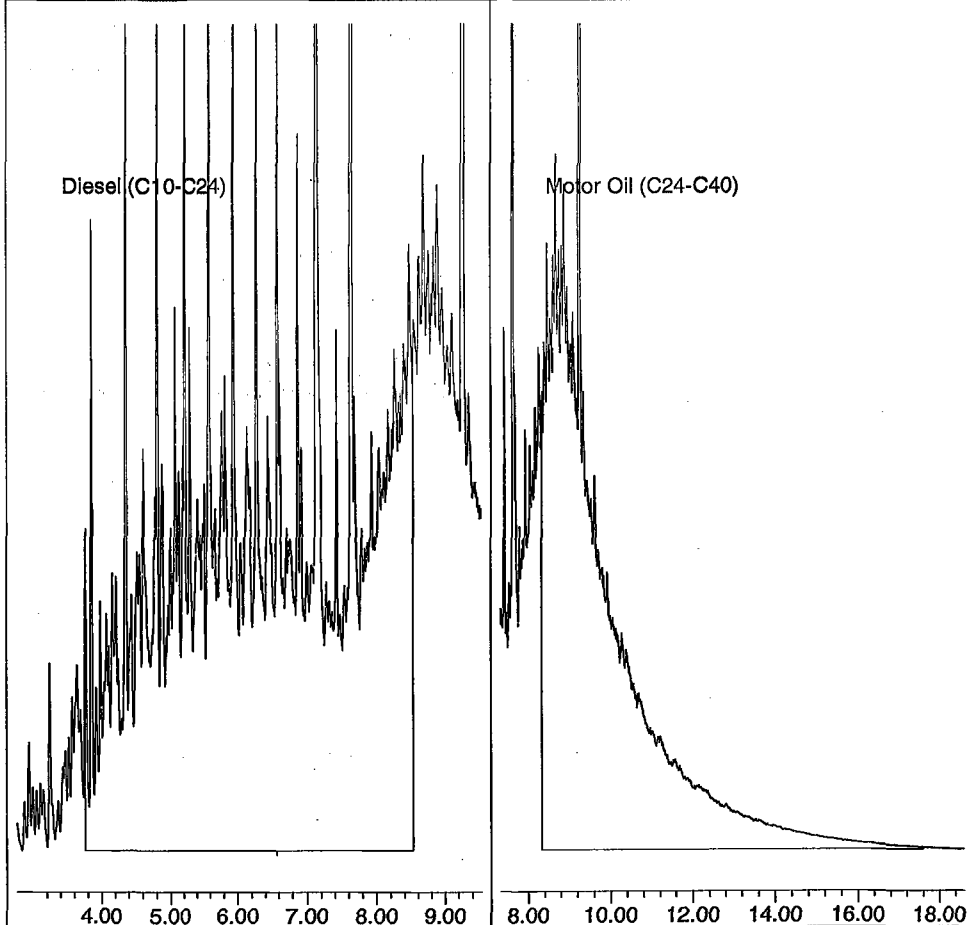
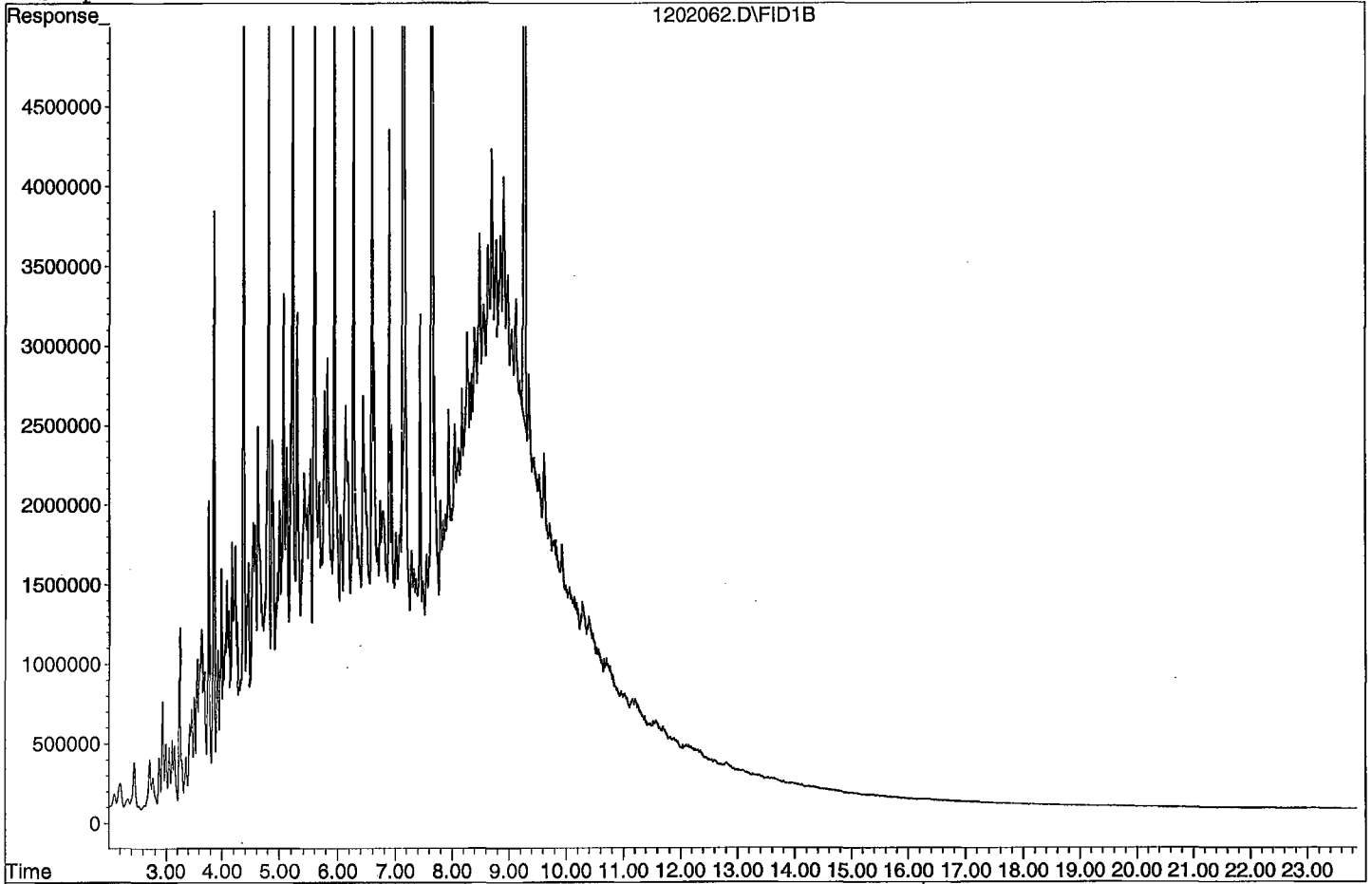
Volume Inj. : 2UL  
 Signal Phase : DB-5  
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.14	267126791	42.706 ppb
Surrogate Spike 30.000		Recovery =	142.35%
4) SA Octacosane(S)	9.27	240881383	53.259 ppb
Surrogate Spike 30.000		Recovery =	177.53%
Target Compounds			
1) HATM Diesel (C10-C24)	6.15	5335742378	1060.080 ppb
2) HBTM Motor Oil (C24-C40)	12.97	3864411721	1129.247 ppb
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\211202\1202062.D

Sample : DMO STD DF2 10/06/21



**ORGANICS**  
**Raw Data**



Data File : G:\APOLLO\DATA\211202\1202058.D Vial: 58  
 Acq On : 12-3-21 17:02:02 Operator: KA  
 Sample : BA46986W01 5/1000 Inst : Apollo  
 Misc : water Multiplr: 5.00  
 IntFile : events.e  
 Quant Time: Dec 11 19:36 2021 Quant Results File: DOC1028.RES

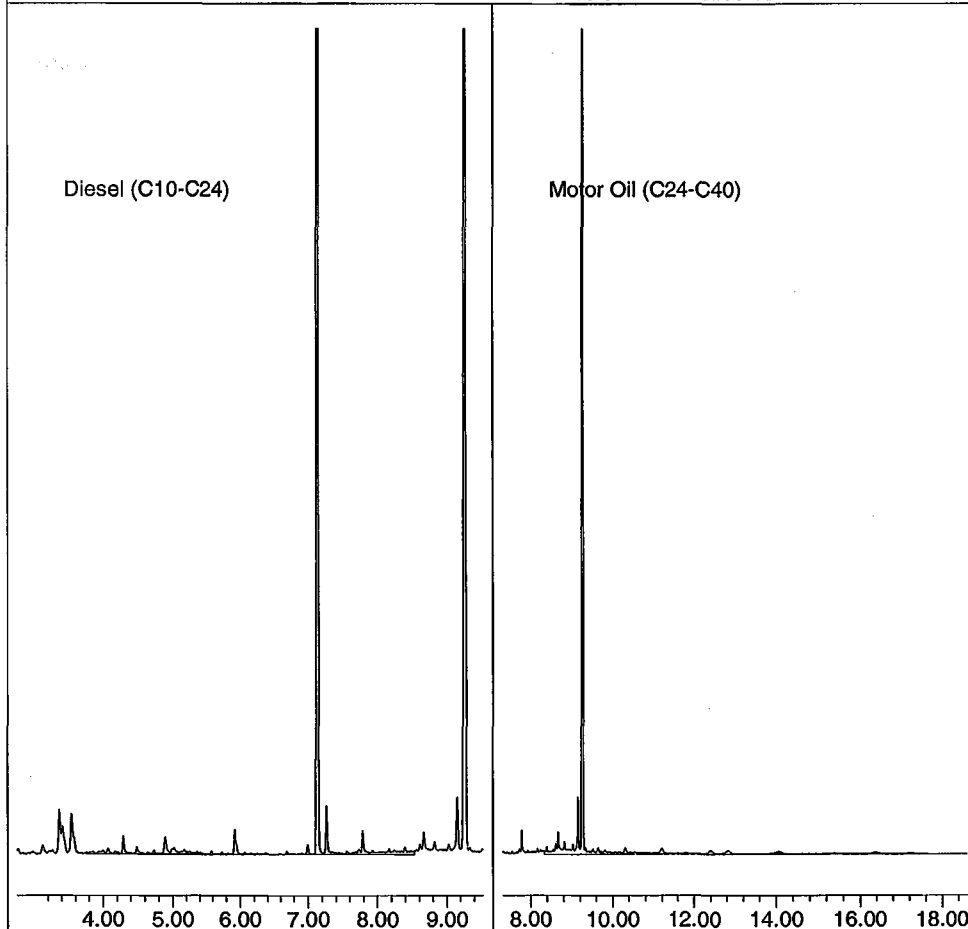
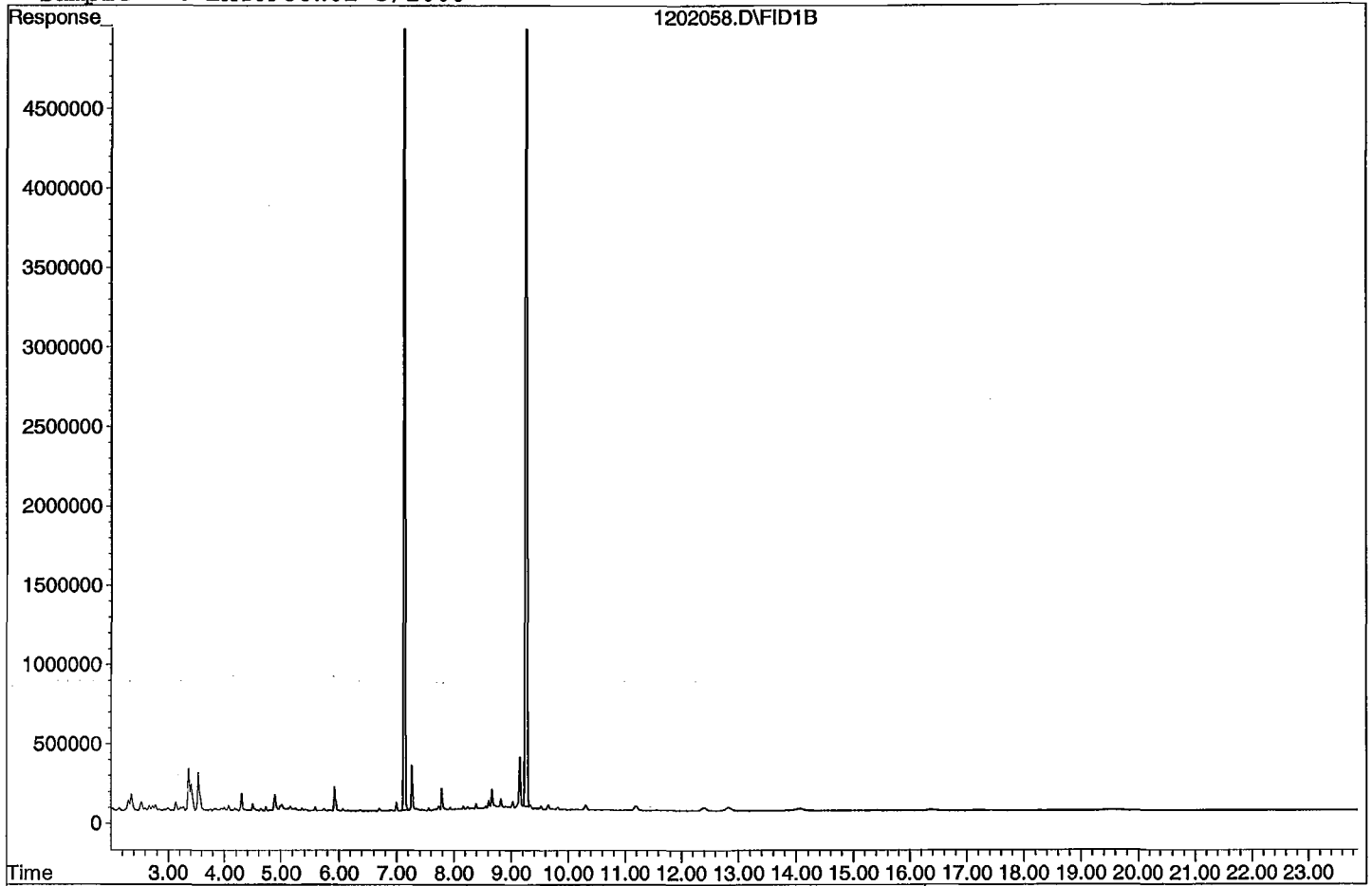
Method : G:\APOLLO\DATA\211202\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Fri Dec 03 08:22:29 2021  
 Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.13	148245945	118.502 ppb
Surrogate Spike 150.000		Recovery =	79.00%
4) SA Octacosane(S)	9.26	134305171	148.474 ppb
Surrogate Spike 150.000		Recovery =	98.98%
Target Compounds			
1) HATM Diesel (C10-C24)	6.15	40021309	39.756 ppb
2) HBTM Motor Oil (C24-C40)	12.97	58218384	35.448 ppb
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\211202\1202058.D  
Sample : BA46986W01 5/1000



Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\211202\1202059.D Vial: 59  
 Acq On : 12-3-21 17:30:23 Operator: KA  
 Sample : BA46987W01 5/1000 Inst : Apollo  
 Misc : water Multiplr: 5.00  
 IntFile : events.e  
 Quant Time: Dec 11 19:37 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211202\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Fri Dec 03 08:22:29 2021  
 Response via : Multiple Level Calibration

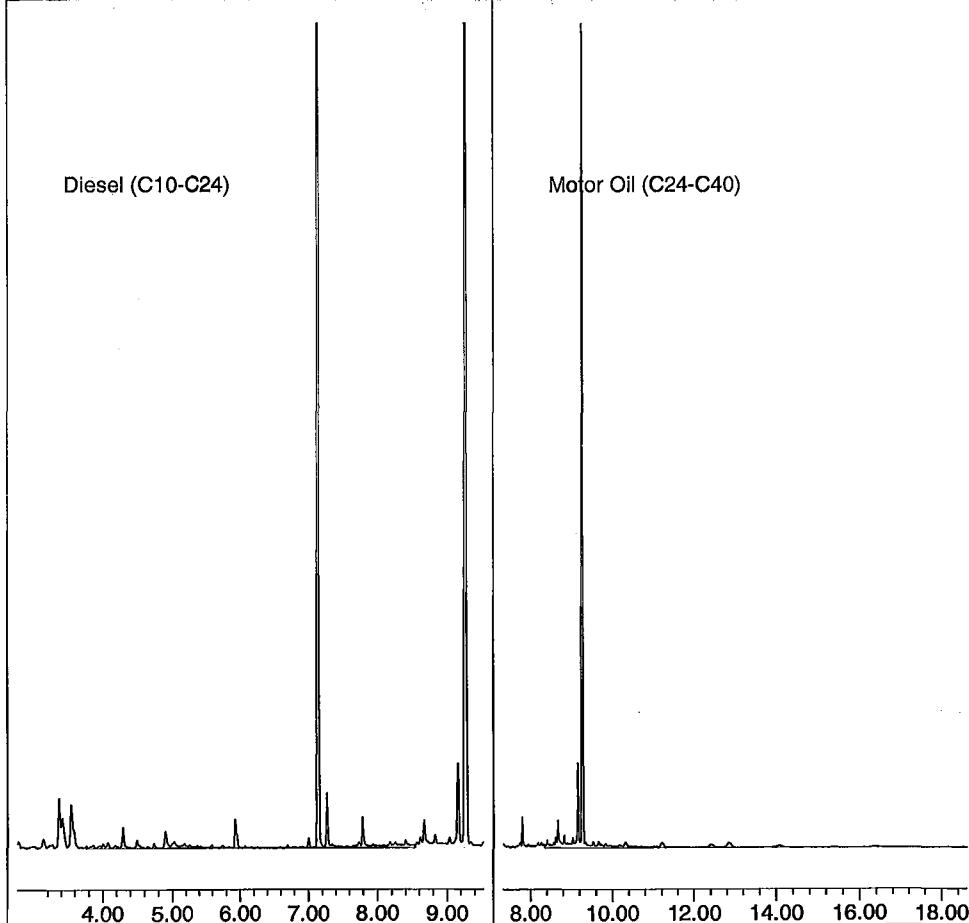
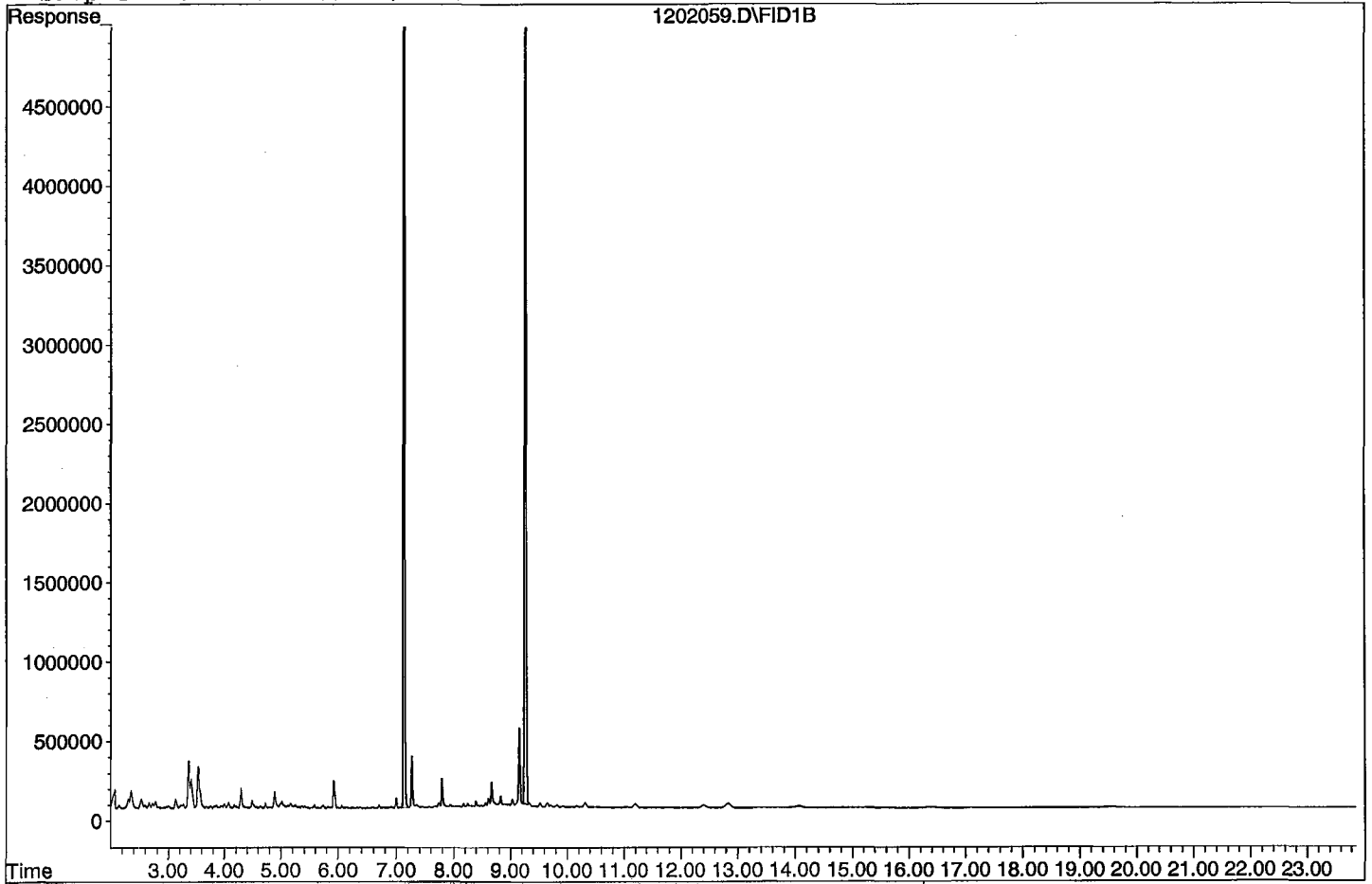
Volume Inj. : 2UL  
 Signal Phase : DB-5  
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl (S)	7.13	141776010	113.330 ppb
Surrogate Spike 150.000		Recovery =	75.55%
4) SA Octacosane (S)	9.26	128275094	141.808 ppb
Surrogate Spike 150.000		Recovery =	94.54%
Target Compounds			
1) HATM Diesel (C10-C24)	6.15	43638366	43.349 ppb
2) HBTM Motor Oil (C24-C40)	12.97	60107521	38.233 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211202\1202059.D  
Sample : BA46987W01 5/1000



Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\211202\1202055.D Vial: 55  
 Acq On : 12-3-21 15:36:46 Operator: KA  
 Sample : BA46988W01 5/1000 Inst : Apollo  
 Misc : water Multiplr: 5.00  
 IntFile : events.e  
 Quant Time: Dec 11 19:36 2021 Quant Results File: DOC1028.RES

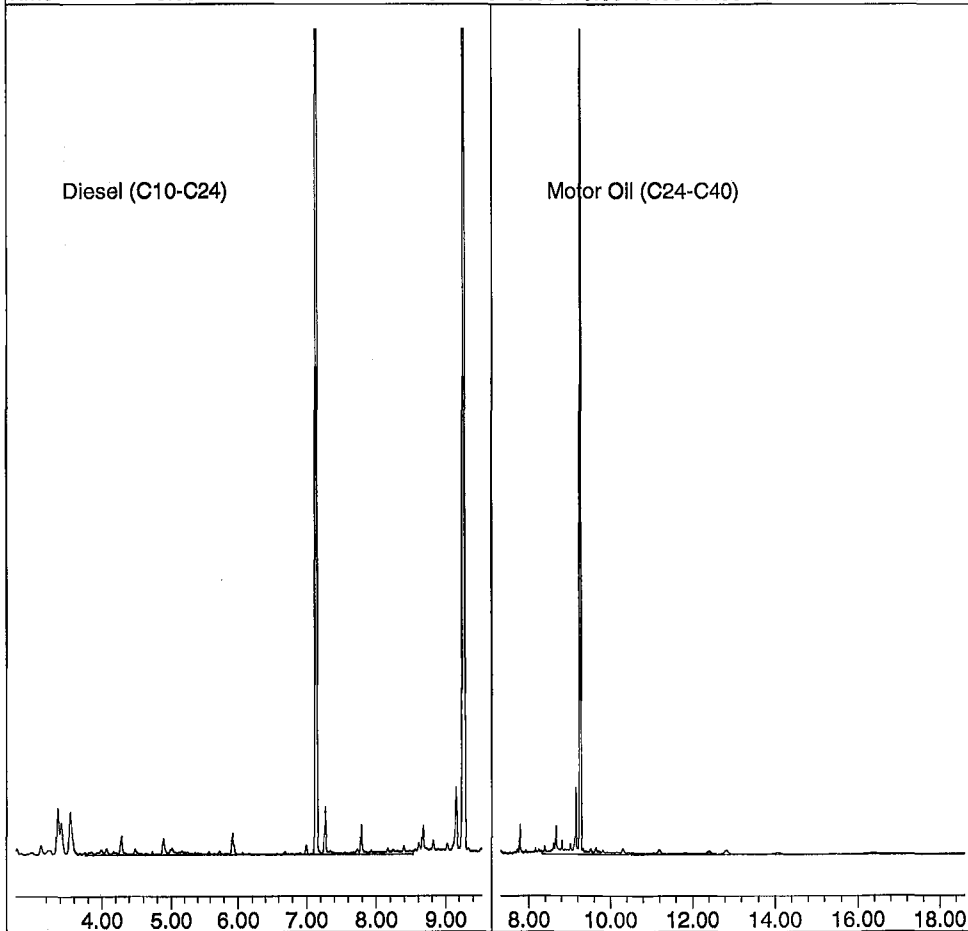
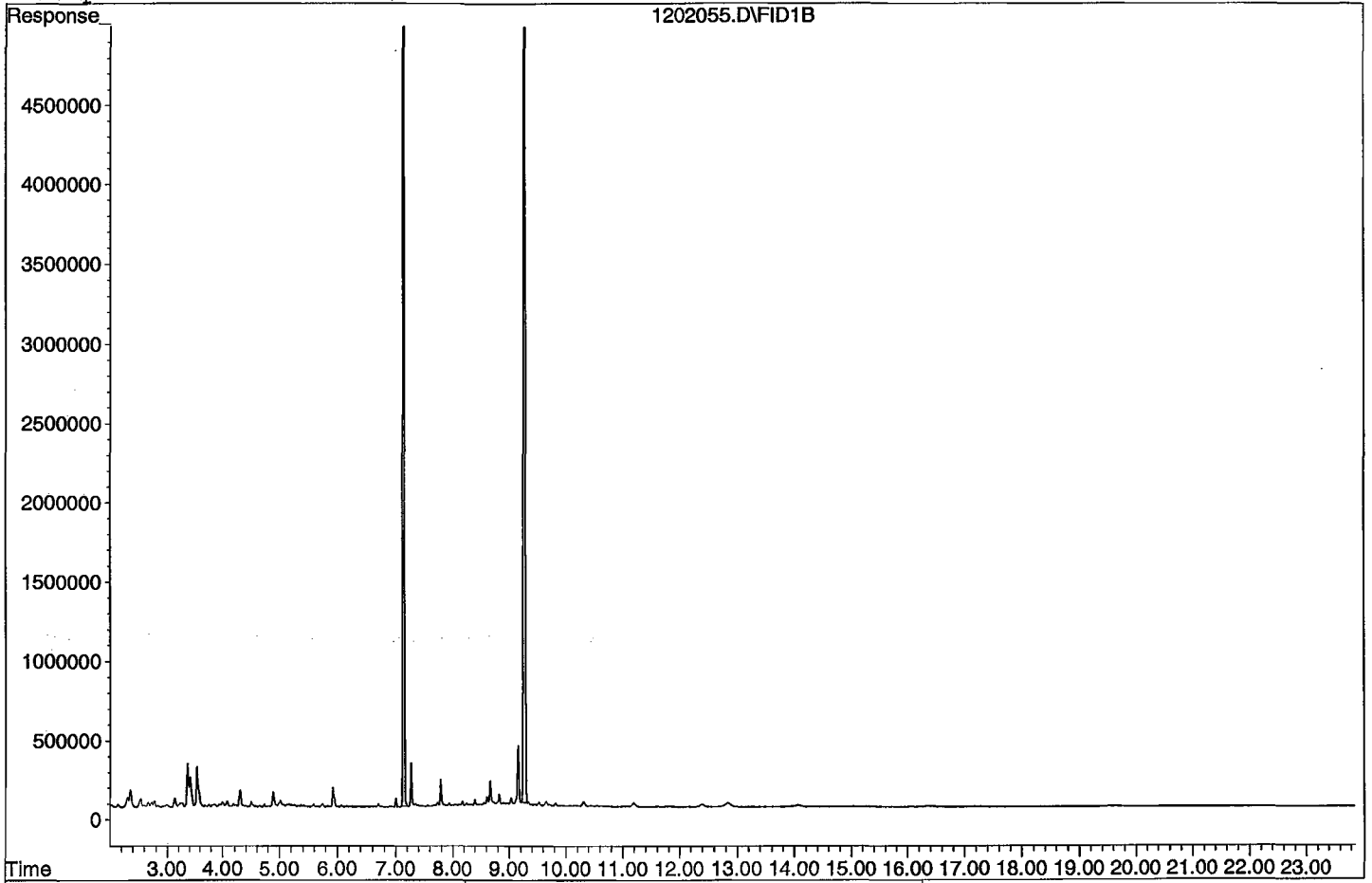
Method : G:\APOLLO\DATA\211202\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Fri Dec 03 08:22:29 2021  
 Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.13	151379197	121.006 ppb
Surrogate Spike 150.000		Recovery =	80.67%
4) SA Octacosane(S)	9.26	137495309	152.001 ppb
Surrogate Spike 150.000		Recovery =	101.33%
Target Compounds			
1) HATM Diesel (C10-C24)	6.15	40632807	40.364 ppb
2) HBTM Motor Oil (C24-C40)	12.97	54991010	30.691 ppb
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\211202\1202055.D  
Sample : BA46988W01 5/1000



Data File : G:\APOLLO\DATA\211202\1202057.D Vial: 57  
 Acq On : 12-3-21 16:33:40 Operator: KA  
 Sample : BA46989W01 5/1000 Inst : Apollo  
 Misc : water Multiplr: 5.00  
 IntFile : events.e  
 Quant Time: Dec 11 19:36 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211202\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Fri Dec 03 08:22:29 2021  
 Response via : Multiple Level Calibration

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

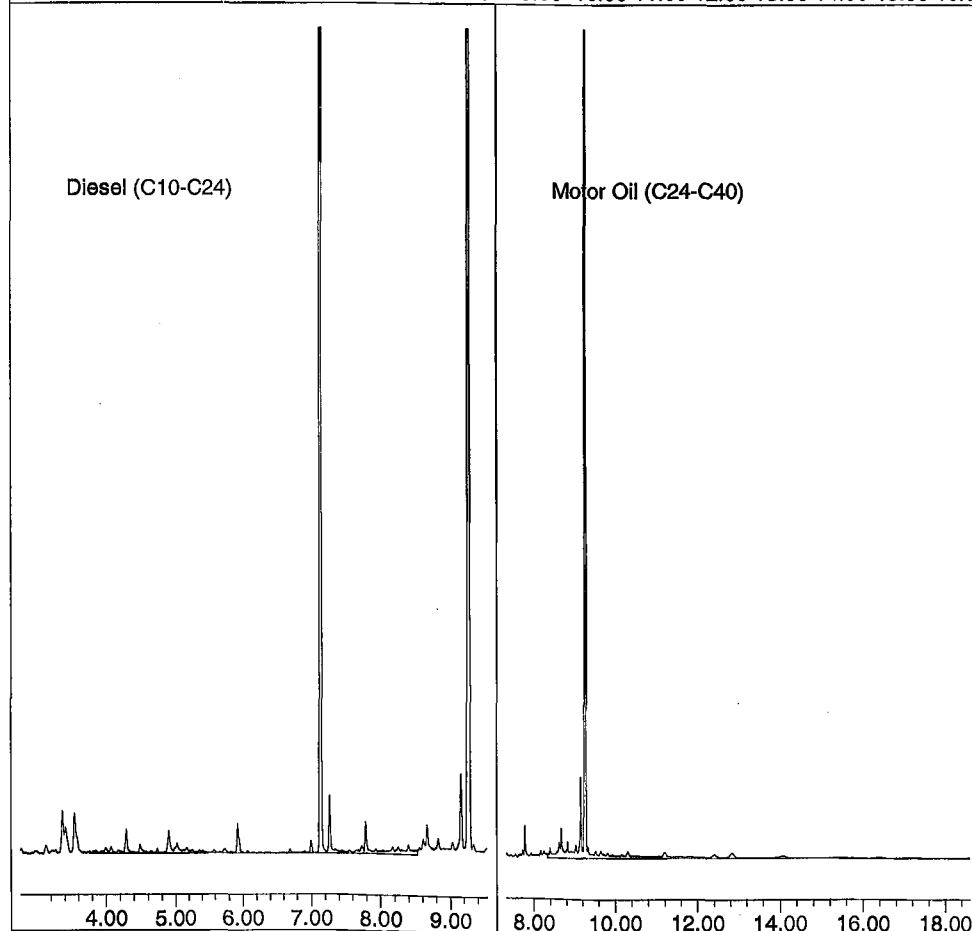
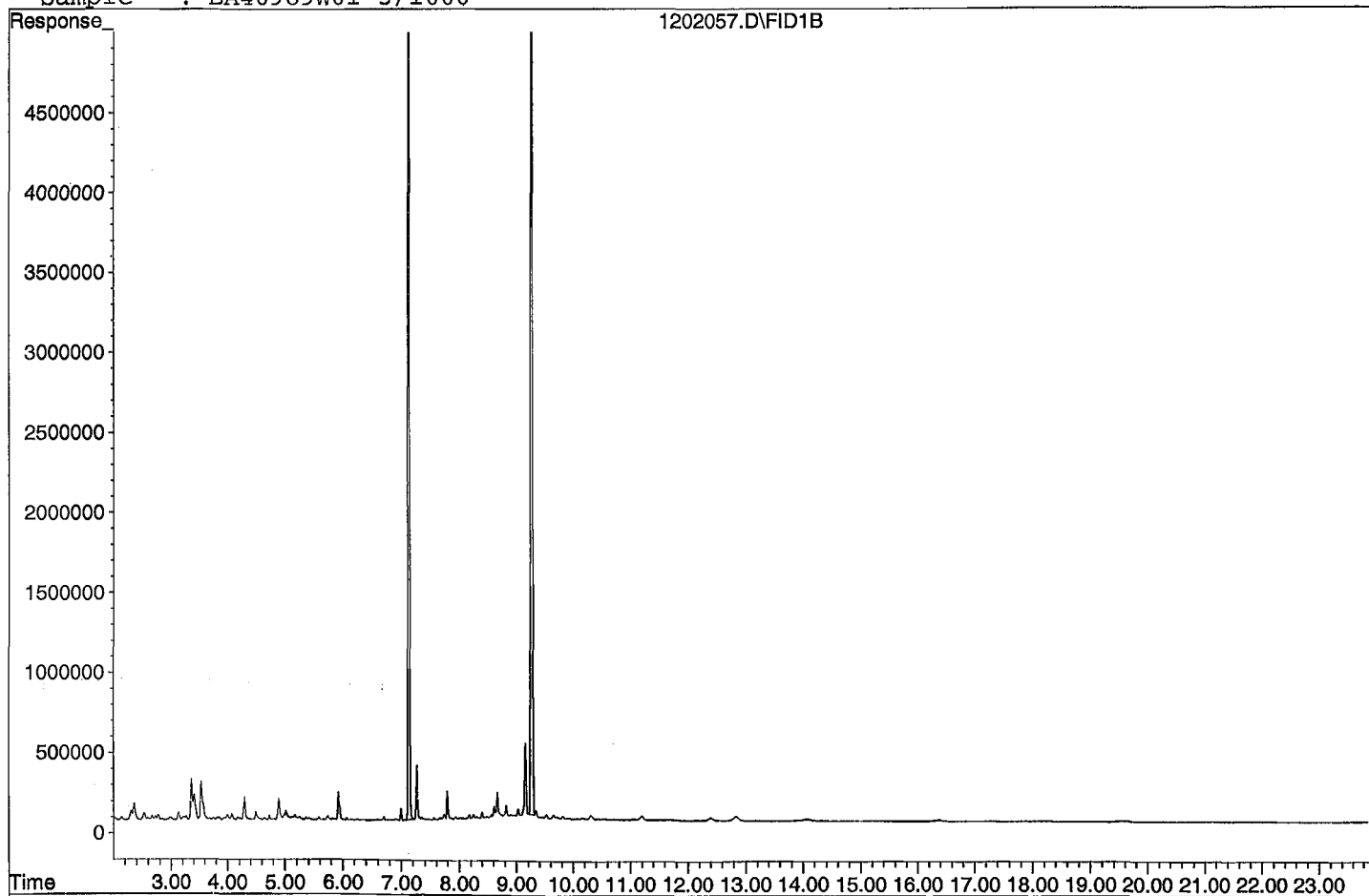
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.13	159250101	127.298 ppb
Surrogate Spike 150.000		Recovery =	84.87%
4) SA Octacosane(S)	9.26	144870029	160.153 ppb
Surrogate Spike 150.000		Recovery =	106.77%
Target Compounds			
1) HATM Diesel (C10-C24)	6.15	51655950	51.314 ppb
2) HBTM Motor Oil (C24-C40)	12.97	80622053	68.474 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211202\1202057.D

Sample : BA46989W01 5/1000





Data File : G:\APOLLO\DATA\211202\1202047.D Vial: 47  
 Acq On : 12-3-21 11:48:57 Operator: KA  
 Sample : 211130A BLK 5/1000 Inst : Apollo  
 Misc : water Multiplr: 5.00  
 IntFile : events.e  
 Quant Time: Dec 11 19:31 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211202\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Fri Dec 03 08:22:29 2021  
 Response via : Multiple Level Calibration

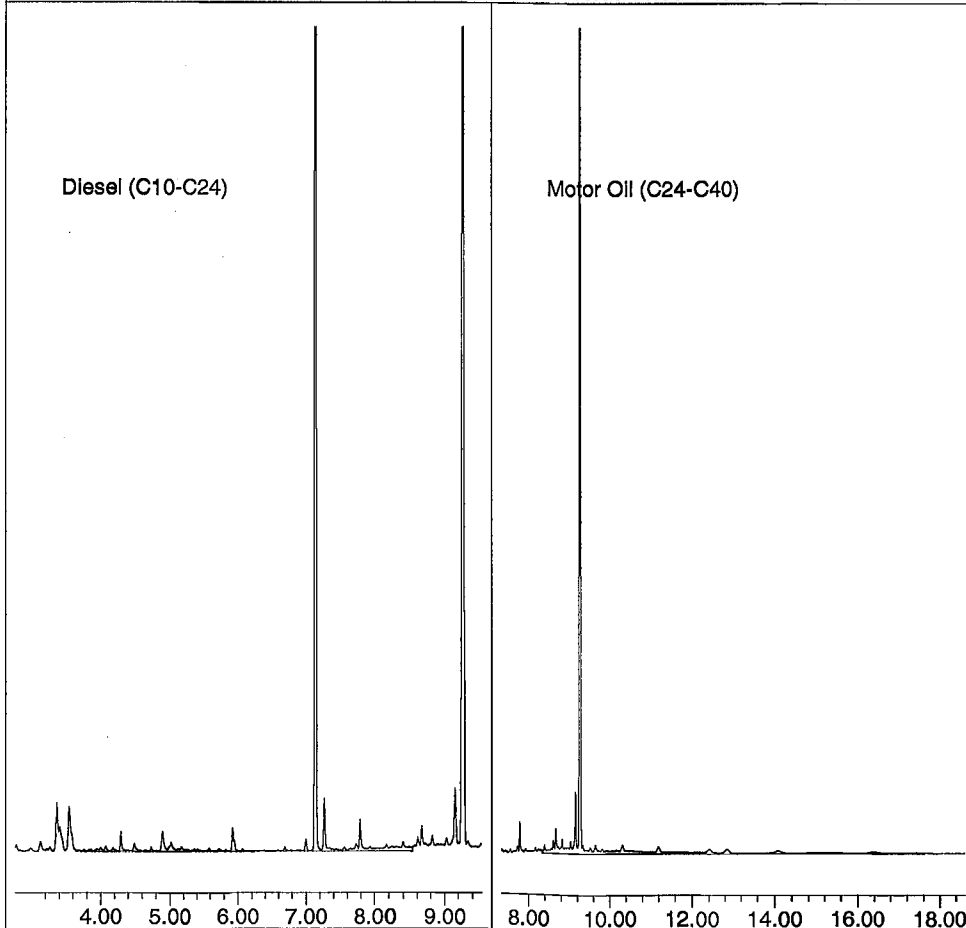
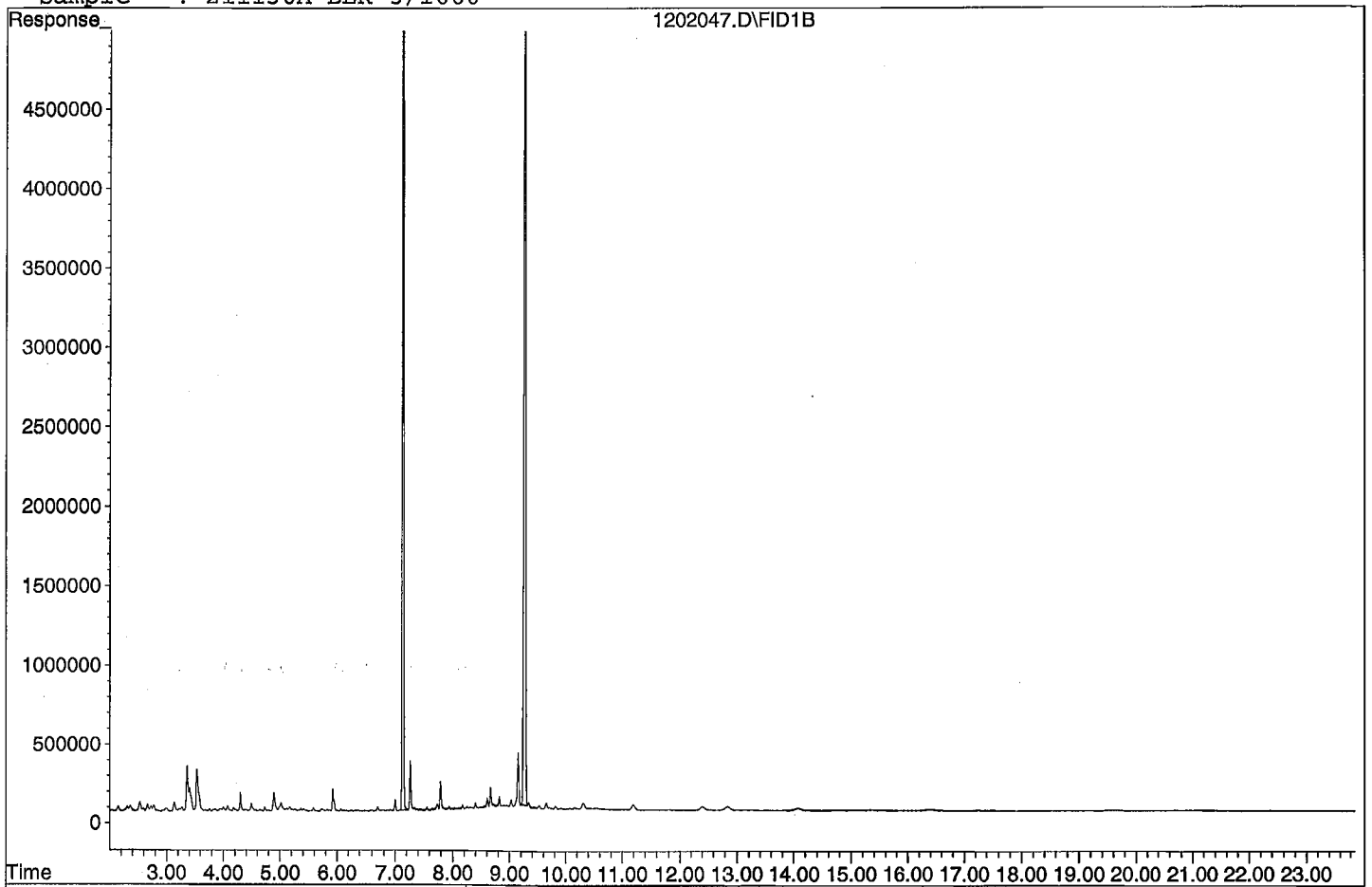
Volume Inj. : 2UL  
 Signal Phase : DB-5  
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.14	140858308	112.596 ppb
Surrogate Spike 150.000		Recovery =	75.06%
4) SA Octacosane(S)	9.26	128558729	142.121 ppb
Surrogate Spike 150.000		Recovery =	94.75%
Target Compounds			
1) HATM Diesel (C10-C24)	6.15	45287245	44.987 ppb
2) HBTM Motor Oil (C24-C40)	12.97	85288585	75.353 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211202\1202047.D  
Sample : 211130A BLK 5/1000



Data File : G:\APOLLO\DATA\211202\1202048.D Vial: 48  
 Acq On : 12-3-21 12:17:14 Operator: KA  
 Sample : 211130A LCS-1 5/1000 Inst : Apollo  
 Misc : water Multiplr: 5.00  
 IntFile : events.e  
 Quant Time: Dec 11 19:34 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211202\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Fri Dec 03 08:22:29 2021  
 Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
<b>System Monitoring Compounds</b>			
3) SA Ortho-Terphenyl (S)	7.13	136452413	109.074 ppb
Surrogate Spike 150.000		Recovery =	72.72%
4) SA Octacosane (S)	9.27	123875284	136.944 ppb
Surrogate Spike 150.000		Recovery =	91.30%
<b>Target Compounds</b>			
1) HATM Diesel (C10-C24)	6.15	34069201	33.844 ppb
2) HBTM Motor Oil (C24-C40)	12.97	65959266	46.859 ppb

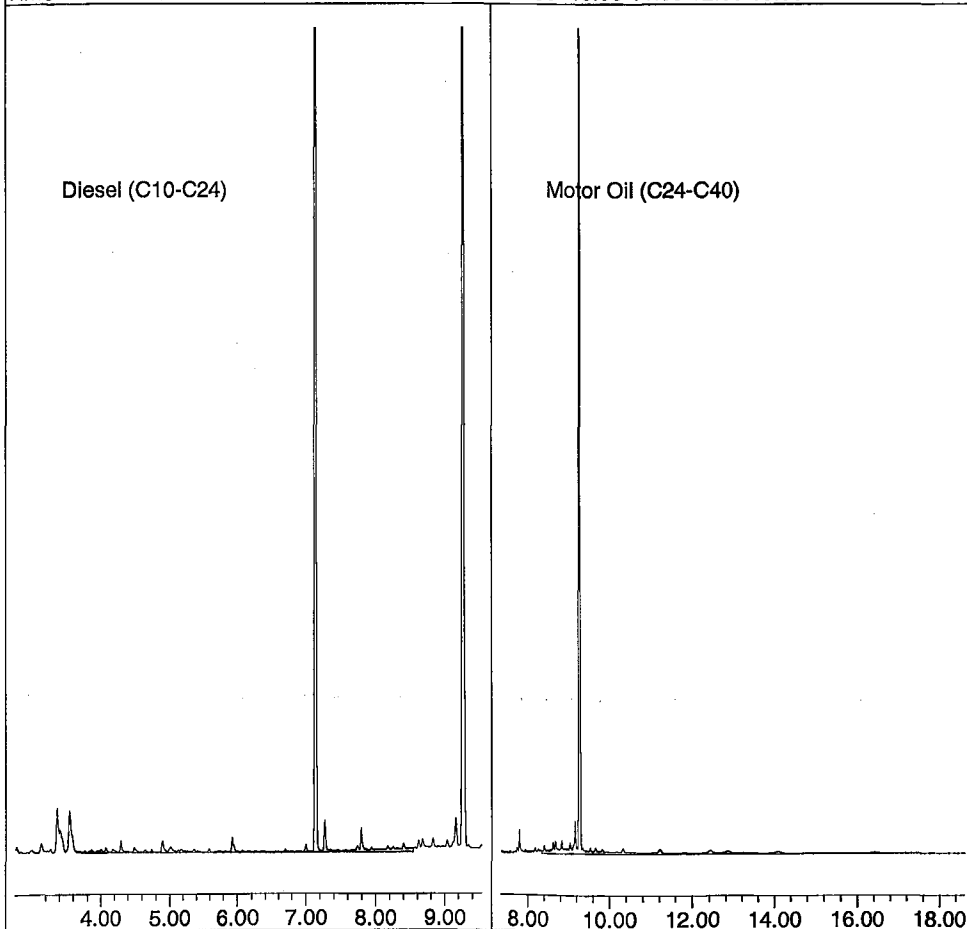
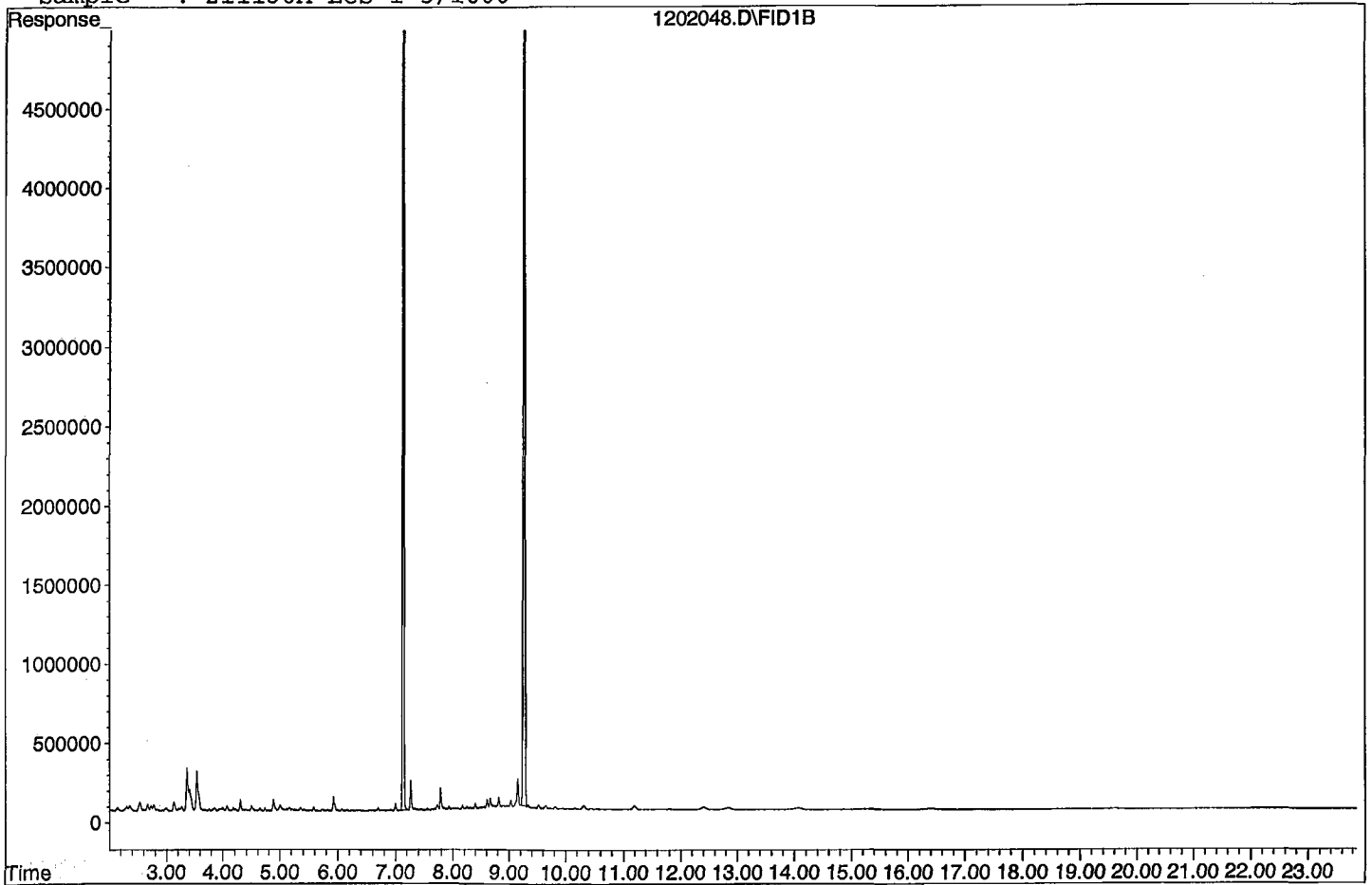
Target Compounds

Diesel:

$$\frac{(34069201)(5)}{(2516609)(2)} = \frac{170346005}{5033338} = \boxed{33.844}$$

Quantitation Report

Data File: G:\APOLLO\DATA\211202\1202048.D  
Sample : 211130A LCS-1 5/1000



Data File : G:\APOLLO\DATA\211202\1202049.D Vial: 49  
 Acq On : 12-3-21 12:45:35 Operator: KA  
 Sample : 211130A LCSD-1 5/1000 Inst : Apollo  
 Misc : water Multiplr: 5.00  
 IntFile : events.e  
 Quant Time: Dec 11 19:34 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211202\DOC1028.M (Chemstation Integrator)  
 Title : 8015 B&C  
 Last Update : Fri Dec 03 08:22:29 2021  
 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)	7.14	145666832	116.440 ppb
Surrogate Spike 150.000		Recovery =	77.63%
4) SA Octacosane(S)	9.26	132090207	146.025 ppb
Surrogate Spike 150.000		Recovery =	97.35%
Target Compounds			
1) HATM Diesel (C10-C24)	6.15	47501112	47.186 ppb
2) HBTM Motor Oil (C24-C40)	12.97	62616929	41.932 ppb

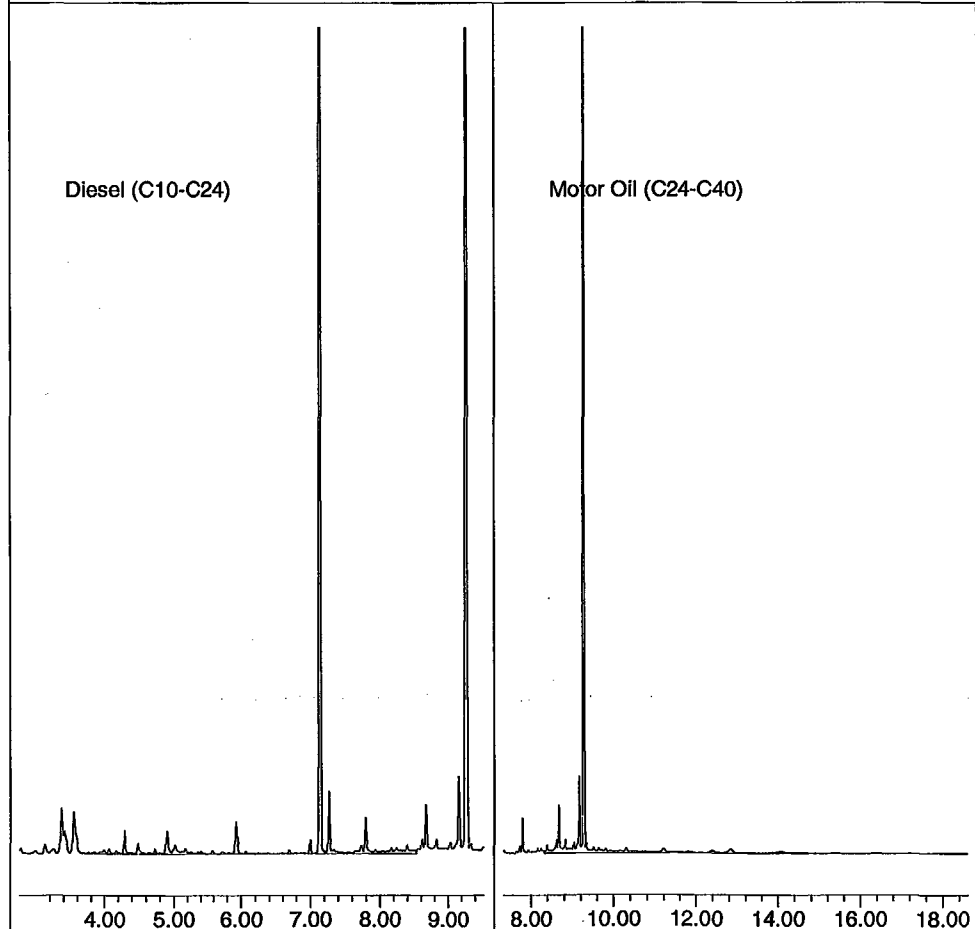
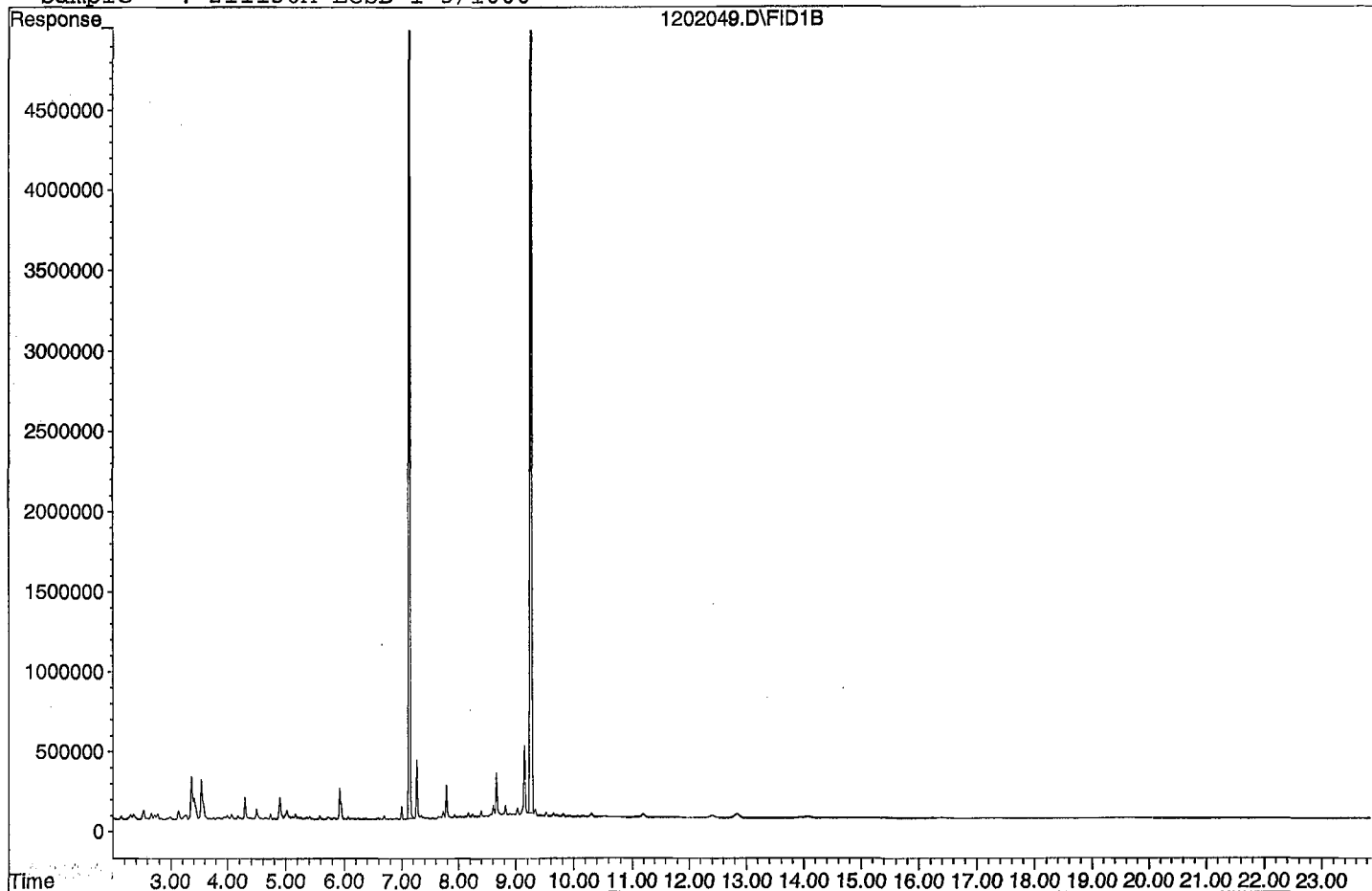
Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211202\1202049.D

Sample : 211130A LCSD-1 5/1000

1202049.D\FID1B



## Diesel / Motor Oil Calibration Curve

Prepared: 10/28/2021

Expires: 5/31/2026

Prepared By (Initials): KA

Methylene

Chloride

Lot No. 61117

Initial Standard Information							Final Standard			
Name of Initial Standard (QAU Label)	Supplier	Conc. (ug/mL)	APPL Mix Name	Reference to APPL Prep Date and Lot #'s	Exp. Date	Exp. Date (Manufacturer)	Allquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel / Motor Oil - 2	APPL	10	Diesel / Motor Oil - 1	Perp'd: 10/6/21 A0164485-52822, A0168842-52820, A0168610-52817 CL16893-52835	See man. Exp date	10/31/2027 12/31/2027 5/31/2026	100uL	200uL	MC	5
Diesel / Motor Oil - 3		50	Diesel / Motor Oil - 2				200uL	1mL	MC	10
Diesel / Motor Oil Calibration STD	Restek	2,000	Diesel / Motor Oil - 3				25uL	1mL	MC	50
			Diesel / Motor Oil - 4				125uL	1mL	MC	250
			Diesel / Motor Oil - 5				500uL	1mL	MC	1000
			Diesel / Motor Oil - 6				750uL	1mL	MC	1500
			Diesel / Motor Oil - 7				100uL	100uL	N/A	2,000

**Diesel / Motor Oil Second Source**

**Prepared: 10/28/2021**

**Expires: 10/28/2024**

**Prepared By (Initials): KA**

**Methylene**

**e**

**Chloride**

**Lot No. 61117**

Initial Standard Information							Final Standard			
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	Phenova	AL0-101287	50,000	CL16477-52980	See man. Exp date	2/28/2027	50uL	10mL	MC	250
Motor Oil Second Source	Absolute	51094	50,000	102819-52981		10/28/2024	50uL			



**Diesel / Motor Oil CCV**

Prepared

: 10/6/2021

Expires: 5/31/2026

Prepared By (Initials): KA

Methylene

e

Chloride

Lot No. 61117

Initial Standard Information							Final Standard			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference to APPL Prep Date and Lot #'s	Exp. Date	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel / Motor Oil STD	Restek	Diesel / Motor Oil CCV	2,000	Perp'd: 10/06/21 A0164485-52822, A0168842-52820, A0166510-52817, CL16893-52835	9/17/2022	10/31/2027 12/31/2027 5/31/2026	1250uL	10mL	MC	250

**THC Surrogate****Prepared: 11/23/2021****KA****Expires: 5/31/2026**

Initial Standard Information							Final Standard			
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	CL16893-53204	See ma. Date	5/31/2026	N/A	N/A	N/A	600

# Organic Extraction Worksheet











<b>Method</b>	Continuous Liq/Liq TPH-Diesel/MO 3520C	<b>Extraction Set</b>	211130A	<b>Extraction Method</b>	LIQ005	<b>Units</b>	mL
Spiked ID 1		Surrogate ID 1	THC Surrogate 11-23-21 11-23-21				
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:		NO			
Spiked ID 7		Ext. Start Time:		11/30/21 11:50			
Spiked ID 8		Ext. End Time:		12/01/21 7:09			
<b>GC Requires Extract By:</b>							
pH1	2	11/30/21 9:00		Water Bath Temp 1 °C	43/42.1 °C		
pH2				Water Bath Temp 2 °C	39/40.1		
pH3				Water Bath Temp 3 °C	37/36.5 °C		

Spiked By: SR

Date 11/30/2021

Witnessed By: CG

Date 11/30/2021

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1 211130A Blk				0.250	1	1000	5	2	11/30/21 9:09	
					equip	E-HP3 E-WB1				
2 211130A LCS-1				0.250	1	1000	5	2	11/30/21 9:09	
					equip	E-HP4 E-WB2				
3 211130A LCSD-1				0.250	1	1000	5	2	11/30/21 9:09	
					equip	E-HP6 E-WB3				
4 BA46975	BA46975W01			0.250	1	1000	5	2	11/30/21 9:09	98336
					equip	E-HP7 E-WB1				
5 BA46976	BA46976W01			0.250	1	1000	5	2	11/30/21 9:09	98336
					equip	E-HP8 E-WB2				
6 BA46977	BA46977W01			0.250	1	1000	5	2	11/30/21 9:09	98336
					equip	E-HP9 E-WB3				
7 BA46986	BA46986W01			0.250	1	1000	5	2	11/30/21 9:09	98337
					equip	E-HP10 E-WB1				
8 BA46987	BA46987W01			0.250	1	1000	5	2	11/30/21 9:09	98337
					equip	E-HP11 E-WB2				
9 BA46988	BA46988W01			0.250	1	1000	5	2	11/30/21 9:09	98337
					equip	E-HP12 E-WB3				
10 BA46989	BA46989W01			0.250	1	1000	5	2	11/30/21 9:09	98337
					equip	E-HP13 E-WB1				

Solvent and Lot#	
1+1 HCL (5mLs)	60282
PH Strips	HC160347
Dicholormethane	61117
Filter Paper	400202
Sodium Sulfate	2021071206

Extraction COC Transfer	
Extraction lab employee Initials	KY
GC analyst's initials	KA
Date	12/2/21
Time	8:40
Refrigerator	HOBART

Technician's Initials	
Scanned By	AGM
Sample Preparation	AGM,SR
Extraction	SR
Concentration	AGM
Modified	12/2/2021 7:41:11 AM

Reviewed By: KY Date 12/2/2021

267 of 507  
Ext\_ID 73522

## Injection Log

Directory: G:\APOLLO\DATA\211028\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	3	1028003.D	1	DMO STD 1 10/28/21	water	10-28-21 9:19:03
2	4	1028004.D	1	DMO STD 2 10/28/21	water	10-28-21 9:47:06
3	5	1028005.D	1	DMO STD 3 10/28/21	water	10-28-21 10:15:13
4	6	1028006.D	1	DMO STD 4 10/28/21	water	10-28-21 10:43:31
5	7	1028007.D	1	DMO STD 5 10/28/21	water	10-28-21 11:11:42
6	8	1028008.D	1	DMO STD 6 10/28/21	water	10-28-21 11:39:55
7	9	1028009.D	1	DMO STD 7 10/28/21	water	10-28-21 12:08:10
8	10	1028010.D	1	DMO Second Source 10/28/21	water	10-28-21 12:36:26
9	39	1202039.D	1	DMO STD DF2 10/06/21	water	12-3-21 8:03:38
10	47	1202047.D	5	211130A BLK 5/1000	water	12-3-21 11:48:57
11	48	1202048.D	5	211130A LCS-1 5/1000	water	12-3-21 12:17:14
12	49	1202049.D	5	211130A LCSD-1 5/1000	water	12-3-21 12:45:35
13	55	1202055.D	5	BA46988W01 5/1000	water	12-3-21 15:36:46
14	56	1202056.D	1	DMO STD DF2 10/06/21	water	12-3-21 16:05:12
15	57	1202057.D	5	BA46989W01 5/1000	water	12-3-21 16:33:40
16	58	1202058.D	5	BA46986W01 5/1000	water	12-3-21 17:02:02
17	59	1202059.D	5	BA46987W01 5/1000	water	12-3-21 17:30:23
18	62	1202062.D	1	DMO STD DF2 10/06/21	water	12-3-21 18:55:09

**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: 10/19/2021

Instrument: KYLO

Initials: LS

1019K002.D 1019K003.D 1019K004.D 1019K005.D 1019K006.D 1019K007.D 1019K008.D 1019K009.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	TM Naphthalene	1.428	1.402	1.354	1.336	1.308	1.289	1.172	1.100			1.3	8.6	TM			0.700
3	S 2-Methylnaphthalene-D10 (2M)	1.359	1.337	1.324	1.305	1.316	1.159	1.222	1.192			1.3	5.9	S			
4	TM 2-Methylnaphthalene	0.7868	0.7804	0.7756	0.7764	0.7886	0.7810	0.7175	0.6825			0.76	5.1	TM			0.400
5	TM 1-Methylnaphthalene	0.8005	0.7905	0.7931	0.7961	0.7922	0.7806	0.7122	0.6797			0.77	6.0	TM			
6	I Acenaphthene-D10(IS)																
7	TM Acenaphthylene	5.288	5.373	5.323	5.258	5.439	5.405	4.863	4.456			5.2	6.6	TM			0.900
8	*TM Acenaphthene	1.497	1.444	1.402	1.372	1.398	1.381	1.266	1.207			1.4	6.8	*TM			0.900
9	TM Fluorene	1.615	1.645	1.600	1.590	1.642	1.640	1.521	1.456			1.6	4.2	TM			0.900
10	I Phenanthrene-D10(IS)																
11	TM Phenanthrene	1.510	1.398	1.383	1.377	1.403	1.374	1.309	1.253			1.4	5.4	TM			0.700
12	TM Anthracene	1.298	1.273	1.300	1.300	1.352	1.349	1.285	1.240			1.3	2.8	TM			0.700
13	S Fluoranthene-D10 (FRT)	2.023	1.976	1.895	1.904	2.032	1.918	1.953	1.890			1.9	2.9	S			
14	*TM Fluoranthene	2.169	2.135	2.136	2.147	2.255	2.226	2.086	1.944			2.1	4.4	*TM			0.600
15	I Chrysene-D12(IS)																
16	TM Pyrene	1.986	2.033	1.960	1.958	1.948	1.927	1.782	1.720			1.9	5.6	TM			0.600
17	TM Benz (a) anthracene	1.473	1.441	1.379	1.381	1.401	1.420	1.370	1.344			1.4	3.0	TM			0.800
18	TM Chrysene	1.754	1.672	1.608	1.574	1.554	1.516	1.410	1.375			1.6	8.1	TM			0.700
19	TML Indeno (1,2,3-cd) pyrene	1.687	1.326	1.360	1.404	1.015	1.052	1.169	1.168			1.3	17	TM	1.000		0.500
20	I Perylene-D12(IS)																
21	TM Benzo (b) fluoranthene	1.268	1.292	1.301	1.356	1.511	1.514	1.537	1.485			1.4	8.1	TM			0.700
22	TM Benzo (k) fluoranthene	1.593	1.558	1.636	1.632	1.670	1.730	1.578	1.484			1.6	4.6	TM			0.700
23	*TM Benzo (a) pyrene	1.254	1.223	1.224	1.265	1.442	1.484	1.454	1.383			1.3	8.3	*TM			0.700
24	TM Dibenz (a,h) anthracene	1.360	1.209	1.221	1.273	1.398	1.395	1.399	1.353			1.3	6.0	TM			0.400
25	TM Benzo (g,h,i) perylene	1.457	1.403	1.410	1.405	1.496	1.517	1.462	1.394			1.4	3.2	TM			0.500
26																	
27																	
28																	
29																	
30																	
31																	
32																	
33																	
34																	
35																	

Data File : M:\KYLO\DATA\211019\1019K002.D  
 Acq On : 19 Oct 21 14:09  
 Sample : 0.1 ug/ml 10/13/21  
 Misc :

Vial: 2  
 Operator: LS  
 Inst : KYLO  
 Multiplr: 1.00

Quant Time: Oct 19 15:48 2021

Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)  
 Title : EPA 8270  
 Last Update : Tue Oct 19 16:47:23 2021  
 Response via : Initial Calibration  
 DataAcq Meth : SIM\_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	3.92	136	10962	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	5.86	164	5295	2.50000	ppb	0.00
10) Phenanthrene-D10 (IS)	7.56	188	8379	2.50000	ppb	0.00
15) Chrysene-D12 (IS)	10.63	240	9693	2.50000	ppb	0.01
20) Perylene-D12 (IS)	12.84	264	9009	2.50000	ppb	0.01
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2)	4.66	152	298	0.05323	ppb	0.00
Spiked Amount	5.000		Recovery	=	1.060%	
13) Fluoranthene-D10 (FRT)	8.94	212	339	0.05190	ppb	0.01
Spiked Amount	5.000		Recovery	=	1.040%	
Target Compounds						
						Qvalue
2) Naphthalene	3.94	128	626	0.10994	ppb	99
4) 2-Methylnaphthalene	4.69	142	345	0.10338	ppb	100
5) 1-Methylnaphthalene	4.80	142	351	0.10422	ppb	99
7) Acenaphthylene	5.70	152	1120	0.10217	ppb	100
8) Acenaphthene	5.89	154	317	0.10918	ppb	99
9) Fluorene	6.49	166	342	0.10165	ppb	96
11) Phenanthrene	7.59	178	506	0.10973	ppb	100
12) Anthracene	7.65	178	435	0.09988	ppb	97
14) Fluoranthene	8.96	202	727	0.10149	ppb	98
16) Pyrene	9.22	202	770	0.10375	ppb	99
17) Benz (a) anthracene	10.62	228	571	0.10510	ppb	99
18) Chrysene	10.66	228	680	0.11258	ppb	96
19) Indeno (1,2,3-cd) pyrene	14.41	276	654	0.33399	ppb	# 88
22) Benzo (k) fluoranthene	12.21	252	574	-0.45104	ppb	97
23) Benzo (a) pyrene	12.75	252	452	-0.17190	ppb	95
24) Dibenz (a,h) anthracene	14.45	278	490	-0.04905	ppb	95
25) Benzo (g,h,i) perylene	14.71	276	525	-0.23039	ppb	98

Quantitation Report

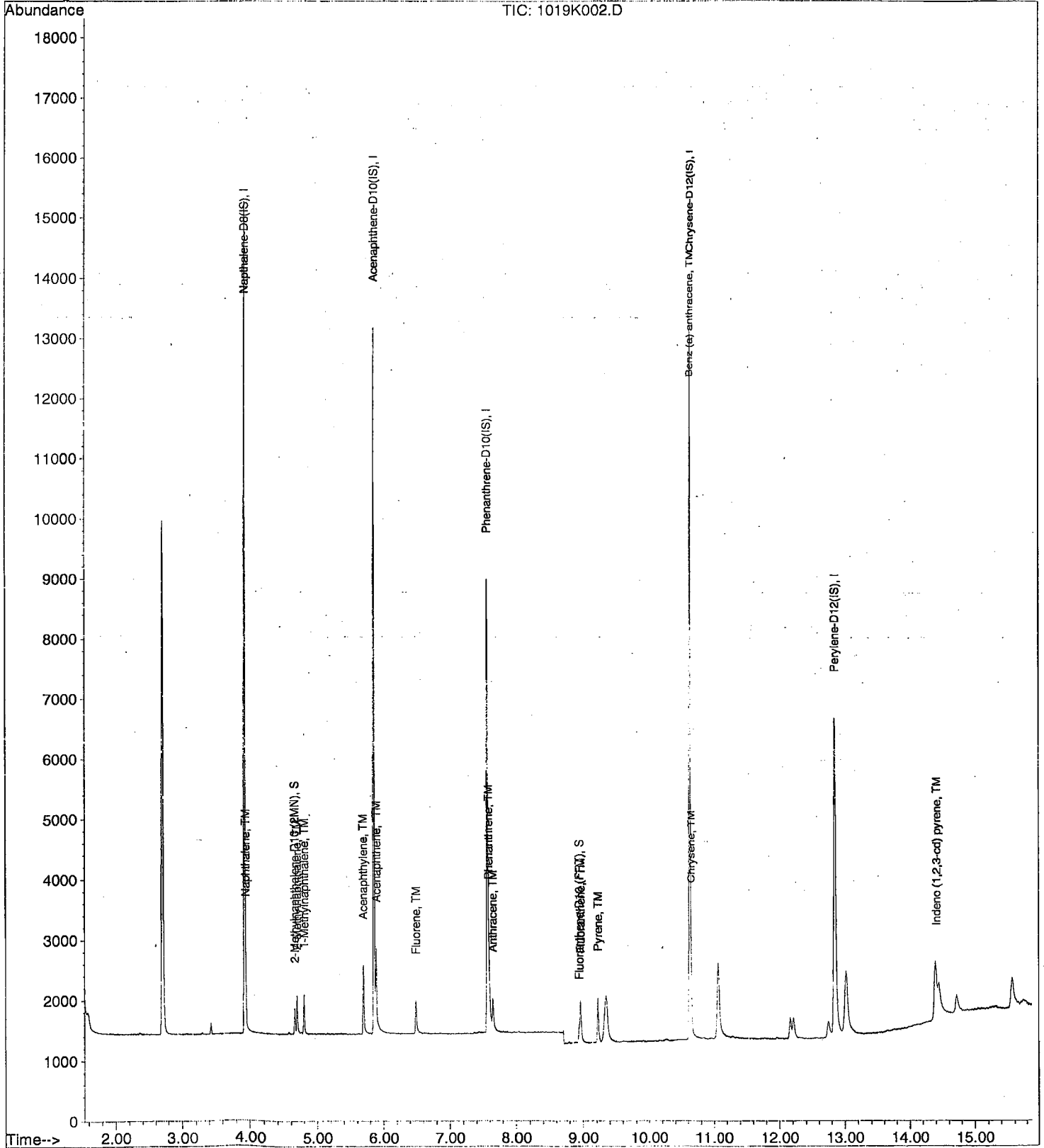
Data File : M:\KYLO\DATA\211019\1019K002.D  
Acq On : 19 Oct 21 14:09  
Sample : 0.1 ug/ml 10/13/21  
Misc :

Vial: 2  
Operator: LS  
Inst : KYLO  
Multiplr: 1.00

Quant Time: Oct 19 15:48 2021

Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)  
Title : EPA 8270  
Last Update : Tue Nov 09 10:14:45 2021  
Response via : Initial Calibration





Quantitation Report (Not Reviewed)

Data File : M:\KYLO\DATA\211019\1019K003.D  
 Acq On : 19 Oct 21 14:29  
 Sample : 0.2 ug/ml 10/13/21  
 Misc :

Vial: 3  
 Operator: LS  
 Inst. : KYLO  
 Multiplr: 1.00

Quant Time: Oct 19 15:48 2021

Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)

Title : EPA 8270  
 Last Update : Tue Oct 19 16:47:23 2021  
 Response via : Initial Calibration  
 DataAcq Meth : SIM\_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	3.92	136	11180	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	5.86	164	5495	2.50000	ppb	0.00
10) Phenanthrene-D10 (IS)	7.56	188	8995	2.50000	ppb	0.00
15) Chrysene-D12 (IS)	10.63	240	9881	2.50000	ppb	0.01
20) Perylene-D12 (IS)	12.84	264	8688	2.50000	ppb	0.01
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2)	4.66	152	598	0.10474	ppb	0.00
Spiked Amount	5.000		Recovery	=	2.100%	
13) Fluoranthene-D10 (FRT)	8.94	212	711	0.10140	ppb	0.01
Spiked Amount	5.000		Recovery	=	2.020%	
Target Compounds						
						Qvalue
2) Naphthalene	3.94	128	1254	0.21593	ppb	99
4) 2-Methylnaphthalene	4.69	142	698	0.20508	ppb	96
5) 1-Methylnaphthalene	4.80	142	707	0.20582	ppb	98
7) Acenaphthylene	5.69	152	2362	0.20763	ppb	100
8) Acenaphthene	5.89	154	635	0.21074	ppb	99
9) Fluorene	6.49	166	723	0.20706	ppb	100
11) Phenanthrene	7.59	178	1006	0.20323	ppb	100
12) Anthracene	7.65	178	916	0.19592	ppb	99
14) Fluoranthene	8.96	202	1536	0.19974	ppb	97
16) Pyrene	9.21	202	1607	0.21241	ppb	99
17) Benz (a) anthracene	10.62	228	1139	0.20566	ppb	98
18) Chrysene	10.66	228	1322	0.21470	ppb	99
19) Indeno (1,2,3-cd) pyrene	14.40	276	1048	0.41647	ppb	# 98
21) Benzo (b) fluoranthene	12.16	252	898	0.06057	ppb	98
22) Benzo (k) fluoranthene	12.21	252	1083	-0.34909	ppb	97
23) Benzo (a) pyrene	12.74	252	850	-0.08634	ppb	97
25) Benzo (g,h,i) perylene	14.71	276	975	-0.13423	ppb	96

Quantitation Report

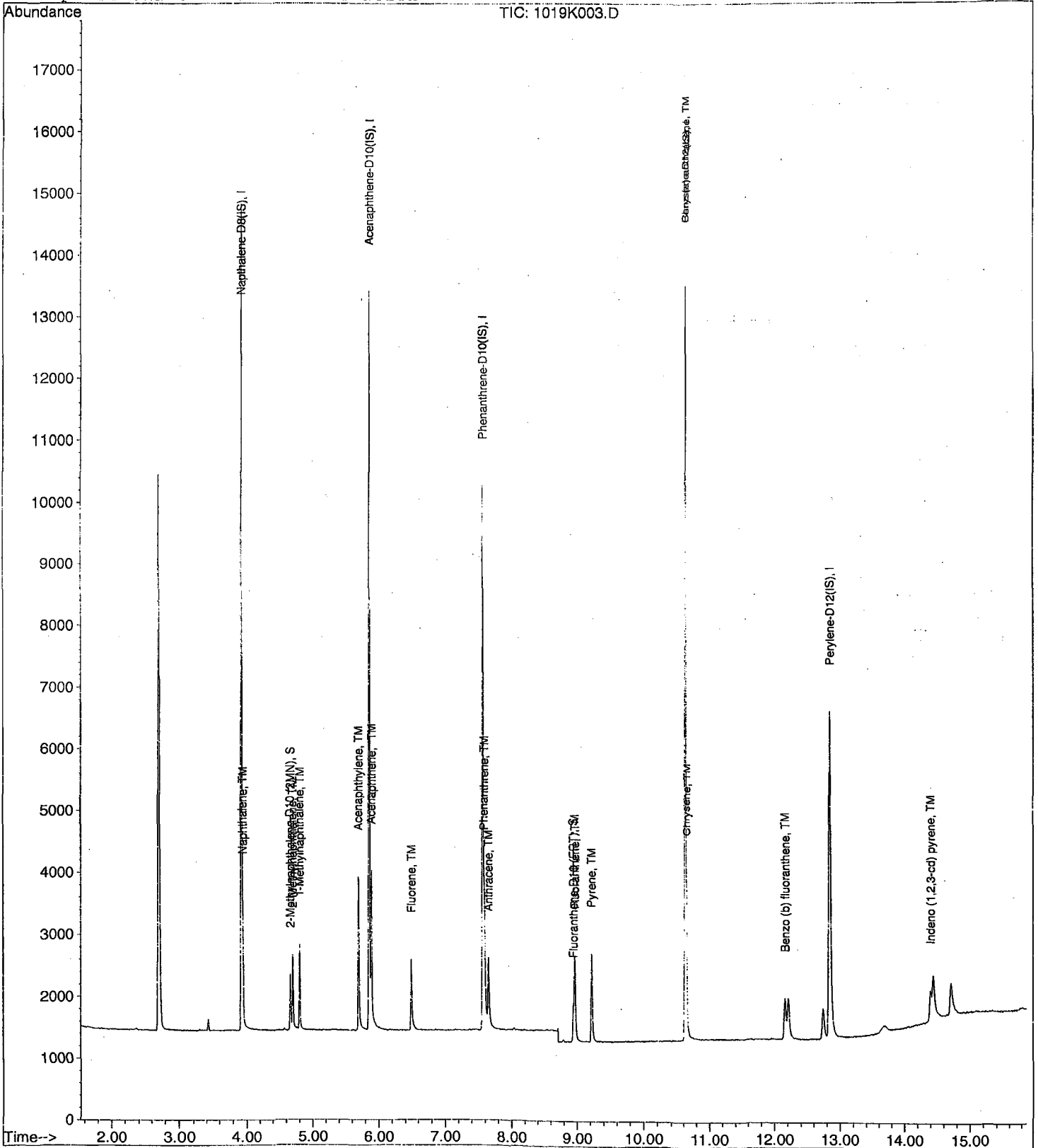
Data File : M:\KYLO\DATA\211019\1019K003.D  
Acq On : 19 Oct 21 14:29  
Sample : 0.2 ug/ml 10/13/21  
Misc :

Vial: 3  
Operator: LS  
Inst : KYLO  
Multiplr: 1.00

Quant Time: Oct 19 15:48 2021

Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)  
Title : EPA 8270  
Last Update : Tue Nov 09 10:14:45 2021  
Response via : Initial Calibration



Data File : M:\KYLO\DATA\211019\1019K004.D  
 Acq On : 19 Oct 21 14:49  
 Sample : 0.5 ug/ml 10/13/21  
 Misc :

Vial: 4  
 Operator: LS  
 Inst : KYLO  
 Multiplr: 1.00

Quant Time: Oct 19 15:48 2021

Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)  
 Title : EPA 8270  
 Last Update : Tue Oct 19 16:47:23 2021  
 Response via : Initial Calibration  
 DataAcq Meth : SIM\_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	3.92	136	11385	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	5.86	164	5536	2.50000	ppb	0.00
10) Phenanthrene-D10 (IS)	7.56	188	8686	2.50000	ppb	0.00
15) Chrysene-D12 (IS)	10.62	240	9708	2.50000	ppb	0.00
20) Perylene-D12 (IS)	12.84	264	8669	2.50000	ppb	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2)	4.66	152	1507	0.25921	ppb	0.00
Spiked Amount	5.000		Recovery	=	5.180%	
13) Fluoranthene-D10 (FRT)	8.94	212	1646	0.24309	ppb	0.00
Spiked Amount	5.000		Recovery	=	4.860%	
Target Compounds						
						Qvalue
2) Napthalene	3.94	128	3083	0.52131	ppb	99
4) 2-Methylnaphthalene	4.69	142	1766	0.50952	ppb	99
5) 1-Methylnaphthalene	4.80	142	1806	0.51630	ppb	96
7) Acenaphthylene	5.69	152	5894	0.51427	ppb	100
8) Acenaphthene	5.89	154	1552	0.51126	ppb	100
9) Fluorene	6.49	166	1772	0.50373	ppb	99
11) Phenanthrene	7.59	178	2402	0.50250	ppb	99
12) Anthracene	7.65	178	2259	0.50035	ppb	99
14) Fluoranthene	8.96	202	3711	0.49974	ppb	99
16) Pyrene	9.21	202	3805	0.51191	ppb	98
17) Benz (a) anthracene	10.61	228	2678	0.49216	ppb	99
18) Chrysene	10.65	228	3122	0.51607	ppb	99
19) Indeno (1,2,3-cd) pyrene	14.39	276	2640	0.77101	ppb	# 97
21) Benzo (b) fluoranthene	12.15	252	2255	0.32301	ppb	100
23) Benzo (a) pyrene	12.74	252	2122	0.17741	ppb	99
24) Dibenz (a,h) anthracene	14.43	278	2117	0.29983	ppb	99
25) Benzo (g,h,i) perylene	14.70	276	2445	0.16843	ppb	100

Quantitation Report

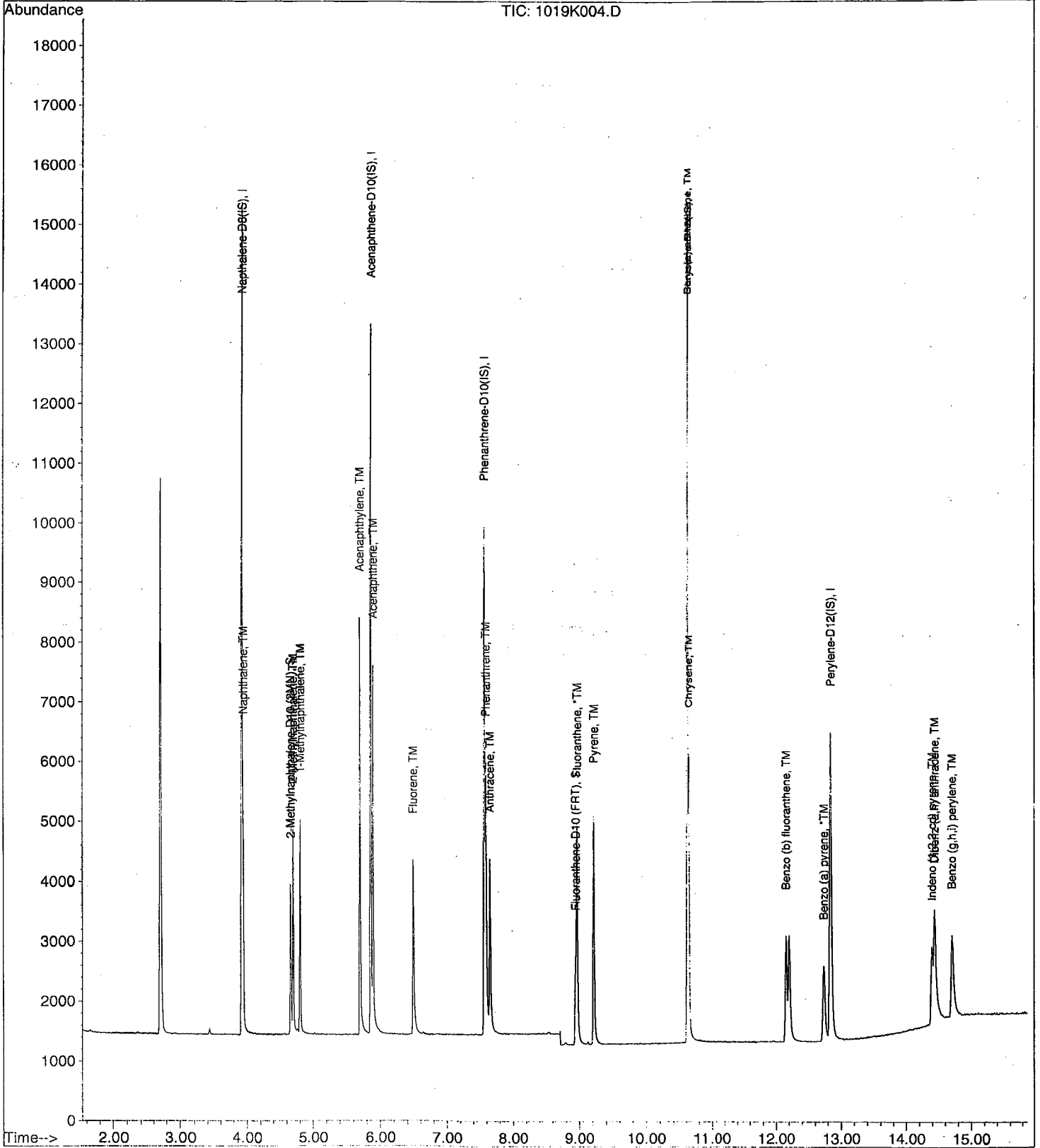
Data File : M:\KYLO\DATA\211019\1019K004.D  
Acq On : 19 Oct 21 14:49  
Sample : 0.5 ug/ml 10/13/21  
Misc :

Vial: 4  
Operator: LS  
Inst : KYLO  
Multiplr: 1.00

Quant Time: Oct 19 15:48 2021

Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)  
Title : EPA 8270  
Last Update : Tue Nov 09 10:14:45 2021  
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\KYLO\DATA\211019\1019K005.D  
 Acq On : 19 Oct 21 15:09  
 Sample : 1 ug/ml 10/13/21  
 Misc :

Vial: 5  
 Operator: LS  
 Inst : KYLO  
 Multiplr: 1.00

Quant Time: Oct 19 15:48 2021

Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)  
 Title : EPA 8270  
 Last Update : Tue Oct 19 16:47:23 2021  
 Response via : Initial Calibration  
 DataAcq Meth : SIM\_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	3.92	136	11032	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	5.86	164	5365	2.50000	ppb	0.00
10) Phenanthrene-D10 (IS)	7.56	188	8424	2.50000	ppb	0.00
15) Chrysene-D12 (IS)	10.63	240	9455	2.50000	ppb	0.01
20) Perylene-D12 (IS)	12.84	264	8423	2.50000	ppb	0.01
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2)	4.66	152	2880	0.51122	ppb	0.00
Spiked Amount	5.000		Recovery	=	10.220%	
13) Fluoranthene-D10 (FRT)	8.94	212	3208	0.48851	ppb	0.00
Spiked Amount	5.000		Recovery	=	9.780%	
Target Compounds						
						Qvalue
2) Naphthalene	3.94	128	5894	1.02851	ppb	99
4) 2-Methylnaphthalene	4.69	142	3426	1.02008	ppb	99
5) 1-Methylnaphthalene	4.80	142	3513	1.03643	ppb	98
7) Acenaphthylene	5.70	152	11284	1.01594	ppb	99
8) Acenaphthene	5.89	154	2945	1.00106	ppb	97
9) Fluorene	6.49	166	3412	1.00086	ppb	99
11) Phenanthrene	7.59	178	4641	1.00109	ppb	99
12) Anthracene	7.65	178	4379	1.00008	ppb	100
14) Fluoranthene	8.96	202	7234	1.00447	ppb	100
16) Pyrene	9.21	202	7407	1.02317	ppb	99
17) Benz (a) anthracene	10.61	228	5224	0.98576	ppb	99
18) Chrysene	10.65	228	5954	1.01055	ppb	99
19) Indeno (1,2,3-cd) pyrene	14.39	276	5309	1.38990	ppb	# 90
21) Benzo (b) fluoranthene	12.15	252	4568	0.79546	ppb	99
22) Benzo (k) fluoranthene	12.21	252	5497	0.53419	ppb	98
23) Benzo (a) pyrene	12.74	252	4263	0.64650	ppb	99
24) Dibenz (a,h) anthracene	14.44	278	4288	0.78667	ppb	99
25) Benzo (g,h,i) perylene	14.71	276	4733	0.66726	ppb	99

Quantitation Report

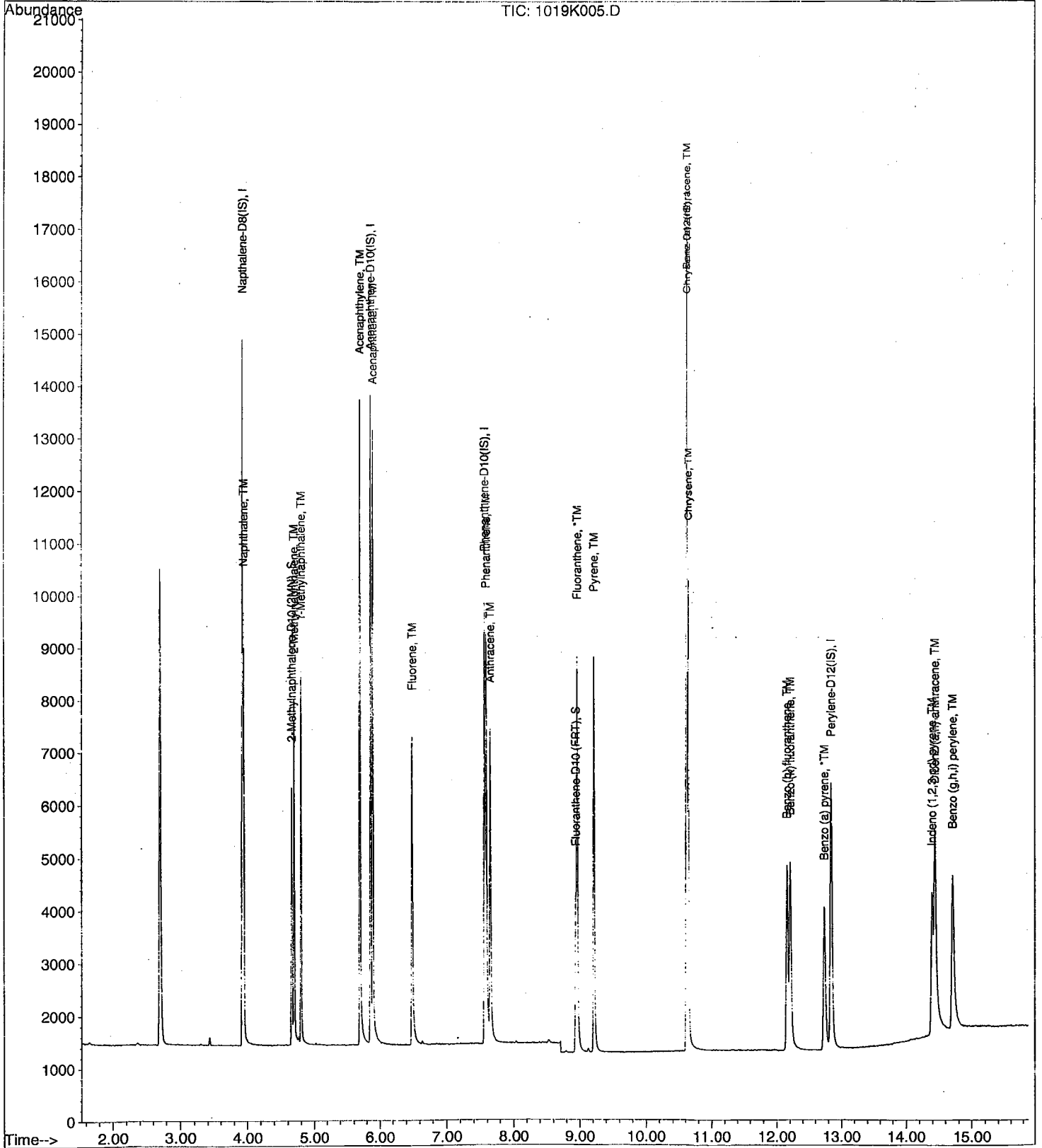
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Acq On : 19 Oct 21 15:09  
Sample : 1 ug/ml 10/13/21  
Misc :

Vial: 5  
Operator: LS  
Inst : KYLO  
Multiplr: 1.00

Quant Time: Oct 19 15:48 2021

Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)  
Title : EPA 8270  
Last Update : Tue Nov 09 10:14:45 2021  
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\KYLO\DATA\211019\1019K006.D  
 Acq On : 19 Oct 21 15:29  
 Sample : 5 ug/ml 10/13/21  
 Misc :

Vial: 6  
 Operator: LS  
 Inst : KYLO  
 Multiplr: 1.00

Quant Time: Oct 19 15:48 2021

Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)  
 Title : EPA 8270  
 Last Update : Tue Oct 19 16:47:23 2021  
 Response via : Initial Calibration  
 DataAcq Meth : SIM\_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	3.92	136	11022	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	5.86	164	5414	2.50000	ppb	0.00
10) Phenanthrene-D10 (IS)	7.56	188	8482	2.50000	ppb	0.00
15) Chrysene-D12 (IS)	10.62	240	10015	2.50000	ppb	0.00
20) Perylene-D12 (IS)	12.83	264	8704	2.50000	ppb	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2)	4.66	152	14500	2.57619	ppb	0.00
Spiked Amount	5.000		Recovery	=	51.520%	
13) Fluoranthene-D10 (FRT)	8.93	212	17235	2.60659	ppb	0.00
Spiked Amount	5.000		Recovery	=	52.140%	
Target Compounds						
						Qvalue
2) Naphthalene	3.94	128	28832	5.03578	ppb	100
4) 2-Methylnaphthalene	4.69	142	17384	5.18072	ppb	100
5) 1-Methylnaphthalene	4.80	142	17464	5.15700	ppb	100
7) Acenaphthylene	5.69	152	58890	5.25410	ppb	100
8) Acenaphthene	5.89	154	15136	5.09845	ppb	100
9) Fluorene	6.49	166	17780	5.16829	ppb	100
11) Phenanthrene	7.59	178	23796	5.09785	ppb	100
12) Anthracene	7.64	178	22931	5.20117	ppb	100
14) Fluoranthene	8.95	202	38260	5.27621	ppb	100
16) Pyrene	9.21	202	39012	5.08763	ppb	100
17) Benz (a) anthracene	10.61	228	28070	5.00058	ppb	100
18) Chrysene	10.65	228	31118	4.98620	ppb	100
19) Indeno (1,2,3-cd) pyrene	14.38	276	20323	4.52699	ppb	100
21) Benzo (b) fluoranthene	12.14	252	26309	4.94784	ppb	100
22) Benzo (k) fluoranthene	12.19	252	29066	5.02910	ppb	100
23) Benzo (a) pyrene	12.73	252	25103	4.91484	ppb	100
24) Dibenz (a,h) anthracene	14.42	278	24331	4.98885	ppb	100
25) Benzo (g,h,i) perylene	14.69	276	26049	4.99985	ppb	100

Quantitation Report

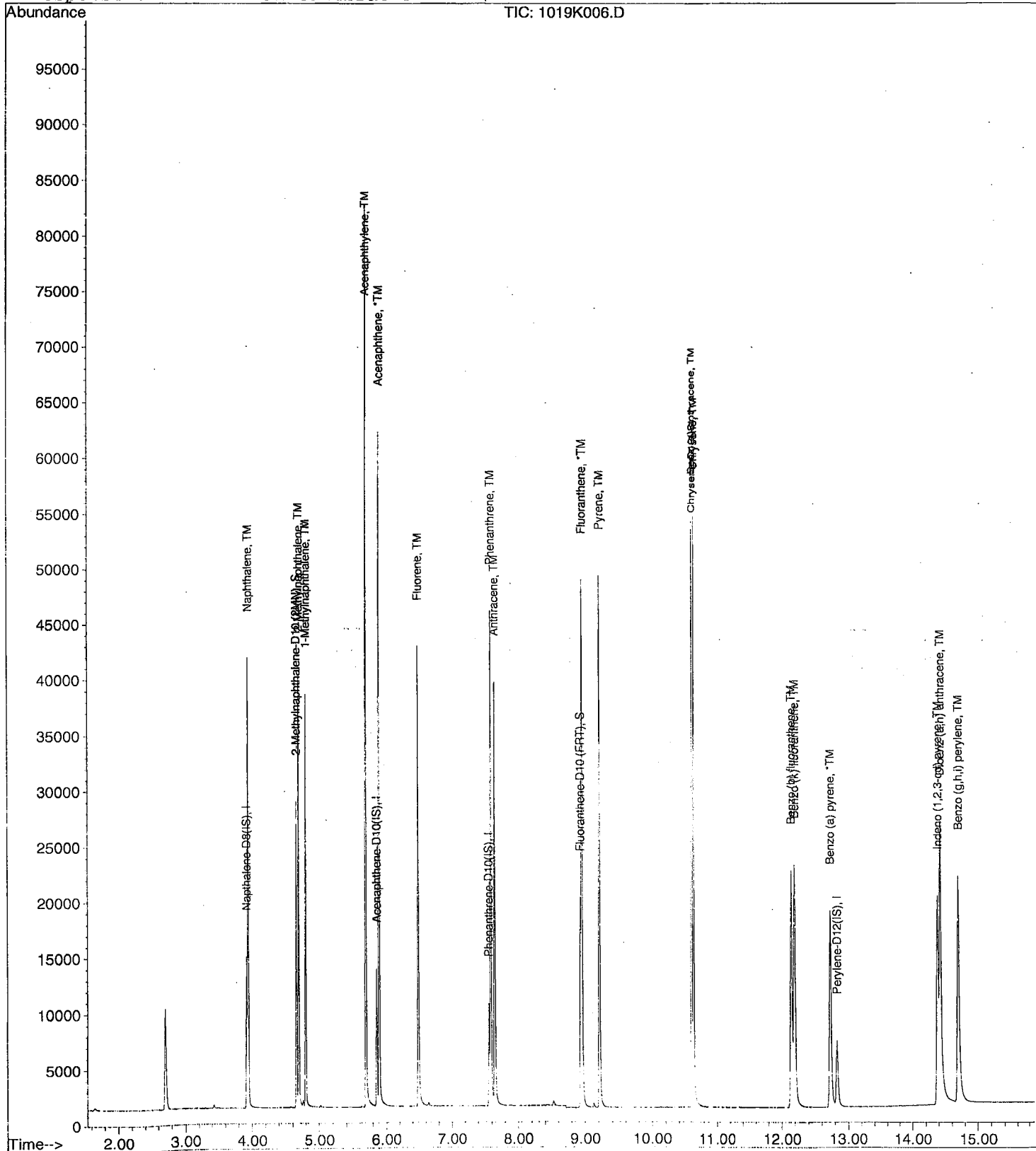
Data File : M:\KYLO\DATA\211019\1019K006.D  
Acq On : 19 Oct 21 15:29  
Sample : 5 ug/ml 10/13/21  
Misc :

Vial: 6  
Operator: LS  
Inst : KYLO  
Multiplr: 1.00

Quant Time: Oct 19 15:48 2021

Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)  
Title : EPA 8270  
Last Update : Tue Nov 09 10:14:45 2021  
Response via : Initial Calibration





Data File : M:\KYLO\DATA\211019\1019K007.D  
 Acq On : 19 Oct 21 15:49  
 Sample : 10 ug/ml 10/13/21  
 Misc :

Vial: 7  
 Operator: LS  
 Inst : KYLO  
 Multiplr: 1.00

Quant Time: Oct 19 15:49 2021

Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)  
 Title : EPA 8270  
 Last Update : Tue Oct 19 16:47:23 2021  
 Response via : Initial Calibration  
 DataAcq Meth : SIM\_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	3.92	136	11510	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	5.86	164	5675	2.50000	ppb	0.00
10) Phenanthrene-D10 (IS)	7.56	188	8972	2.50000	ppb	0.00
15) Chrysene-D12 (IS)	10.62	240	10664	2.50000	ppb	0.00
20) Perylene-D12 (IS)	12.83	264	9232	2.50000	ppb	0.00
<b>System Monitoring Compounds</b>						
3) 2-Methylnaphthalene-D10 (2)	4.66	152	26676	4.53854	ppb	0.00
Spiked Amount	5.000		Recovery	=	90.780%	
13) Fluoranthene-D10 (FRT)	8.93	212	34413	4.92032	ppb	0.00
Spiked Amount	5.000		Recovery	=	98.400%	
<b>Target Compounds</b>						
						Qvalue
2) Naphthalene	3.94	128	59354	9.92720	ppb	100
4) 2-Methylnaphthalene	4.69	142	35959	10.26203	ppb	100
5) 1-Methylnaphthalene	4.80	142	35938	10.16232	ppb	100
7) Acenaphthylene	5.69	152	122704	10.44402	ppb	100
8) Acenaphthene	5.89	154	31359	10.07724	ppb	99
9) Fluorene	6.49	166	37236	10.32596	ppb	99
11) Phenanthrene	7.59	178	49310	9.98682	ppb	100
12) Anthracene	7.64	178	48395	10.37738	ppb	100
14) Fluoranthene	8.95	202	79898	10.41651	ppb	100
16) Pyrene	9.21	202	82191	10.06635	ppb	100
17) Benz (a) anthracene	10.61	228	60563	10.13248	ppb	100
18) Chrysene	10.65	228	64649	9.72861	ppb	99
19) Indeno (1,2,3-cd) pyrene	14.38	276	44868	9.18248	ppb	# 99
21) Benzo (b) fluoranthene	12.14	252	55900	10.02449	ppb	99
22) Benzo (k) fluoranthene	12.19	252	63873	11.01716	ppb	99
23) Benzo (a) pyrene	12.73	252	54783	10.38939	ppb	99
24) Dibenz (a,h) anthracene	14.42	278	51533	10.11061	ppb	98
25) Benzo (g,h,i) perylene	14.69	276	56013	10.47964	ppb	98

Quantitation Report

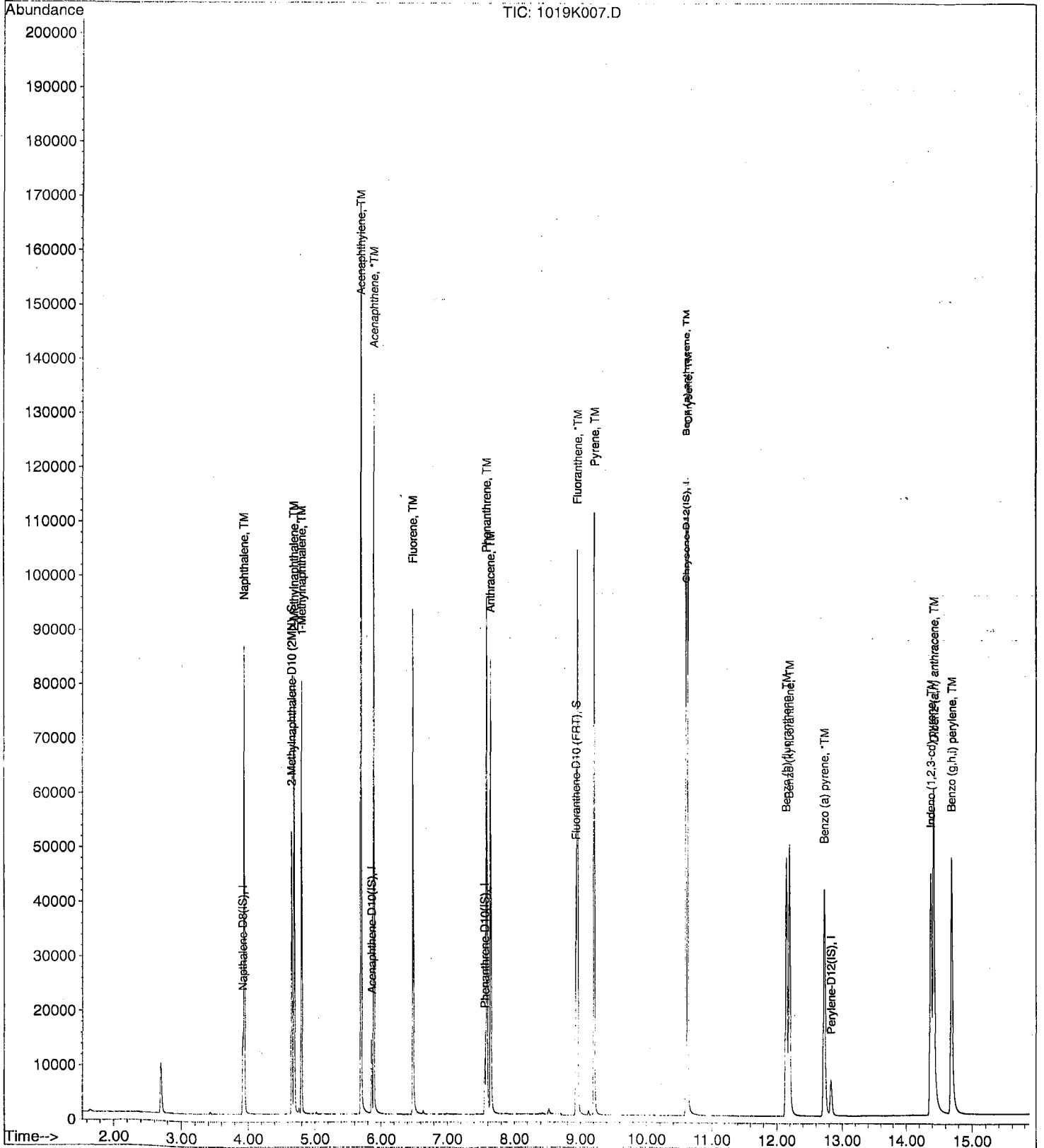
Data File : M:\KYLO\DATA\211019\1019K007.D  
Acq On : 19 Oct 21 15:49  
Sample : 10 ug/ml 10/13/21  
Misc :

Vial: 7  
Operator: LS  
Inst : KYLO  
Multiplr: 1.00

Quant Time: Oct 19 15:49 2021

Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)  
Title : EPA 8270  
Last Update : Tue Nov 09 10:14:45 2021  
Response via : Initial Calibration



Data File : M:\KYLO\DATA\211019\1019K008.D  
 Acq On : 19 Oct 21 16:09  
 Sample : 50 ug/ml 10/13/21  
 Misc :

Vial: 8  
 Operator: LS  
 Inst : KYLO  
 Multiplr: 1.00

Quant Time: Oct 19 15:49 2021

Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)  
 Title : EPA 8270  
 Last Update : Tue Oct 19 16:47:23 2021  
 Response via : Initial Calibration  
 DataAcq Meth : SIM\_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	3.92	136	11542	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	5.86	164	5767	2.50000	ppb	0.00
10) Phenanthrene-D10 (IS)	7.56	188	8902	2.50000	ppb	0.00
15) Chrysene-D12 (IS)	10.62	240	10648	2.50000	ppb	0.00
20) Perylene-D12 (IS)	12.83	264	9592	2.50000	ppb	0.00
<b>System Monitoring Compounds</b>						
3) 2-Methylnaphthalene-D10 (2)	4.66	152	140995	23.92178	ppb	0.00
Spiked Amount	5.000		Recovery	=	478.440%	
13) Fluoranthene-D10 (FRT)	8.93	212	173855	25.05302	ppb	0.00
Spiked Amount	5.000		Recovery	=	501.060%	
<b>Target Compounds</b>						
						Qvalue
2) Naphthalene	3.94	128	270597	45.13299	ppb	100
4) 2-Methylnaphthalene	4.69	142	165624	47.13496	ppb	99
5) 1-Methylnaphthalene	4.80	142	164402	46.35966	ppb	99
7) Acenaphthylene	5.70	152	560845	46.97510	ppb	100
8) Acenaphthene	5.89	154	145964	46.15736	ppb	99
9) Fluorene	6.49	166	175391	47.86199	ppb	100
11) Phenanthrene	7.59	178	233010	47.56290	ppb	100
12) Anthracene	7.64	178	228704	49.42683	ppb	100
14) Fluoranthene	8.96	202	371445	48.80706	ppb	99
16) Pyrene	9.21	202	379423	46.53971	ppb	98
17) Benz (a) anthracene	10.61	228	291856	48.90228	ppb	100
18) Chrysene	10.65	228	300277	45.25466	ppb	99
19) Indeno (1,2,3-cd) pyrene	14.38	276	248943	50.15933	ppb	94
21) Benzo (b) fluoranthene	12.15	252	294828	51.34534	ppb	99
22) Benzo (k) fluoranthene	12.20	252	302763	52.24864	ppb	100
23) Benzo (a) pyrene	12.73	252	278840	51.91758	ppb	100
24) Dibenz (a,h) anthracene	14.42	278	268409	51.28254	ppb	97
25) Benzo (g,h,i) perylene	14.70	276	280479	51.78283	ppb	99

Quantitation Report

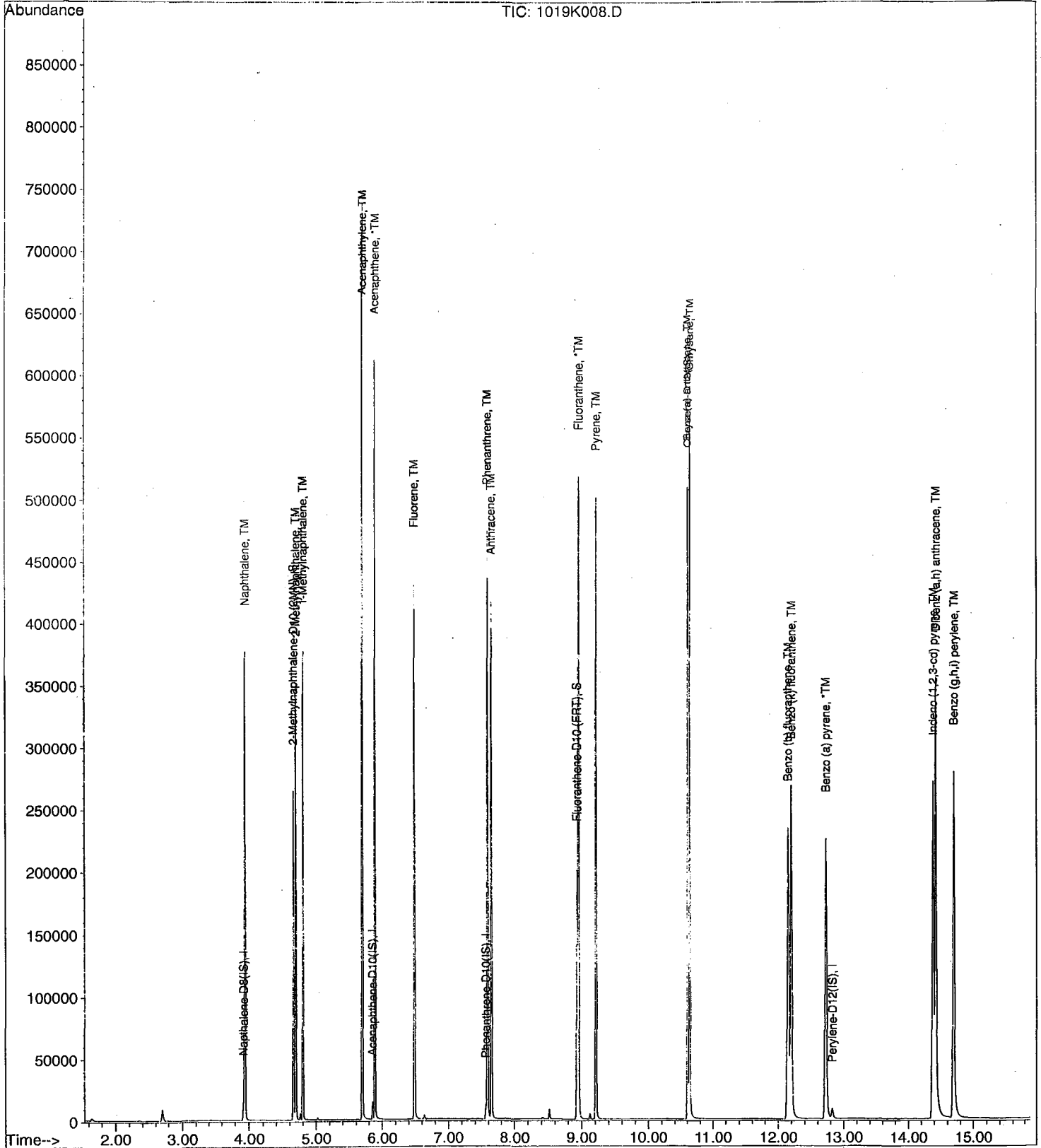
Data File : M:\KYLO\DATA\211019\1019K008.D  
 Acq On : 19 Oct 21 16:09  
 Sample : 50 ug/ml 10/13/21  
 Misc :

Vial: 8  
 Operator: LS  
 Inst : KYLO  
 Multiplr: 1.00

Quant Time: Oct 19 15:49 2021

Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)  
 Title : EPA 8270  
 Last Update : Tue Nov 09 10:14:45 2021  
 Response via : Initial Calibration



Data File : M:\KYLO\DATA\211019\1019K009.D  
 Acq On : 19 Oct 21 16:29  
 Sample : 100 ug/ml 10/13/21  
 Misc :

Vial: 9  
 Operator: LS  
 Inst : KYLO  
 Multiplr: 1.00

Quant Time: Oct 19 15:49 2021

Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)  
 Title : EPA 8270  
 Last Update : Tue Oct 19 16:47:23 2021  
 Response via : Initial Calibration  
 DataAcq Meth : SIM\_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	3.92	136	11679	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	5.86	164	5877	2.50000	ppb	0.00
10) Phenanthrene-D10 (IS)	7.56	188	9024	2.50000	ppb	0.00
15) Chrysene-D12 (IS)	10.63	240	10469	2.50000	ppb	0.01
20) Perylene-D12 (IS)	12.83	264	9899	2.50000	ppb	0.00
<b>System Monitoring Compounds</b>						
3) 2-Methylnaphthalene-D10 (2)	4.66	152	278374	46.67602	ppb	0.00
Spiked Amount	5.000		Recovery	=	933.520%	
13) Fluoranthene-D10 (FRT)	8.94	212	341108	48.49012	ppb	0.00
Spiked Amount	5.000		Recovery	=	969.800%	
<b>Target Compounds</b>						
						Qvalue
2) Naphthalene	3.94	128	514066	84.73550	ppb	100
4) 2-Methylnaphthalene	4.70	142	318816	89.66757	ppb	99
5) 1-Methylnaphthalene	4.80	142	317528	88.48927	ppb	98
7) Acenaphthylene	5.70	152	1047512	86.09505	ppb	98
8) Acenaphthene	5.90	154	283708	88.03615	ppb	94
9) Fluorene	6.49	166	342219	91.63932	ppb	99
11) Phenanthrene	7.59	178	452383	91.09374	ppb	99
12) Anthracene	7.65	178	447639	95.43451	ppb	100
14) Fluoranthene	8.96	202	701599	90.94222	ppb	97
16) Pyrene	9.22	202	720167	89.84545	ppb	99
17) Benz (a) anthracene	10.62	228	562838	95.91946	ppb	99
18) Chrysene	10.66	228	575910	88.27926	ppb	98
19) Indeno (1,2,3-cd) pyrene	14.39	276	488982	100.01982	ppb	89
21) Benzo (b) fluoranthene	12.16	252	587997	99.33083	ppb	100
22) Benzo (k) fluoranthene	12.16	252	587786	98.78137	ppb	99
23) Benzo (a) pyrene	12.74	252	547488	99.01252	ppb	98
24) Dibenz (a,h) anthracene	14.43	278	535891	99.35185	ppb	94
25) Benzo (g,h,i) perylene	14.71	276	552068	99.06661	ppb	98

Quantitation Report

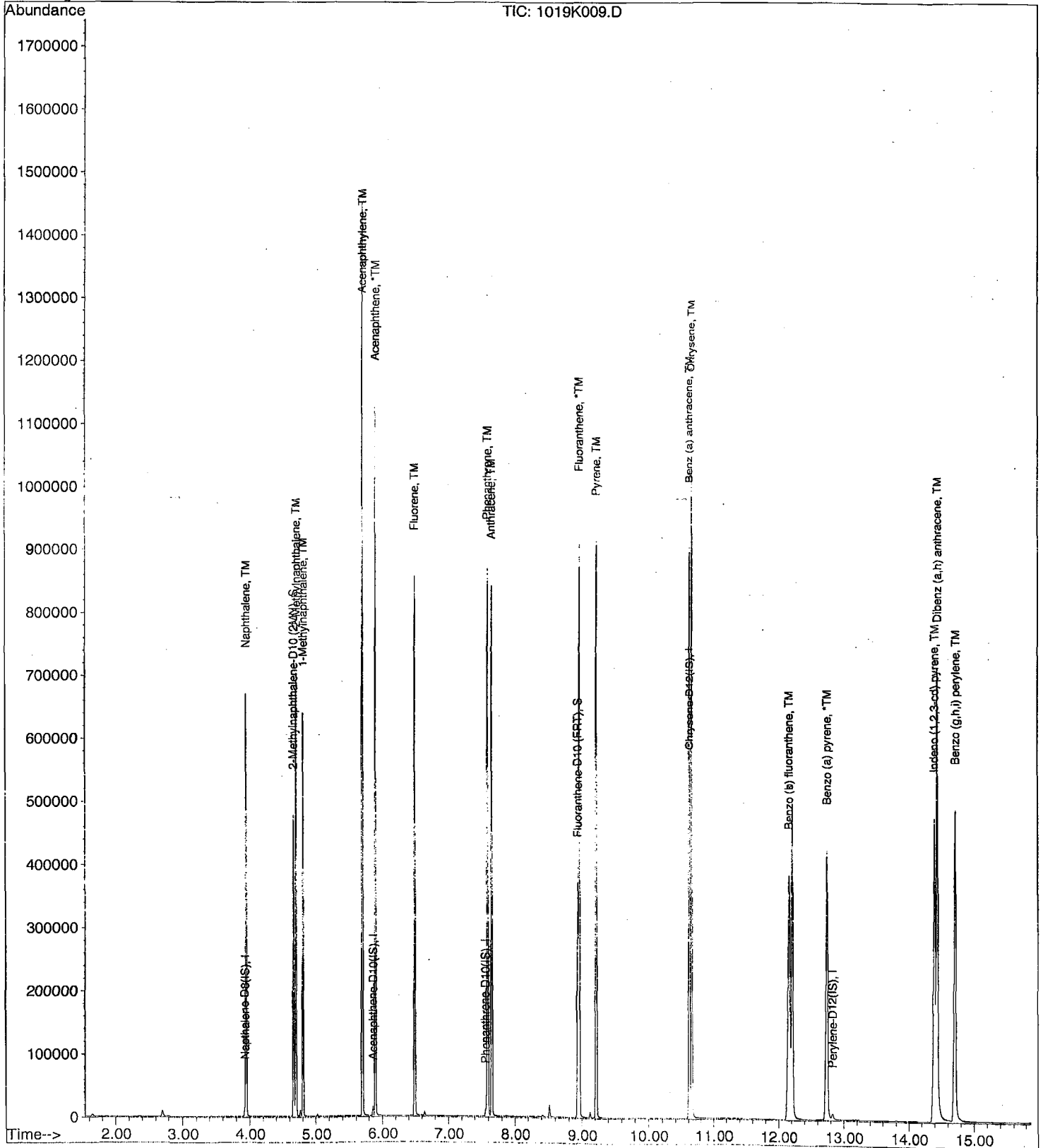
Data File : M:\KYLO\DATA\211019\1019K009.D  
 Acq On : 19 Oct 21 16:29  
 Sample : 100 ug/ml 10/13/21  
 Misc :

Vial: 9  
 Operator: LS  
 Inst : KYLO  
 Multiplr: 1.00

Quant Time: Oct 19 15:49 2021

Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)  
 Title : EPA 8270  
 Last Update : Tue Nov 09 10:14:45 2021  
 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: 10/19/2021  
Instrument: KYLO  
Initial Cal. Date: 10/19/2021  
Data File: 1019K010.D

		Compound	MEAN	CCRF	%D	%Drift
1	TM	Naphthalene	1.299	1.295	0.25	TM
2	TM	2-Methylnaphthalene	0.7611	0.7635	0.32	TM
3	TM	1-Methylnaphthalene	0.7681	0.7563	1.5	TM
4	TM	Acenaphthylene	5.176	5.272	1.9	TM
5	*TM	Acenaphthene	1.371	1.393	1.6	*TM
6	TM	Fluorene	1.589	1.616	1.7	TM
7	TM	Phenanthrene	1.376	1.380	0.31	TM
8	TM	Anthracene	1.299	1.415	8.9	TM
9	*TM	Fluoranthene	2.137	2.167	1.4	*TM
10	TM	Pyrene	1.914	1.918	0.21	TM
11	TM	Benz (a) anthracene	1.401	1.374	1.9	TM
12	TM	Chrysene	1.558	1.488	4.5	TM
13	TML	Indeno (1,2,3-cd) pyrene	1.272	0.9799	23	TML 12
14	TM	Benzo (b) fluoranthene	1.408	1.510	7.3	TM
15	TM	Benzo (k) fluoranthene	1.610	1.698	5.5	TM
16	*TM	Benzo (a) pyrene	1.341	1.484	11	*TM
17	TM	Dibenz (a,h) anthracene	1.326	1.382	4.2	TM
18	TM	Benzo (g,h,i) perylene	1.443	1.486	3.0	TM
19						
20						
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34						
35						
36						
37						
38						

Average

4.4

PAH by GCMS SIM  
EPA 8270 SIM

Data File : M:\KYLO\DATA\211019\1019K010.D  
 Acq On : 19 Oct 21 16:49  
 Sample : SS ug/ml 10/13/21  
 Misc :

Vial: 10  
 Operator: LS  
 Inst : KYLO  
 Multiplr: 1.00

Quant Time: Oct 19 16:06 2021

Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)  
 Title : EPA 8270  
 Last Update : Tue Oct 19 16:51:19 2021  
 Response via : Initial Calibration  
 DataAcq Meth : SIM\_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	3.92	136	11540	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	5.86	164	5722	2.50000	ppb	0.00
10) Phenanthrene-D10 (IS)	7.56	188	8843	2.50000	ppb	0.00
15) Chrysene-D12 (IS)	10.62	240	10394	2.50000	ppb	0.00
20) Perylene-D12 (IS)	12.83	264	8800	2.50000	ppb	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2)	4.66	152	1	0.00017	ppb	0.00
Spiked Amount	5.000		Recovery	=	0.000%	
13) Fluoranthene-D10 (FRT)	8.93	212	9	0.00131	ppb	0.00
Spiked Amount	5.000		Recovery	=	0.020%	
Target Compounds						
						Qvalue
2) Naphthalene	3.94	128	29897	4.98740	ppb	100
4) 2-Methylnaphthalene	4.69	142	17622	5.01592	ppb	100
5) 1-Methylnaphthalene	4.80	142	17455	4.92298	ppb	100
7) Acenaphthylene	5.69	152	60338	5.09352	ppb	100
8) Acenaphthene	5.89	154	15936	5.07898	ppb	100
9) Fluorene	6.49	166	18488	5.08482	ppb	100
11) Phenanthrene	7.59	178	24407	5.01529	ppb	100
12) Anthracene	7.64	178	25019	5.44311	ppb	100
14) Fluoranthene	8.95	202	38328	5.06982	ppb	99
16) Pyrene	9.21	202	39873	5.01031	ppb	100
17) Benz (a) anthracene	10.61	228	28567	4.90355	ppb	99
18) Chrysene	10.65	228	30939	4.77675	ppb	100
19) Indeno (1,2,3-cd) pyrene	14.38	276	20371	4.37871	ppb	99
21) Benzo (b) fluoranthene	12.14	252	26577	5.36265	ppb	100
22) Benzo (k) fluoranthene	12.19	252	29888	5.27373	ppb	100
23) Benzo (a) pyrene	12.73	252	26127	5.53492	ppb	100
24) Dibenz (a,h) anthracene	14.42	278	24324	5.21145	ppb	99
25) Benzo (g,h,i) perylene	14.69	276	26159	5.14999	ppb	100



Quantitation Report

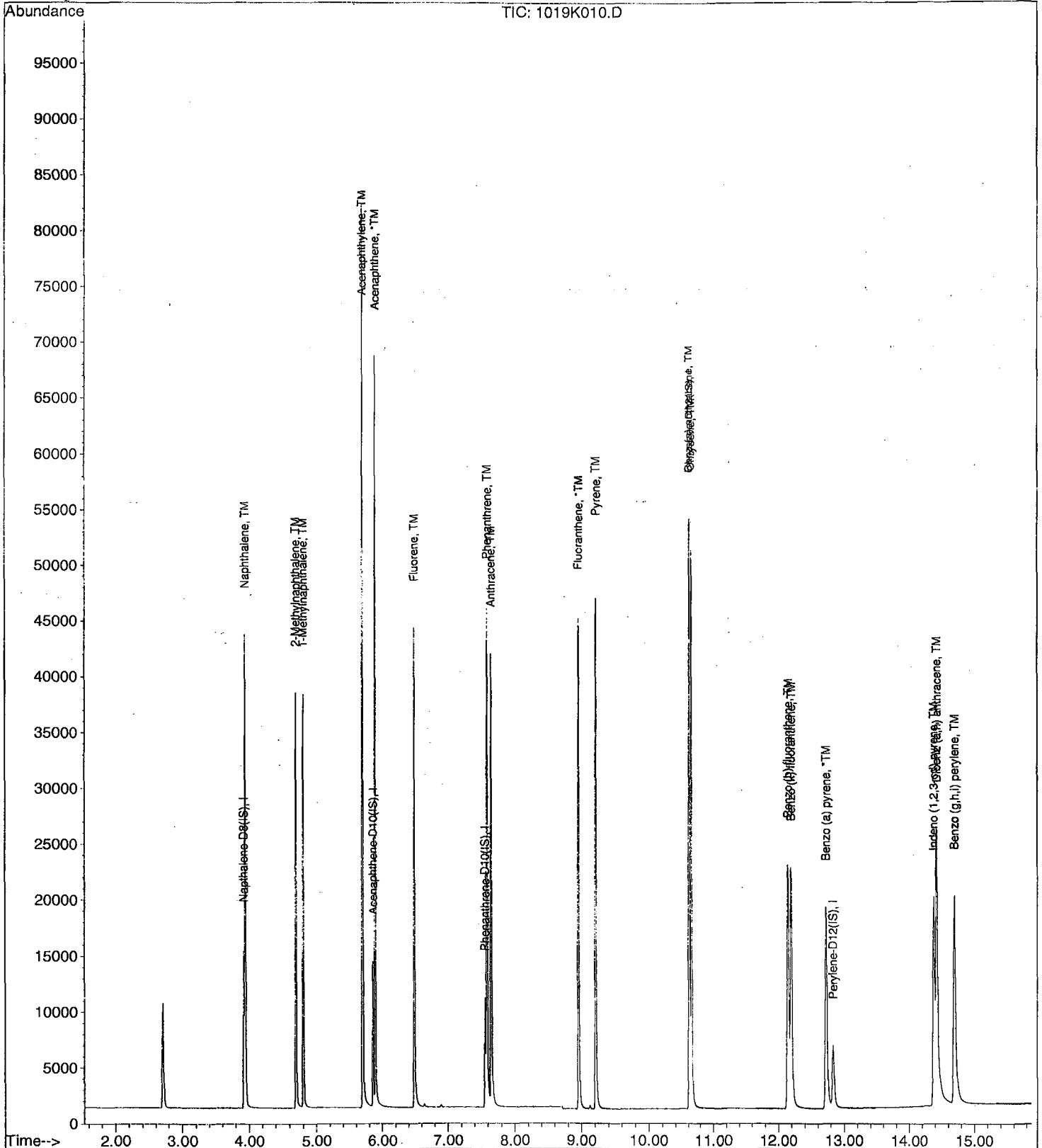
Data File : M:\KYLO\DATA\211019\1019K010.D  
Acq On : 19 Oct 21 16:49  
Sample : SS ug/ml 10/13/21  
Misc :

Vial: 10  
Operator: LS  
Inst : KYLO  
Multiplr: 1.00

Quant Time: Oct 19 16:06 2021

Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)  
Title : EPA 8270  
Last Update : Tue Nov 09 10:14:45 2021  
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: 1 Dec 21 10:08  
Instrument: KYLO  
Initial Cal. Date: 10/19/2021  
Data File: 1124K060.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	Naphthalene-D8(IS)	ISTD			I
2	TM	Naphthalene	1.299	1.317	1.4	TM
3	S	2-Methylnaphthalene-D10 (2MN)	1.277	1.172	8.2	S
4	TM	2-Methylnaphthalene	0.7611	0.7940	4.3	TM
5	TM	1-Methylnaphthalene	0.7681	0.7954	3.5	TM
6	I	Acenaphthene-D10(IS)	ISTD			I
7	TM	Acenaphthylene	5.176	5.533	6.9	TM
8	*TM	Acenaphthene	1.371	1.434	4.6	*TM
9	TM	Fluorene	1.589	1.666	4.9	TM
10	I	Phenanthrene-D10(IS)	ISTD			I
11	TM	Phenanthrene	1.376	1.458	6.0	TM
12	TM	Anthracene	1.299	1.413	8.8	TM
13	S	Fluoranthene-D10 (FRT)	1.949	2.025	3.9	S
14	*TM	Fluoranthene	2.137	2.388	12	*TM
15	I	Chrysene-D12(IS)	ISTD			I
16	TM	Pyrene	1.914	2.018	5.4	TM
17	TM	Benz (a) anthracene	1.401	1.438	2.6	TM
18	TM	Chrysene	1.558	1.595	2.4	TM
19	TML	Indeno (1,2,3-cd) pyrene	1.272	1.162	8.7	TML 3.1
20	I	Perylene-D12(IS)	ISTD			I
21	TM	Benzo (b) fluoranthene	1.408	1.522	8.1	TM
22	TM	Benzo (k) fluoranthene	1.610	1.613	0.19	TM
23	*TM	Benzo (a) pyrene	1.341	1.470	9.7	*TM
24	TM	Dibenz (a,h) anthracene	1.326	1.345	1.4	TM
25	TM	Benzo (g,h,i) perylene	1.443	1.471	1.9	TM
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Average

5.2

Quantitation Report (Not Reviewed)

Data File : M:\KYLO\DATA\211124\1124K060.D Vial: 60  
 Acq On : 1 Dec 21 10:08 Operator: LS  
 Sample : 5 ug/ml 10/19/21 (2) Inst : KYLO  
 Misc : Multiplr: 1.00

Quant Time: Dec 1 10:24 2021 Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)  
 Title : EPA 8270  
 Last Update : Mon Nov 29 09:02:10 2021  
 Response via : Initial Calibration  
 DataAcq Meth : SIM\_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	3.86	136	10556	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	5.79	164	5012	2.50000	ppb	-0.07
10) Phenanthrene-D10 (IS)	7.49	188	7449	2.50000	ppb	-0.06
15) Chrysene-D12 (IS)	10.54	240	9092	2.50000	ppb	-0.07
20) Perylene-D12 (IS)	12.71	264	8374	2.50000	ppb	-0.13
<b>System Monitoring Compounds</b>						
3) 2-Methylnaphthalene-D10 (2)	4.59	152	12372	2.29515	ppb	0.00
Spiked Amount	5.000		Recovery	=	45.900%	
13) Fluoranthene-D10 (FRT)	8.86	212	15083	2.59747	ppb	-0.07
Spiked Amount	5.000		Recovery	=	51.940%	
<b>Target Compounds</b>						
						Qvalue
2) Naphthalene	3.88	128	27802	5.07024	ppb	100
4) 2-Methylnaphthalene	4.63	142	16762	5.21588	ppb	# 65
5) 1-Methylnaphthalene	4.74	142	16792	5.17747	ppb	85
7) Acenaphthylene	5.63	152	55464	5.34534	ppb	99
8) Acenaphthene	5.83	154	14376	5.23085	ppb	98
9) Fluorene	6.42	166	16702	5.24434	ppb	97
11) Phenanthrene	7.52	178	21720	5.29838	ppb	99
12) Anthracene	7.57	178	21056	5.43819	ppb	100
14) Fluoranthene	8.89	202	35572	5.58581	ppb	99
16) Pyrene	9.14	202	36689	5.27041	ppb	99
17) Benz (a) anthracene	10.53	228	26148	5.13107	ppb	99
18) Chrysene	10.57	228	28995	5.11768	ppb	99
19) Indeno (1,2,3-cd) pyrene	14.28	276	21123	5.15536	ppb	97
21) Benzo (b) fluoranthene	12.03	252	25495	5.40602	ppb	98
22) Benzo (k) fluoranthene	12.08	252	27017	5.00965	ppb	98
23) Benzo (a) pyrene	12.60	252	24628	5.48277	ppb	98
24) Dibenzo (a,h) anthracene	14.32	278	22522	5.07085	ppb	94
25) Benzo (g,h,i) perylene	14.59	276	24636	5.09689	ppb	95

Quantitation Report

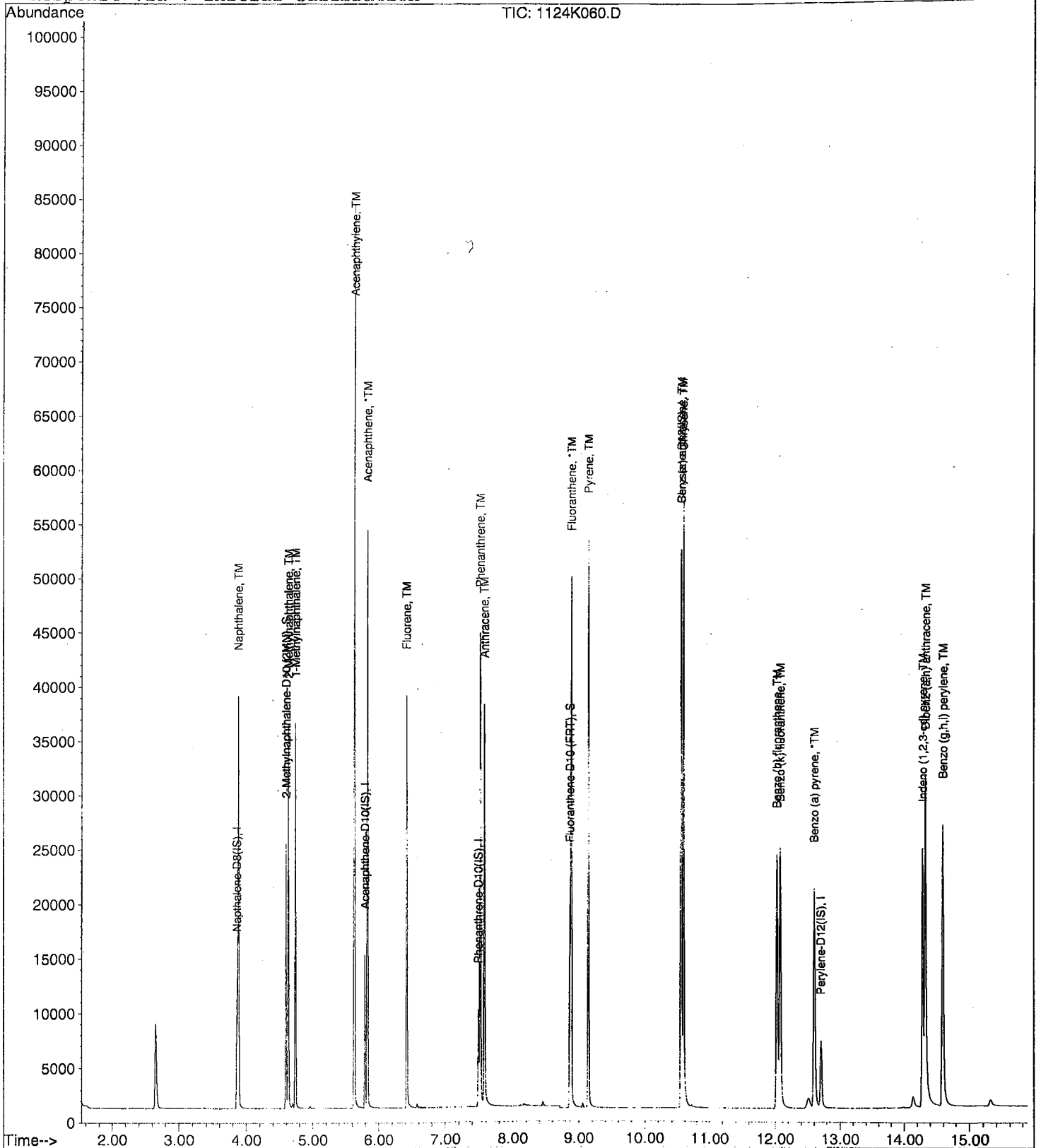
Data File : M:\KYLO\DATA\211124\1124K060.D  
Acq On : 1 Dec 21 10:08  
Sample : 5 ug/ml 10/19/21 (2)  
Misc :

Vial: 60  
Operator: LS  
Inst : KYLO  
Multiplr: 1.00

Quant Time: Dec 1 10:24 2021

Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)  
Title : EPA 8270  
Last Update : Mon Nov 29 09:02:10 2021  
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 Dec 21 22:06  
Instrument: KYLO  
Initial Cal. Date: 10/19/2021  
Data File: 1124K096.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Napthalene-D8(IS)	ISTD			I	
2	TM	Napthalene	1.299	1.298	0.08	TM	
3	S	2-Methylnaphthalene-D10 (2MN)	1.277	1.281	0.35	S	
4	TM	2-Methylnaphthalene	0.7611	0.7985	4.9	TM	
5	TM	1-Methylnaphthalene	0.7681	0.8019	4.4	TM	
6	I	Acenaphthene-D10(IS)	ISTD			I	
7	TM	Acenaphthylene	5.176	5.643	9.0	TM	
8	*TM	Acenaphthene	1.371	1.442	5.2	*TM	
9	TM	Fluorene	1.589	1.670	5.1	TM	
10	I	Phenanthrene-D10(IS)	ISTD			I	
11	TM	Phenanthrene	1.376	1.464	6.4	TM	
12	TM	Anthracene	1.299	1.391	7.1	TM	
13	S	Fluoranthene-D10 (FRT)	1.949	1.977	1.5	S	
14	*TM	Fluoranthene	2.137	2.327	8.9	*TM	
15	I	Chrysene-D12(IS)	ISTD			I	
16	TM	Pyrene	1.914	2.037	6.4	TM	
17	TM	Benz (a) anthracene	1.401	1.466	4.6	TM	
18	TM	Chrysene	1.558	1.596	2.4	TM	
19	TML	Indeno (1,2,3-cd) pyrene	1.272	1.065	16	TML	5.2
20	I	Perylene-D12(IS)	ISTD			I	
21	TM	Benzo (b) fluoranthene	1.408	1.582	12	TM	
22	TM	Benzo (k) fluoranthene	1.610	1.670	3.7	TM	
23	*TM	Benzo (a) pyrene	1.341	1.442	7.5	*TM	
24	TM	Dibenz (a,h) anthracene	1.326	1.341	1.1	TM	
25	TM	Benzo (g,h,i) perylene	1.443	1.462	1.3	TM	
26							
27							
28							
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39							
40							

Average

5.4

Data File : M:\KYLO\DATA\211124\1124K096.D  
 Acq On : 1 Dec 21 22:06  
 Sample : 5 ug/ml 10/19/21 (1)  
 Misc :

Vial: 96  
 Operator: LS  
 Inst : KYLO  
 Multiplr: 1.00

Quant Time: Dec 2 8:40 2021

Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)  
 Title : EPA 8270  
 Last Update : Wed Dec 01 13:13:21 2021  
 Response via : Initial Calibration  
 DataAcq Meth : SIM\_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	3.86	136	15373	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	5.79	164	7614	2.50000	ppb	-0.07
10) Phenanthrene-D10 (IS)	7.49	188	11236	2.50000	ppb	-0.06
15) Chrysene-D12 (IS)	10.54	240	13098	2.50000	ppb	-0.07
20) Perylene-D12 (IS)	12.71	264	11557	2.50000	ppb	-0.13
<b>System Monitoring Compounds</b>						
3) 2-Methylnaphthalene-D10 (2)	4.59	152	19695	2.50881	ppb	0.00
Spiked Amount	5.000		Recovery	=	50.180%	
13) Fluoranthene-D10 (FRT)	8.86	212	22217	2.53650	ppb	-0.07
Spiked Amount	5.000		Recovery	=	50.720%	
<b>Target Compounds</b>						
						Qvalue
2) Naphthalene	3.88	128	39897	4.99613	ppb	# 84
4) 2-Methylnaphthalene	4.63	142	24552	5.24601	ppb	# 65
5) 1-Methylnaphthalene	4.74	142	24656	5.22009	ppb	87
7) Acenaphthylene	5.63	152	85931	5.45145	ppb	99
8) Acenaphthene	5.83	154	21964	5.26070	ppb	98
9) Fluorene	6.42	166	25433	5.25676	ppb	97
11) Phenanthrene	7.52	178	32891	5.31920	ppb	100
12) Anthracene	7.57	178	31264	5.35315	ppb	99
14) Fluoranthene	8.89	202	52299	5.44449	ppb	99
16) Pyrene	9.14	202	53349	5.31973	ppb	100
17) Benz (a) anthracene	10.53	228	38395	5.22996	ppb	100
18) Chrysene	10.57	228	41808	5.12228	ppb	99
19) Indeno (1,2,3-cd) pyrene	14.28	276	27890	4.74089	ppb	97
21) Benzo (b) fluoranthene	12.03	252	36558	5.61686	ppb	98
22) Benzo (k) fluoranthene	12.08	252	38592	5.18508	ppb	99
23) Benzo (a) pyrene	12.60	252	33322	5.37514	ppb	98
24) Dibenz (a,h) anthracene	14.32	278	30989	5.05556	ppb	94
25) Benzo (g,h,i) perylene	14.59	276	33785	5.06462	ppb	95

Quantitation Report

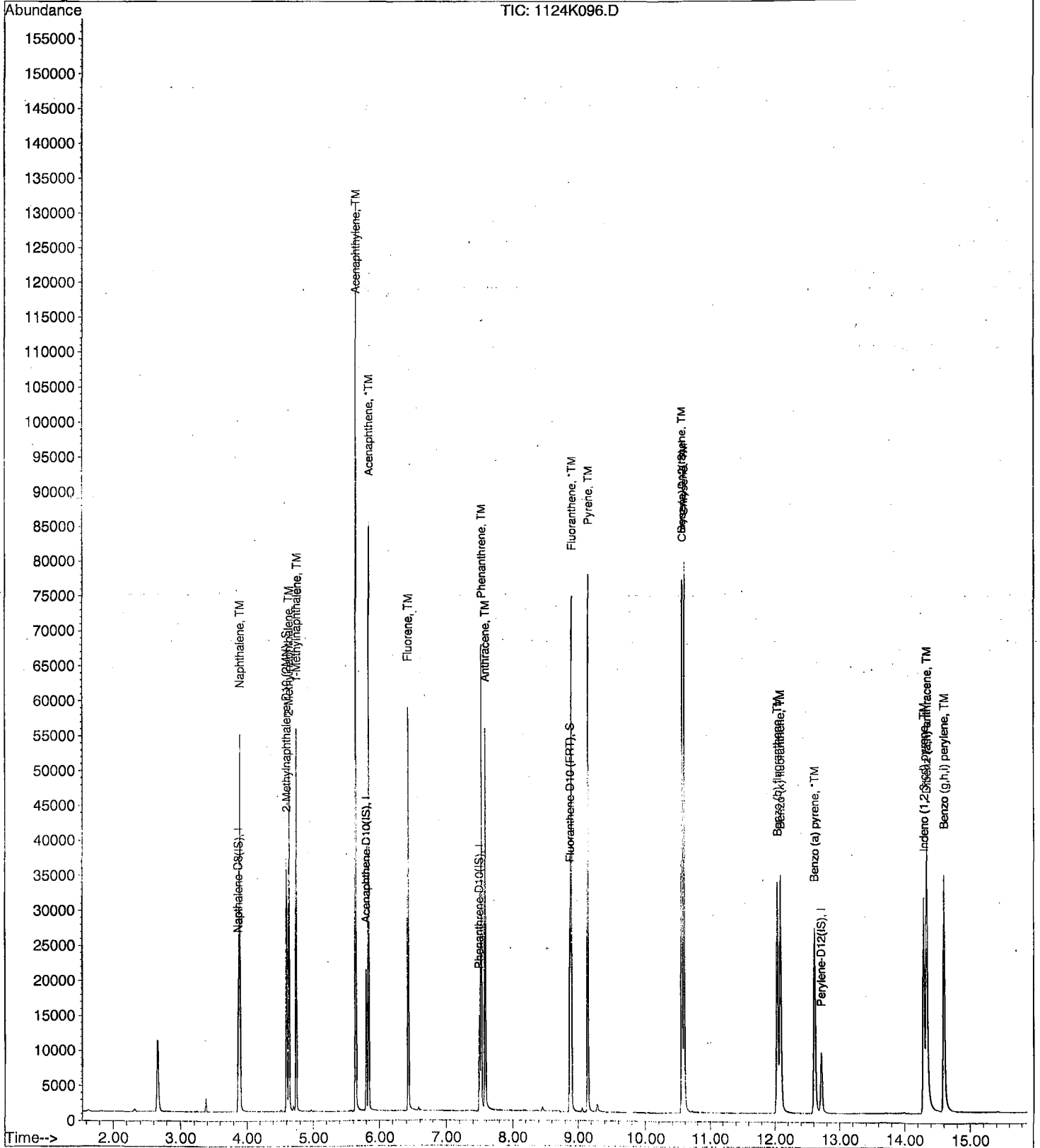
Data File : M:\KYLO\DATA\211124\1124K096.D  
Acq On : 1 Dec 21 22:06  
Sample : 5 ug/ml 10/19/21 (1)  
Misc :

Vial: 96  
Operator: LS  
Inst : KYLO  
Multiplr: 1.00

Quant Time: Dec 2 8:40 2021

Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)  
Title : EPA 8270  
Last Update : Wed Dec 01 13:13:21 2021  
Response via : Initial Calibration



**ORGANICS**  
**Raw Data**



Quantitation Report (QT Reviewed)

Data File : M:\KYLO\DATA\211124\1124K068.D Vial: 68  
 Acq On : 1 Dec 21 12:47 Operator: LS  
 Sample : BA46979W07 1/1000 Inst : KYLO  
 Misc : Multiplr: 1.00

Quant Time: Dec 1 13:16 2021 Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)  
 Title : EPA 8270  
 Last Update : Wed Dec 01 13:13:21 2021  
 Response via : Initial Calibration  
 DataAcq Meth : SIM\_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	3.86	136	8989	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	5.79	164	4654	2.50000	ppb	-0.07
10) Phenanthrene-D10 (IS)	7.49	188	7785	2.50000	ppb	-0.06
15) Chrysene-D12 (IS)	10.54	240	9030	2.50000	ppb	-0.07
20) Perylene-D12 (IS)	12.71	264	8073	2.50000	ppb	-0.12

System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2)	4.59	152	25015	5.44954	ppb	0.00
Spiked Amount	5.000		Recovery	=	109.000%	
13) Fluoranthene-D10 (FRT)	8.87	212	24196	3.98699	ppb	-0.07
Spiked Amount	5.000		Recovery	=	79.740%	

Target Compounds Qvalue

Quantitation Report

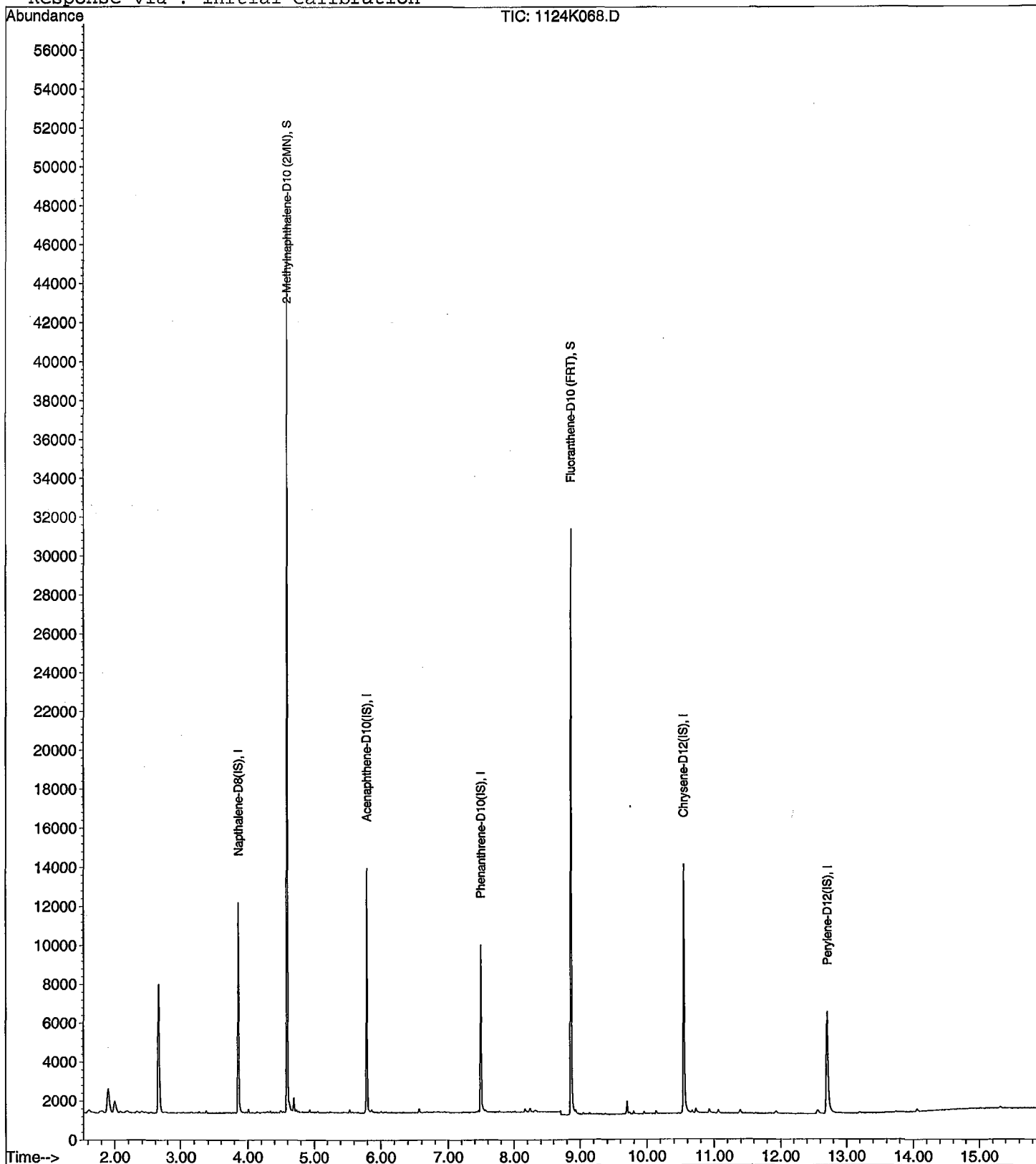
Data File : M:\KYLO\DATA\211124\1124K068.D  
Acq On : 1 Dec 21 12:47  
Sample : BA46979W07 1/1000  
Misc :

Vial: 68  
Operator: LS  
Inst : KYLO  
Multiplr: 1.00

Quant Time: Dec 1 13:16 2021

Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)  
Title : EPA 8270  
Last Update : Wed Dec 01 13:13:21 2021  
Response via : Initial Calibration



Data File : M:\KYLO\DATA\211124\1124K069.D  
 Acq On : 1 Dec 21 13:07  
 Sample : BA46981W07 1/1000  
 Misc :

Vial: 69  
 Operator: LS  
 Inst : KYLO  
 Multiplr: 1.00

Quant Time: Dec 27 14:56 2021

Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)  
 Title : EPA 8270  
 Last Update : Wed Dec 01 13:13:21 2021  
 Response via : Initial Calibration  
 DataAcq Meth : SIM\_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	3.86	136	11473	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	5.79	164	6039	2.50000	ppb	-0.07
10) Phenanthrene-D10 (IS)	7.49	188	9418	2.50000	ppb	-0.07
15) Chrysene-D12 (IS)	10.54	240	10509	2.50000	ppb	-0.07
20) Perylene-D12 (IS)	12.71	264	9169	2.50000	ppb	-0.13
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2)	4.59	152	26237	4.47825	ppb	0.00
Spiked Amount	5.000		Recovery	=	89.560%	
13) Fluoranthene-D10 (FRT)	8.86	212	22306	3.03825	ppb	-0.07
Spiked Amount	5.000		Recovery	=	60.760%	
Target Compounds						
2) Naphthalene	3.89	128	442070	74.17648	ppb	# 84
4) 2-Methylnaphthalene	4.63	142	131026	37.51297	ppb	# 64
5) 1-Methylnaphthalene	4.74	142	134903	38.27003	ppb	# 87

Quantitation Report

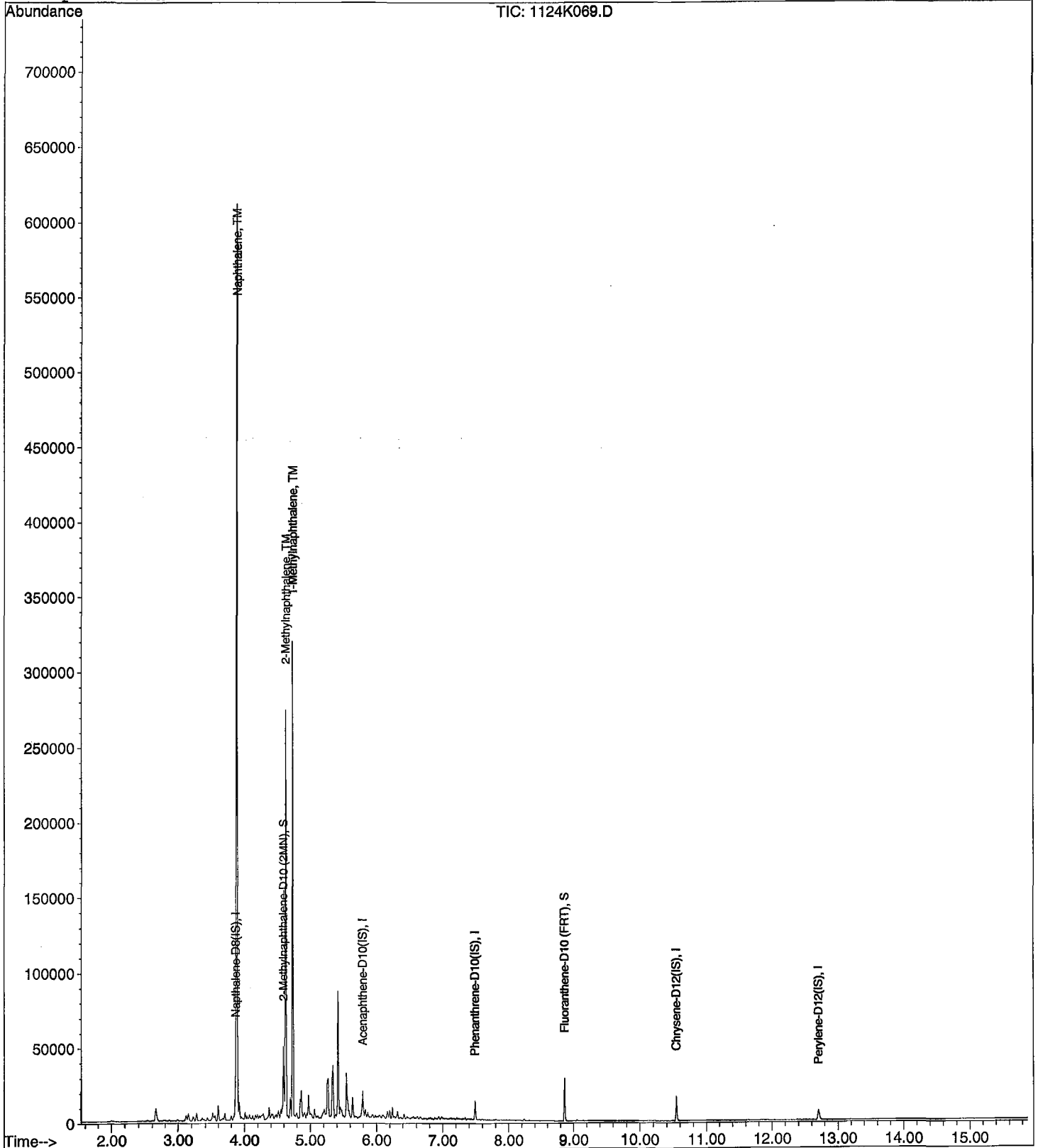
Data File : M:\KYLO\DATA\211124\1124K069.D  
Acq On : 1 Dec 21 13:07  
Sample : BA46981W07 1/1000  
Misc :

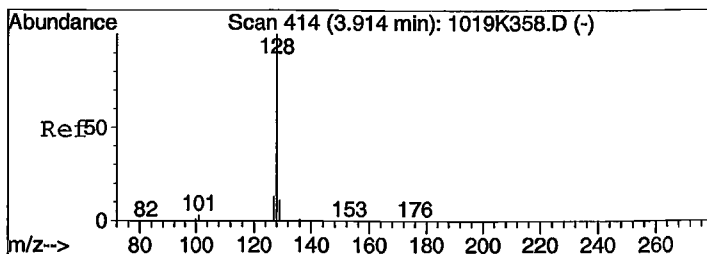
Vial: 69  
Operator: LS  
Inst : KYLO  
Multiplr: 1.00

Quant Time: Dec 27 14:56 2021

Quant Results File: K1019.RES

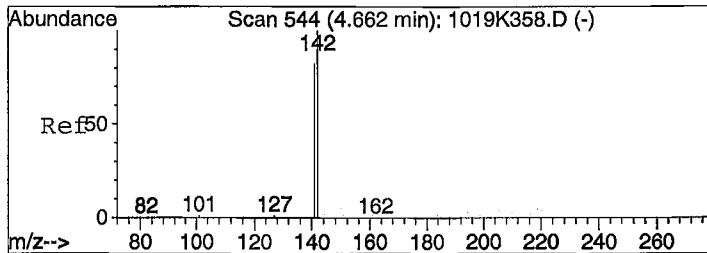
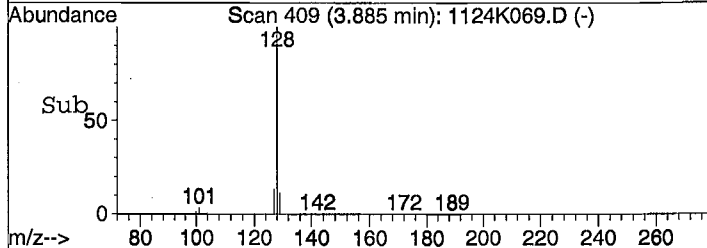
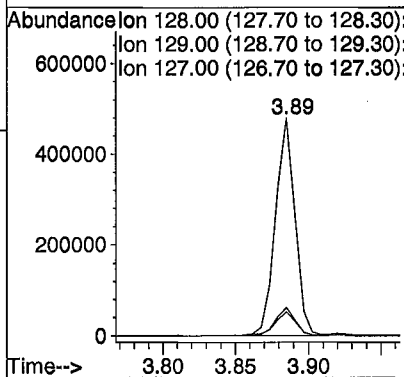
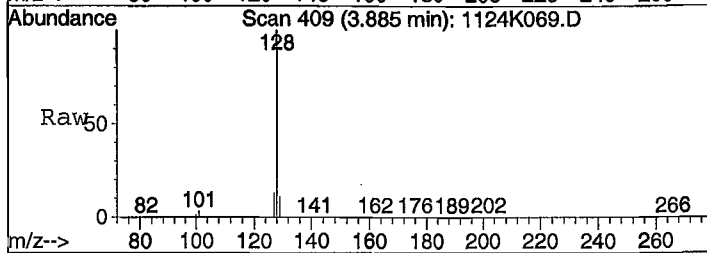
Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)  
Title : EPA 8270  
Last Update : Wed Dec 01 13:13:21 2021  
Response via : Initial Calibration





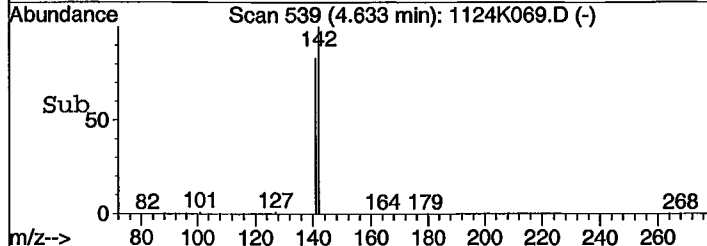
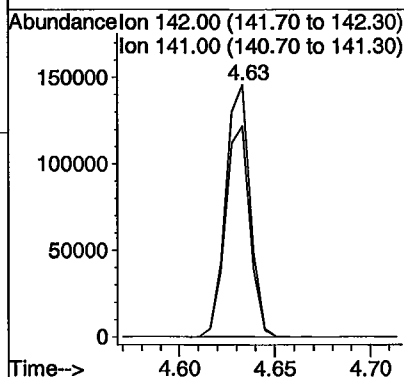
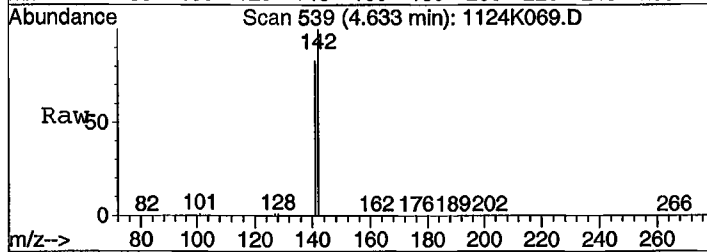
#2  
 Naphthalene  
 Concen: 74.17648 ppb  
 RT: 3.89 min Scan# 409  
 Delta R.T. 0.01 min  
 Lab File: 1124K069.D  
 Acq: 1 Dec 21 13:07

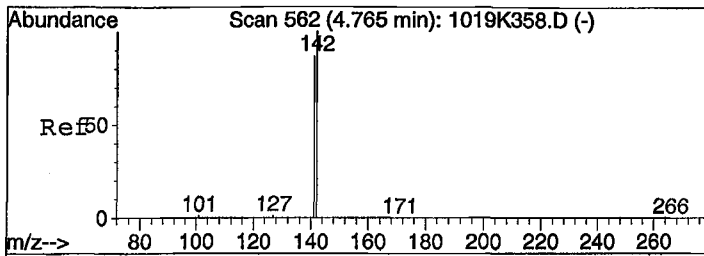
Tgt Ion	Resp	Lower	Upper
128	442070	100	
129	11.1	12.7	23.5#
127	12.9	14.0	26.0#



#4  
 2-Methylnaphthalene  
 Concen: 37.51297 ppb  
 RT: 4.63 min Scan# 539  
 Delta R.T. 0.01 min  
 Lab File: 1124K069.D  
 Acq: 1 Dec 21 13:07

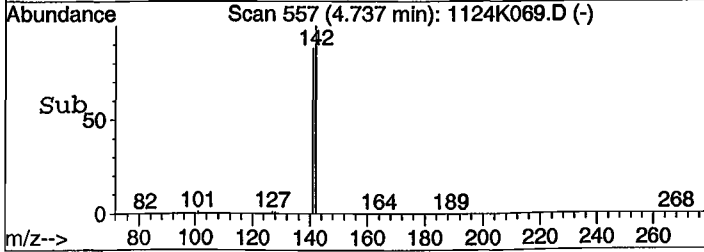
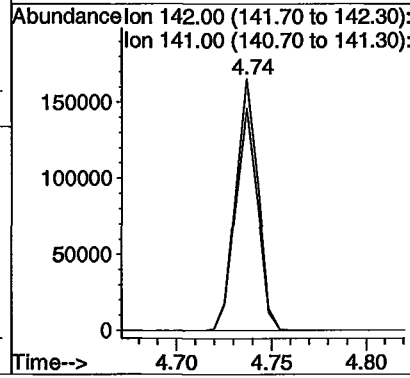
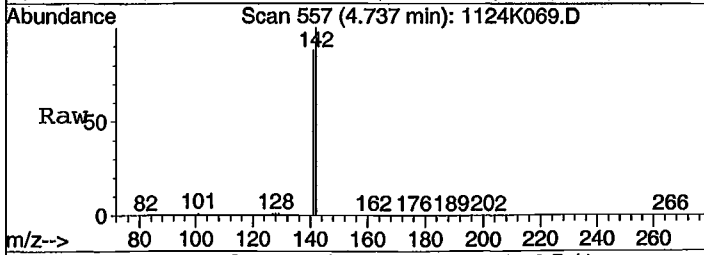
Tgt Ion	Resp	Lower	Upper
142	131026	100	
141	83.5	87.0	161.6#





#5  
 1-Methylnaphthalene  
 Concen: 38.27003 ppb  
 RT: 4.74 min Scan# 557  
 Delta R.T. -0.00 min  
 Lab File: 1124K069.D  
 Acq: 1 Dec 21 13:07

Tgt Ion:142 Resp: 134903  
 Ion Ratio Lower Upper  
 142 100  
 141 88.2 70.7 131.3



Quantitation Report (QT Reviewed)

Data File : M:\KYLO\DATA\211124\1124K070.D Vial: 70  
 Acq On : 1 Dec 21 13:27 Operator: LS  
 Sample : BA46983W07 1/1000 Inst : KYLO  
 Misc : Multiplr: 1.00

Quant Time: Dec 2 10:44 2021 Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)  
 Title : EPA 8270  
 Last Update : Wed Dec 01 13:13:21 2021  
 Response via : Initial Calibration  
 DataAcq Meth : SIM\_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	3.86	136	10599	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	5.79	164	5406	2.50000	ppb	-0.07
10) Phenanthrene-D10 (IS)	7.49	188	8883	2.50000	ppb	-0.07
15) Chrysene-D12 (IS)	10.54	240	10346	2.50000	ppb	-0.07
20) Perylene-D12 (IS)	12.71	264	9198	2.50000	ppb	-0.13

System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2)	4.59	152	25237	4.66277	ppb	0.00
Spiked Amount	5.000		Recovery	=	93.260%	
13) Fluoranthene-D10 (FRT)	8.86	212	26769	3.86574	ppb	-0.07
Spiked Amount	5.000		Recovery	=	77.320%	

Target Compounds Qvalue

Quantitation Report

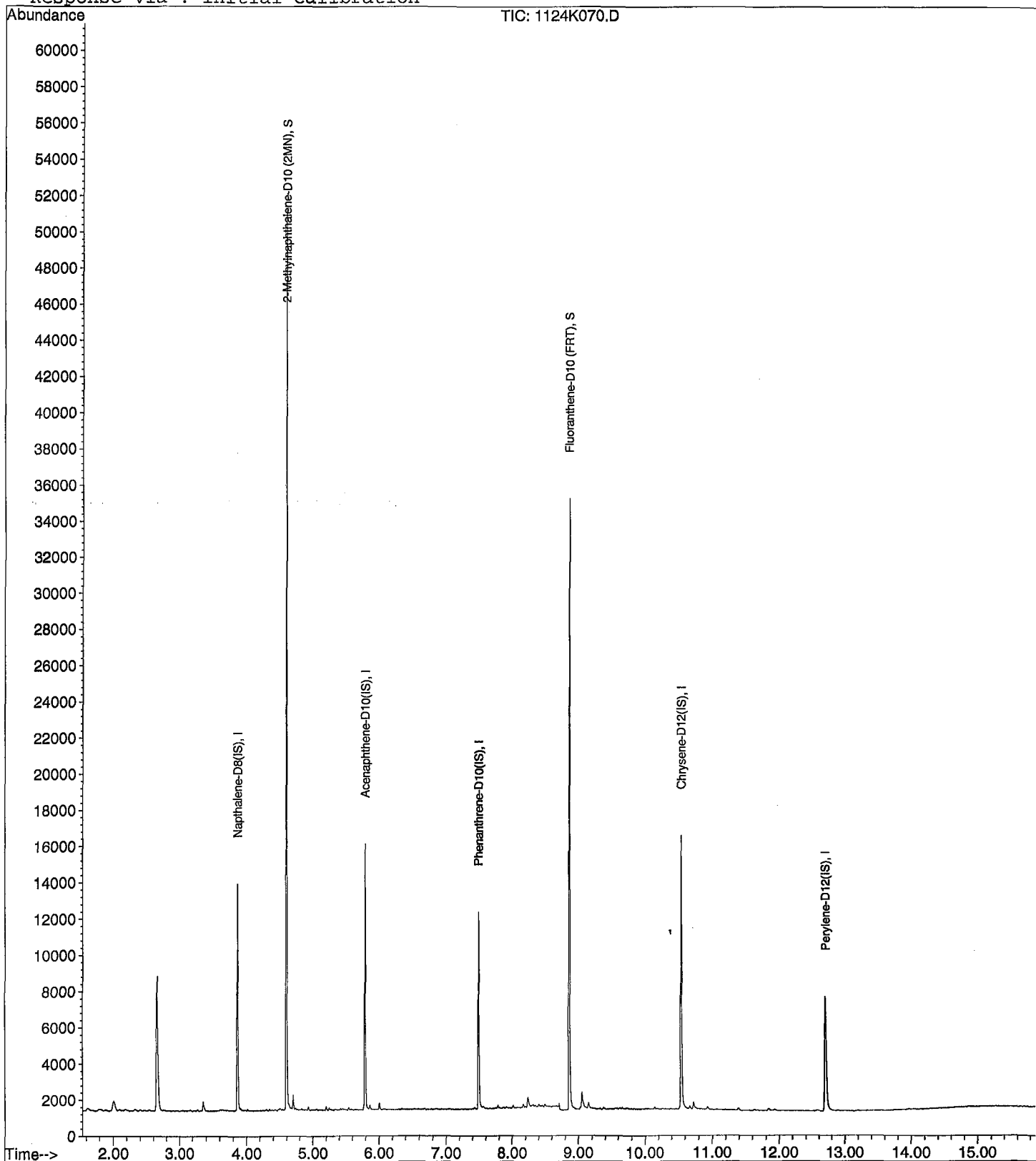
Data File : M:\KYLO\DATA\211124\1124K070.D  
Acq On : 1 Dec 21 13:27  
Sample : BA46983W07 1/1000  
Misc :

Vial: 70  
Operator: LS  
Inst : KYLO  
Multiplr: 1.00

Quant Time: Dec 2 10:44 2021

Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)  
Title : EPA 8270  
Last Update : Wed Dec 01 13:13:21 2021  
Response via : Initial Calibration





Data File : M:\KYLO\DATA\211124\1124K071.D Vial: 71  
 Acq On : 1 Dec 21 13:47 Operator: LS  
 Sample : BA46985W07 1/1000 Inst : KYLO  
 Misc : Multiplr: 1.00

Quant Time: Dec 2 10:45 2021 Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)  
 Title : EPA 8270  
 Last Update : Wed Dec 01 13:13:21 2021  
 Response via : Initial Calibration  
 DataAcq Meth : SIM\_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	3.86	136	10510	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	5.79	164	5375	2.50000	ppb	-0.07
10) Phenanthrene-D10 (IS)	7.49	188	8407	2.50000	ppb	-0.07
15) Chrysene-D12 (IS)	10.54	240	9381	2.50000	ppb	-0.07
20) Perylene-D12 (IS)	12.71	264	8420	2.50000	ppb	-0.12
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2)	4.59	152	26345	4.90870	ppb	0.00
Spiked Amount	5.000		Recovery	=	98.180%	
13) Fluoranthene-D10 (FRT)	8.87	212	27943	4.26376	ppb	-0.07
Spiked Amount	5.000		Recovery	=	85.280%	
Target Compounds						
5) 1-Methylnaphthalene	4.74	142	230	0.07123	ppb	Qvalue 98

Quantitation Report

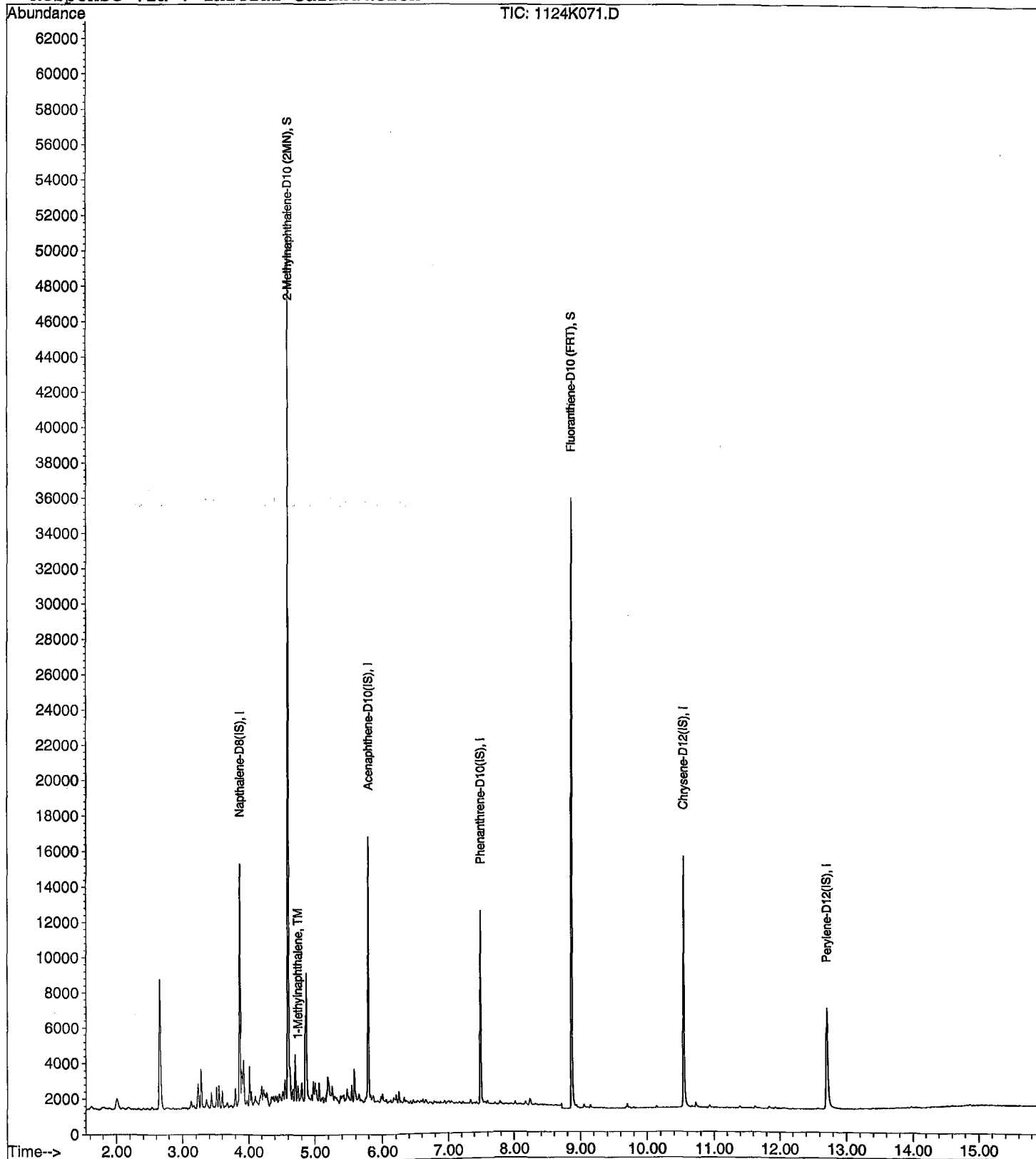
Data File : M:\KYLO\DATA\211124\1124K071.D  
Acq On : 1 Dec 21 13:47  
Sample : BA46985W07 1/1000  
Misc :

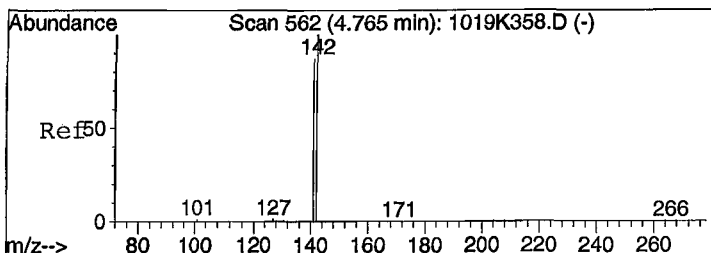
Vial: 71  
Operator: LS  
Inst : KYLO  
Multiplr: 1.00

Quant Time: Dec 2 10:45 2021

Quant Results File: K1019.RES

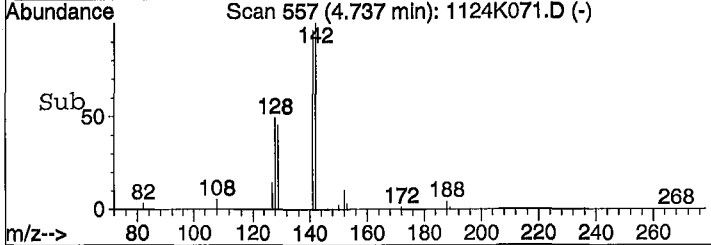
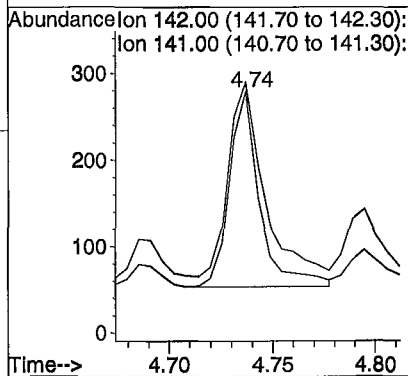
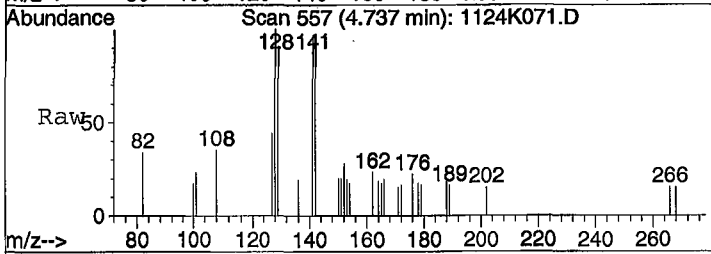
Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)  
Title : EPA 8270  
Last Update : Wed Dec 01 13:13:21 2021  
Response via : Initial Calibration





#5  
 1-Methylnaphthalene  
 Concen: 0.07123 ppb  
 RT: 4.74 min Scan# 557  
 Delta R.T. 0.00 min  
 Lab File: 1124K071.D  
 Acq: 1 Dec 21 13:47

Tgt Ion	Resp	Lower	Upper
142	100		
141	99.1	70.7	131.3



Quantitation Report (QT Reviewed)

Data File : M:\KYLO\DATA\211124\1124K061.D  
 Acq On : 1 Dec 21 10:28  
 Sample : 211129A BLK 1/1000  
 Misc :

Vial: 61  
 Operator: LS  
 Inst : KYLO  
 Multiplr: 1.00

Quant Time: Dec 1 10:49 2021

Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)  
 Title : EPA 8270  
 Last Update : Mon Nov 29 09:02:10 2021  
 Response via : Initial Calibration  
 DataAcq Meth : SIM\_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	3.86	136	10121	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	5.79	164	4869	2.50000	ppb	-0.07
10) Phenanthrene-D10 (IS)	7.49	188	7517	2.50000	ppb	-0.07
15) Chrysene-D12 (IS)	10.55	240	8794	2.50000	ppb	-0.07
20) Perylene-D12 (IS)	12.71	264	8022	2.50000	ppb	-0.12

System Monitoring Compounds

3) 2-Methylnaphthalene-D10 (2)	4.59	152	22853	4.42171	ppb	0.00
Spiked Amount	5.000		Recovery	=	88.440%	
13) Fluoranthene-D10 (FRT)	8.86	212	27995	4.77745	ppb	-0.07
Spiked Amount	5.000		Recovery	=	95.540%	

Target Compounds

Qvalue

Quantitation Report

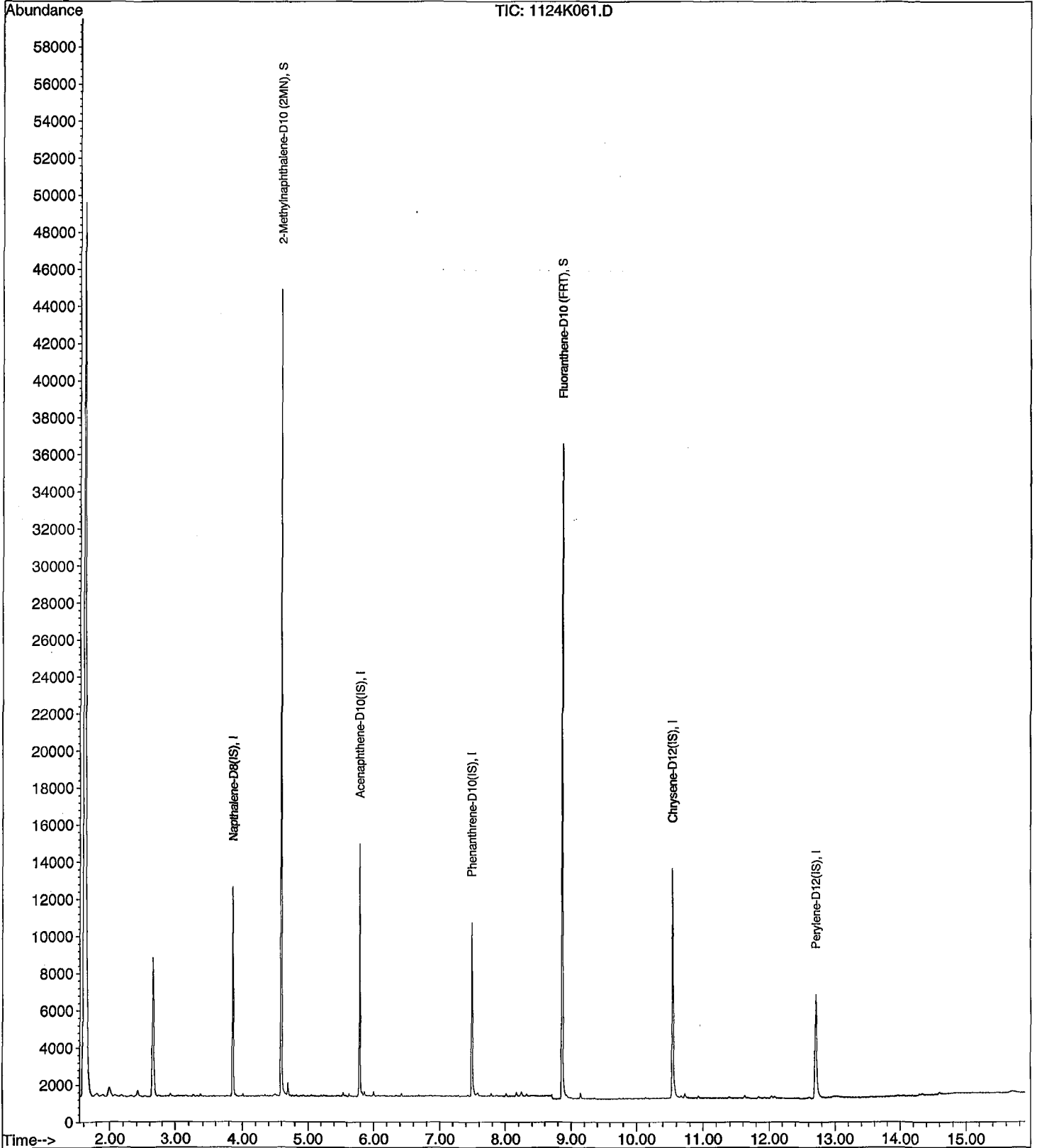
Data File : M:\KYLO\DATA\211124\1124K061.D  
Acq On : 1 Dec 21 10:28  
Sample : 211129A BLK 1/1000  
Misc :

Vial: 61  
Operator: LS  
Inst : KYLO  
Multiplr: 1.00

Quant Time: Dec 1 10:49 2021

Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)  
Title : EPA 8270  
Last Update : Wed Dec 01 13:13:21 2021  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\KYLO\DATA\211124\1124K062.D  
 Acq On : 1 Dec 21 10:47  
 Sample : 211129A LCS-1 1/1000  
 Misc :

Vial: 62  
 Operator: LS  
 Inst : KYLO  
 Multiplr: 1.00

Quant Time: Dec 1 13:11 2021

Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)  
 Title : EPA 8270  
 Last Update : Mon Nov 29 09:02:10 2021  
 Response via : Initial Calibration  
 DataAcq Meth : SIM\_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	3.86	136	10677	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	5.79	164	5170	2.50000	ppb	-0.07
10) Phenanthrene-D10 (IS)	7.49	188	8059	2.50000	ppb	-0.07
15) Chrysene-D12 (IS)	10.54	240	9659	2.50000	ppb	-0.07
20) Perylene-D12 (IS)	12.71	264	8895	2.50000	ppb	-0.13
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2)	4.59	152	22464	4.12011	ppb	0.00
Spiked Amount	5.000		Recovery	=	82.400%	
13) Fluoranthene-D10 (FRT)	8.86	212	28849	4.59209	ppb	-0.07
Spiked Amount	5.000		Recovery	=	91.840%	
Target Compounds						
2) Naphthalene	3.88	128	18743	3.37942	ppb	100
4) 2-Methylnaphthalene	4.63	142	9650	2.96879	ppb #	65
5) 1-Methylnaphthalene	4.74	142	10092	3.07640	ppb	85
7) Acenaphthylene	5.63	152	38746	3.62002	ppb	99
8) Acenaphthene	5.82	154	9670	3.41100	ppb	96
9) Fluorene	6.42	166	12086	3.67896	ppb	100
11) Phenanthrene	7.52	178	16793	3.78642	ppb	99
12) Anthracene	7.57	178	15978	3.81433	ppb	99
14) Fluoranthene	8.89	202	27658	4.01435	ppb	99
16) Pyrene	9.14	202	28306	3.82749	ppb	99
17) Benz (a) anthracene	10.53	228	20999	3.87878	ppb	100
18) Chrysene	10.57	228	22652	3.76343	ppb	99
19) Indeno (1,2,3-cd) pyrene	14.28	276	14926	3.49260	ppb	86
21) Benzo (b) fluoranthene	12.03	252	19607	3.91400	ppb	99
22) Benzo (k) fluoranthene	12.08	252	21911	3.82490	ppb	100
23) Benzo (a) pyrene	12.60	252	18086	3.79054	ppb	98
24) Dibenz (a,h) anthracene	14.32	278	17407	3.68964	ppb	98
25) Benzo (g,h,i) perylene	14.59	276	19147	3.72926	ppb	99

Quantitation Report

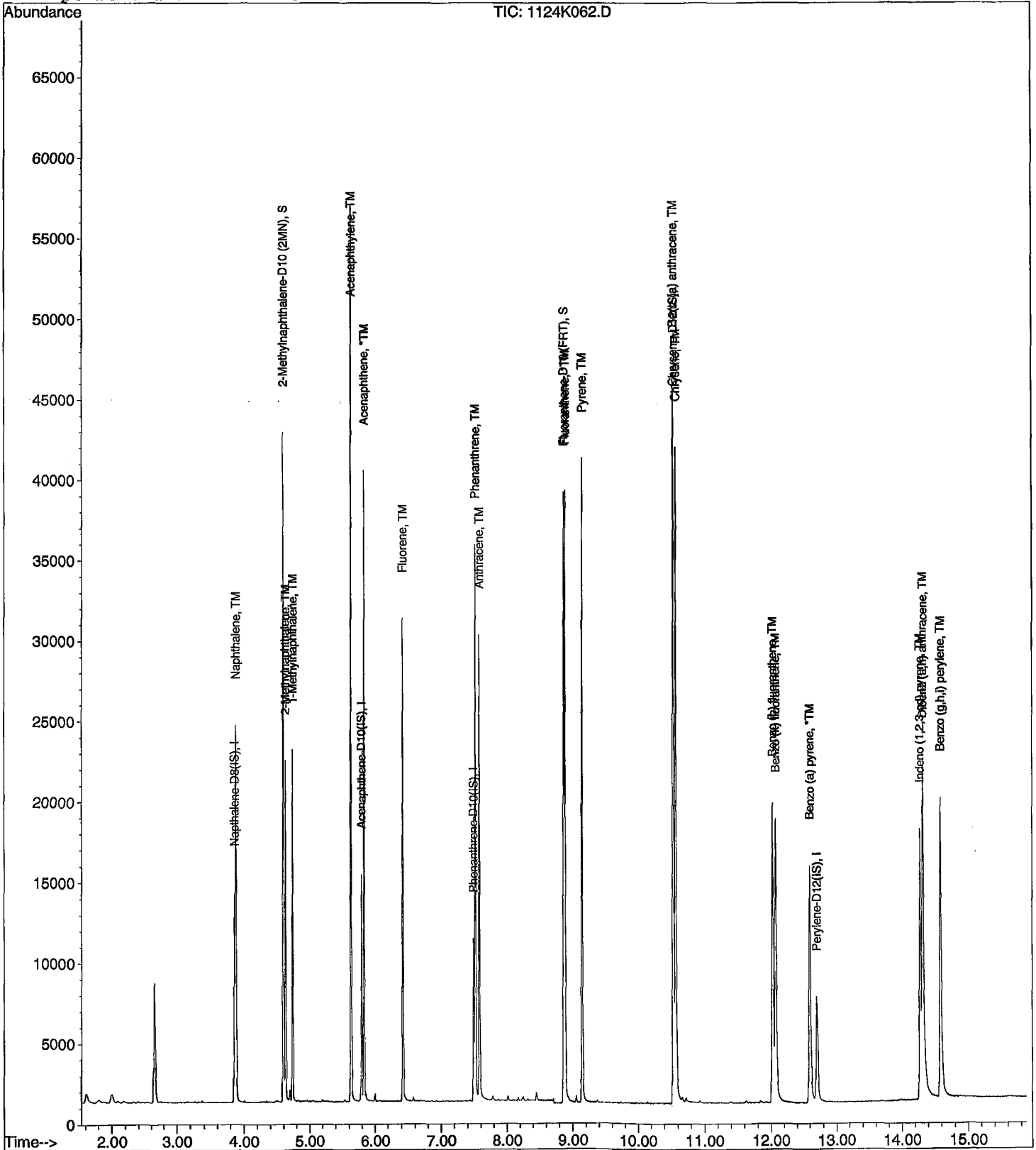
Data File : M:\KYLO\DATA\211124\1124K062.D  
Acq On : 1 Dec 21 10:47  
Sample : 211129A LCS-1 1/1000  
Misc :

Vial: 62  
Operator: LS  
Inst : KYLO  
Multiplr: 1.00

Quant Time: Dec 1 13:11 2021

Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)  
Title : EPA 8270  
Last Update : Wed Dec 01 13:13:21 2021  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\KYLO\DATA\211124\1124K063.D  
 Acq On : 1 Dec 21 11:07  
 Sample : 211129A LCSD-1 1/1000  
 Misc :

Vial: 63  
 Operator: LS  
 Inst : KYLO  
 Multiplr: 1.00

Quant Time: Dec 1 13:11 2021

Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)  
 Title : EPA 8270  
 Last Update : Mon Nov 29 09:02:10 2021  
 Response via : Initial Calibration  
 DataAcq Meth : SIM\_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Napthalene-D8 (IS)	3.86	136	10411	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	5.79	164	5102	2.50000	ppb	-0.07
10) Phenanthrene-D10 (IS)	7.49	188	8060	2.50000	ppb	-0.07
15) Chrysene-D12 (IS)	10.54	240	9628	2.50000	ppb	-0.07
20) Perylene-D12 (IS)	12.71	264	8737	2.50000	ppb	-0.12
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2)	4.59	152	24705	4.64690	ppb	0.00
Spiked Amount	5.000		Recovery	=	92.940%	
13) Fluoranthene-D10 (FRT)	8.86	212	28967	4.61030	ppb	-0.07
Spiked Amount	5.000		Recovery	=	92.200%	
Target Compounds						
2) Naphthalene	3.88	128	25005	4.62367	ppb	100
4) 2-Methylnaphthalene	4.63	142	14938	4.71304	ppb	# 65
5) 1-Methylnaphthalene	4.74	142	14910	4.66122	ppb	85
7) Acenaphthylene	5.63	152	50417	4.77322	ppb	99
8) Acenaphthene	5.82	154	12956	4.63101	ppb	97
9) Fluorene	6.42	166	15094	4.65583	ppb	99
11) Phenanthrene	7.52	178	19982	4.50490	ppb	99
12) Anthracene	7.57	178	18516	4.41966	ppb	100
14) Fluoranthene	8.89	202	32338	4.69304	ppb	98
16) Pyrene	9.14	202	32880	4.46030	ppb	94
17) Benz (a) anthracene	10.53	228	24347	4.51168	ppb	99
18) Chrysene	10.57	228	26121	4.35375	ppb	98
19) Indeno (1,2,3-cd) pyrene	14.28	276	17721	4.12370	ppb	95
21) Benzo (b) fluoranthene	12.02	252	23039	4.68228	ppb	98
22) Benzo (k) fluoranthene	12.07	252	24851	4.41657	ppb	99
23) Benzo (a) pyrene	12.60	252	21319	4.54892	ppb	97
24) Dibenz (a,h) anthracene	14.32	278	20367	4.39513	ppb	95
25) Benzo (g,h,i) perylene	14.58	276	22214	4.40486	ppb	97



Quantitation Report

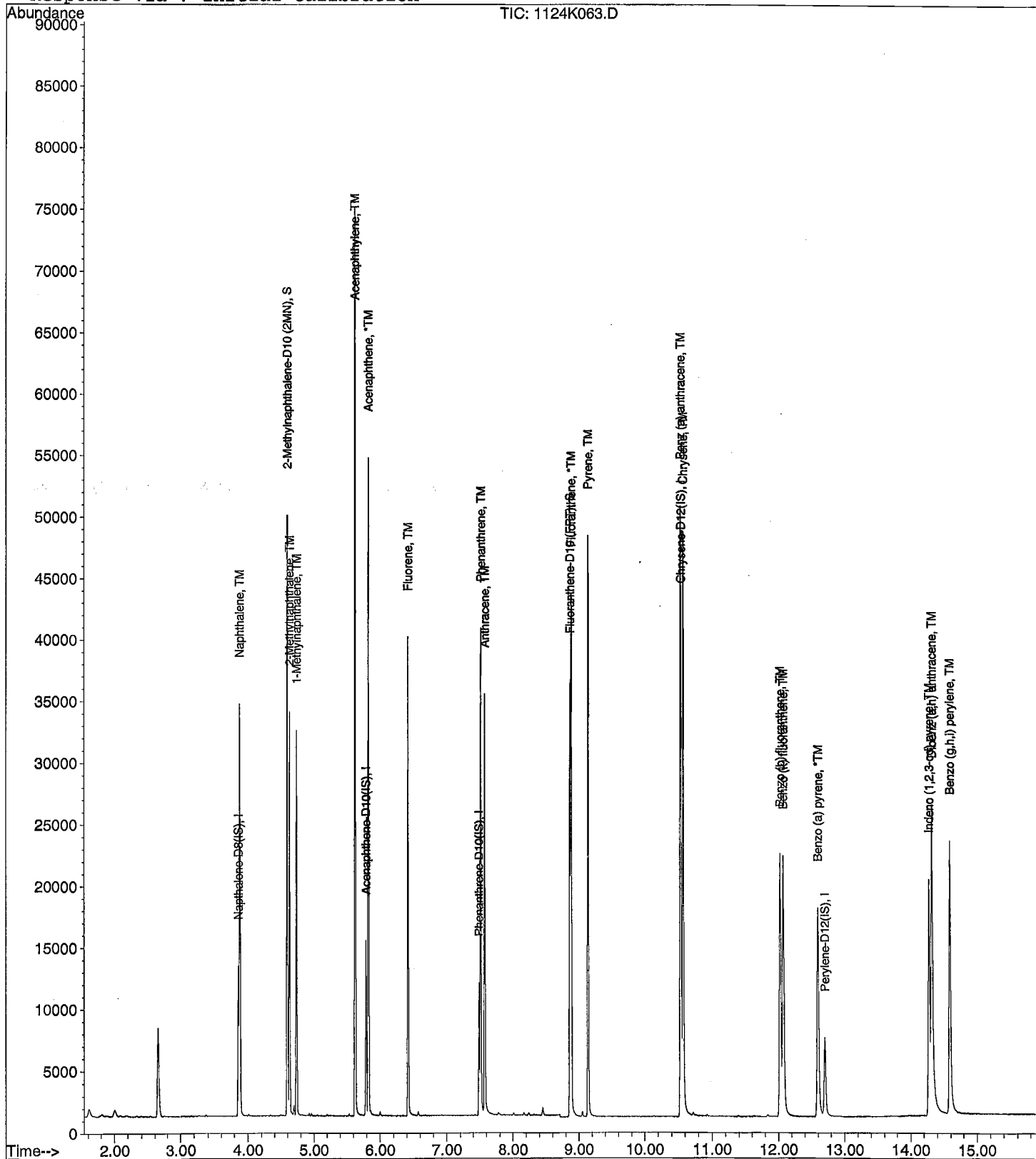
Data File : M:\KYLO\DATA\211124\1124K063.D  
Acq On : 1 Dec 21 11:07  
Sample : 211129A LCSD-1 1/1000  
Misc :

Vial: 63  
Operator: LS  
Inst : KYLO  
Multiplr: 1.00

Quant Time: Dec 1 13:11 2021

Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)  
Title : EPA 8270  
Last Update : Wed Dec 01 13:13:21 2021  
Response via : Initial Calibration

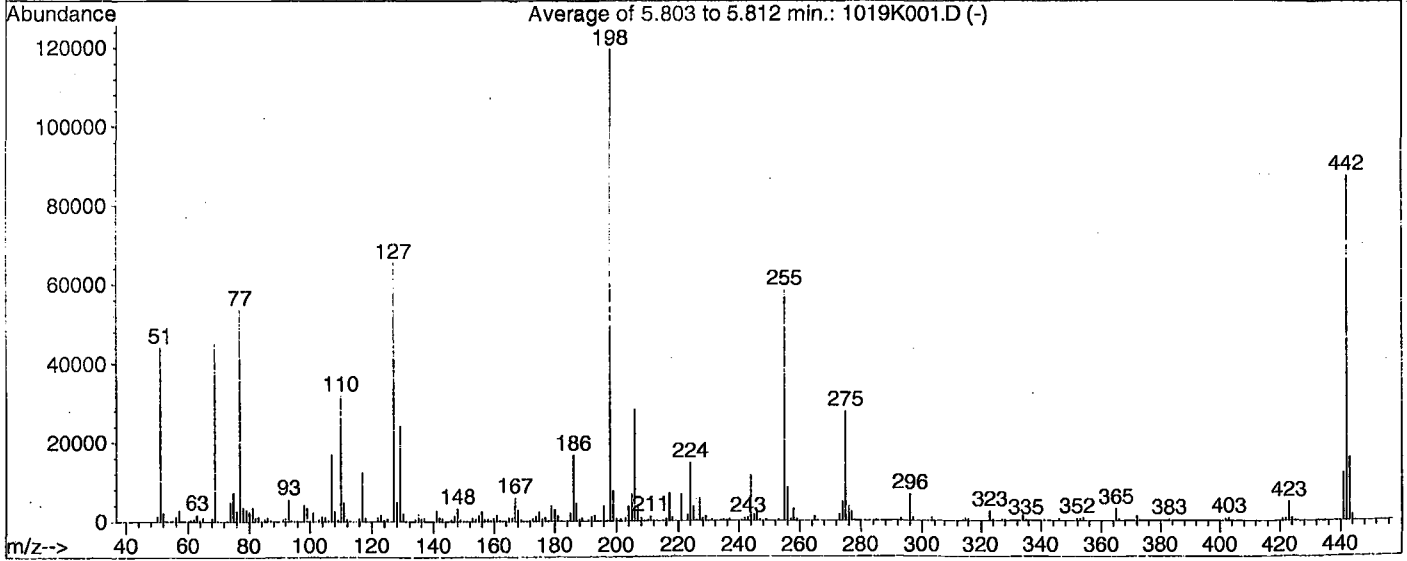
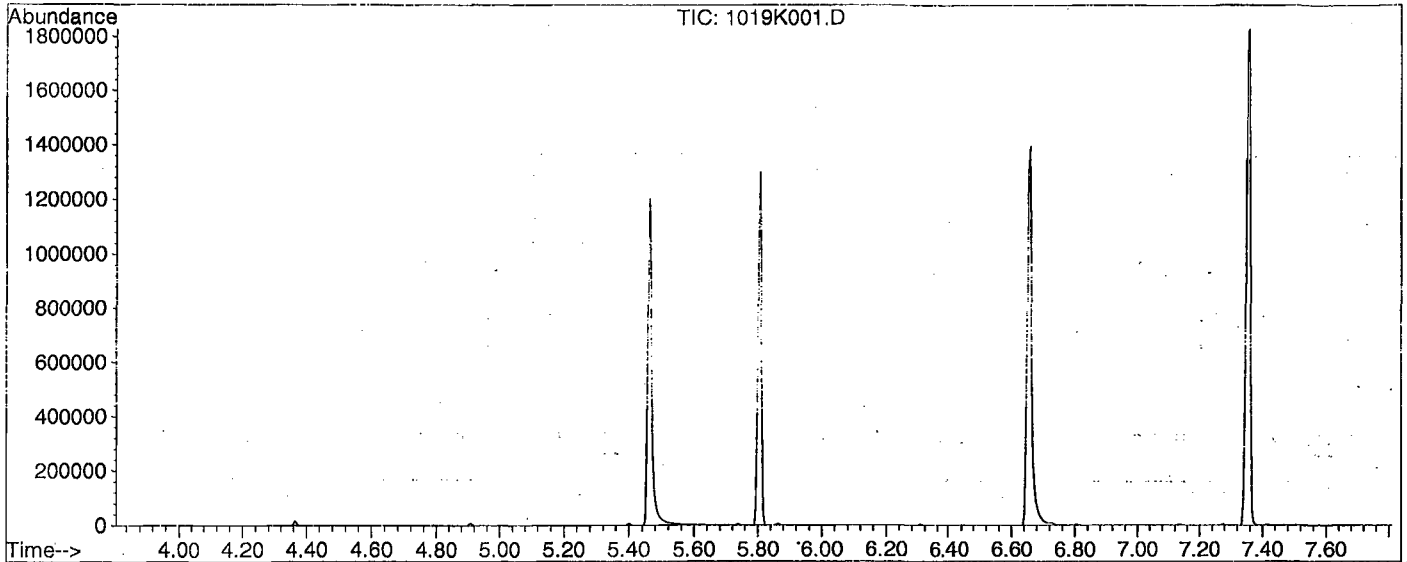


DFTPP

Data File : M:\KYLO\DATA\211019\1019K001.D  
 Acq On : 19 Oct 21 13:58  
 Sample : SV TUNE 7/2/21  
 Misc :

Vial: 1  
 Operator: LS  
 Inst : KYLO  
 Multiplr: 1.00

Method : M:\KYLO\DATA\211019\DFTPP2.M (Chemstation Integrator)  
 Title :



AutoFind: Scans 476, 477, 478; Background Corrected with Scan 470

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.8	44033	PASS
68	69	0.00	2	1.7	772	PASS
70	69	0.00	2	0.4	170	PASS
127	198	10	80	54.6	65376	PASS
197	198	0.00	2	0.2	185	PASS
198	198	100	100	100.0	119640	PASS
199	198	5	9	6.5	7734	PASS
275	198	10	60	23.2	27808	PASS
365	198	1	100	2.5	3043	PASS
441	442	0.01	24	13.9	12169	PASS
442	198	50	500	73.4	87760	PASS
443	442	15	24	18.4	16149	PASS

Data File Name: 1019K001.D  
Data File Path: M:\KYLO\DATA\211019\  
Operator: LS  
Date Acquired: 19 Oct 2021 13:58  
Method File: DFTPP2.M  
Sample Name: SV TUNE 7/2/21  
Vial Number: 1  
Instrument Name: KYLO

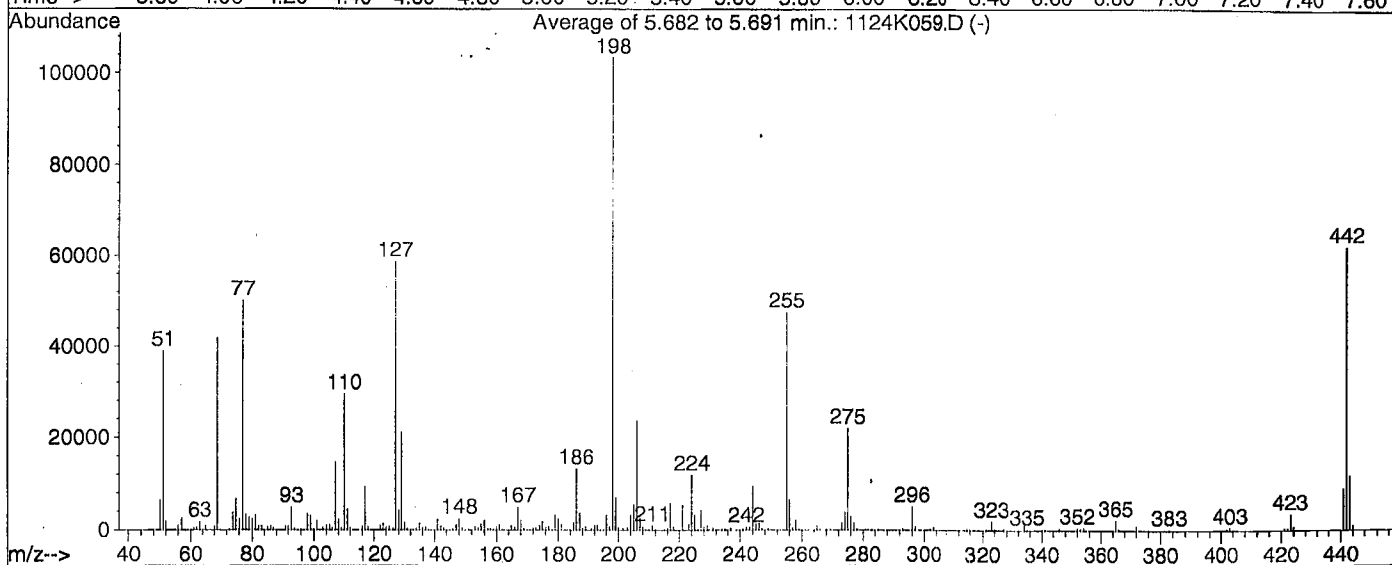
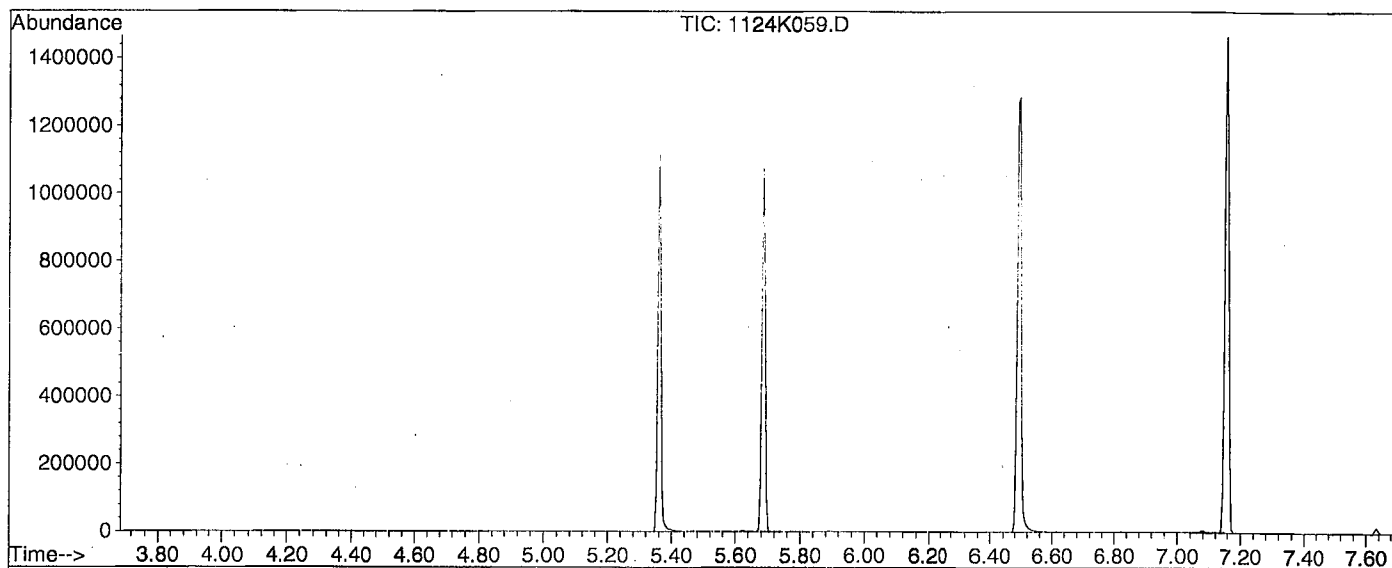
#	Name	Ret Time	Target Response
1)	DDT	7.36	16763500
2)	DDD	7.13	0
3)	DDE	6.80	0

Breakdown 0.00

Data File : M:\KYLO\DATA\211124\1124K059.D  
 Acq On : 1 Dec 21 9:56  
 Sample : SV TUNE 7/2/21  
 Misc :

Vial: 59  
 Operator: LS  
 Inst : KYLO  
 Multiplr: 1.00

Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)  
 Title : EPA 8270



AutoFind: Scans 450, 451, 452; Background Corrected with Scan 445

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	37.7	38992	PASS
68	69	0.00	2	1.9	790	PASS
70	69	0.00	2	0.5	211	PASS
127	198	10	80	56.8	58773	PASS
197	198	0.00	2	0.7	748	PASS
198	198	100	100	100.0	103480	PASS
199	198	5	9	6.7	6958	PASS
275	198	10	60	21.2	21977	PASS
365	198	1	100	2.1	2122	PASS
441	442	0.01	24	14.4	9001	PASS
442	198	50	500	60.3	62371	PASS
443	442	15	24	18.9	11815	PASS

Data File Name: 1124K059.D  
Data File Path: M:\KYLO\DATA\211124\  
Operator: LS  
Date Acquired: 1 Dec 21 9:56  
Method File: DFTPP2.M  
Sample Name: SV TUNE 7/2/21  
Vial Number: 59  
Instrument Name: KYLO

#	Name	Ret Time	Target Response
1)	DDT	7.17	12321900
2)	DDD	6.95	0
3)	DDE	6.65	0

Breakdown 0.00

Name of Final Standard

SIM Curve

Prep'd By (Initials)

LS

Prep Date

10/13/2021

Exp Date

6/17/2022

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	APPL	1.0 ug/mL SIM	1.0 ug/mL	9/9/2021	6/17/2022	10 uL	100uL	MC 61117 90uL	0.1 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	6/17/2021	6/17/2022	2 uL	*	*	2.5ug/mL
1.0 ug/mL SIM	APPL	1.0 ug/mL SIM	1.0 ug/mL	9/9/2021	6/17/2022	20 uL	100uL	MC 61117 80uL	0.2 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	6/17/2021	6/17/2022	2 uL	*	*	2.5ug/mL
5.0 ug/mL SIM	APPL	5.0 ug/mL SIM	5.0 ug/mL	9/9/2021	6/17/2022	10 uL	100uL	MC 61117 90uL	0.5 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	6/17/2021	6/17/2022	2 uL	*	*	2.5ug/mL
5.0 ug/mL SIM	APPL	5.0 ug/mL SIM	5.0 ug/mL	9/9/2021	6/17/2022	20 uL	100uL	MC 61117 80 uL	1.0 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	6/17/2021	6/17/2022	2 uL	*	*	2.5ug/mL
SIM STOCK	APPL	SIM STOCK	200 ug/mL	6/17/2021	6/17/2022	5 uL	200uL	MC 61117 190 uL	5.0 ug/mL
SIM SURROGATE	APPL	SIM SURR	100 ug/mL	6/17/2021	6/17/2022	5 uL	*	*	2.5ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	6/17/2021	6/17/2022	4 uL	*	*	2.5ug/mL
SIM STOCK	APPL	SIM STOCK	200 ug/mL	6/17/2021	6/17/2022	5 uL	100 uL	MC 61117 90 uL	10 ug/mL
SIM SURROGATE	APPL	SIM SURR	100 ug/mL	6/17/2021	6/17/2022	5 uL	*	*	5 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	6/17/2021	6/17/2022	2 uL	*	*	2.5ug/mL
SIM STOCK	APPL	SIM STOCK	200 ug/mL	6/17/2021	6/17/2022	25 uL	100uL	MC 61117 50 uL	50 ug/mL
SIM SURROGATE	APPL	SIM SURR	100 ug/mL	6/17/2021	6/17/2022	25 uL	*	*	25 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	6/17/2021	6/17/2022	2 uL	*	*	2.5ug/mL
SIM STOCK	APPL	SIM STOCK	200 ug/mL	6/17/2021	6/17/2022	50 uL	100uL	na	100 ug/mL
SIM SURROGATE	APPL	SIM SURR	100 ug/mL	6/17/2021	6/17/2022	50 uL	*	*	50 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	6/17/2021	6/17/2022	2 uL	*	*	2.5ug/mL

Name of Final Standard

8270 PAH SIM Second Source

Prep'd By (Initials)

LS

Prep Date

10/13/2021

Exp Date

6/17/2022

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	6/17/2021	6/17/2022	5 uL	200uL	MC 61117 195uL	5 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	6/17/2021	6/17/2022	4 uL	*	*	2.5ug/mL

Name of Final Standard **PAH SIM Stock (Ampule)**  
 Prep Date **6/17/2021**  
 Exp Date **6/17/2022**

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

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	CL13121-52443	12/31/2022	1000 uL	1mL	NA	200 ug/mL

Name of Final Standard **SIM Surrogate**  
 Prep Date **6/17/2021**  
 Exp Date **6/17/2022**

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

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	A0161454-50793	5/31/2026	1 mL	20 mL	Acetone #0246130	100 ug/mL

Name of Final Standard **8270 SIM PAH Internal Standard**  
 Prep Date **6/17/2021**  
 Exp Date **6/17/2022**

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

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	A0162879-50593	6/30/2026	625uL	10mL	MC 60338	125 ug/mL

Name of Final Standard **SIM SS Stock (Ampule second source)**  
 Prep Date **6/17/2021**  
 Exp Date **6/17/2022**

Prep'd By **LS**

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	CL13117-51757	12/31/2022	1000 uL	1mL	NA	200 ug/mL

Name of Final Standard 5 SIM CCV (2x)  
 Prep Date 10/19/2021  
 Exp Date 6/17/2022

Prep'd By (Initials) LS

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 STOCK	APPL	SIM STOCK	200 ug/mL	6/17/2021	12/31/2022	5 uL	200uL	MC 61117 190 uL	5.0 ug/mL
SIM SURROGATE	APPL	SIM SURR	100 ug/mL	6/17/2021	5/31/2026	5 uL	*	*	2.5ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	6/17/2021	6/30/2026	4 uL	*	*	2.5ug/mL



Name of Final Standard SIM Surrogate  
 Prep Date 9/21/2021  
 Exp Date 9/21/2022

Prep'd By (Initials) \_\_\_\_\_ LS/IC \_\_\_\_\_

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	A0173323-52639	5/31/2027	1 mL	20 mL	Acetone #0246130	100 ug/mL

Name of Final Standard SIM Surrogate  
 Prep Date 8/24/2021  
 Exp Date 8/24/2022

Prep'd By (Initials) LS

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	A0173323-52640	5/31/2027	1 mL	20 mL	Acetone #0246130	100 ug/mL

Name of Final Standard SIM Spike  
 Prep Date 8/5/2021  
 Exp Date 5/28/2022

Prep'd By (Initials) LS

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- 50766,50767,50771,52444,52 445	5/28/2022	5 mL	25 mL	Acetone 0246130	40 ug/mL

Name of Final Standard

5 SIM CCV (2x)

Prep'd By (Initials)

LS

Prep Date

10/19/2021

Exp Date

6/17/2022

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 STOCK	APPL	SIM STOCK	200 ug/mL	6/17/2021	12/31/2022	5 uL	200uL	MC 61117 190 uL	5.0 ug/mL
SIM SURROGATE	APPL	SIM SURR	100 ug/mL	6/17/2021	5/31/2026	5 uL	*	*	2.5ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	6/17/2021	6/30/2026	4 uL	*	*	2.5ug/mL

Name of Final Standard SIM Surrogate  
 Prep Date 8/24/2021  
 Exp Date 8/24/2022

Prep'd By (Initials) LS

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	A0173323-52640	5/31/2027	1 mL	20 mL	Acetone #0246130	100 ug/mL

Name of Final Standard SIM Surrogate  
 Prep Date 9/21/2021  
 Exp Date 9/21/2022

Prep'd By (Initials) LS/C

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	A0173323-52639	5/31/2027	1 mL	20 mL	Acetone #0246130	100 ug/mL

# Organic Extraction Worksheet

<b>Method</b>	Continuous Liquid/Liquid SVOC 3520C	<b>Extraction Set</b>	211129A	<b>Extraction Method</b>	LIQ003	<b>Units</b>	mL
Spiked ID 1	Sim Spike 10-21-21 10-21-22	Surrogate ID 1	SIM Surrogate 11-10-21 11-10-22				
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:		NO			
Spiked ID 7		Ext. Start Time:		11/29/21 12:23			
Spiked ID 8		Ext. End Time:		11/30/21 6:35			
<b>GC Requires Extract By:</b>							
pH1	14	11/29/21 9:07	Water Bath Temp 1 °C	60/59.5 E-WB5 °			
pH2	14	11/29/21 11:40	Water Bath Temp 2 °C	66/66.5 E-WB7			
pH3			Water Bath Temp 3 °C				

Spiked By: SR

Date 11/29/2021

Witnessed By: CG

Date 11/29/2021

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1 211129A Blk				0.050	1	1000	1	14	11/29/21 9:00	
					equip	E-HP3 E-WB5				
2 211129A LCS-1		0.125	1	0.050	1	1000	1	14	11/29/21 9:00	
					equip	E-HP4 E-WB5				
3 211129A LCSD-1		0.125	1	0.050	1	1000	1	14	11/29/21 9:00	
					equip	E-HP6 E-WB5				
4 BA46927	BA46927W08			0.050	1	1010	1	14	11/29/21 9:00	98311
					equip	E-HP7 E-WB5				
5 BA46928	BA46928W04			0.050	1	1000	1	14	11/29/21 9:00	98311 receiver broke lost extract
					equip	E-HP8 E-WB5				
6 BA46971	BA46971W07			0.050	1	950	1	14	11/29/21 11:30	98336
					equip	E-HP9 E-WB5				
7 BA46973	BA46973W07			0.050	1	950	1	14	11/29/21 11:30	98336
					equip	E-HP10 E-WB5				
8 BA46974	BA46974W07			0.050	1	950	1	14	11/29/21 11:30	98336
					equip	E-HP11 E-WB5				
9 BA46979	BA46979W07			0.050	1	1000	1	14	11/29/21 11:30	98337
					equip	E-HP12 E-WB7				
10 BA46981	BA46981W07			0.050	1	1000	1	14	11/29/21 11:30	98337
					equip	E-HP13 E-WB7				
11 BA46983	BA46983W07			0.050	1	1000	1	14	11/29/21 11:30	98337
					equip	E-HP14 E-WB7				
12 BA46985	BA46985W07			0.050	1	1000	1	14	11/29/21 11:30	98337
					equip	E-HP15 E-WB7				

Solvent and Lot#	
PH Strips	HC155968
Dichloromethane (DCM)	61117
10N NaOH (10mLs)	11-20-21
Filter Paper	400202
Na2SO4	2021071206

Extraction COC Transfer	
Extraction lab employee Initials	KY
GC analyst's initials	LS
Date	12/1/21
Time	0852
Refrigerator	GC_C

Technician's Initials	
Scanned By	SR
Sample Preparation	SR
Extraction	SR
Concentration	SR
Modified	12/1/2021 7:12:17 AM

Reviewed By: KY

Date 12/1/2021

## Injection Log

Directory: M:\KYLO\DATA\211019\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	1019K001.D	1	SV TUNE 7/2/21		19 Oct 21 13:58
2	2	1019K002.D	1	0.1 ug/ml 10/13/21		19 Oct 21 14:09
3	3	1019K003.D	1	0.2 ug/ml 10/13/21		19 Oct 21 14:29
4	4	1019K004.D	1	0.5 ug/ml 10/13/21		19 Oct 21 14:49
5	5	1019K005.D	1	1 ug/ml 10/13/21		19 Oct 21 15:09
6	6	1019K006.D	1	5 ug/ml 10/13/21		19 Oct 21 15:29
7	7	1019K007.D	1	10 ug/ml 10/13/21		19 Oct 21 15:49
8	8	1019K008.D	1	50 ug/ml 10/13/21		19 Oct 21 16:09
9	9	1019K009.D	1	100 ug/ml 10/13/21		19 Oct 21 16:29
10	10	1019K010.D	1	SS ug/ml 10/13/21		19 Oct 21 16:49
11	59	1124K059.D	1	SV TUNE 7/2/21		1 Dec 21 9:56
12	60	1124K060.D	1	5 ug/ml 10/19/21 (2)		1 Dec 21 10:08
13	61	1124K061.D	1	211129A BLK 1/1000		1 Dec 21 10:28
14	62	1124K062.D	1	211129A LCS-1 1/1000		1 Dec 21 10:47
15	63	1124K063.D	1	211129A LCSD-1 1/1000		1 Dec 21 11:07
20	68	1124K068.D	1	BA46979W07 1/1000		1 Dec 21 12:47
21	69	1124K069.D	1	BA46981W07 1/1000		1 Dec 21 13:07
22	70	1124K070.D	1	BA46983W07 1/1000		1 Dec 21 13:27
23	71	1124K071.D	1	BA46985W07 1/1000		1 Dec 21 13:47
24	96	1124K096.D	1	5 ug/ml 10/19/21 (1)		1 Dec 21 22:06



**ORGANICS**  
**Calibration Data**

VOLATILE ORGANIC ANALYSIS  
VOLATILE ORGANIC COMPOUNDS

**Form 6**  
**Initial Calibration**

Lab Name: APPL, Inc.

SDG No: \_\_\_\_\_

Case No: \_\_\_\_\_

Initial Cal. Date: 12/6/2021

Matrix: WATER

Instrument: Zeus

Initials: MH

1206Z17.D    1206Z18.D    1206Z19.D    1206Z20.D    1206Z21.D    1206Z22.D    1206Z23.D    1206Z24.D    1206Z25.D

	Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	r <sup>2</sup>	Q	MRF
1	I Fluorobenzene (IS)																
2	TM Chlorotrifluoroethene													TM			
3	TM Dichlorodifluoromethane	0.1640	0.1511	0.1507	0.1699	0.1185	0.1266	0.1295	0.1331	0.1295		0.14	13	TM			
4	TML Freon 114	0.1665	0.1422	0.1337	0.1498	0.0974	0.1072	0.1034	0.0936			0.12	22	TM	0.997		
5	TM**L Chloromethane	0.1697	0.1403	0.1382	0.1428	0.1155	0.1074	0.0955	0.0911			0.13	22	TM**	0.998		
6	TM* Vinyl chloride	0.1418	0.1331	0.1326	0.1321	0.1166	0.1091	0.1087	0.1085	0.1064		0.12	11	TM*			
7	Butane																
8	TML 2-Chloro-1,1,1-trifluoroethane													TM			
9	TML Bromomethane	0.1563	0.1304	0.0919	0.0639	0.0474	0.0368	0.0312	0.0297	0.0277		0.07	70	TM	0.999		
10	TMQ Chloroethane	0.0342	0.0382	0.0295	0.0299	0.0256	0.0205	0.0162	0.0118	0.0072		0.02	44	TM	0.991		
11	TML Dichlorofluoromethane	0.2923	0.3259	0.2788	0.2780	0.2469	0.2437	0.2294	0.2181			0.26	14	TM	0.999		
12	TM Trichlorofluoromethane	0.2220	0.2348	0.2270	0.2399	0.2124	0.2094	0.2050	0.2024	0.1846		0.22	8.1	TM			
13	TML Pentane													TM			
14	TML Diethyl ether			0.0117	0.0129	0.0142	0.0145	0.0152	0.0158	0.0159		0.01	11	TM	1.000		
15	TML 1,2 Dichlorotrifluoroethane	0.2923	0.3259	0.2788	0.2780	0.2469	0.2437	0.2294	0.2181	0.1805		0.25	17	TM	0.993		
16	TM Acrolein	0.0062	0.0066	0.0067	0.0068	0.0068	0.0067	0.0067	0.0062	0.0063		0.01	3.8	TM			
17	TM Acetone	0.0175	0.0210	0.0192	0.0183	0.0182	0.0183	0.0182	0.0176	0.0173		0.02	6.2	TM			
18	TM Freon-113	0.0802	0.0746	0.0729	0.0658	0.0542	0.0627	0.0609	0.0612	0.0555		0.07	14	TM			
19	TM* 1,1-DCE	0.1801	0.1819	0.1838	0.1880	0.1558	0.1561	0.1565	0.1491	0.1390		0.17	11	TM*			
20	TML 2-Propanol													TM			
21	TMQ Acetonitrile	0.0066	0.0041	0.0034	0.0031	0.0026	0.0022	0.0022	0.0019	0.0016		0.00	50	TM	0.990		
22	TM t-Butanol	0.0026	0.0023	0.0023	0.0023	0.0024	0.0025	0.0025	0.0025	0.0021		0.00	6.6	TM			
23	TML Methyl Acetate	0.0585	0.0545	0.0506	0.0482	0.0477	0.0463	0.0454	0.0452	0.0457		0.05	9.4	TM	1.00		
24	TML Iodomethane	0.1119	0.1100	0.0929	0.0859	0.0815	0.0881	0.0872	0.0899	0.0793		0.09	13	TM	0.997		
25	TML Acrylonitrile		0.0090	0.0200	0.0259	0.0249	0.0251	0.0252	0.0245	0.0228		0.02	25	TM	0.999		
26	TML Methylene chloride	0.1602	0.1571	0.1521	0.1452	0.1294	0.1235	0.1156	0.1102	0.1023		0.13	16	TM	0.999		
27	TML Carbon disulfide	0.3240	0.2894	0.2704	0.2777	0.1923	0.1959	0.1873	0.1828	0.1665		0.23	25	TM	0.999		
28	TM Methyl t-butyl ether (MtBE)	0.2660	0.2186	0.2343	0.2385	0.2435	0.2574	0.2626	0.2712	0.2664		0.25	7.2	TM			
29	TM Trans-1,2-DCE	0.1928	0.1849	0.1823	0.1821	0.1604	0.1556	0.1518	0.1466	0.1350		0.17	12	TM			
30	TML Hexane	0.1230	0.2071	0.2150	0.2271	0.2307	0.2535	0.2565	0.2624	0.2481		0.22	19	TM	0.999		
31	TM Diisopropyl Ether	0.2007	0.2157	0.2281	0.2183	0.2239	0.2339	0.2390	0.2428	0.2416		0.23	6.1	TM			
32	TM**L 2,2-Dichloro-1,1,1-trifluoroethane	0.0109	0.0083	0.0126	0.0151	0.0129	0.0137	0.0126	0.0122	0.0106		0.01	16	TM**	0.996		
33	TM** 1,1-DCA	0.2320	0.2360	0.2323	0.2317	0.2165	0.2099	0.2007	0.1956	0.1833		0.22	8.9	TM**			
34	TM Vinyl Acetate	0.1894	0.1936	0.1770	0.1691	0.1706	0.1811	0.1819	0.1837	0.1763		0.18	4.5	TM			
35	TM Ethyl tert Butyl Ether	0.2152	0.2343	0.2313	0.2396	0.2437	0.2615	0.2680	0.2752	0.2771		0.25	8.7	TM			

VOLATILE ORGANIC ANALYSIS  
VOLATILE ORGANIC COMPOUNDS

**Form 6**  
**Initial Calibration**

Lab Name: APPL, Inc.

SDG No: \_\_\_\_\_

Case No: \_\_\_\_\_

Initial Cal. Date: 12/6/2021

Matrix: WATER

Instrument: Zeus

Initials: MH

		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type		Q	MRF
36	TML	MEK (2-Butanone)	0.0036	0.0070	0.0074	0.0074	0.0081	0.0092	0.0095	0.0100	0.0106		0.01	26	TM	0.993		
37	TM	Cis-1,2-DCE	0.2141	0.2028	0.2025	0.1990	0.1874	0.1845	0.1781	0.1728	0.1615		0.19	8.9	TM			
38	TM	2,2-Dichloropropane	0.1985	0.2119	0.2074	0.2063	0.1901	0.1938	0.1895	0.1842	0.1725		0.19	6.4	TM			
39	TML	2-Methylpentane	0.0539	0.0882	0.0814	0.0860	0.0857	0.0905	0.0907	0.0950	0.0893		0.08	14	TM	0.999		
40	TML	3-Methylpentane	0.1056	0.1831	0.1968	0.2257	0.2198	0.2320	0.2392	0.2496	0.2385		0.21	21	TM	1.000		
41	TM*	Chloroform	0.2506	0.2618	0.2470	0.2503	0.2381	0.2383	0.2303	0.2228	0.2092		0.24	6.7	TM*			
42	TM	Bromochloromethane	0.0677	0.0811	0.0821	0.0797	0.0795	0.0779	0.0741	0.0722	0.0677		0.08	7.3	TM			
43	SL	Dibromofluoromethane(S)	0.1704	0.1728	0.2228	0.2153	0.2474	0.2418	0.2463	0.2400	0.2377		0.22	14	S	0.999		
44	TM	1,1,1-TCA	0.1964	0.2170	0.2214	0.2238	0.2077	0.2187	0.2161	0.2113	0.1989		0.21	4.6	TM			
45	TML	Cyclohexane	0.2236	0.2306	0.2099	0.2239	0.1746	0.1971	0.2013	0.1984			0.21	8.9	TM	1.000		
46	TM	1,1-Dichloropropene	0.1788	0.1769	0.1831	0.1818	0.1627	0.1752	0.1794	0.1793	0.1685		0.18	3.7	TM			
47	TM	2,2,4-Trimethylpentane	0.4350	0.4379	0.4006	0.4414	0.3292	0.3832	0.3977	0.3990	0.3899		0.40	8.7	TM			
48	S	1,2-DCA-D4(S)	0.1414	0.1477	0.1850	0.1824	0.2069	0.2047	0.2085	0.2043	0.2016		0.19	14	S			
49	TM	Carbon Tetrachloride	0.1590	0.1814	0.1869	0.1931	0.1789	0.1868	0.1893	0.1879	0.1779		0.18	5.5	TM			
50	TM	Tert Amyl Methyl Ether	0.2769	0.2760	0.2624	0.2651	0.2649	0.2810	0.2893	0.2990	0.3068		0.28	5.6	TM			
51	TML	Methylcyclopentane	0.1230	0.2071	0.2150	0.2271	0.2307	0.2535	0.2565	0.2624	0.2481		0.22	19	TM	0.999		
52	TM	1,2-DCA	0.1468	0.1465	0.1419	0.1438	0.1393	0.1373	0.1312	0.1271	0.1214		0.14	6.5	TM			
53	TM	Benzene	0.6459	0.6323	0.6321	0.5969	0.5735	0.5824	0.5744	0.5648	0.5344		0.59	6.2	TM			
54	TM	TCE	0.1754	0.1878	0.1834	0.1886	0.1734	0.1847	0.1861	0.1866	0.1764		0.18	3.2	TM			
55	TM	2-Pentanone	0.0354	0.0361	0.0382	0.0392	0.0431	0.0455	0.0493	0.0511	0.0527		0.04	15	TM			
56	TM*	1,2-Dichloropropane	0.1174	0.1250	0.1349	0.1349	0.1300	0.1364	0.1333	0.1311	0.1249		0.13	4.8	TM*			
57	TM	Bromodichloromethane	0.1452	0.1526	0.1540	0.1490	0.1558	0.1630	0.1634	0.1674	0.1641		0.16	4.9	TM			
58	TM	Methyl Cyclohexane	0.2560	0.2546	0.2567	0.2794	0.2132	0.2458	0.2582	0.2608	0.2539		0.25	6.9	TM			
59	TML	Dibromomethane	0.0949	0.0946	0.1051	0.1005	0.0974	0.0983	0.0975	0.0963	0.0936		0.10	3.6	TM	1.000		
60	TML	MIBK (methyl isobutyl ketone)	0.0387	0.0539	0.0569	0.0573	0.0605	0.0643	0.0679	0.0680	0.0704		0.06	16	TM	0.998		
61	TML	1-Bromo-2-chloroethane	0.0045	0.0070	0.0128	0.0196	0.0215	0.0228	0.0229	0.0230	0.0228		0.02	42	TM	1.00		
62	TML	2-Chloroethyl vinyl ether	0.0278	0.0311	0.0300	0.0310	0.0332	0.0347	0.0375	0.0373	0.0391		0.03	12	TM	0.996		
63	TM	Cis-1,3-Dichloropropene	0.1967	0.2037	0.1917	0.1896	0.1960	0.2107	0.2166	0.2223	0.2186		0.21	6.0	TM			
64	TM*	Toluene	0.8560	0.7819	0.7677	0.7522	0.6946	0.6968	0.6814	0.6650	0.6261		0.72	9.8	TM*			
65	TM	Trans-1,3-Dichloropropene	0.1656	0.1575	0.1595	0.1542	0.1618	0.1758	0.1814	0.1885	0.1882		0.17	7.9	TM			
66	TM	1,1,2-TCA	0.1223	0.1203	0.1120	0.1079	0.1134	0.1165	0.1190	0.1198	0.1176		0.12	4.0	TM			
67	TML	2-Hexanone	0.0183	0.0240	0.0255	0.0256	0.0272	0.0291	0.0302	0.0305	0.0310		0.03	15	TM	0.998		
68	I	Chlorobenzene-D5 (IS)																
69	SL	Toluene-D8(S)	0.7983	0.8206	1.050	1.051	1.217	1.212	1.270	1.261	1.258		1.1	17	S	1.000		
70	TML	1,2-EDB	0.0931	0.1050	0.1115	0.1082	0.1150	0.1236	0.1296	0.1352	0.1354		0.12	12	TM	1.000		

VOLATILE ORGANIC ANALYSIS  
VOLATILE ORGANIC COMPOUNDS

Form 6  
Initial Calibration

Lab Name: APPL, Inc.  
Case No: \_\_\_\_\_  
Matrix: WATER

SDG No: \_\_\_\_\_  
Initial Cal. Date: 12/6/2021  
Instrument: Zeus

Initials: MH

		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type		Q	MRF
71	TML	Tetrachloroethene	0.2532	0.2372	0.2432	0.2351	0.2205	0.2294	0.2307	0.2328	0.2240		0.23	4.2	TM	1.000		
72	TML	1-Chlorohexane	0.2724	0.2747	0.2670	0.2721	0.2577	0.2660	0.2695	0.2733	0.2591		0.27	2.3	TM	1.000		
73	TML	1,1,1,2-Tetrachloroethane	0.1181	0.1250	0.1405	0.1332	0.1481	0.1553	0.1666	0.1752	0.1791		0.15	15	TM	1.000		
74	TM	m&p-Xylene	0.7394	0.7266	0.6954	0.7124	0.6839	0.7016	0.7029	0.6981	0.6579		0.70	3.4	TM			
75	TM	o-Xylene	0.7949	0.7438	0.6994	0.7089	0.6891	0.6983	0.7040	0.7028	0.6727		0.71	5.1	TM			
76	TML	Styrene	0.4855	0.4578	0.4472	0.4724	0.4742	0.5033	0.5290	0.5527	0.5500		0.50	7.9	TM	1.000		
77	SL	4-Bromofluorobenzene(S)	0.3265	0.3292	0.4231	0.4275	0.4960	0.4958	0.5208	0.5195	0.5192		0.45	18	S	1.000		
78	TM	1,3-Dichloropropane	0.2062	0.2006	0.2026	0.2032	0.2160	0.2250	0.2336	0.2380	0.2328		0.22	6.9	TM			
79	TML	Dibromochloromethane	0.0886	0.0951	0.1089	0.1132	0.1207	0.1290	0.1403	0.1502	0.1553		0.12	19	TM	1.000		
80	TM**	Chlorobenzene	0.5873	0.6025	0.5800	0.5568	0.5358	0.5470	0.5444	0.5382	0.5169		0.56	5.0	TM**			
81	TM*	Ethylbenzene	1.479	1.453	1.391	1.425	1.368	1.403	1.409	1.399	1.317		1.4	3.3	TM*			
82	TM**L	Bromoform	0.0307	0.0530	0.0558	0.0618	0.0701	0.0758	0.0852	0.0917	0.1012		0.07	31	TM**	0.998		
83	I	1,4-Dichlorobenzene-D (IS)																
84	TM	Isopropylbenzene	2.718	2.728	2.688	2.657	2.544	2.742	2.815	2.913	2.837		2.7	4.0	TM			
85	TM**L	1,1,2,2-Tetrachloroethane	0.3062	0.3598	0.3533	0.3396	0.3710	0.4066	0.4216	0.4471	0.4591		0.38	13	TM**	1.000		
86	TML	1,2,3-Trichloropropane	0.0160	0.1061	0.1371	0.1254	0.1377	0.1427	0.1487	0.1523	0.1555		0.12	35	TM	1.000		
87	TML	t-1,4-Dichloro-2-Butene	0.0293	0.0394	0.0553	0.0705	0.0931	0.1010	0.1047	0.1097	0.1118		0.08	40	TM	1.000		
88	TML	Bromobenzene	1.034	0.9811	0.9267	0.8756	0.8808	0.9181	0.9032	0.9287	0.9124		0.93	5.4	TM	1.000		
89	TM	n-Propylbenzene	3.326	3.350	3.312	3.122	3.039	3.187	3.272	3.355	3.284		3.2	3.4	TM			
90	TM	4-Ethyltoluene	2.911	2.782	2.687	2.693	2.627	2.770	2.802	2.851	2.784		2.8	3.2	TM			
91	TML	2-Chlorotoluene	2.224	2.257	2.151	2.057	2.074	2.114	2.134	2.157	2.093		2.1	3.1	TM	1.000		
92	TM	1,3,5-Trimethylbenzene	2.134	2.216	2.174	2.126	2.153	2.262	2.326	2.388	2.328		2.2	4.3	TM			
93	TM	4-Chlorotoluene	2.224	2.257	2.151	2.057	2.074	2.114	2.134	2.157	2.093		2.1	3.1	TM			
94	TM	Tert-Butylbenzene	2.123	2.199	2.134	2.062	2.011	2.086	2.176	2.219	2.185		2.1	3.3	TM			
95	TM	1,2,4-Trimethylbenzene	1.995	1.967	1.991	2.046	2.004	2.165	2.264	2.336	2.323		2.1	7.2	TM			
96	TM	Sec-Butylbenzene	2.962	3.061	2.993	2.882	2.838	3.045	3.133	3.195	3.131		3.0	3.9	TM			
97	TM	p-Isopropyltoluene	2.123	2.199	2.134	2.062	2.011	2.086	2.176	2.219	2.185		2.1	3.3	TM			
98	TML	Benzyl Chloride	0.8056	0.7997	0.7983	0.7474	0.8090	0.8571	0.9194	1.001	1.066		0.87	12	TM	0.999		
99	TM	1,3-DCB	1.406	1.374	1.434	1.307	1.284	1.322	1.322	1.345	1.321		1.3	3.6	TM			
100	TM	1,4-DCB	1.574	1.480	1.434	1.348	1.313	1.318	1.323	1.340	1.312		1.4	6.7	TM			
101	TM	n-Butylbenzene	2.024	1.999	2.027	2.018	2.008	2.250	2.355	2.425	2.410		2.2	8.7	TM			
102	TM	1,2-DCB	1.249	1.237	1.276	1.172	1.172	1.201	1.200	1.224	1.196		1.2	2.9	TM			
103	TML	Hexachloroethane	0.1374	0.2456	0.2819	0.2805	0.2946	0.3260	0.3600	0.4015	0.4485		0.31	29	TM	0.997		
104	TML	1,2-Dibromo-3-chloropropane		0.0116	0.0553	0.0646	0.0712	0.0769	0.0854	0.0937	0.1002		0.07	40	TM	0.999		
105	TM	1,2,4-Trichlorobenzene	0.9423	0.9490	0.9214	0.9117	0.8905	0.9475	0.9639	0.9967	1.013		0.95	4.1	TM			

VOLATILE ORGANIC ANALYSIS  
VOLATILE ORGANIC COMPOUNDS

Form 6  
Initial Calibration

Lab Name: APPL, Inc.  
Case No: \_\_\_\_\_  
Matrix: WATER

SDG No: \_\_\_\_\_  
Initial Cal. Date: 12/6/2021  
Instrument: Zeus

Initials: MH

	Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	Q	MRF
106	TML Hexachlorobutadiene	0.4241	0.4287	0.4391	0.4284	0.4026	0.4460	0.4647	0.4752	0.4782		0.44	5.7	TM	1.000	
107	TM Naphthalene	1.578	1.498	1.401	1.371	1.427	1.556	1.665	1.773	1.838		1.6	10	TM		
108	TML 1,2,3-Trichlorobenzene	0.7317	0.7154	0.6862	0.6621	0.6696	0.7144	0.7279	0.7510	0.7632		0.71	4.9	TM	1.000	
109																
110																
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140																

Data File : M:\ZEUS\DATA\211206\1206Z17.D  
 Acq On : 06 Dec 21 15:48  
 Sample : 0.3ug/L VOC STD 12/6/21  
 Misc :

Vial: 2  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 9:23 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:23:27 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	6.09	96	367811	25.000	ppb	0.00
68) Chlorobenzene-D5 (IS)	9.58	117	347235	25.000	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	119472	25.000	ppb	0.00

System Monitoring Compounds

43) Dibromofluoromethane (S)	5.23	111	12538	4.138	ppb	0.00
Spiked Amount	25.000		Recovery	=	16.552%	
48) 1,2-DCA-D4 (S)	5.65	65	10399	3.781	ppb	0.00
Spiked Amount	25.000		Recovery	=	15.124%	
69) Toluene-D8 (S)	7.98	98	55440	4.688	ppb	0.00
Spiked Amount	25.000		Recovery	=	18.752%	
77) 4-Bromofluorobenzene (S)	10.88	95	22674	4.824	ppb	0.00
Spiked Amount	25.000		Recovery	=	19.296%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	1.00	85	724	0.348	ppb	97
4) Freon 114	1.09	85	735	-0.181	ppb	87
5) Chloromethane	1.13	50	749	-0.608	ppb	95
6) Vinyl chloride	1.21	62	626	0.352	ppb	90
9) Bromomethane	1.45	94	690	-1.007	ppb #	71
10) Chloroethane	1.54	66	189	182.340	ppb #	42
11) Dichlorofluoromethane	1.71	67	1290	-1.714	ppb #	84
12) Trichlorofluoromethane	1.74	101	980	0.309	ppb	86
15) 1,2 Dichlorotrifluoroethan	2.04	67	547	-1.992	ppb #	98
16) Acrolein	2.13	55	908	9.425	ppb #	68
17) Acetone	2.29	43	1284	4.743	ppb #	73
18) Freon-113	2.22	101	354	0.368	ppb #	86
19) 1,1-DCE	2.20	61	795	0.326	ppb	89
21) Acetonitrile	2.56	40	966	11.087	ppb #	8
22) t-Butanol	2.94	59	383	10.844	ppb #	57
23) Methyl Acetate	2.64	43	258	0.317	ppb #	40
24) Iodomethane	2.33	142	494	-0.408	ppb #	82
26) Methylene chloride	2.72	49	707	-0.764	ppb	93
27) Carbon disulfide	2.39	76	1430	-0.695	ppb #	93
28) Methyl t-butyl ether (MtBE)	3.08	73	1174	0.318	ppb #	47
29) Trans-1,2-DCE	3.04	61	851	0.349	ppb	96
31) Diisopropyl Ether	3.79	45	886	0.265	ppb	98
32) 2,2-Dichloro-1,1,1-trifluo	1.71	83	48	-1.219	ppb #	21
33) 1,1-DCA	3.61	63	1024	0.323	ppb #	83
34) Vinyl Acetate	3.78	43	836	0.315	ppb #	74
35) Ethyl tert Butyl Ether	4.37	59	950	0.259	ppb	95
36) MEK (2-Butanone)	4.62	72	268	8.182	ppb #	49

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z17.D  
 Acq On : 06 Dec 21 15:48  
 Sample : 0.3ug/L VOC STD 12/6/21  
 Misc :

Vial: 2  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 9:23 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:23:27 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) Cis-1,2-DCE	4.52	61	945	0.340	ppb	85
38) 2,2-Dichloropropane	4.50	77	876	0.305	ppb #	52
40) 3-Methylpentane	3.03	57	466	0.186	ppb #	76
41) Chloroform	5.01	83	1106	0.315	ppb	91
42) Bromochloromethane	4.86	49	299	0.268	ppb #	83
44) 1,1,1-TCA	5.20	97	867	0.277	ppb #	75
45) Cyclohexane	5.25	56	987	0.346	ppb #	76
46) 1,1-Dichloropropene	5.43	75	789	0.304	ppb #	51
47) 2,2,4-Trimethylpentane	5.85	57	1920	0.325	ppb	93
49) Carbon Tetrachloride	5.42	117	702	0.262	ppb	88
50) Tert Amyl Methyl Ether	5.92	73	1222	0.296	ppb	98
52) 1,2-DCA	5.75	62	648	0.321	ppb #	64
53) Benzene	5.70	78	2851	0.327	ppb	95
54) TCE	6.54	130	774	0.288	ppb #	85
55) 2-Pentanone	6.84	43	5210	8.158	ppb	99
56) 1,2-Dichloropropane	6.81	63	518	0.271	ppb #	81
57) Bromodichloromethane	7.17	83	641	0.277	ppb	100
58) Methyl Cyclohexane	6.74	83	1130	0.303	ppb	99
60) MIBK (methyl isobutyl ket	7.91	43	2850	6.840	ppb #	93
61) 1-Bromo-2-chloroethane	7.50	144	20	0.258	ppb #	13
62) 2-Chloroethyl vinyl ether	7.57	43	2048	7.730	ppb	89
63) Cis-1,3-Dichloropropene	7.70	75	868	0.288	ppb #	89
64) Toluene	8.05	91	3778	0.354	ppb	98
65) Trans-1,3-Dichloropropene	8.35	75	731	0.292	ppb #	85
66) 1,1,2-TCA	8.55	97	540	0.315	ppb #	82
67) 2-Hexanone	8.86	58	1345	6.710	ppb #	91
70) 1,2-EDB	9.07	107	388	0.648	ppb #	70
71) Tetrachloroethene	8.66	166	1055	0.112	ppb #	79
73) 1,1,1,2-Tetrachloroethane	9.72	131	492	0.861	ppb	92
74) m&p-Xylene	9.88	91	6162	0.632	ppb	94
75) o-Xylene	10.31	91	3312	0.335	ppb	91
76) Styrene	10.33	104	2023	0.639	ppb	99
78) 1,3-Dichloropropane	8.72	76	859	0.284	ppb #	83
79) Dibromochloromethane	8.95	129	369	1.036	ppb	86
80) Chlorobenzene	9.62	112	2447	0.317	ppb	94
81) Ethylbenzene	9.88	91	6162	0.316	ppb	94
82) Bromoform	10.52	173	128	1.500	ppb	88
84) Isopropylbenzene	10.73	105	3896	0.298	ppb	94
85) 1,1,2,2-Tetrachloroethane	11.07	83	439	0.887	ppb #	73
86) 1,2,3-Trichloropropane	11.10	110	23	0.516	ppb #	47
87) t-1,4-Dichloro-2-Butene	11.14	53	42	0.789	ppb #	9
88) Bromobenzene	11.03	77	1483	0.330	ppb #	75

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z17.D  
 Acq On : 06 Dec 21 15:48  
 Sample : 0.3ug/L VOC STD 12/6/21  
 Misc :

Vial: 2  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 9:23 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:23:27 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
89) n-Propylbenzene	11.18	91	4769	0.307	ppb	96
90) 4-Ethyltoluene	11.30	105	4173	0.316	ppb	99
91) 2-Chlorotoluene	11.37	91	3189	0.181	ppb	98
92) 1,3,5-Trimethylbenzene	11.37	105	3059	0.287	ppb	94
93) 4-Chlorotoluene	11.37	91	3189	0.312	ppb	98
94) Tert-Butylbenzene	11.73	119	3043	0.299	ppb	93
95) 1,2,4-Trimethylbenzene	11.77	105	2860	0.282	ppb	97
96) Sec-Butylbenzene	11.96	105	4247	0.294	ppb	97
97) p-Isopropyltoluene	11.73	119	3043	0.299	ppb #	88
98) Benzyl Chloride	12.33	91	1155	1.286	ppb #	64
99) 1,3-DCB	12.07	146	2016	0.313	ppb	92
100) 1,4-DCB	12.17	146	2257	0.342	ppb #	90
101) n-Butylbenzene	12.57	91	2902	0.280	ppb	97
102) 1,2-DCB	12.57	146	1790	0.309	ppb #	79
103) Hexachloroethane	12.85	201	197	1.656	ppb #	57
105) 1,2,4-Trichlorobenzene	13.64	180	1351	0.298	ppb	82
106) Hexachlorobutadiene	14.52	225	608	0.606	ppb #	88
107) Naphthalene	14.60	128	2263	0.302	ppb #	69
108) 1,2,3-Trichlorobenzene	14.86	180	1049	0.668	ppb #	79



Quantitation Report

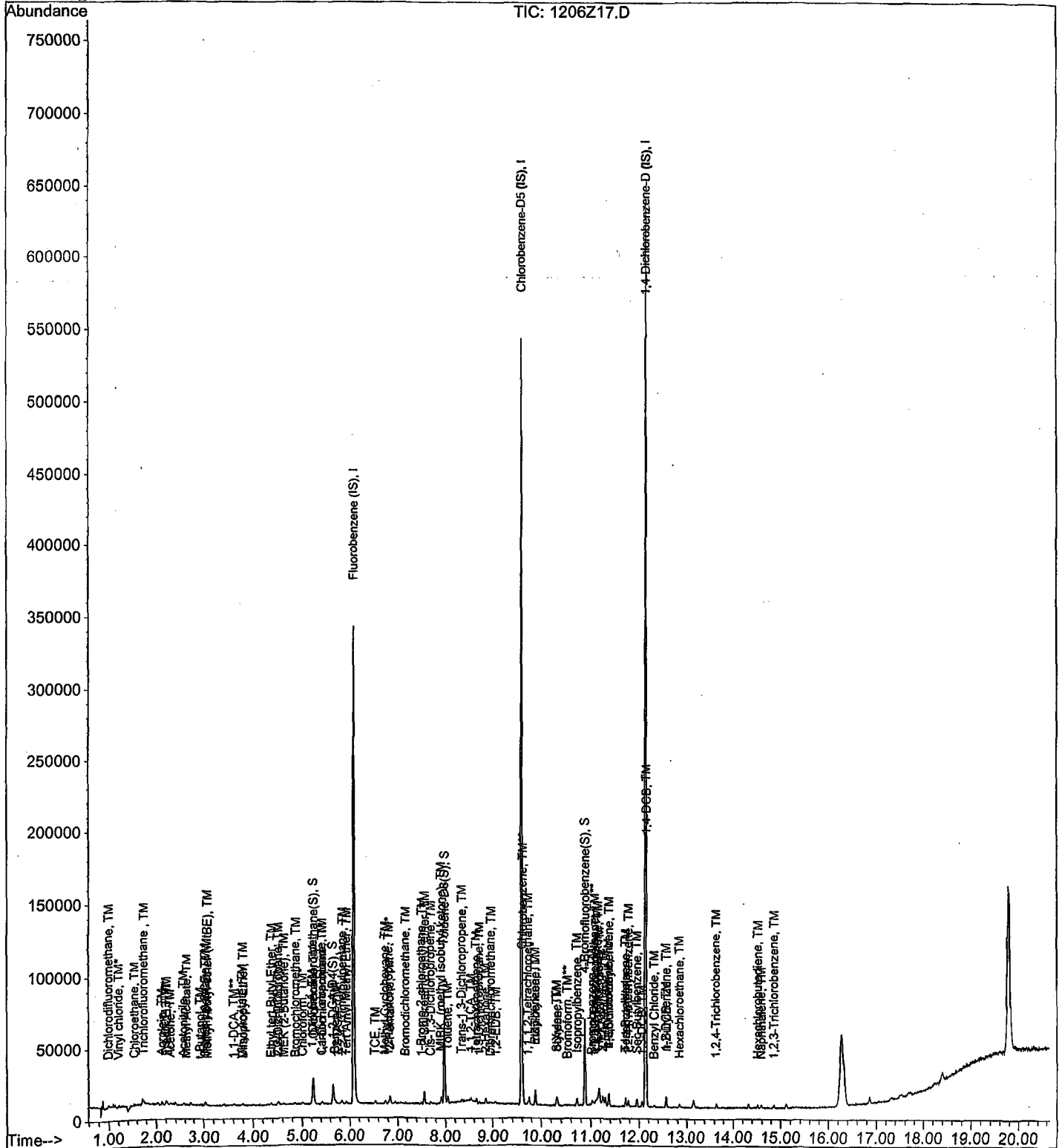
Data File : M:\ZEUS\DATA\211206\1206Z17.D  
Acq On : 06 Dec 21 15:48  
Sample : 0.3ug/L VOC STD 12/6/21  
Misc :

Vial: 2  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 7 9:23 2021

Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 09:28:24 2021  
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z18.D Vial: 3  
 Acq On : 06 Dec 21 16:12 Operator: MH  
 Sample : 0.5ug/L VOC STD 12/6/21 Inst : Zeus  
 Misc : Multiplr: 1.00

Quant Time: Dec 7 9:23 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:23:27 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	6.09	96	366661	25.000	ppb	0.00
68) Chlorobenzene-D5 (IS)	9.58	117	344388	25.000	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	116856	25.000	ppb	0.00
<b>System Monitoring Compounds</b>						
43) Dibromofluoromethane(S)	5.23	111	12671	4.187	ppb	0.00
Spiked Amount	25.000		Recovery	=	16.748%	
48) 1,2-DCA-D4(S)	5.66	65	10832	3.951	ppb	0.00
Spiked Amount	25.000		Recovery	=	15.804%	
69) Toluene-D8(S)	7.98	98	56522	4.774	ppb	0.00
Spiked Amount	25.000		Recovery	=	19.096%	
77) 4-Bromofluorobenzene(S)	10.89	95	22676	4.849	ppb	0.00
Spiked Amount	25.000		Recovery	=	19.396%	
<b>Target Compounds</b>						
3) Dichlorodifluoromethane	1.00	85	1108	0.534	ppb	96
5) Chloromethane	1.13	50	1029	-0.388	ppb	94
6) Vinyl chloride	1.21	62	976	0.550	ppb	# 68
9) Bromomethane	1.45	94	956	-0.333	ppb	80
10) Chloroethane	1.54	66	254	182.049	ppb	# 64
11) Dichlorofluoromethane	1.71	67	2390	-1.301	ppb	# 86
12) Trichlorofluoromethane	1.74	101	1722	0.545	ppb	91
15) 1,2 Dichlorotrifluoroethan	2.03	67	1260	-1.724	ppb	# 82
16) Acrolein	2.13	55	2435	25.354	ppb	92
17) Acetone	2.28	43	3086	11.435	ppb	87
18) Freon-113	2.22	101	547	0.571	ppb	87
19) 1,1-DCE	2.20	61	1334	0.549	ppb	# 90
21) Acetonitrile	2.58	40	1500	23.662	ppb	# 52
22) t-Butanol	2.93	59	849	24.114	ppb	95
23) Methyl Acetate	2.64	43	400	0.530	ppb	# 40
24) Iodomethane	2.33	142	807	-0.140	ppb	# 75
25) Acrylonitrile	3.04	52	66	-0.530	ppb	# 48
26) Methylene chloride	2.72	49	1152	-0.465	ppb	91
27) Carbon disulfide	2.39	76	2122	-0.410	ppb	96
28) Methyl t-butyl ether (MtBE)	3.08	73	1603	0.436	ppb	# 82
29) Trans-1,2-DCE	3.05	61	1356	0.558	ppb	# 79
30) Hexane	4.31	56	1519	0.298	ppb	# 73
31) Diisopropyl Ether	3.80	45	1582	0.475	ppb	91
32) 2,2-Dichloro-1,1,1-trifluo	1.71	83	61	-1.135	ppb	# 21
33) 1,1-DCA	3.62	63	1731	0.548	ppb	# 83
34) Vinyl Acetate	3.78	43	1420	0.537	ppb	# 74
35) Ethyl tert Butyl Ether	4.37	59	1718	0.469	ppb	95

(#) = qualifier out of range (m) = manual integration  
 1206Z18.D Z120621W.M Tue Dec 07 09:34:31 2021

Data File : M:\ZEUS\DATA\211206\1206Z18.D  
 Acq On : 06 Dec 21 16:12  
 Sample : 0.5ug/L VOC STD 12/6/21  
 Misc :

Vial: 3  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 9:23 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:23:27 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) MEK (2-Butanone)	4.61	72	1022	12.891	ppb	95
37) Cis-1,2-DCE	4.52	61	1487	0.536	ppb #	80
38) 2,2-Dichloropropane	4.50	77	1554	0.544	ppb #	36
39) 2-Methylpentane	2.74	42	647	0.344	ppb #	71
40) 3-Methylpentane	3.04	57	1343	0.436	ppb #	86
41) Chloroform	5.01	83	1920	0.548	ppb	93
42) Bromochloromethane	4.86	49	595	0.535	ppb #	81
44) 1,1,1-TCA	5.21	97	1591	0.511	ppb	98
45) Cyclohexane	5.25	56	1691	0.588	ppb #	83
46) 1,1-Dichloropropene	5.43	75	1297	0.502	ppb	99
47) 2,2,4-Trimethylpentane	5.83	57	3211	0.545	ppb	95
49) Carbon Tetrachloride	5.42	117	1330	0.497	ppb	82
50) Tert Amyl Methyl Ether	5.93	73	2024	0.493	ppb #	89
51) Methylcyclopentane	4.31	56	1519	0.298	ppb #	84
52) 1,2-DCA	5.76	62	1074	0.533	ppb #	64
53) Benzene	5.70	78	4637	0.533	ppb	100
54) TCE	6.54	130	1377	0.514	ppb #	82
55) 2-Pentanone	6.84	43	13234	20.787	ppb	93
56) 1,2-Dichloropropane	6.82	63	917	0.482	ppb #	81
57) Bromodichloromethane	7.16	83	1119	0.485	ppb	92
58) Methyl Cyclohexane	6.75	83	1867	0.503	ppb	86
59) Dibromomethane	6.95	174	694	0.195	ppb	95
60) MIBK (methyl isobutyl ket	7.92	43	7912	11.637	ppb	96
61) 1-Bromo-2-chloroethane	7.51	144	51	0.351	ppb #	13
62) 2-Chloroethyl vinyl ether	7.57	43	4556	12.044	ppb	90
63) Cis-1,3-Dichloropropene	7.70	75	1494	0.497	ppb	94
64) Toluene	8.05	91	5734	0.540	ppb	96
65) Trans-1,3-Dichloropropene	8.34	75	1155	0.463	ppb	96
66) 1,1,2-TCA	8.54	97	882	0.516	ppb #	70
67) 2-Hexanone	8.86	58	3517	11.360	ppb	93
70) 1,2-EDB	9.07	107	723	0.829	ppb #	87
71) Tetrachloroethene	8.66	166	1634	0.302	ppb	97
72) 1-Chlorohexane	9.62	91	1892	0.240	ppb #	85
73) 1,1,1,2-Tetrachloroethane	9.72	131	861	1.012	ppb #	80
74) m&p-Xylene	9.89	91	10009	1.035	ppb	97
75) o-Xylene	10.31	91	5123	0.522	ppb	86
76) Styrene	10.33	104	3153	0.790	ppb	98
78) 1,3-Dichloropropane	8.71	76	1382	0.461	ppb	90
79) Dibromochloromethane	8.96	129	655	1.170	ppb #	81
80) Chlorobenzene	9.62	112	4150	0.541	ppb	99
81) Ethylbenzene	9.89	91	10009	0.517	ppb	97
82) Bromoform	10.52	173	365	1.671	ppb	97

Data File : M:\ZEUS\DATA\211206\1206Z18.D  
 Acq On : 06 Dec 21 16:12  
 Sample : 0.5ug/L VOC STD 12/6/21  
 Misc :

Vial: 3  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 9:23 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:23:27 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
84) Isopropylbenzene	10.73	105	6375	0.498	ppb	95
85) 1,1,2,2-Tetrachloroethane	11.07	83	841	1.078	ppb #	92
86) 1,2,3-Trichloropropane	11.10	110	248	0.826	ppb	96
87) t-1,4-Dichloro-2-Butene	11.13	53	92	0.886	ppb	92
88) Bromobenzene	11.03	77	2293	0.527	ppb	89
89) n-Propylbenzene	11.18	91	7830	0.515	ppb	99
90) 4-Ethyltoluene	11.30	105	6502	0.503	ppb	93
91) 2-Chlorotoluene	11.37	91	5274	0.401	ppb	92
92) 1,3,5-Trimethylbenzene	11.37	105	5180	0.496	ppb	94
93) 4-Chlorotoluene	11.37	91	5274	0.527	ppb	92
94) Tert-Butylbenzene	11.72	119	5139	0.516	ppb	98
95) 1,2,4-Trimethylbenzene	11.78	105	4597	0.464	ppb	91
96) Sec-Butylbenzene	11.96	105	7155	0.506	ppb	92
97) p-Isopropyltoluene	11.72	119	5139	0.516	ppb	96
98) Benzyl Chloride	12.32	91	1869	1.435	ppb #	86
99) 1,3-DCB	12.07	146	3211	0.510	ppb	94
100) 1,4-DCB	12.17	146	3460	0.535	ppb #	88
101) n-Butylbenzene	12.57	91	4671	0.461	ppb	98
102) 1,2-DCB	12.57	146	2892	0.510	ppb	92
103) Hexachloroethane	12.85	201	574	1.838	ppb #	93
104) 1,2-Dibromo-3-chloropropan	13.42	157	27	1.548	ppb #	8
105) 1,2,4-Trichlorobenzene	13.65	180	2218	0.500	ppb	92
106) Hexachlorobutadiene	14.53	225	1002	0.788	ppb	93
107) Naphthalene	14.60	128	3502	0.478	ppb	95
108) 1,2,3-Trichlorobenzene	14.86	180	1672	0.849	ppb	88

Quantitation Report

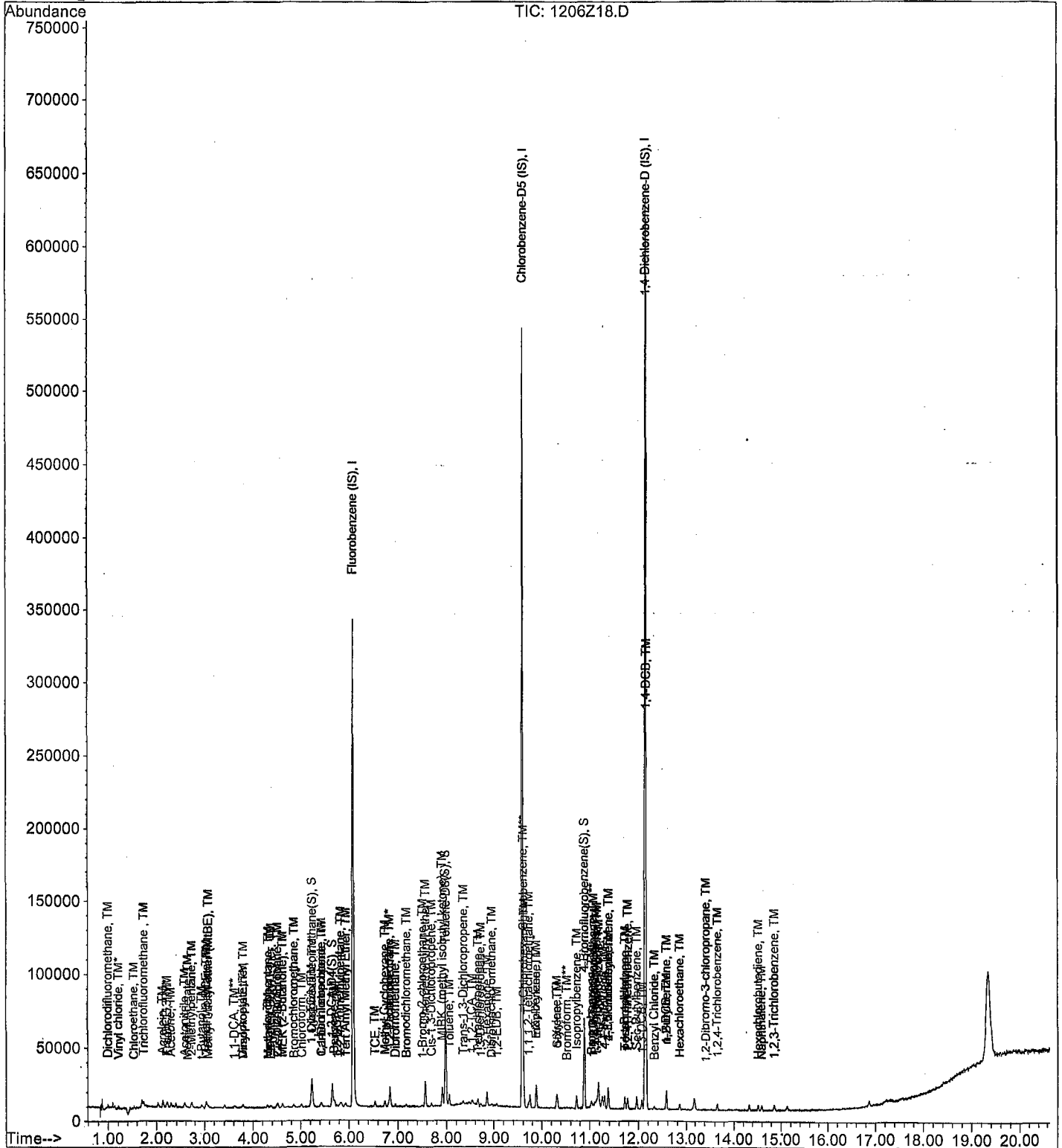
Data File : M:\ZEUS\DATA\211206\1206Z18.D  
Acq On : 06 Dec 21 16:12  
Sample : 0.5ug/L VOC STD 12/6/21  
Misc :

Vial: 3  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 7 9:23 2021

Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 09:28:24 2021  
Response via : Initial Calibration



Data File : M:\ZEUS\DATA\211206\1206Z19.D  
 Acq On : 06 Dec 21 16:36  
 Sample : 1ug/L VOC STD 12/6/21  
 Misc :

Vial: 4  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 9:23 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:23:27 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	6.09	96	371997	25.000	ppb	0.00
68) Chlorobenzene-D5 (IS)	9.58	117	345148	25.000	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	117056	25.000	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane (S)	5.23	111	33149	9.823	ppb	0.00
Spiked Amount	25.000		Recovery	=	39.292%	
48) 1,2-DCA-D4 (S)	5.66	65	27522	9.894	ppb	0.00
Spiked Amount	25.000		Recovery	=	39.576%	
69) Toluene-D8 (S)	7.98	98	145028	9.746	ppb	0.00
Spiked Amount	25.000		Recovery	=	38.984%	
77) 4-Bromofluorobenzene (S)	10.89	95	58408	9.709	ppb	0.00
Spiked Amount	25.000		Recovery	=	38.836%	
Target Compounds						
3) Dichlorodifluoromethane	1.00	85	2242	1.065	ppb	95
4) Freon 114	1.09	85	1989	0.712	ppb	95
5) Chloromethane	1.13	50	2057	0.392	ppb	98
6) Vinyl chloride	1.20	62	1973	1.096	ppb	92
9) Bromomethane	1.45	94	1367	0.650	ppb	89
10) Chloroethane	1.53	66	393	181.454	ppb	# 43
11) Dichlorofluoromethane	1.71	67	4149	-0.664	ppb	90
12) Trichlorofluoromethane	1.74	101	3377	1.054	ppb	90
14) Diethyl ether	2.65	74	174	1.349	ppb	# 48
15) 1,2 Dichlorotrifluoroethan	2.03	67	2319	-1.340	ppb	95
16) Acrolein	2.13	55	5018	51.499	ppb	94
17) Acetone	2.29	43	5704	20.832	ppb	95
18) Freon-113	2.22	101	1084	1.115	ppb	85
19) 1,1-DCE	2.20	61	2735	1.110	ppb	92
21) Acetonitrile	2.57	40	2505	49.326	ppb	# 57
22) t-Butanol	2.95	59	1744	48.824	ppb	# 87
23) Methyl Acetate	2.64	43	753	1.042	ppb	93
24) Iodomethane	2.34	142	1383	0.333	ppb	# 87
25) Acrylonitrile	3.04	52	297	0.146	ppb	# 70
26) Methylene chloride	2.72	49	2263	0.255	ppb	98
27) Carbon disulfide	2.39	76	4024	0.345	ppb	100
28) Methyl t-butyl ether (MtBE)	3.08	73	3486	0.934	ppb	97
29) Trans-1,2-DCE	3.04	61	2713	1.100	ppb	91
30) Hexane	4.30	56	3199	0.744	ppb	# 94
31) Diisopropyl Ether	3.79	45	3394	1.004	ppb	95
32) 2,2-Dichloro-1,1,1-trifluo	1.71	83	188	-0.338	ppb	# 84
33) 1,1-DCA	3.61	63	3457	1.079	ppb	93

(#) = qualifier out of range (m) = manual integration  
 1206Z19.D Z120621W.M Tue Dec 07 09:34:33 2021

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z19.D  
 Acq On : 06 Dec 21 16:36  
 Sample : 1ug/L VOC STD 12/6/21  
 Misc :

Vial: 4  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 9:23 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:23:27 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
34) Vinyl Acetate	3.77	43	2634	0.982	ppb	# 74
35) Ethyl tert Butyl Ether	4.37	59	3442	0.927	ppb	88
36) MEK (2-Butanone)	4.62	72	2197	20.026	ppb	89
37) Cis-1,2-DCE	4.53	61	3013	1.070	ppb	# 81
38) 2,2-Dichloropropane	4.49	77	3086	1.064	ppb	100
39) 2-Methylpentane	2.74	42	1211	0.759	ppb	# 76
40) 3-Methylpentane	3.03	57	2929	0.874	ppb	91
41) Chloroform	5.01	83	3676	1.035	ppb	90
42) Bromochloromethane	4.85	49	1222	1.084	ppb	92
44) 1,1,1-TCA	5.20	97	3295	1.043	ppb	95
45) Cyclohexane	5.25	56	3124	1.065	ppb	87
46) 1,1-Dichloropropene	5.44	75	2725	1.039	ppb	98
47) 2,2,4-Trimethylpentane	5.84	57	5961	0.998	ppb	99
49) Carbon Tetrachloride	5.42	117	2781	1.025	ppb	97
50) Tert Amyl Methyl Ether	5.93	73	3904	0.936	ppb	99
51) Methylcyclopentane	4.30	56	3199	0.744	ppb	93
52) 1,2-DCA	5.76	62	2112	1.034	ppb	# 87
53) Benzene	5.70	78	9406	1.066	ppb	99
54) TCE	6.54	130	2729	1.005	ppb	95
55) 2-Pentanone	6.84	43	28448	44.043	ppb	96
56) 1,2-Dichloropropane	6.82	63	2007	1.039	ppb	# 81
57) Bromodichloromethane	7.17	83	2291	0.980	ppb	98
58) Methyl Cyclohexane	6.74	83	3820	1.014	ppb	98
59) Dibromomethane	6.95	174	1564	0.812	ppb	97
60) MIBK (methyl isobutyl ket	7.91	43	16936	19.943	ppb	97
61) 1-Bromo-2-chloroethane	7.50	144	191	0.760	ppb	# 78
62) 2-Chloroethyl vinyl ether	7.57	43	8930	19.329	ppb	95
63) Cis-1,3-Dichloropropene	7.69	75	2853	0.935	ppb	95
64) Toluene	8.05	91	11423	1.059	ppb	98
65) Trans-1,3-Dichloropropene	8.35	75	2374	0.937	ppb	95
66) 1,1,2-TCA	8.54	97	1667	0.961	ppb	93
67) 2-Hexanone	8.85	58	7583	19.815	ppb	91
70) 1,2-EDB	9.07	107	1539	1.263	ppb	# 81
71) Tetrachloroethene	8.66	166	3357	0.856	ppb	87
72) 1-Chlorohexane	9.63	91	3686	0.738	ppb	94
73) 1,1,1,2-Tetrachloroethane	9.72	131	1940	1.446	ppb	95
74) m&p-Xylene	9.88	91	19201	1.981	ppb	96
75) o-Xylene	10.32	91	9656	0.981	ppb	95
76) Styrene	10.33	104	6174	1.185	ppb	91
78) 1,3-Dichloropropane	8.72	76	2797	0.931	ppb	100
79) Dibromochloromethane	8.96	129	1504	1.564	ppb	90
80) Chlorobenzene	9.62	112	8008	1.042	ppb	96

(#) = qualifier out of range (m) = manual integration  
 1206Z19.D Z120621W.M Tue Dec 07 09:34:34 2021

Data File : M:\ZEUS\DATA\211206\1206Z19.D  
 Acq On : 06 Dec 21 16:36  
 Sample : 1ug/L VOC STD 12/6/21  
 Misc :

Vial: 4  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 9:23 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:23:27 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
81) Ethylbenzene	9.88	91	19201	0.990	ppb	96
82) Bromoform	10.53	173	771	1.961	ppb	98
84) Isopropylbenzene	10.73	105	12586	0.982	ppb	95
85) 1,1,2,2-Tetrachloroethane	11.07	83	1654	1.454	ppb	88
86) 1,2,3-Trichloropropane	11.11	110	642	1.365	ppb	94
87) t-1,4-Dichloro-2-Butene	11.13	53	259	1.204	ppb	89
88) Bromobenzene	11.03	77	4339	1.004	ppb	96
89) n-Propylbenzene	11.18	91	15507	1.019	ppb	98
90) 4-Ethyltoluene	11.30	105	12581	0.971	ppb	97
91) 2-Chlorotoluene	11.37	91	10071	0.888	ppb	95
92) 1,3,5-Trimethylbenzene	11.37	105	10178	0.973	ppb	98
93) 4-Chlorotoluene	11.37	91	10071	1.005	ppb	95
94) Tert-Butylbenzene	11.73	119	9990	1.000	ppb	91
95) 1,2,4-Trimethylbenzene	11.78	105	9321	0.938	ppb	98
96) Sec-Butylbenzene	11.97	105	14013	0.989	ppb	99
97) p-Isopropyltoluene	11.73	119	9990	1.000	ppb	# 85
98) Benzyl Chloride	12.33	91	3738	1.808	ppb	94
99) 1,3-DCB	12.17	146	6715	1.065	ppb	98
100) 1,4-DCB	12.17	146	6715	1.037	ppb	98
101) n-Butylbenzene	12.57	91	9490	0.935	ppb	90
102) 1,2-DCB	12.58	146	5973	1.051	ppb	97
103) Hexachloroethane	12.84	201	1320	2.193	ppb	# 82
104) 1,2-Dibromo-3-chloropropan	13.43	157	259	2.039	ppb	# 43
105) 1,2,4-Trichlorobenzene	13.66	180	4314	0.971	ppb	92
106) Hexachlorobutadiene	14.52	225	2056	1.257	ppb	93
107) Naphthalene	14.60	128	6562	0.894	ppb	# 93
108) 1,2,3-Trichlorobenzene	14.86	180	3213	1.279	ppb	94



Quantitation Report

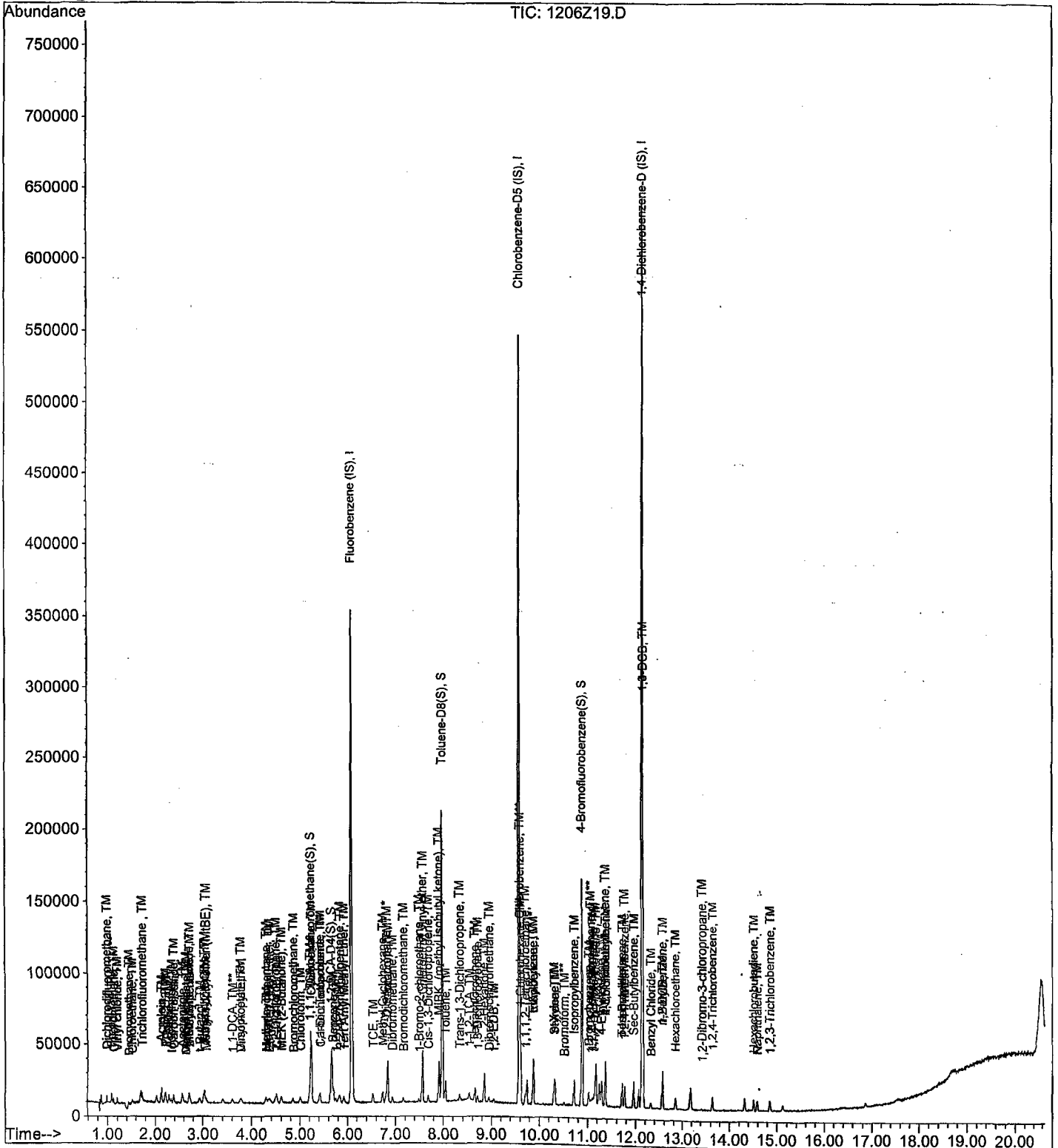
Data File : M:\ZEUS\DATA\211206\1206Z19.D  
Acq On : 06 Dec 21 16:36  
Sample : 1ug/L VOC STD 12/6/21  
Misc :

Vial: 4  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 7 9:23 2021

Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 09:28:24 2021  
Response via : Initial Calibration



Data File : M:\ZEUS\DATA\211206\1206Z20.D  
 Acq On : 06 Dec 21 17:00  
 Sample : 2ug/L VOC STD 12/6/21  
 Misc :

Vial: 5  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 9:23 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:23:27 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	6.09	96	388302	25.000	ppb	0.00
68) Chlorobenzene-D5 (IS)	9.58	117	355796	25.000	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	125880	25.000	ppb	0.00

System Monitoring Compounds

43) Dibromofluoromethane (S)	5.23	111	33446	9.515	ppb	0.00
Spiked Amount	25.000		Recovery	=	38.060%	
48) 1,2-DCA-D4 (S)	5.65	65	28333	9.758	ppb	0.00
Spiked Amount	25.000		Recovery	=	39.032%	
69) Toluene-D8 (S)	7.98	98	149510	9.746	ppb	0.00
Spiked Amount	25.000		Recovery	=	38.984%	
77) 4-Bromofluorobenzene (S)	10.88	95	60845	9.793	ppb	0.00
Spiked Amount	25.000		Recovery	=	39.172%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	1.00	85	5278	2.403	ppb	99
4) Freon 114	1.09	85	4653	2.481	ppb	85
5) Chloromethane	1.13	50	4435	2.080	ppb	94
6) Vinyl chloride	1.21	62	4103	2.183	ppb	92
9) Bromomethane	1.45	94	1985	1.973	ppb	91
10) Chloroethane	1.54	66	795	1.488	ppb #	56
11) Dichlorofluoromethane	1.71	67	8636	0.860	ppb	95
12) Trichlorofluoromethane	1.74	101	7451	2.228	ppb	99
14) Diethyl ether	2.63	74	400	2.227	ppb #	48
15) 1,2 Dichlorotrifluoroethan	2.03	67	5030	-0.416	ppb #	82
16) Acrolein	2.13	55	7907	77.741	ppb	88
17) Acetone	2.29	43	8546	29.901	ppb	99
18) Freon-113	2.22	101	2043	2.013	ppb #	82
19) 1,1-DCE	2.20	61	5840	2.270	ppb	96
21) Acetonitrile	2.57	40	3574	78.912	ppb	80
22) t-Butanol	2.94	59	2683	71.958	ppb #	90
23) Methyl Acetate	2.64	43	1496	2.044	ppb	90
24) Iodomethane	2.34	142	2667	1.317	ppb #	93
25) Acrylonitrile	3.05	52	804	1.537	ppb #	64
26) Methylene chloride	2.72	49	4511	1.609	ppb	88
27) Carbon disulfide	2.39	76	8627	2.056	ppb	99
28) Methyl t-butyl ether (MtBE)	3.08	73	7410	1.901	ppb	92
29) Trans-1,2-DCE	3.04	61	5657	2.198	ppb	89
30) Hexane	4.30	56	7055	1.702	ppb #	94
31) Diisopropyl Ether	3.79	45	6780	1.922	ppb	87
32) 2,2-Dichloro-1,1,1-trifluo	1.71	83	469	1.312	ppb	94
33) 1,1-DCA	3.62	63	7196	2.152	ppb #	90

Data File : M:\ZEUS\DATA\211206\1206Z20.D  
 Acq On : 06 Dec 21 17:00  
 Sample : 2ug/L VOC STD 12/6/21  
 Misc :

Vial: 5  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 9:23 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:23:27 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
34) Vinyl Acetate	3.77	43	5254	1.876	ppb	100
35) Ethyl tert Butyl Ether	4.37	59	7442	1.920	ppb	95
36) MEK (2-Butanone)	4.62	72	3440	26.782	ppb	93
37) Cis-1,2-DCE	4.51	61	6183	2.104	ppb	89
38) 2,2-Dichloropropane	4.50	77	6409	2.117	ppb	# 89
39) 2-Methylpentane	2.74	42	2670	1.766	ppb	90
40) 3-Methylpentane	3.04	57	7012	1.935	ppb	85
41) Chloroform	5.01	83	7774	2.097	ppb	95
42) Bromochloromethane	4.86	49	2476	2.104	ppb	87
44) 1,1,1-TCA	5.20	97	6952	2.108	ppb	95
45) Cyclohexane	5.25	56	6954	2.261	ppb	91
46) 1,1-Dichloropropene	5.44	75	5648	2.064	ppb	92
47) 2,2,4-Trimethylpentane	5.84	57	13712	2.199	ppb	99
49) Carbon Tetrachloride	5.42	117	6000	2.118	ppb	97
50) Tert Amyl Methyl Ether	5.93	73	8235	1.892	ppb	91
51) Methylcyclopentane	4.30	56	7055	1.702	ppb	96
52) 1,2-DCA	5.76	62	4468	2.096	ppb	95
53) Benzene	5.70	78	18541	2.013	ppb	97
54) TCE	6.55	130	5858	2.067	ppb	97
55) 2-Pentanone	6.84	43	45659	67.721	ppb	98
56) 1,2-Dichloropropane	6.82	63	4191	2.079	ppb	# 96
57) Bromodichloromethane	7.16	83	4629	1.896	ppb	95
58) Methyl Cyclohexane	6.74	83	8679	2.207	ppb	91
59) Dibromomethane	6.95	174	3123	1.836	ppb	98
60) MIBK (methyl isobutyl ket	7.91	43	26715	28.014	ppb	98
61) 1-Bromo-2-chloroethane	7.51	144	608	1.911	ppb	# 82
62) 2-Chloroethyl vinyl ether	7.57	43	14460	27.655	ppb	94
63) Cis-1,3-Dichloropropene	7.70	75	5891	1.849	ppb	99
64) Toluene	8.06	91	23365	2.076	ppb	99
65) Trans-1,3-Dichloropropene	8.34	75	4789	1.811	ppb	98
66) 1,1,2-TCA	8.54	97	3353	1.852	ppb	97
67) 2-Hexanone	8.85	58	11935	27.925	ppb	93
70) 1,2-EDB	9.07	107	3079	2.035	ppb	93
71) Tetrachloroethene	8.65	166	6691	1.866	ppb	95
72) 1-Chlorohexane	9.63	91	7744	1.803	ppb	96
73) 1,1,1,2-Tetrachloroethane	9.72	131	3791	2.147	ppb	90
74) m&p-Xylene	9.88	91	40553	4.059	ppb	100
75) o-Xylene	10.31	91	20177	1.989	ppb	96
76) Styrene	10.33	104	13447	2.086	ppb	100
78) 1,3-Dichloropropane	8.72	76	5783	1.868	ppb	99
79) Dibromochloromethane	8.96	129	3222	2.318	ppb	86
80) Chlorobenzene	9.61	112	15849	2.001	ppb	98

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z20.D  
 Acq On : 06 Dec 21 17:00  
 Sample : 2ug/L VOC STD 12/6/21  
 Misc :

Vial: 5  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 9:23 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:23:27 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
81) Ethylbenzene	9.88	91	40553	2.028	ppb	100
82) Bromoform	10.52	173	1760	2.631	ppb #	82
84) Isopropylbenzene	10.73	105	26755	1.941	ppb	99
85) 1,1,2,2-Tetrachloroethane	11.07	83	3420	2.163	ppb	98
86) 1,2,3-Trichloropropane	11.10	110	1263	2.095	ppb #	76
87) t-1,4-Dichloro-2-Butene	11.13	53	710	1.967	ppb #	70
88) Bromobenzene	11.03	77	8818	1.906	ppb	92
89) n-Propylbenzene	11.18	91	31442	1.922	ppb	99
90) 4-Ethyltoluene	11.30	105	27117	1.946	ppb	96
91) 2-Chlorotoluene	11.37	91	20710	1.823	ppb	97
92) 1,3,5-Trimethylbenzene	11.37	105	21407	1.903	ppb	96
93) 4-Chlorotoluene	11.37	91	20710	1.922	ppb	97
94) Tert-Butylbenzene	11.73	119	20770	1.934	ppb	93
95) 1,2,4-Trimethylbenzene	11.78	105	20599	1.929	ppb	93
96) Sec-Butylbenzene	11.96	105	29021	1.904	ppb	100
97) p-Isopropyltoluene	11.73	119	20770	1.934	ppb	98
98) Benzyl Chloride	12.33	91	7527	2.461	ppb	96
99) 1,3-DCB	12.07	146	13165	1.942	ppb	100
100) 1,4-DCB	12.17	146	13579	1.951	ppb	97
101) n-Butylbenzene	12.57	91	20323	1.861	ppb	94
102) 1,2-DCB	12.57	146	11807	1.931	ppb	96
103) Hexachloroethane	12.84	201	2825	2.815	ppb	88
104) 1,2-Dibromo-3-chloropropan	13.43	157	651	2.773	ppb	90
105) 1,2,4-Trichlorobenzene	13.65	180	9181	1.923	ppb	98
106) Hexachlorobutadiene	14.52	225	4314	2.128	ppb	94
107) Naphthalene	14.60	128	13807	1.749	ppb	97
108) 1,2,3-Trichlorobenzene	14.86	180	6668	2.114	ppb	95

Quantitation Report

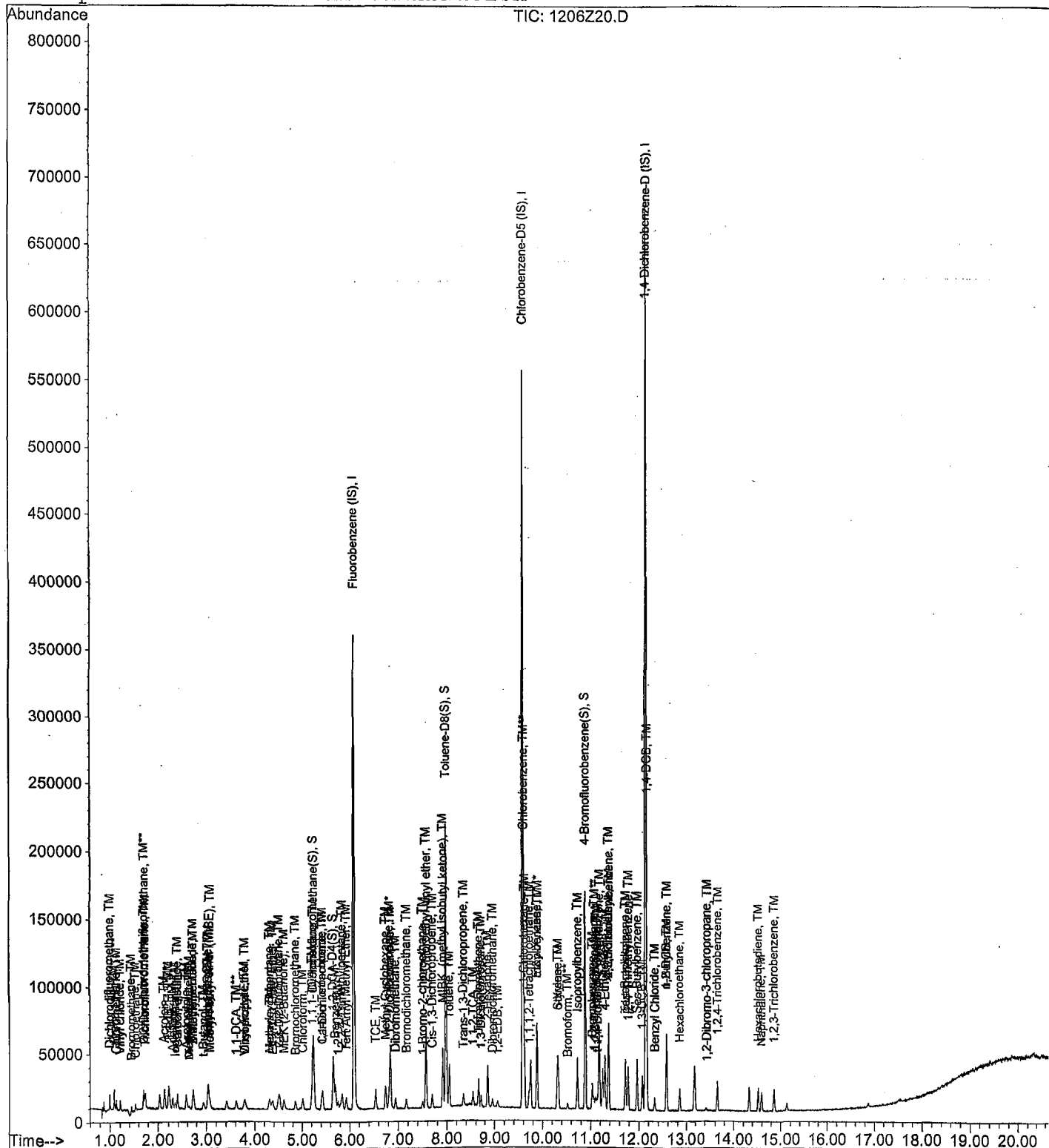
Data File : M:\ZEUS\DATA\211206\1206Z20.D  
Acq On : 06 Dec 21 17:00  
Sample : 2ug/L VOC STD 12/6/21  
Misc :

Vial: 5  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 7 9:23 2021

Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 09:28:24 2021  
Response via : Initial Calibration



Data File : M:\ZEUS\DATA\211206\1206Z21.D  
 Acq On : 06 Dec 21 17:24  
 Sample : 5ug/L VOC STD 12/6/21  
 Misc :

Vial: 6  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 9:24 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:23:27 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	398068	25.000	ppb	0.00
68) Chlorobenzene-D5 (IS)	9.58	117	358845	25.000	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	126680	25.000	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	5.23	111	98469	26.174	ppb	0.00
Spiked Amount	25.000		Recovery	=	104.696%	
48) 1,2-DCA-D4(S)	5.66	65	82342	27.663	ppb	0.00
Spiked Amount	25.000		Recovery	=	110.652%	
69) Toluene-D8(S)	7.98	98	436806	25.220	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.880%	
77) 4-Bromofluorobenzene(S)	10.88	95	177990	25.071	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.284%	
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.00	85	9433	4.189	ppb	98
4) Freon 114	1.09	85	7753	4.478	ppb	90
5) Chloromethane	1.13	50	9197	5.427	ppb	97
6) Vinyl chloride	1.20	62	9281	4.817	ppb	95
9) Bromomethane	1.45	94	3771	5.989	ppb	86
10) Chloroethane	1.53	66	1500	4.411	ppb	90
11) Dichlorofluoromethane	1.71	67	19656	4.590	ppb	97
12) Trichlorofluoromethane	1.74	101	16910	4.933	ppb	100
14) Diethyl ether	2.64	74	1133	5.062	ppb	91
15) 1,2 Dichlorotrifluoroethan	2.03	67	11051	1.619	ppb	100
16) Acrolein	2.13	55	10755	103.148	ppb	99
17) Acetone	2.28	43	11585	39.540	ppb	97
18) Freon-113	2.22	101	4318	4.151	ppb	92
19) 1,1-DCE	2.20	61	12406	4.705	ppb	99
21) Acetonitrile	2.58	40	4178	98.428	ppb	96
22) t-Butanol	2.94	59	3826	100.095	ppb	95
23) Methyl Acetate	2.64	43	3798	5.162	ppb	97
24) Iodomethane	2.34	142	6486	4.261	ppb	97
25) Acrylonitrile	3.04	52	1985	4.726	ppb	95
26) Methylene chloride	2.72	49	10303	5.100	ppb	97
27) Carbon disulfide	2.38	76	15313	4.495	ppb	98
28) Methyl t-butyl ether (MtBE)	3.08	73	19385	4.852	ppb	94
29) Trans-1,2-DCE	3.04	61	12772	4.840	ppb	97
30) Hexane	4.31	56	18367	4.500	ppb	# 98
31) Diisopropyl Ether	3.79	45	17829	4.930	ppb	99
32) 2,2-Dichloro-1,1,1-trifluo	1.70	83	1024	4.517	ppb	95
33) 1,1-DCA	3.61	63	17238	5.028	ppb	92

(#) = qualifier out of range (no manual integration)

Data File : M:\ZEUS\DATA\211206\1206Z21.D  
 Acq On : 06 Dec 21 17:24  
 Sample : 5ug/L VOC STD 12/6/21  
 Misc :

Vial: 6  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 9:24 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:23:27 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
34) Vinyl Acetate	3.78	43	13580	4.730	ppb	# 90
35) Ethyl tert Butyl Ether	4.37	59	19398	4.882	ppb	99
36) MEK (2-Butanone)	4.61	72	5169	36.221	ppb	96
37) Cis-1,2-DCE	4.52	61	14921	4.953	ppb	99
38) 2,2-Dichloropropane	4.49	77	15135	4.877	ppb	98
39) 2-Methylpentane	2.74	42	6824	4.622	ppb	95
40) 3-Methylpentane	3.03	57	17500	4.632	ppb	89
41) Chloroform	5.01	83	18954	4.987	ppb	98
42) Bromochloromethane	4.86	49	6329	5.245	ppb	87
44) 1,1,1-TCA	5.21	97	16537	4.891	ppb	99
45) Cyclohexane	5.25	56	13904	4.403	ppb	97
46) 1,1-Dichloropropene	5.44	75	12954	4.617	ppb	97
47) 2,2,4-Trimethylpentane	5.84	57	26207	4.099	ppb	98
49) Carbon Tetrachloride	5.41	117	14243	4.905	ppb	91
50) Tert Amyl Methyl Ether	5.92	73	21089	4.728	ppb	# 90
51) Methylcyclopentane	4.31	56	18367	4.500	ppb	91
52) 1,2-DCA	5.75	62	11093	5.075	ppb	99
53) Benzene	5.70	78	45660	4.836	ppb	97
54) TCE	6.54	130	13808	4.752	ppb	98
55) 2-Pentanone	6.84	43	68643	99.312	ppb	100
56) 1,2-Dichloropropane	6.82	63	10352	5.010	ppb	98
57) Bromodichloromethane	7.17	83	12407	4.958	ppb	96
58) Methyl Cyclohexane	6.74	83	16975	4.211	ppb	97
59) Dibromomethane	6.95	174	7758	4.891	ppb	97
60) MIBK (methyl isobutyl ket	7.91	43	38552	37.742	ppb	95
61) 1-Bromo-2-chloroethane	7.50	144	1708	4.891	ppb	89
62) 2-Chloroethyl vinyl ether	7.57	43	21168	37.681	ppb	95
63) Cis-1,3-Dichloropropene	7.70	75	15602	4.777	ppb	96
64) Toluene	8.05	91	55301	4.793	ppb	95
65) Trans-1,3-Dichloropropene	8.34	75	12884	4.752	ppb	97
66) 1,1,2-TCA	8.54	97	9028	4.865	ppb	100
67) 2-Hexanone	8.86	58	17324	37.940	ppb	99
70) 1,2-EDB	9.06	107	8250	4.672	ppb	98
71) Tetrachloroethene	8.66	166	15822	4.679	ppb	97
72) 1-Chlorohexane	9.62	91	18498	4.664	ppb	96
73) 1,1,1,2-Tetrachloroethane	9.72	131	10632	4.787	ppb	97
74) m&p-Xylene	9.88	91	98167	9.742	ppb	98
75) o-Xylene	10.31	91	49453	4.835	ppb	96
76) Styrene	10.33	104	34031	4.669	ppb	100
78) 1,3-Dichloropropane	8.72	76	15502	4.964	ppb	95
79) Dibromochloromethane	8.96	129	8662	4.738	ppb	97
80) Chlorobenzene	9.62	112	38452	4.813	ppb	98

(#) = qualifier out of range (351 of 507) manual integration

Data File : M:\ZEUS\DATA\211206\1206Z21.D  
 Acq On : 06 Dec 21 17:24  
 Sample : 5ug/L VOC STD 12/6/21  
 Misc :

Vial: 6  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 9:24 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:23:27 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
81) Ethylbenzene	9.88	91	98167	4.868	ppb	98
82) Bromoform	10.52	173	5033	4.873	ppb	97
84) Isopropylbenzene	10.72	105	64460	4.646	ppb	99
85) 1,1,2,2-Tetrachloroethane	11.07	83	9399	4.717	ppb	98
86) 1,2,3-Trichloropropane	11.10	110	3490	4.906	ppb	# 90
87) t-1,4-Dichloro-2-Butene	11.13	53	2359	4.857	ppb	89
88) Bromobenzene	11.03	77	22315	4.808	ppb	91
89) n-Propylbenzene	11.18	91	76998	4.676	ppb	100
90) 4-Ethyltoluene	11.30	105	66550	4.746	ppb	99
91) 2-Chlorotoluene	11.38	91	52550	4.805	ppb	97
92) 1,3,5-Trimethylbenzene	11.37	105	54552	4.819	ppb	99
93) 4-Chlorotoluene	11.38	91	52550	4.846	ppb	97
94) Tert-Butylbenzene	11.72	119	50942	4.714	ppb	98
95) 1,2,4-Trimethylbenzene	11.78	105	50773	4.724	ppb	97
96) Sec-Butylbenzene	11.96	105	71897	4.688	ppb	100
97) p-Isopropyltoluene	11.72	119	50942	4.714	ppb	100
98) Benzyl Chloride	12.33	91	20497	4.852	ppb	98
99) 1,3-DCB	12.07	146	32539	4.770	ppb	97
100) 1,4-DCB	12.17	146	33275	4.749	ppb	96
101) n-Butylbenzene	12.57	91	50877	4.630	ppb	99
102) 1,2-DCB	12.57	146	29686	4.825	ppb	100
103) Hexachloroethane	12.84	201	7464	4.849	ppb	# 83
104) 1,2-Dibromo-3-chloropropan	13.43	157	1803	5.021	ppb	92
105) 1,2,4-Trichlorobenzene	13.65	180	22562	4.695	ppb	98
106) Hexachlorobutadiene	14.52	225	10199	4.540	ppb	95
107) Naphthalene	14.60	128	36165	4.553	ppb	97
108) 1,2,3-Trichlorobenzene	14.86	180	16966	4.763	ppb	95



Quantitation Report

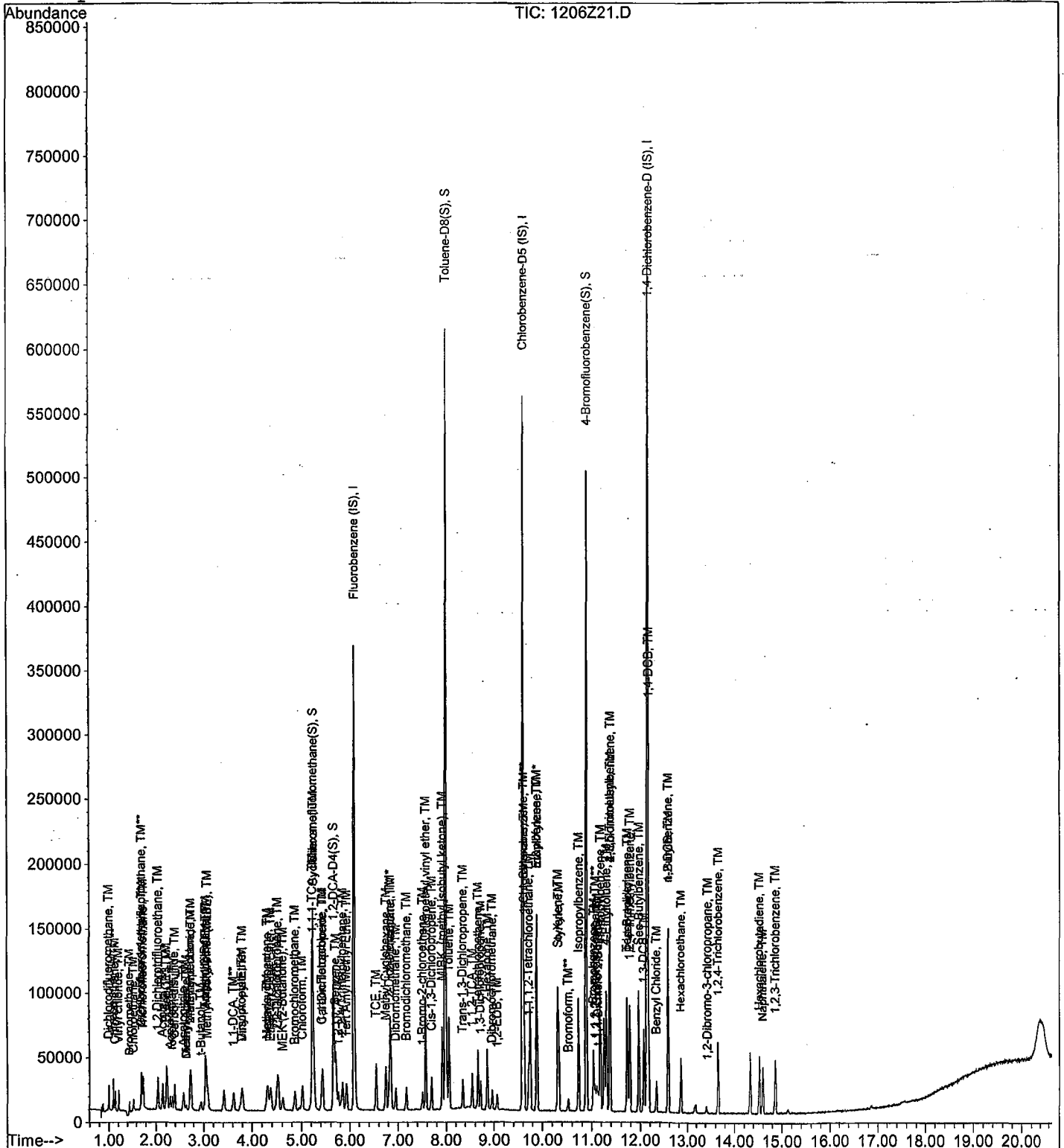
Data File : M:\ZEUS\DATA\211206\1206Z21.D  
Acq On : 06 Dec 21 17:24  
Sample : 5ug/L VOC STD 12/6/21  
Misc :

Vial: 6  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 7 9:24 2021

Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 09:28:24 2021  
Response via : Initial Calibration



Data File : M:\ZEUS\DATA\211206\1206Z22.D  
 Acq On : 06 Dec 21 17:48  
 Sample : 10ug/L VOC STD 12/6/21  
 Misc :

Vial: 7  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 9:24 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:23:27 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	407844	25.000	ppb	0.00
68) Chlorobenzene-D5 (IS)	9.59	117	362313	25.000	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	125640	25.000	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	5.23	111	98626	25.601	ppb	0.00
Spiked Amount	25.000		Recovery	=	102.404%	
48) 1,2-DCA-D4(S)	5.65	65	83490	27.377	ppb	0.00
Spiked Amount	25.000		Recovery	=	109.508%	
69) Toluene-D8(S)	7.98	98	439095	25.117	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.468%	
77) 4-Bromofluorobenzene(S)	10.88	95	179650	25.064	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.256%	
Target Compounds						
3) Dichlorodifluoromethane	1.00	85	20653	8.952	ppb	100
4) Freon 114	1.09	85	17496	10.721	ppb	100
5) Chloromethane	1.13	50	17528	11.120	ppb	100
6) Vinyl chloride	1.21	62	17806	9.021	ppb	100
9) Bromomethane	1.45	94	6008	10.831	ppb	100
10) Chloroethane	1.53	66	2571	8.906	ppb	100
11) Dichlorofluoromethane	1.71	67	39749	11.198	ppb	100
12) Trichlorofluoromethane	1.74	101	34157	9.726	ppb	100
14) Diethyl ether	2.64	74	2364	9.668	ppb	100
15) 1,2 Dichlorotrifluoroethan	2.03	67	26138	6.611	ppb	100
16) Acrolein	2.13	55	13628	127.569	ppb	100
17) Acetone	2.29	43	14965	49.851	ppb	100
18) Freon-113	2.22	101	10221	9.590	ppb	100
19) 1,1-DCE	2.20	61	25471	9.428	ppb	100
21) Acetonitrile	2.58	40	4530	109.466	ppb	100
22) t-Butanol	2.95	59	5093	130.049	ppb	100
23) Methyl Acetate	2.64	43	7546	10.074	ppb	100
24) Iodomethane	2.34	142	14376	10.181	ppb	100
25) Acrylonitrile	3.04	52	4101	10.268	ppb	100
26) Methylene chloride	2.72	49	20142	10.852	ppb	100
27) Carbon disulfide	2.39	76	31952	10.481	ppb	100
28) Methyl t-butyl ether (MtBE)	3.07	73	41995	10.258	ppb	100
29) Trans-1,2-DCE	3.04	61	25379	9.387	ppb	100
30) Hexane	4.30	56	41353	10.028	ppb	# 99
31) Diisopropyl Ether	3.79	45	38163	10.300	ppb	99
32) 2,2-Dichloro-1,1,1-trifluo	1.71	83	2236	11.352	ppb	100
33) 1,1-DCA	3.61	63	34238	9.747	ppb	100

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

Data File : M:\ZEUS\DATA\211206\1206Z22.D  
 Acq On : 06 Dec 21 17:48  
 Sample : 10ug/L VOC STD 12/6/21  
 Misc :

Vial: 7  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 9:24 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:23:27 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
34) Vinyl Acetate	3.77	43	29541	10.043	ppb	100
35) Ethyl tert Butyl Ether	4.37	59	42653	10.478	ppb	100
36) MEK (2-Butanone)	4.61	72	7517	48.680	ppb	100
37) Cis-1,2-DCE	4.51	61	30098	9.752	ppb	100
38) 2,2-Dichloropropane	4.49	77	31612	9.942	ppb	100
39) 2-Methylpentane	2.74	42	14767	9.925	ppb	100
40) 3-Methylpentane	3.03	57	37855	9.719	ppb	100
41) Chloroform	5.01	83	38869	9.982	ppb	100
42) Bromochloromethane	4.85	49	12703	10.275	ppb	100
44) 1,1,1-TCA	5.20	97	35676	10.298	ppb	100
45) Cyclohexane	5.25	56	32155	9.927	ppb	100
46) 1,1-Dichloropropene	5.44	75	28584	9.944	ppb	100
47) 2,2,4-Trimethylpentane	5.84	57	62510	9.543	ppb	100
49) Carbon Tetrachloride	5.42	117	30466	10.241	ppb	100
50) Tert Amyl Methyl Ether	5.92	73	45848	10.031	ppb	100
51) Methylcyclopentane	4.30	56	41353	10.028	ppb	100
52) 1,2-DCA	5.75	62	22399	10.002	ppb	100
53) Benzene	5.70	78	95008	9.821	ppb	100
54) TCE	6.54	130	30131	10.121	ppb	100
55) 2-Pentanone	6.84	43	92882	131.160	ppb	100
56) 1,2-Dichloropropane	6.81	63	22250	10.511	ppb	100
57) Bromodichloromethane	7.17	83	26591	10.371	ppb	100
58) Methyl Cyclohexane	6.74	83	40101	9.709	ppb	100
59) Dibromomethane	6.95	174	16032	10.181	ppb	100
60) MIBK (methyl isobutyl ket	7.91	43	52426	48.735	ppb	100
61) 1-Bromo-2-chloroethane	7.50	144	3725	10.187	ppb	100
62) 2-Chloroethyl vinyl ether	7.57	43	28309	47.895	ppb	100
63) Cis-1,3-Dichloropropene	7.70	75	34372	10.272	ppb	100
64) Toluene	8.05	91	113680	9.616	ppb	100
65) Trans-1,3-Dichloropropene	8.35	75	28674	10.323	ppb	100
66) 1,1,2-TCA	8.54	97	19000	9.994	ppb	100
67) 2-Hexanone	8.86	58	23720	49.409	ppb	100
70) 1,2-EDB	9.06	107	17919	9.542	ppb	100
71) Tetrachloroethene	8.66	166	33253	9.985	ppb	100
72) 1-Chlorohexane	9.62	91	38557	9.934	ppb	100
73) 1,1,1,2-Tetrachloroethane	9.72	131	22510	9.310	ppb	100
74) m&p-Xylene	9.88	91	203369	19.989	ppb	100
75) o-Xylene	10.31	91	101201	9.799	ppb	100
76) Styrene	10.33	104	72938	9.490	ppb	100
78) 1,3-Dichloropropane	8.72	76	32612	10.343	ppb	100
79) Dibromochloromethane	8.96	129	18700	9.145	ppb	100
80) Chlorobenzene	9.62	112	79274	9.828	ppb	100

(#) = qualifier out of range (n) = manual integration  
 1206Z22.D Z120621W.M 355 of 507  
 Tue Dec 07 09:34:41 2021

Data File : M:\ZEUS\DATA\211206\1206Z22.D  
 Acq On : 06 Dec 21 17:48  
 Sample : 10ug/L VOC STD 12/6/21  
 Misc :

Vial: 7  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 9:24 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:23:27 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
81) Ethylbenzene	9.88	91	203369	9.989	ppb	100
82) Bromoform	10.52	173	10982	8.894	ppb	100
84) Isopropylbenzene	10.72	105	137795	10.014	ppb	100
85) 1,1,2,2-Tetrachloroethane	11.07	83	20434	9.520	ppb	100
86) 1,2,3-Trichloropropane	11.10	110	7173	9.646	ppb	100
87) t-1,4-Dichloro-2-Butene	11.13	53	5077	9.707	ppb	100
88) Bromobenzene	11.03	77	46142	10.035	ppb	100
89) n-Propylbenzene	11.17	91	160153	9.806	ppb	100
90) 4-Ethyltoluene	11.30	105	139189	10.008	ppb	100
91) 2-Chlorotoluene	11.37	91	106219	9.935	ppb	100
92) 1,3,5-Trimethylbenzene	11.37	105	113681	10.125	ppb	100
93) 4-Chlorotoluene	11.37	91	106219	9.877	ppb	100
94) Tert-Butylbenzene	11.72	119	104832	9.781	ppb	100
95) 1,2,4-Trimethylbenzene	11.78	105	108792	10.205	ppb	100
96) Sec-Butylbenzene	11.96	105	153037	10.061	ppb	100
97) p-Isopropyltoluene	11.72	119	104832	9.781	ppb	100
98) Benzyl Chloride	12.33	91	43075	9.095	ppb	100
99) 1,3-DCB	12.07	146	66450	9.822	ppb	100
100) 1,4-DCB	12.17	146	66248	9.534	ppb	100
101) n-Butylbenzene	12.57	91	113096	10.378	ppb	100
102) 1,2-DCB	12.57	146	60352	9.891	ppb	100
103) Hexachloroethane	12.85	201	16383	8.835	ppb	100
104) 1,2-Dibromo-3-chloropropan	13.43	157	3864	9.119	ppb	100
105) 1,2,4-Trichlorobenzene	13.65	180	47618	9.991	ppb	100
106) Hexachlorobutadiene	14.52	225	22412	9.645	ppb	100
107) Naphthalene	14.60	128	78181	9.924	ppb	100
108) 1,2,3-Trichlorobenzene	14.86	180	35904	9.731	ppb	100

Quantitation Report

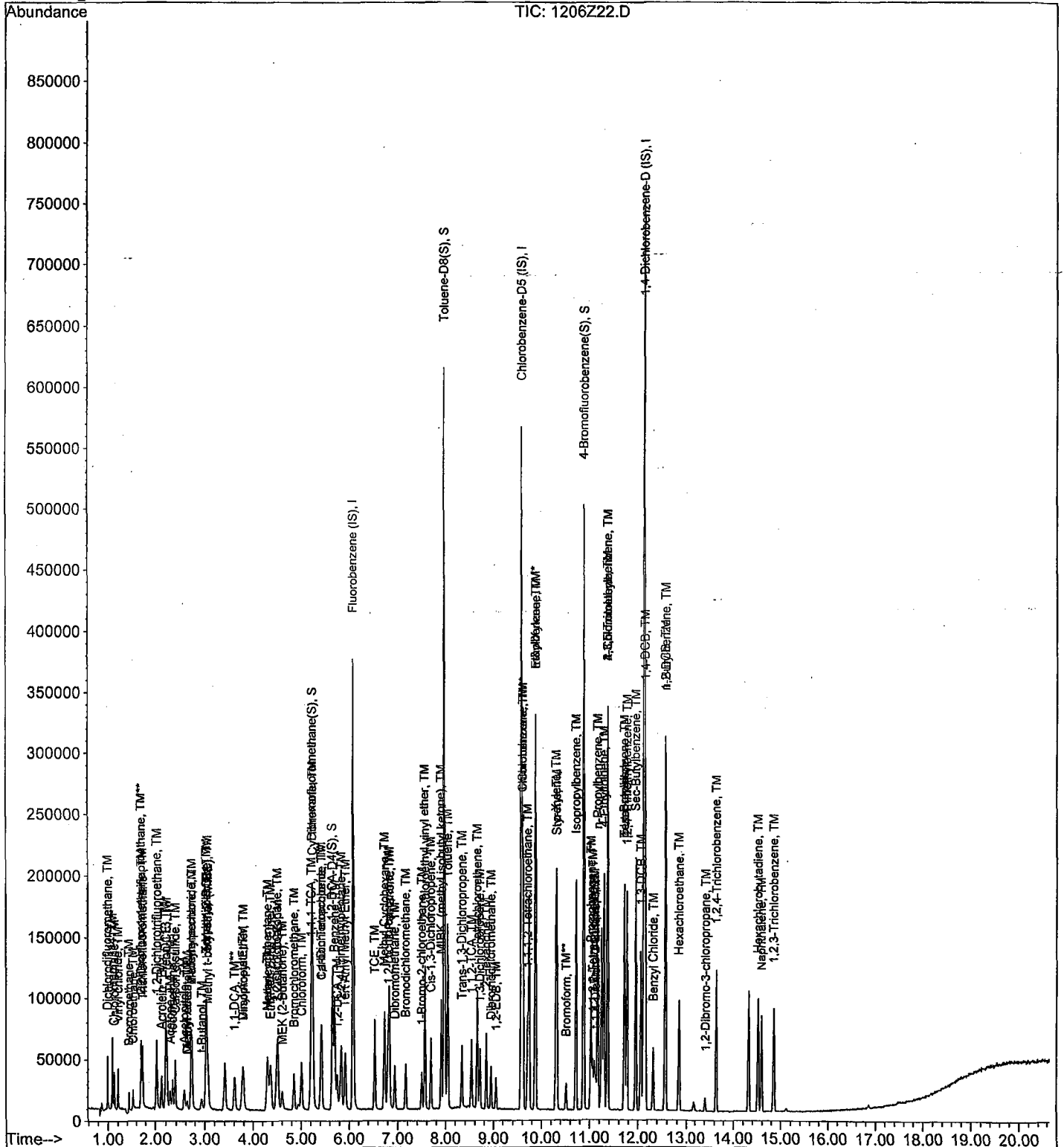
Data File : M:\ZEUS\DATA\211206\1206Z22.D  
Acq On : 06 Dec 21 17:48  
Sample : 10ug/L VOC STD 12/6/21  
Misc :

Vial: 7  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 7 9:24 2021

Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 09:28:24 2021  
Response via : Initial Calibration



Data File : M:\ZEUS\DATA\211206\1206Z23.D  
 Acq On : 06 Dec 21 18:12  
 Sample : 20ug/L VOC STD 12/6/21  
 Misc :

Vial: 8  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 9:24 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:23:27 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	429143	25.000	ppb	0.00
68) Chlorobenzene-D5 (IS)	9.58	117	371190	25.000	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	127840	25.000	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane (S)	5.23	111	211390	51.510	ppb	0.00
Spiked Amount			Recovery	=	206.040%	
48) 1,2-DCA-D4 (S)	5.65	65	178963	55.770	ppb	0.00
Spiked Amount			Recovery	=	223.080%	
69) Toluene-D8 (S)	7.98	98	942563	50.887	ppb	0.00
Spiked Amount			Recovery	=	203.548%	
77) 4-Bromofluorobenzene (S)	10.88	95	386622	50.718	ppb	0.00
Spiked Amount			Recovery	=	202.872%	
Target Compounds						
3) Dichlorodifluoromethane	1.00	85	44451	18.310	ppb	98
4) Freon 114	1.09	85	35496	21.333	ppb	98
5) Chloromethane	1.13	50	32784	20.693	ppb	97
6) Vinyl chloride	1.21	62	37335	17.975	ppb	100
9) Bromomethane	1.45	94	10696	20.217	ppb	92
10) Chloroethane	1.53	66	4049	14.825	ppb	90
11) Dichlorofluoromethane	1.71	67	78769	23.029	ppb	95
12) Trichlorofluoromethane	1.74	101	70389	19.049	ppb	100
14) Diethyl ether	2.64	74	5204	19.550	ppb	93
15) 1,2 Dichlorotrifluoroethan	2.03	67	52255	14.538	ppb	96
16) Acrolein	2.13	55	17159	152.650	ppb	96
17) Acetone	2.29	43	18769	59.420	ppb	94
18) Freon-113	2.21	101	20920	18.655	ppb	97
19) 1,1-DCE	2.20	61	53733	18.902	ppb	96
21) Acetonitrile	2.58	40	5655	-25.000	ppb	91
22) t-Butanol	2.95	59	6517	158.151	ppb	96
23) Methyl Acetate	2.64	43	15601	19.859	ppb	96
24) Iodomethane	2.34	142	29936	20.959	ppb	99
25) Acrylonitrile	3.04	52	8664	21.348	ppb	86
26) Methylene chloride	2.72	49	39687	21.398	ppb	98
27) Carbon disulfide	2.39	76	64288	21.208	ppb	98
28) Methyl t-butyl ether (MtBE)	3.07	73	90141	20.927	ppb	98
29) Trans-1,2-DCE	3.04	61	52118	18.321	ppb	94
30) Hexane	4.31	56	88052	20.412	ppb	# 100
31) Diisopropyl Ether	3.79	45	82069	21.050	ppb	97
32) 2,2-Dichloro-1,1,1-trifluo	1.71	83	4337	22.212	ppb	86
33) 1,1-DCA	3.61	63	68899	18.640	ppb	99

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z23.D  
 Acq On : 06 Dec 21 18:12  
 Sample : 20ug/L VOC STD 12/6/21  
 Misc :

Vial: 8  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 9:24 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:23:27 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
34) Vinyl Acetate	3.77	43	62451	20.177	ppb	98
35) Ethyl tert Butyl Ether	4.37	59	92004	21.479	ppb	97
36) MEK (2-Butanone)	4.61	72	9825	58.891	ppb	89
37) Cis-1,2-DCE	4.52	61	61144	18.827	ppb	97
38) 2,2-Dichloropropane	4.49	77	65068	19.448	ppb	97
39) 2-Methylpentane	2.74	42	31141	20.039	ppb	94
40) 3-Methylpentane	3.04	57	82124	19.981	ppb	95
41) Chloroform	5.01	83	79055	19.294	ppb	97
42) Bromochloromethane	4.86	49	25437	19.554	ppb	94
44) 1,1,1-TCA	5.20	97	74198	20.354	ppb	98
45) Cyclohexane	5.25	56	69102	20.267	ppb	99
46) 1,1-Dichloropropene	5.44	75	61598	20.366	ppb	94
47) 2,2,4-Trimethylpentane	5.84	57	136548	19.810	ppb	99
49) Carbon Tetrachloride	5.42	117	64975	20.758	ppb	98
50) Tert Amyl Methyl Ether	5.92	73	99335	20.655	ppb	99
51) Methylcyclopentane	4.31	56	88052	20.412	ppb	94
52) 1,2-DCA	5.76	62	45059	19.123	ppb	99
53) Benzene	5.70	78	197208	19.374	ppb	98
54) TCE	6.54	130	63899	20.398	ppb	98
55) 2-Pentanone	6.84	43	126928	170.341	ppb	99
56) 1,2-Dichloropropane	6.81	63	45749	20.539	ppb	100
57) Bromodichloromethane	7.17	83	56114	20.799	ppb	93
58) Methyl Cyclohexane	6.74	83	88643	20.396	ppb	98
59) Dibromomethane	6.95	174	33460	20.499	ppb	96
60) MIBK (methyl isobutyl ket	7.91	43	69947	60.682	ppb	98
61) 1-Bromo-2-chloroethane	7.50	144	7878	20.274	ppb	97
62) 2-Chloroethyl vinyl ether	7.57	43	38602	60.817	ppb	96
63) Cis-1,3-Dichloropropene	7.70	75	74364	21.121	ppb	99
64) Toluene	8.05	91	233943	18.807	ppb	100
65) Trans-1,3-Dichloropropene	8.34	75	62277	21.307	ppb	98
66) 1,1,2-TCA	8.54	97	40868	20.429	ppb	98
67) 2-Hexanone	8.86	58	31090	60.602	ppb	94
70) 1,2-EDB	9.06	107	38478	19.515	ppb	98
71) Tetrachloroethene	8.65	166	68499	20.305	ppb	98
72) 1-Chlorohexane	9.62	91	80032	20.422	ppb	98
73) 1,1,1,2-Tetrachloroethane	9.72	131	49470	19.211	ppb	99
74) m&p-Xylene	9.88	91	417432	40.049	ppb	100
75) o-Xylene	10.31	91	209067	19.759	ppb	99
76) Styrene	10.33	104	157102	19.537	ppb	98
78) 1,3-Dichloropropane	8.72	76	69379	21.478	ppb	97
79) Dibromochloromethane	8.96	129	41652	18.867	ppb	95
80) Chlorobenzene	9.62	112	161663	19.564	ppb	98

Data File : M:\ZEUS\DATA\211206\1206Z23.D  
 Acq On : 06 Dec 21 18:12  
 Sample : 20ug/L VOC STD 12/6/21  
 Misc :

Vial: 8  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 9:24 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:23:27 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
81) Ethylbenzene	9.88	91	418308	20.054	ppb	100
82) Bromoform	10.52	173	25304	18.243	ppb	99
84) Isopropylbenzene	10.72	105	287917	20.564	ppb	99
85) 1,1,2,2-Tetrachloroethane	11.07	83	43119	19.006	ppb	98
86) 1,2,3-Trichloropropane	11.10	110	15203	19.568	ppb	92
87) t-1,4-Dichloro-2-Butene	11.13	53	10708	19.358	ppb	94
88) Bromobenzene	11.03	77	92377	19.754	ppb	97
89) n-Propylbenzene	11.17	91	334650	20.138	ppb	100
90) 4-Ethyltoluene	11.30	105	286598	20.253	ppb	99
91) 2-Chlorotoluene	11.37	91	218246	20.201	ppb	100
92) 1,3,5-Trimethylbenzene	11.37	105	237894	20.823	ppb	99
93) 4-Chlorotoluene	11.37	91	218246	19.944	ppb	100
94) Tert-Butylbenzene	11.72	119	222517	20.404	ppb	97
95) 1,2,4-Trimethylbenzene	11.78	105	231549	21.347	ppb	98
96) Sec-Butylbenzene	11.96	105	320433	20.704	ppb	100
97) p-Isopropyltoluene	11.72	119	222517	20.404	ppb	99
98) Benzyl Chloride	12.33	91	94033	18.298	ppb	99
99) 1,3-DCB	12.07	146	135175	19.637	ppb	96
100) 1,4-DCB	12.17	146	135276	19.133	ppb	97
101) n-Butylbenzene	12.57	91	240858	21.721	ppb	98
102) 1,2-DCB	12.57	146	122742	19.770	ppb	99
103) Hexachloroethane	12.85	201	36817	17.623	ppb	93
104) 1,2-Dibromo-3-chloropropan	13.43	157	8730	18.429	ppb	93
105) 1,2,4-Trichlorobenzene	13.65	180	98576	20.326	ppb	95
106) Hexachlorobutadiene	14.52	225	47521	19.729	ppb	95
107) Naphthalene	14.60	128	170287	21.243	ppb	98
108) 1,2,3-Trichlorobenzene	14.86	180	74446	19.435	ppb	99

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





Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z24.D  
 Acq On : 06 Dec 21 18:36  
 Sample : 40ug/L VOC STD 12/6/21  
 Misc :

Vial: 9  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 9:24 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:23:27 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	438913	25.000	ppb	0.00
68) Chlorobenzene-D5 (IS)	9.58	117	374368	25.000	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	124832	25.000	ppb	0.00
<b>System Monitoring Compounds</b>						
43) Dibromofluoromethane (S)	5.23	111	210639	50.201	ppb	0.00
Spiked Amount	25.000		Recovery	=	200.804%	
48) 1,2-DCA-D4 (S)	5.65	65	179326	54.639	ppb	0.00
Spiked Amount	25.000		Recovery	=	218.556%	
69) Toluene-D8 (S)	7.98	98	944015	50.544	ppb	0.00
Spiked Amount	25.000		Recovery	=	202.176%	
77) 4-Bromofluorobenzene (S)	10.88	95	388955	50.595	ppb	0.00
Spiked Amount	25.000		Recovery	=	202.380%	
<b>Target Compounds</b>						
3) Dichlorodifluoromethane	1.00	85	93480	37.649	ppb	Qvalue 100
4) Freon 114	1.09	85	65744	39.211	ppb	99
5) Chloromethane	1.13	50	63990	40.573	ppb	98
6) Vinyl chloride	1.21	62	76181	35.862	ppb	100
9) Bromomethane	1.45	94	20881	41.074	ppb	87
10) Chloroethane	1.53	66	6265	25.013	ppb	99
11) Dichlorofluoromethane	1.71	67	153143	45.755	ppb	100
12) Trichlorofluoromethane	1.74	101	142111	37.602	ppb	98
14) Diethyl ether	2.64	74	11087	40.054	ppb	# 93
15) 1,2 Dichlorotrifluoroethan	2.03	67	103571	30.233	ppb	98
16) Acrolein	2.13	55	19092	166.066	ppb	100
17) Acetone	2.29	43	24694	76.438	ppb	90
18) Freon-113	2.22	101	42992	37.483	ppb	95
19) 1,1-DCE	2.20	61	104706	36.013	ppb	98
21) Acetonitrile	2.58	40	5848	-25.000	ppb	97
22) t-Butanol	2.95	59	7737	183.578	ppb	96
23) Methyl Acetate	2.64	43	31763	39.600	ppb	98
24) Iodomethane	2.34	142	63104	44.075	ppb	98
25) Acrylonitrile	3.04	52	17195	42.108	ppb	97
26) Methylene chloride	2.72	49	77420	41.934	ppb	99
27) Carbon disulfide	2.39	76	128368	42.622	ppb	99
28) Methyl t-butyl ether (MtBE)	3.07	73	190427	43.224	ppb	99
29) Trans-1,2-DCE	3.04	61	102917	35.373	ppb	97
30) Hexane	4.30	56	184278	41.890	ppb	# 99
31) Diisopropyl Ether	3.79	45	170474	42.752	ppb	99
32) 2,2-Dichloro-1,1,1-trifluo	1.71	83	8574	44.357	ppb	90
33) 1,1-DCA	3.61	63	137357	36.334	ppb	99

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z24.D  
 Acq On : 06 Dec 21 18:36  
 Sample : 40ug/L VOC STD 12/6/21  
 Misc :

Vial: 9  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 9:24 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:23:27 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
34) Vinyl Acetate	3.77	43	129022	40.757	ppb	98
35) Ethyl tert Butyl Ether	4.37	59	193239	44.109	ppb	96
36) MEK (2-Butanone)	4.61	72	14078	79.893	ppb	94
37) Cis-1,2-DCE	4.52	61	121377	36.542	ppb	98
38) 2,2-Dichloropropane	4.49	77	129373	37.807	ppb	99
39) 2-Methylpentane	2.74	42	66718	42.138	ppb	99
40) 3-Methylpentane	3.03	57	175276	41.638	ppb	96
41) Chloroform	5.01	83	156492	37.342	ppb	97
42) Bromochloromethane	4.86	49	50678	38.089	ppb	96
44) 1,1,1-TCA	5.20	97	148374	39.796	ppb	100
45) Cyclohexane	5.25	56	139315	39.943	ppb	98
46) 1,1-Dichloropropene	5.43	75	125928	40.708	ppb	98
47) 2,2,4-Trimethylpentane	5.84	57	280195	39.746	ppb	100
49) Carbon Tetrachloride	5.42	117	131961	41.219	ppb	99
50) Tert Amyl Methyl Ether	5.92	73	209979	42.691	ppb	96
51) Methylcyclopentane	4.30	56	184278	41.890	ppb	94
52) 1,2-DCA	5.75	62	89257	37.037	ppb	97
53) Benzene	5.70	78	396620	38.098	ppb	99
54) TCE	6.54	130	131075	40.910	ppb	98
55) 2-Pentanone	6.84	43	157091	206.128	ppb	99
56) 1,2-Dichloropropane	6.81	63	92050	40.406	ppb	99
57) Bromodichloromethane	7.17	83	117525	42.592	ppb	96
58) Methyl Cyclohexane	6.74	83	183172	41.208	ppb	98
59) Dibromomethane	6.95	174	67651	40.827	ppb	98
60) MIBK (methyl isobutyl ket	7.91	43	95540	79.647	ppb	99
61) 1-Bromo-2-chloroethane	7.50	144	16129	40.386	ppb	95
62) 2-Chloroethyl vinyl ether	7.57	43	52384	79.311	ppb	97
63) Cis-1,3-Dichloropropene	7.70	75	156116	43.354	ppb	96
64) Toluene	8.05	91	467029	36.710	ppb	100
65) Trans-1,3-Dichloropropene	8.34	75	132351	44.274	ppb	99
66) 1,1,2-TCA	8.54	97	84103	41.105	ppb	99
67) 2-Hexanone	8.86	58	42787	80.217	ppb	99
70) 1,2-EDB	9.06	107	80976	40.239	ppb	99
71) Tetrachloroethene	8.66	166	139465	41.222	ppb	98
72) 1-Chlorohexane	9.62	91	163680	41.709	ppb	96
73) 1,1,1,2-Tetrachloroethane	9.72	131	104917	39.665	ppb	98
74) m&p-Xylene	9.88	91	836255	79.549	ppb	100
75) o-Xylene	10.31	91	420940	39.445	ppb	100
76) Styrene	10.33	104	331090	40.416	ppb	99
78) 1,3-Dichloropropane	8.72	76	142535	43.751	ppb	97
79) Dibromochloromethane	8.96	129	89975	39.423	ppb	96
80) Chlorobenzene	9.62	112	322361	38.680	ppb	97

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z24.D  
 Acq On : 06 Dec 21 18:36  
 Sample : 40ug/L VOC STD 12/6/21  
 Misc :

Vial: 9  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 9:24 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:23:27 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
81) Ethylbenzene	9.88	91	838155	39.841	ppb	100
82) Bromoform	10.52	173	54946	37.652	ppb	100
84) Isopropylbenzene	10.73	105	581901	42.563	ppb	99
85) 1,1,2,2-Tetrachloroethane	11.07	83	89308	39.544	ppb	98
86) 1,2,3-Trichloropropane	11.10	110	30427	39.598	ppb	# 89
87) t-1,4-Dichloro-2-Butene	11.14	53	21910	39.785	ppb	91
88) Bromobenzene	11.03	77	185495	40.631	ppb	99
89) n-Propylbenzene	11.18	91	670078	41.295	ppb	99
90) 4-Ethyltoluene	11.30	105	569407	41.208	ppb	98
91) 2-Chlorotoluene	11.37	91	430778	40.975	ppb	100
92) 1,3,5-Trimethylbenzene	11.37	105	477006	42.759	ppb	98
93) 4-Chlorotoluene	11.37	91	430778	40.315	ppb	100
94) Tert-Butylbenzene	11.73	119	443212	41.620	ppb	97
95) 1,2,4-Trimethylbenzene	11.78	105	466648	44.058	ppb	97
96) Sec-Butylbenzene	11.96	105	638091	42.221	ppb	99
97) p-Isopropyltoluene	11.73	119	443212	41.620	ppb	100
98) Benzyl Chloride	12.33	91	199889	38.587	ppb	99
99) 1,3-DCB	12.07	146	268612	39.961	ppb	96
100) 1,4-DCB	12.17	146	267616	38.764	ppb	99
101) n-Butylbenzene	12.57	91	484414	44.738	ppb	99
102) 1,2-DCB	12.57	146	244455	40.323	ppb	98
103) Hexachloroethane	12.85	201	80191	37.384	ppb	# 85
104) 1,2-Dibromo-3-chloropropan	13.43	157	18709	38.666	ppb	95
105) 1,2,4-Trichlorobenzene	13.65	180	199077	42.038	ppb	98
106) Hexachlorobutadiene	14.52	225	94918	40.001	ppb	96
107) Naphthalene	14.60	128	354074	45.235	ppb	99
108) 1,2,3-Trichlorobenzene	14.86	180	149998	39.697	ppb	99

Quantitation Report

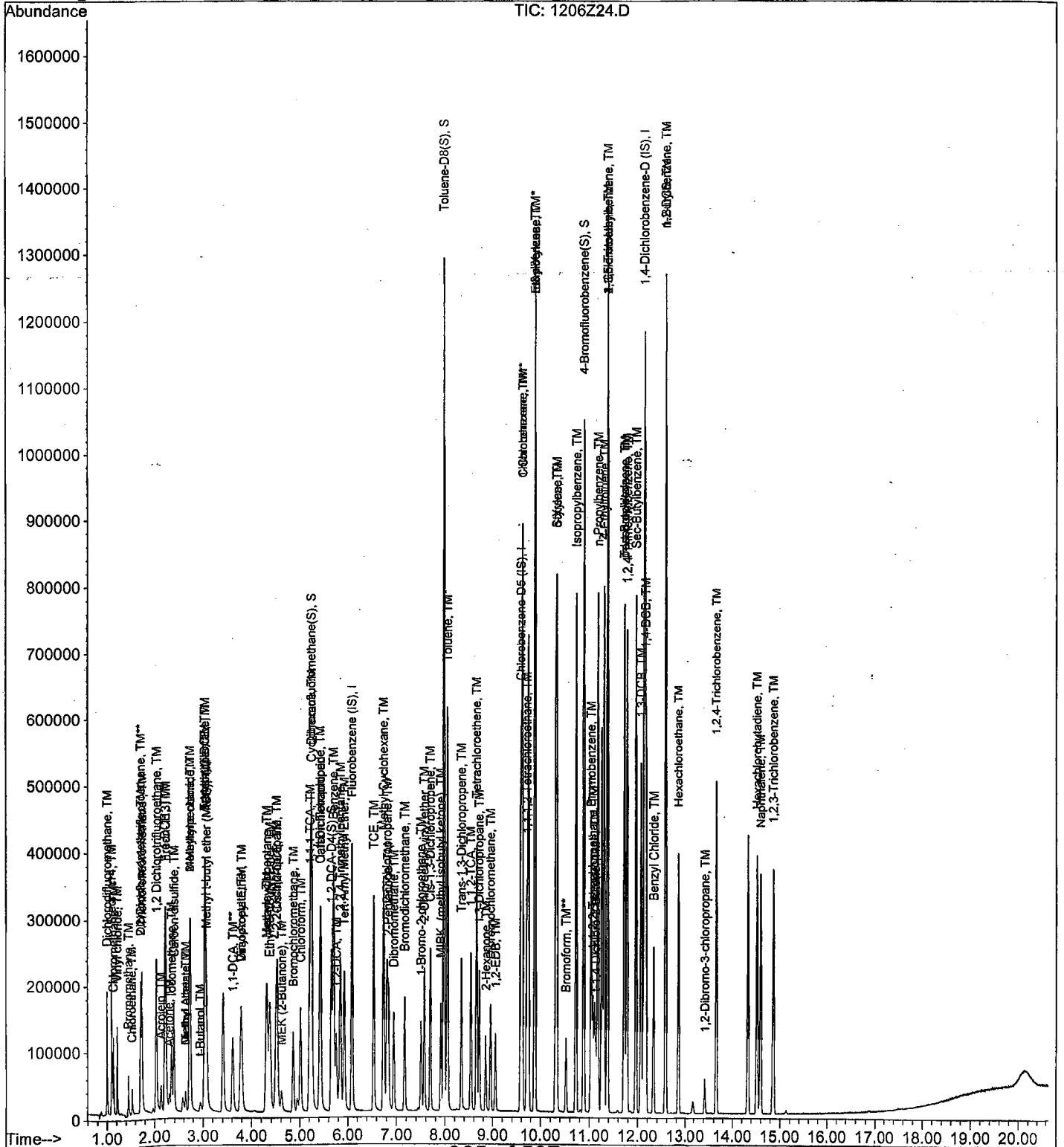
Data File : M:\ZEUS\DATA\211206\1206Z24.D  
Acq On : 06 Dec 21 18:36  
Sample : 40ug/L VOC STD 12/6/21  
Misc :

Vial: 9  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 7 9:24 2021

Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 09:28:24 2021  
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z25.D	Vial: 10
Acq On : 06 Dec 21 19:00	Operator: MH
Sample : 100ug/L VOC STD 12/6/21	Inst : Zeus
Misc :	Multiplr: 1.00

Quant Time: Dec 7 9:24 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:23:27 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
<hr/>						
1) Fluorobenzene (IS)	6.09	96	457473	25.000	ppb	0.00
68) Chlorobenzene-D5 (IS)	9.58	117	388410	25.000	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	126216	25.000	ppb	0.00
<hr/>						
<b>System Monitoring Compounds</b>						
43) Dibromofluoromethane (S)	5.23	111	434953	98.851	ppb	0.00
Spiked Amount 25.000			Recovery = 395.404%			
48) 1,2-DCA-D4 (S)	5.66	65	368985	107.865	ppb	0.00
Spiked Amount 25.000			Recovery = 431.460%			
69) Toluene-D8 (S)	7.98	98	1954424	99.278	ppb	0.00
Spiked Amount 25.000			Recovery = 397.112%			
77) 4-Bromofluorobenzene (S)	10.88	95	806582	99.376	ppb	0.00
Spiked Amount 25.000			Recovery = 397.504%			
<hr/>						
<b>Target Compounds</b>						<b>Qvalue</b>
3) Dichlorodifluoromethane	1.00	85	236889	91.536	ppb	100
4) Freon 114	1.09	85	129027	74.462	ppb	99
5) Chloromethane	1.13	50	160814	99.510	ppb	97
6) Vinyl chloride	1.21	62	194760	87.962	ppb	100
9) Bromomethane	1.45	94	50744	99.407	ppb	87
10) Chloroethane	1.52	66	10408	48.419	ppb	90
11) Dichlorofluoromethane	1.71	67	330361	97.048	ppb	99
12) Trichlorofluoromethane	1.73	101	337732	85.738	ppb	99
14) Diethyl ether	2.64	74	29148	100.090	ppb	# 93
15) 1,2 Dichlorotrifluoroethan	2.03	67	257811	75.253	ppb	98
16) Acrolein	2.13	55	22964	191.641	ppb	97
17) Acetone	2.30	43	31595	93.831	ppb	93
18) Freon-113	2.21	101	101584	84.974	ppb	94
19) 1,1-DCE	2.19	61	254395	83.949	ppb	97
21) Acetonitrile	2.58	40	5745	147.587	ppb	91
22) t-Butanol	2.97	59	7647	174.081	ppb	# 91
23) Methyl Acetate	2.64	43	83659	100.171	ppb	100
24) Iodomethane	2.34	142	145088	98.223	ppb	98
25) Acrylonitrile	3.04	52	41683	98.897	ppb	99
26) Methylene chloride	2.72	49	187144	98.880	ppb	99
27) Carbon disulfide	2.38	76	304704	98.700	ppb	99
28) Methyl t-butyl ether (MtBE)	3.08	73	487462	106.158	ppb	95
29) Trans-1,2-DCE	3.04	61	247031	81.460	ppb	97
30) Hexane	4.30	56	454086	99.194	ppb	# 99
31) Diisopropyl Ether	3.79	45	442145	106.384	ppb	97
32) 2,2-Dichloro-1,1,1-trifluo	1.71	83	19335	97.744	ppb	92
33) 1,1-DCA	3.61	63	335347	85.107	ppb	99

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z25.D  
 Acq On : 06 Dec 21 19:00  
 Sample : 100ug/L VOC STD 12/6/21  
 Misc :

Vial: 10  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 9:24 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:23:27 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
34) Vinyl Acetate	3.77	43	322670	97.793	ppb	99
35) Ethyl tert Butyl Ether	4.37	59	507116	111.059	ppb	95
36) MEK (2-Butanone)	4.61	72	19381	103.435	ppb	83
37) Cis-1,2-DCE	4.51	61	295464	85.345	ppb	99
38) 2,2-Dichloropropane	4.49	77	315591	88.484	ppb	99
39) 2-Methylpentane	2.74	42	163333	99.172	ppb	97
40) 3-Methylpentane	3.03	57	436448	99.398	ppb	96
41) Chloroform	5.01	83	382726	87.621	ppb	96
42) Bromochloromethane	4.86	49	123925	89.363	ppb	97
44) 1,1,1-TCA	5.20	97	363894	93.641	ppb	99
45) Cyclohexane	5.25	56	338987	93.237	ppb	98
46) 1,1-Dichloropropene	5.44	75	308416	95.655	ppb	98
47) 2,2,4-Trimethylpentane	5.84	57	713490	97.103	ppb	100
49) Carbon Tetrachloride	5.42	117	325476	97.541	ppb	99
50) Tert Amyl Methyl Ether	5.92	73	561457	109.518	ppb	95
51) Methylcyclopentane	4.30	56	454086	99.194	ppb	93
52) 1,2-DCA	5.76	62	222114	88.427	ppb	98
53) Benzene	5.70	78	977876	90.121	ppb	98
54) TCE	6.54	130	322853	96.678	ppb	97
55) 2-Pentanone	6.84	43	192711	242.608	ppb	99
56) 1,2-Dichloropropane	6.81	63	228537	96.247	ppb	98
57) Bromodichloromethane	7.17	83	300216	104.387	ppb	94
58) Methyl Cyclohexane	6.74	83	464544	100.269	ppb	98
59) Dibromomethane	6.95	174	171192	99.564	ppb	99
60) MIBK (methyl isobutyl ket	7.91	43	128750	101.761	ppb	99
61) 1-Bromo-2-chloroethane	7.50	144	41658	99.783	ppb	97
62) 2-Chloroethyl vinyl ether	7.57	43	71489	102.538	ppb	96
63) Cis-1,3-Dichloropropene	7.70	75	400086	106.597	ppb	96
64) Toluene	8.05	91	1145623	86.397	ppb	99
65) Trans-1,3-Dichloropropene	8.35	75	344295	110.500	ppb	99
66) 1,1,2-TCA	8.54	97	215219	100.920	ppb	98
67) 2-Hexanone	8.85	58	56746	101.023	ppb	98
70) 1,2-EDB	9.06	107	210292	100.057	ppb	98
71) Tetrachloroethene	8.66	166	348056	99.474	ppb	99
72) 1-Chlorohexane	9.62	91	402555	99.264	ppb	94
73) 1,1,1,2-Tetrachloroethane	9.72	131	278248	100.360	ppb	100
74) m&p-Xylene	9.88	91	2044199	187.426	ppb	100
75) o-Xylene	10.31	91	1045067	94.390	ppb	100
76) Styrene	10.33	104	854578	99.988	ppb	100
78) 1,3-Dichloropropane	8.72	76	361759	107.027	ppb	98
79) Dibromochloromethane	8.96	129	241315	100.538	ppb	96
80) Chlorobenzene	9.62	112	803130	92.882	ppb	98

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z25.D Vial: 10  
 Acq On : 06 Dec 21 19:00 Operator: MH  
 Sample : 100ug/L VOC STD 12/6/21 Inst : Zeus  
 Misc : Multiplr: 1.00

Quant Time: Dec 7 9:24 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:23:27 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
81) Ethylbenzene	9.88	91	2046563	93.765	ppb	100
82) Bromoform	10.52	173	157242	101.376	ppb	99
84) Isopropylbenzene	10.73	105	1432414	103.624	ppb	98
85) 1,1,2,2-Tetrachloroethane	11.07	83	231789	100.431	ppb	99
86) 1,2,3-Trichloropropane	11.10	110	78494	100.279	ppb	90
87) t-1,4-Dichloro-2-Butene	11.13	53	56431	100.246	ppb	91
88) Bromobenzene	11.03	77	460626	99.804	ppb	98
89) n-Propylbenzene	11.18	91	1657896	101.050	ppb	98
90) 4-Ethyltoluene	11.30	105	1405370	100.592	ppb	98
91) 2-Chlorotoluene	11.37	91	1056565	99.592	ppb	100
92) 1,3,5-Trimethylbenzene	11.37	105	1175329	104.202	ppb	98
93) 4-Chlorotoluene	11.37	91	1056565	97.795	ppb	100
94) Tert-Butylbenzene	11.72	119	1103297	102.469	ppb	97
95) 1,2,4-Trimethylbenzene	11.78	105	1173029	109.536	ppb	97
96) Sec-Butylbenzene	11.96	105	1580635	103.441	ppb	99
97) p-Isopropyltoluene	11.72	119	1103297	102.469	ppb	99
98) Benzyl Chloride	12.33	91	538117	100.979	ppb	100
99) 1,3-DCB	12.07	146	666848	98.119	ppb	97
100) 1,4-DCB	12.17	146	662443	94.901	ppb	100
101) n-Butylbenzene	12.57	91	1216556	111.123	ppb	98
102) 1,2-DCB	12.57	146	603992	98.536	ppb	99
103) Hexachloroethane	12.84	201	226454	101.607	ppb	# 82
104) 1,2-Dibromo-3-chloropropan	13.43	157	50585	100.904	ppb	92
105) 1,2,4-Trichlorobenzene	13.65	180	511224	106.769	ppb	97
106) Hexachlorobutadiene	14.52	225	241413	100.105	ppb	98
107) Naphthalene	14.60	128	927962	117.253	ppb	98
108) 1,2,3-Trichlorobenzene	14.86	180	385302	100.265	ppb	99



Quantitation Report

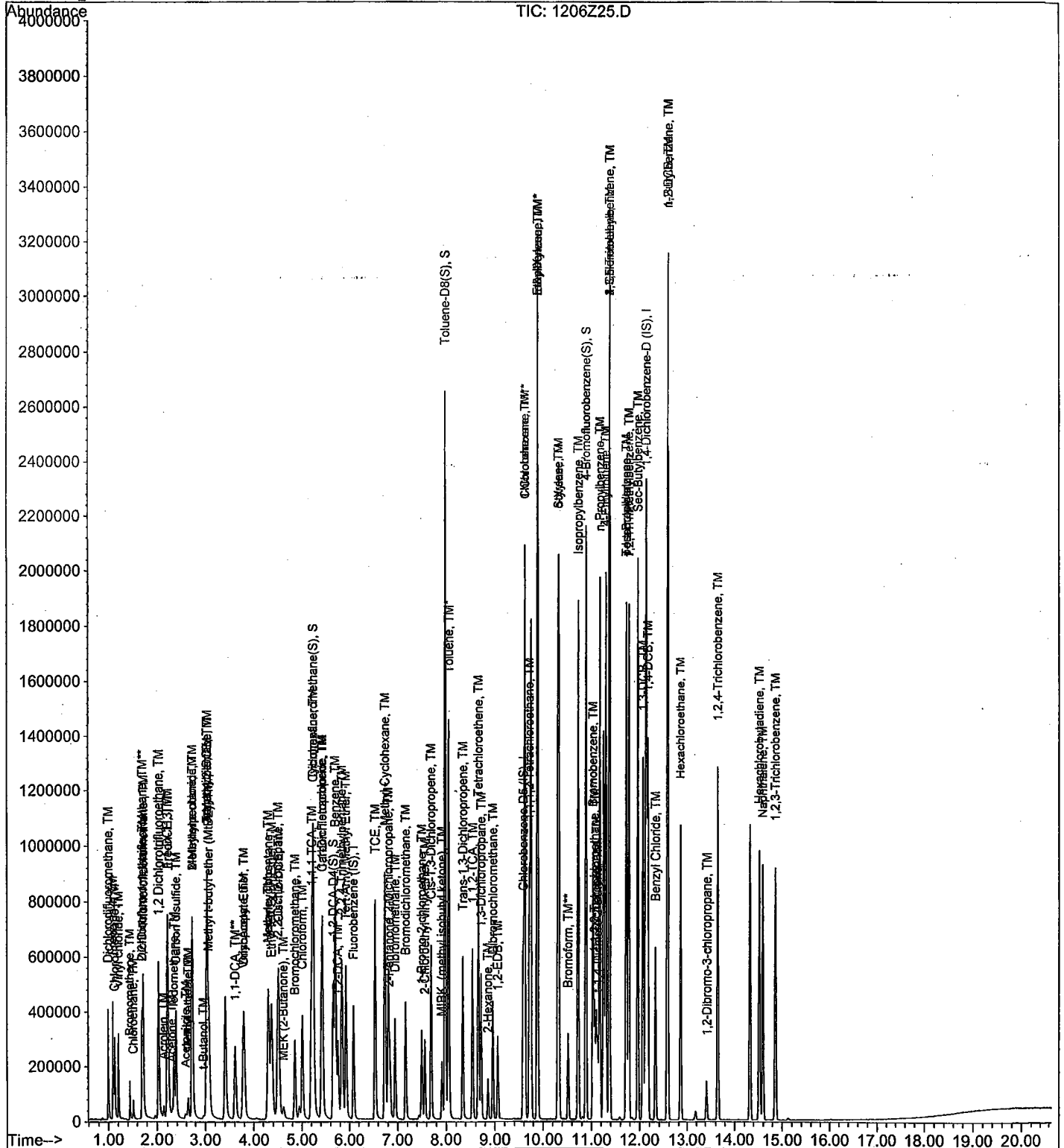
Data File : M:\ZEUS\DATA\211206\1206Z25.D  
Acq On : 06 Dec 21 19:00  
Sample : 100ug/L VOC STD 12/6/21  
Misc :

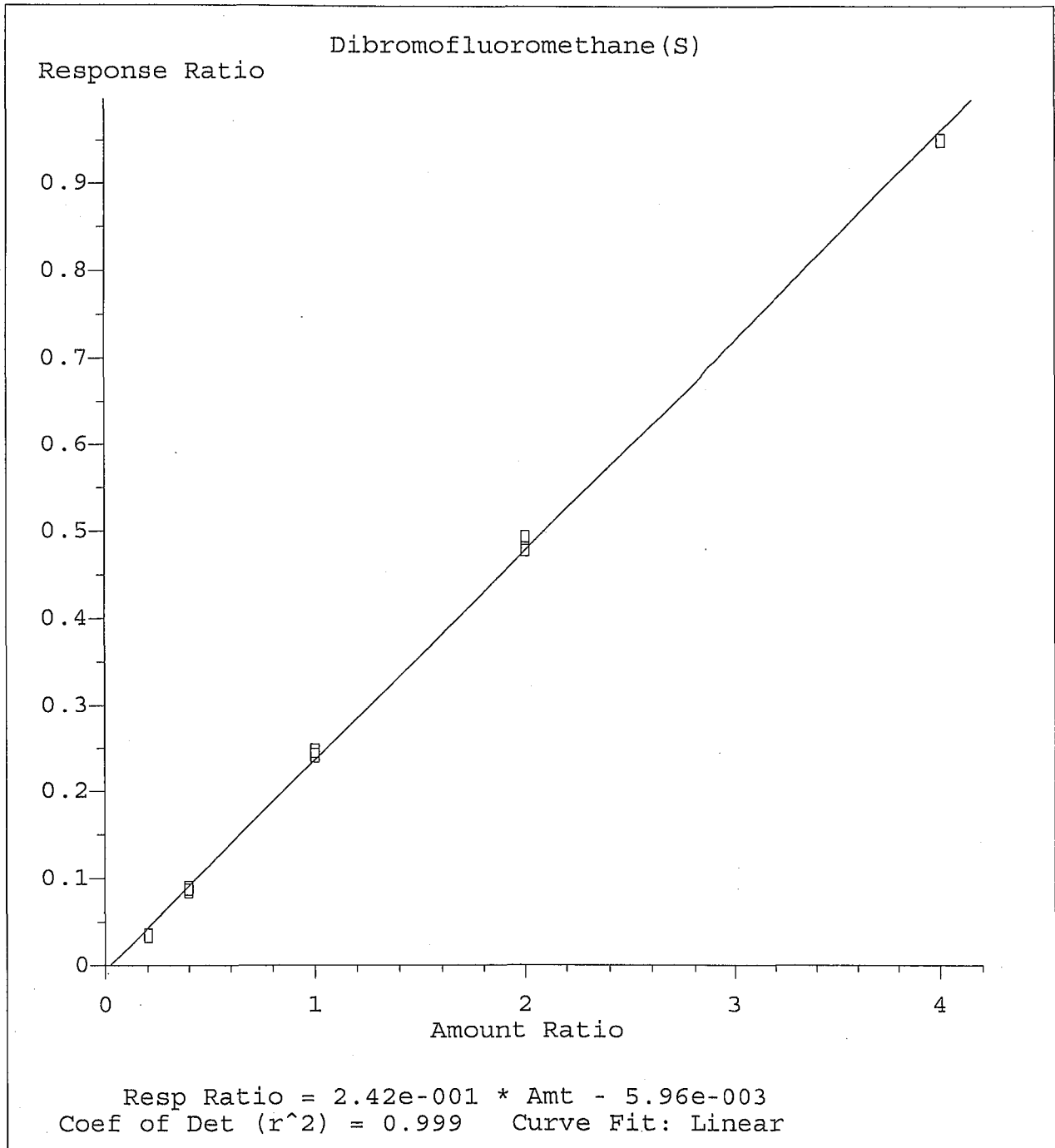
Vial: 10  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 7 9:24 2021

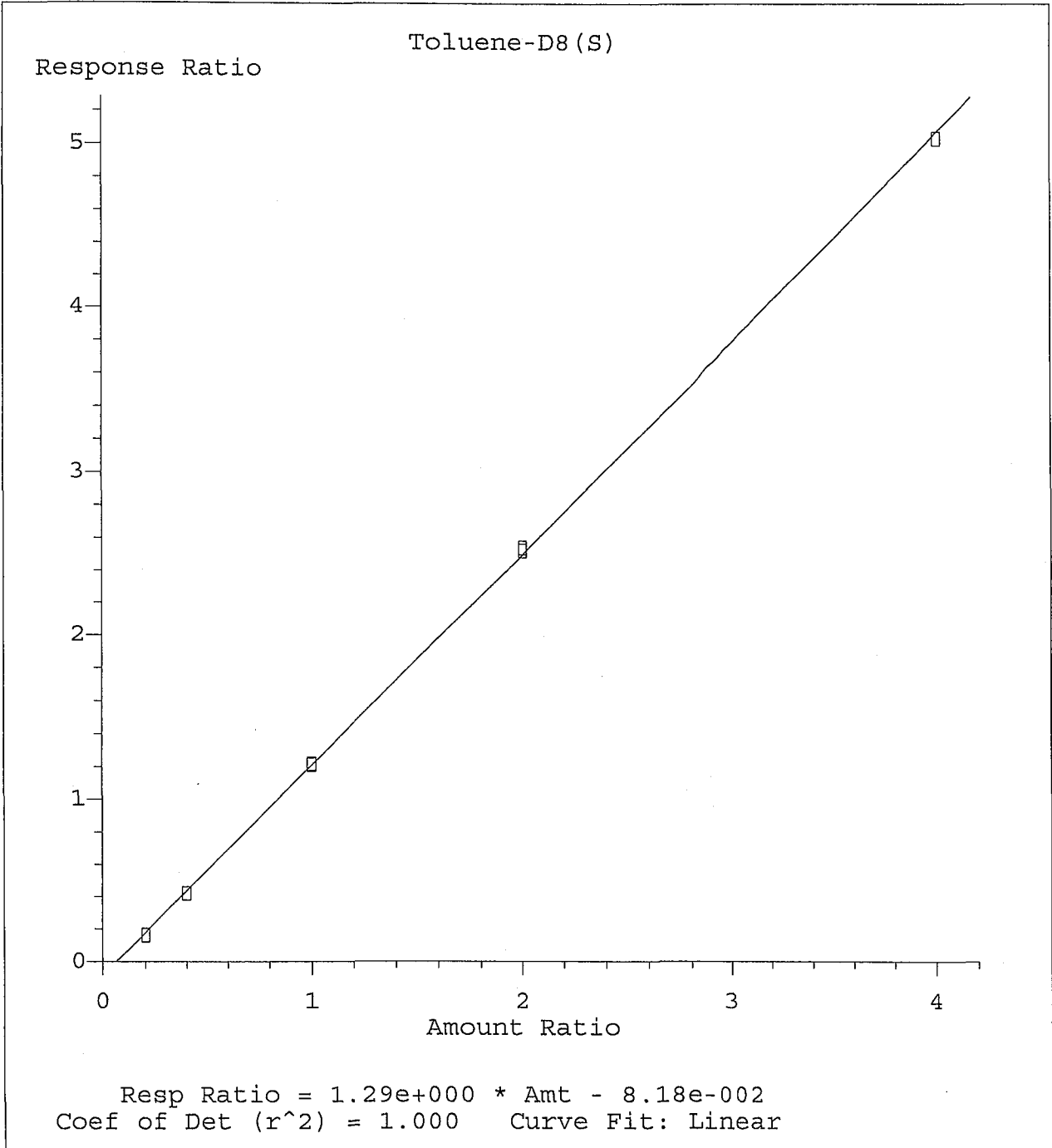
Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 09:28:24 2021  
Response via : Initial Calibration

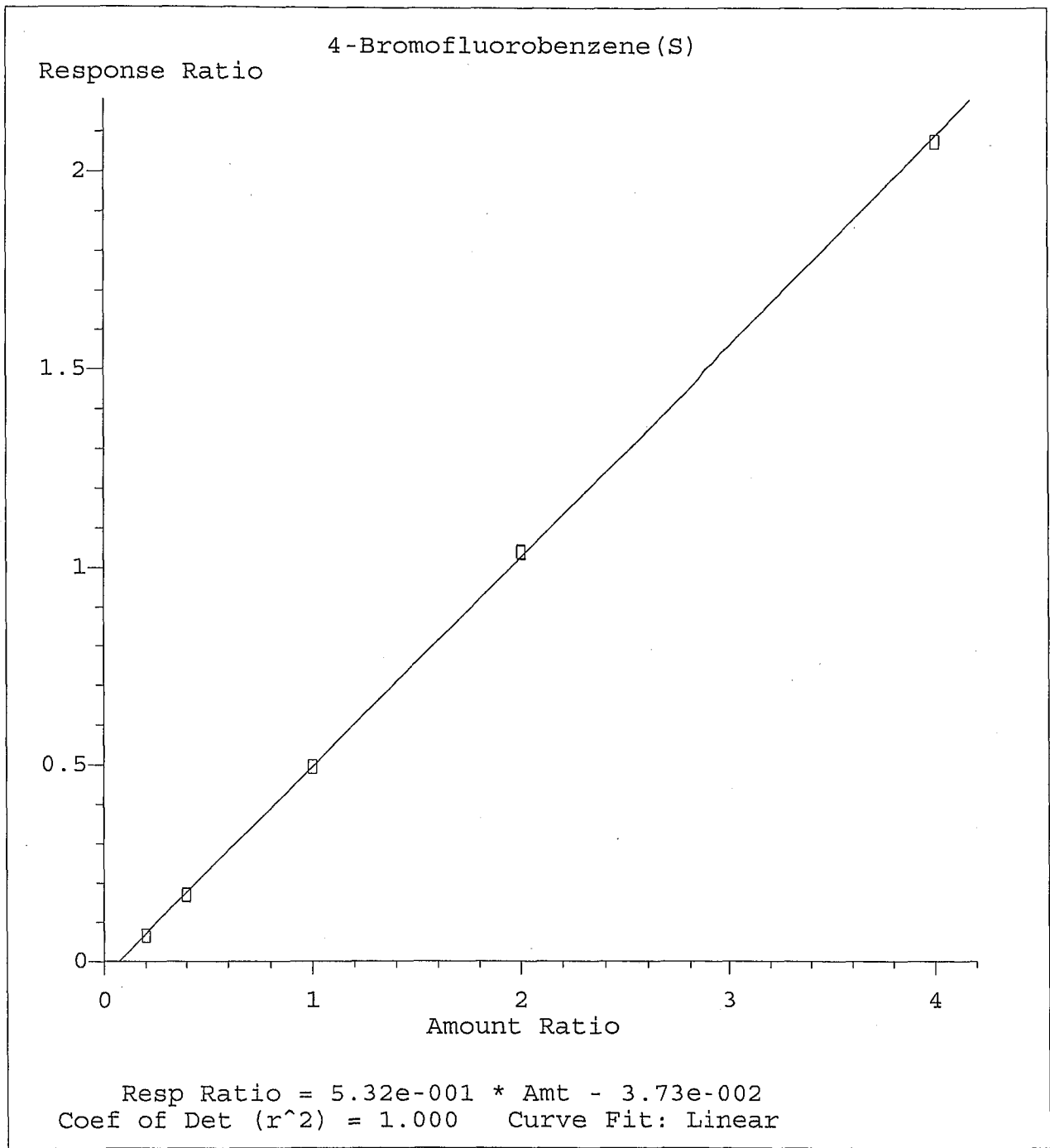




Method Name: M:\ZEUS\DATA\211206\Z120621W.M  
Calibration Table Last Updated: Tue Dec 07 09:28:24 2021



Method Name: M:\ZEUS\DATA\211206\Z120621W.M  
Calibration Table Last Updated: Tue Dec 07 09:28:24 2021



Method Name: M:\ZEUS\DATA\211206\Z120621W.M  
Calibration Table Last Updated: Tue Dec 07 09:28:24 2021

VOLATILE ORGANIC ANALYSIS  
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.  
Case No: \_\_\_\_\_  
Matrix: WATER

SDG No: \_\_\_\_\_  
Date Analyzed: 12/6/2021  
Instrument: Zeus  
Initial Cal. Date: 12/6/2021  
Data File: 1206Z27.D

		Compound	MEAN	CCRF	%D	%Drift	
1	TM	Dichlorodifluoromethane	0.1414	0.1463	3.4	TM	
2	TML	Freon 114	0.1242	0.1419	14	TML	44 *HIGH
3	TM**L	Chloromethane	0.1209	0.1270	5.0	TM**L	34 *HIGH
4	TM*	Vinyl chloride	0.1210	0.1301	7.6	TM*	
5		Butane	0.0000	0.0922	0.00		
6	TML	Bromomethane	0.0684	0.0507	26	TML	59 *HIGH
7	TMQ	Chloroethane	0.0237	0.0184	22	TMQ	8.8
8	TML	Dichlorofluoromethane	0.2548	0.2678	5.1	TML	25
9	TM	Trichlorofluoromethane	0.2153	0.2233	3.7	TM	
10	TML	Pentane	0.0000	0.0002	0.00	TML	
11	TML	Diethyl ether	0.0143	0.0169	18	TML	12
12	TML	1,2 Dichlorotrifluoroethane	0.2548	0.1561	39	TML	36 *LOW
13	TM	Acrolein	0.0065	0.0069	4.9	TM	
14	TM	Acetone	0.0184	0.0185	0.62	TM	
15	TM	Freon-113	0.0653	0.0688	5.3	TM	
16	TM*	1,1-DCE	0.1656	0.1861	12	TM*	
17	TMQ	Acetonitrile	0.0031	0.0025	18	TMQ	20
18	TM	t-Butanol	0.0024	0.0025	3.9	TM	
19	TML	Methyl Acetate	0.0491	0.0522	6.3	TML	14
20	TML	Iodomethane	0.0919	0.0904	1.6	TML	4.7
21	TML	Acrylonitrile	0.0222	0.0274	24	TML	13
22	TML	Methylene chloride	0.1328	0.1351	1.7	TML	20
23	TML	Carbon disulfide	0.2318	0.2724	18	TML	51 *HIGH
24	TM	Methyl t-butyl ether (MtBE)	0.2509	0.2852	14	TM	
25	TM	Trans-1,2-DCE	0.1657	0.1877	13	TM	
26	TML	Hexane	0.2248	0.2336	3.9	TML	7.7
27	TM	Diisopropyl Ether	0.2271	0.2589	14	TM	
28	TM**L	2,2-Dichloro-1,1,1-trifluoroethane	0.0121	0.0143	19	TM**L	20
29	TM**	1,1-DCA	0.2153	0.2323	7.9	TM**	
30	TM	Vinyl Acetate	0.1803	0.1866	3.5	TM	
31	TM	Ethyl tert Butyl Ether	0.2495	0.2859	15	TM	
32	TML	MEK (2-Butanone)	0.0081	0.0091	13	TML	3.6
33	TM	Cis-1,2-DCE	0.1892	0.2093	11	TM	
34	TM	2,2-Dichloropropane	0.1949	0.2098	7.6	TM	
35	TML	2-Methylpentane	0.0845	0.0809	4.3	TML	11
36	TML	3-Methylpentane	0.2100	0.2279	8.5	TML	4.5
37	TM*	Chloroform	0.2387	0.2600	8.9	TM*	
38	TM	Bromochloromethane	0.0758	0.0863	14	TM	
39	TM	1,1,1-TCA	0.2124	0.2430	14	TM	
40	TML	Cyclohexane	0.2074	0.2346	13	TML	18
Average					10.6		

VOLATILE ORGANIC ANALYSIS  
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.  
Case No: \_\_\_\_\_  
Matrix: WATER

SDG No: \_\_\_\_\_  
Date Analyzed: 12/6/2021  
Instrument: Zeus  
Cal. Date: 12/6/2021  
Data File: 1206Z27.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	1,1-Dichloropropene	0.1762	0.2046	16	TM
42	TM	2,2,4-Trimethylpentane	0.4015	0.4263	6.2	TM
43	TM	Carbon Tetrachloride	0.1824	0.2117	16	TM
44	TM	Tert Amyl Methyl Ether	0.2802	0.3102	11	TM
45	TML	Methylcyclopentane	0.2248	0.2336	3.9	TML 7.7
46	TM	1,2-DCA	0.1373	0.1510	10	TM
47	TM	Benzene	0.5930	0.6713	13	TM
48	TM	TCE	0.1825	0.2140	17	TM
49	TM	2-Pentanone	0.0434	0.0445	2.6	TM
50	TM*	1,2-Dichloropropane	0.1298	0.1501	16	TM*
51	TM	Bromodichloromethane	0.1572	0.1765	12	TM
52	TM	Methyl Cyclohexane	0.2532	0.2875	14	TM
53	TML	Dibromomethane	0.0976	0.1103	13	TML 15
54	TML	MIBK (methyl isobutyl ketone)	0.0598	0.0648	8.5	TML 1.7
55	TML	1-Bromo-2-chloroethane	0.0174	0.0256	47	TML 14
56	TML	2-Chloroethyl vinyl ether	0.0335	0.0371	11	TML 1.8
57	TM	Cis-1,3-Dichloropropene	0.2051	0.2344	14	TM
58	TM*	Toluene	0.7246	0.7870	8.6	TM*
59	TM	Trans-1,3-Dichloropropene	0.1703	0.1922	13	TM
60	TM	1,1,2-TCA	0.1165	0.1247	7.0	TM
61	TML	2-Hexanone	0.0268	0.0297	11	TML 0.80
62	TML	1,2-EDB	0.1174	0.1378	17	TML 5.8
63	TML	Tetrachloroethene	0.2340	0.2647	13	TML 16
64	TML	1-Chlorohexane	0.2680	0.3061	14	TML 15
65	TML	1,1,1,2-Tetrachloroethane	0.1490	0.1720	15	TML 2.4
66	TM	m&p-Xylene	0.7020	0.7968	13	TM
67	TM	o-Xylene	0.7126	0.7915	11	TM
68	TML	Styrene	0.4969	0.5655	14	TML 6.2
69	TM	1,3-Dichloropropane	0.2176	0.2433	12	TM
70	TML	Dibromochloromethane	0.1224	0.1440	18	TML 1.1
71	TM**	Chlorobenzene	0.5565	0.6128	10	TM**
72	TM*	Ethylbenzene	1.405	1.594	13	TM*
73	TM**L	Bromoform	0.0695	0.0824	19	TM**L 4.5
74	TM	Isopropylbenzene	2.738	3.217	18	TM
75	TM**L	1,1,2,2-Tetrachloroethane	0.3849	0.4355	13	TM**L 1.5
76	TML	1,2,3-Trichloropropane	0.1246	0.1654	33	TML 11
77	TML	t-1,4-Dichloro-2-Butene	0.0794	0.1253	58	TML 19
78	TML	Bromobenzene	0.9290	1.044	12	TML 14
79	TM	n-Propylbenzene	3.250	3.744	15	TM
80	TM	4-Ethyltoluene	2.767	3.284	19	TM
Average					15.2	

VOLATILE ORGANIC ANALYSIS  
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.  
Case No: \_\_\_\_\_  
Matrix: WATER

SDG No: \_\_\_\_\_  
Date Analyzed: 12/6/2021  
Instrument: Zeus  
Cal. Date: 12/6/2021  
Data File: 1206Z27.D

		Compound	MEAN	CCRF	%D	%Drift
81	TML	2-Chlorotoluene	2.140	2.438	14	TML 15
82	TM	1,3,5-Trimethylbenzene	2.234	2.662	19	TM
83	TM	4-Chlorotoluene	2.140	2.438	14	TM
84	TM	Tert-Butylbenzene	2.133	2.432	14	TM
85	TM	1,2,4-Trimethylbenzene	2.121	2.550	20	TM
86	TM	Sec-Butylbenzene	3.027	3.513	16	TM
87	TM	p-Isopropyltoluene	2.133	2.432	14	TM
88	TML	Benzyl Chloride	0.8670	0.8126	6.3	TML 13
89	TM	1,3-DCB	1.346	1.545	15	TM
90	TM	1,4-DCB	1.383	1.564	13	TM
91	TM	n-Butylbenzene	2.168	2.554	18	TM
92	TM	1,2-DCB	1.214	1.386	14	TM
93	TML	Hexachloroethane	0.3085	0.3641	18	TML 3.1
94	TML	1,2-Dibromo-3-chloropropane	0.0698	0.0917	31	TML 5.9
95	TM	1,2,4-Trichlorobenzene	0.9484	1.095	15	TM
96	TML	Hexachlorobutadiene	0.4430	0.5142	16	TML 11
97	TM	Naphthalene	1.568	1.791	14	TM
98	TML	1,2,3-Trichlorobenzene	0.7135	0.8228	15	TML 11
99						
100						
101						
102						
103						
104						
105						
106						
107						
108						
109						
110						
111						
112						
113						
114						
115						
116						
117						
118						
119						
120						
Average					15.9	

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z27.D  
 Acq On : 06 Dec 21 19:48  
 Sample : (SS) 10ug/L VOC STD 12/6/21  
 Misc :

Vial: 12  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 9:28 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:28:24 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	6.09	96	412017	25.000	ppb	0.00
68) Chlorobenzene-D5 (IS)	9.58	117	360860	25.000	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	119576	25.000	ppb	0.00
<b>System Monitoring Compounds</b>						
43) Dibromofluoromethane (S)	5.23	111	101579	26.089	ppb	0.00
Spiked Amount	25.000		Recovery	=	104.356%	
48) 1,2-DCA-D4 (S)	5.65	65	84274	27.354	ppb	0.00
Spiked Amount	25.000		Recovery	=	109.416%	
69) Toluene-D8 (S)	7.98	98	451444	25.876	ppb	0.00
Spiked Amount	25.000		Recovery	=	103.504%	
77) 4-Bromofluorobenzene (S)	10.88	95	185281	25.891	ppb	0.00
Spiked Amount	25.000		Recovery	=	103.564%	
<b>Target Compounds</b>						
3) Dichlorodifluoromethane	0.99	85	24106	10.342	ppb	94
4) Freon 114	1.09	85	23392	14.419	ppb	98
5) Chloromethane	1.13	50	20928	13.189	ppb	98
6) Vinyl chloride	1.20	62	21449	10.756	ppb	100
9) Bromomethane	1.45	94	8357	15.943	ppb	89
10) Chloroethane	1.53	66	3039	10.883	ppb	91
11) Dichlorofluoromethane	1.71	67	44101	11.768	ppb	99
12) Trichlorofluoromethane	1.74	101	36800	10.373	ppb	100
14) Diethyl ether	2.64	74	2792	11.198	ppb	99
15) 1,2 Dichlorotrifluoroethan	2.03	67	25726	6.385	ppb	98
16) Acrolein	2.13	55	14150	131.114	ppb	98
17) Acetone	2.28	43	15257	50.309	ppb	98
18) Freon-113	2.22	101	11336	10.529	ppb	99
19) 1,1-DCE	2.20	61	30674	11.239	ppb	97
21) Acetonitrile	2.57	40	5201	150.342	ppb	90
22) t-Butanol	2.94	59	5139	129.894	ppb	99
23) Methyl Acetate	2.64	43	8603	11.378	ppb	94
24) Iodomethane	2.34	142	14903	10.469	ppb	98
25) Acrylonitrile	3.04	52	4518	11.263	ppb	97
26) Methylene chloride	2.72	49	22271	11.994	ppb	99
27) Carbon disulfide	2.38	76	44896	15.077	ppb	99
28) Methyl t-butyl ether (MtBE)	3.07	73	47000	11.365	ppb	93
29) Trans-1,2-DCE	3.04	61	30938	11.328	ppb	98
30) Hexane	4.30	56	38499	9.232	ppb	# 100
31) Diisopropyl Ether	3.79	45	42675	11.401	ppb	94
32) 2,2-Dichloro-1,1,1-trifluo	1.71	83	2364	11.951	ppb	96
33) 1,1-DCA	3.61	63	38284	10.788	ppb	96

(#) = qualifier out of range (376 of 507) manual integration



Data File : M:\ZEUS\DATA\211206\1206Z27.D  
 Acq On : 06 Dec 21 19:48  
 Sample : (SS) 10ug/L VOC STD 12/6/21  
 Misc :

Vial: 12  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 9:28 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:28:24 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
34) Vinyl Acetate	3.77	43	30758	10.350	ppb	# 92
35) Ethyl tert Butyl Ether	4.37	59	47116	11.457	ppb	90
36) MEK (2-Butanone)	4.61	72	7509	48.208	ppb	90
37) Cis-1,2-DCE	4.51	61	34502	11.065	ppb	97
38) 2,2-Dichloropropane	4.49	77	34579	10.765	ppb	96
39) 2-Methylpentane	2.74	42	13331	8.854	ppb	99
40) 3-Methylpentane	3.03	57	37556	9.546	ppb	93
41) Chloroform	5.01	83	42844	10.891	ppb	92
42) Bromochloromethane	4.85	49	14223	11.388	ppb	98
44) 1,1,1-TCA	5.21	97	40051	11.443	ppb	98
45) Cyclohexane	5.25	56	38657	11.813	ppb	99
46) 1,1-Dichloropropene	5.44	75	33727	11.615	ppb	96
47) 2,2,4-Trimethylpentane	5.84	57	70264	10.618	ppb	100
49) Carbon Tetrachloride	5.42	117	34888	11.609	ppb	99
50) Tert Amyl Methyl Ether	5.92	73	51123	11.072	ppb	98
51) Methylcyclopentane	4.30	56	38499	9.232	ppb	92
52) 1,2-DCA	5.75	62	24888	11.001	ppb	97
53) Benzene	5.70	78	110628	11.320	ppb	99
54) TCE	6.54	130	35275	11.728	ppb	97
55) 2-Pentanone	6.84	43	91719	128.206	ppb	99
56) 1,2-Dichloropropane	6.81	63	24742	11.570	ppb	99
57) Bromodichloromethane	7.17	83	29081	11.227	ppb	95
58) Methyl Cyclohexane	6.74	83	47375	11.354	ppb	98
59) Dibromomethane	6.95	174	18185	11.470	ppb	95
60) MIBK (methyl isobutyl ket	7.92	43	53431	49.129	ppb	99
61) 1-Bromo-2-chloroethane	7.50	144	4227	11.418	ppb	94
62) 2-Chloroethyl vinyl ether	7.57	43	30579	50.918	ppb	95
63) Cis-1,3-Dichloropropene	7.70	75	38628	11.427	ppb	97
64) Toluene	8.05	91	129695	10.860	ppb	99
65) Trans-1,3-Dichloropropene	8.35	75	31677	11.288	ppb	97
66) 1,1,2-TCA	8.54	97	20556	10.703	ppb	97
67) 2-Hexanone	8.85	58	24485	50.402	ppb	96
70) 1,2-EDB	9.06	107	19889	10.583	ppb	96
71) Tetrachloroethene	8.65	166	38202	11.552	ppb	99
72) 1-Chlorohexane	9.62	91	44180	11.472	ppb	97
73) 1,1,1,2-Tetrachloroethane	9.72	131	24829	10.239	ppb	99
74) m&p-Xylene	9.88	91	230016	22.700	ppb	99
75) o-Xylene	10.31	91	114244	11.106	ppb	99
76) Styrene	10.33	104	81627	10.616	ppb	100
78) 1,3-Dichloropropane	8.72	76	35115	11.182	ppb	95
79) Dibromochloromethane	8.96	129	20791	10.108	ppb	94
80) Chlorobenzene	9.62	112	88449	11.010	ppb	97

Data File : M:\ZEUS\DATA\211206\1206Z27.D  
 Acq On : 06 Dec 21 19:48  
 Sample : (SS) 10ug/L VOC STD 12/6/21  
 Misc :

Vial: 12  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 9:28 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:28:24 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
81) Ethylbenzene	9.88	91	230016	11.343	ppb	99
82) Bromoform	10.52	173	11890	9.545	ppb	100
84) Isopropylbenzene	10.73	105	153887	11.751	ppb	98
85) 1,1,2,2-Tetrachloroethane	11.07	83	20829	10.148	ppb	97
86) 1,2,3-Trichloropropane	11.10	110	7909	11.099	ppb	# 88
87) t-1,4-Dichloro-2-Butene	11.13	53	5991	11.865	ppb	97
88) Bromobenzene	11.03	77	49922	11.409	ppb	96
89) n-Propylbenzene	11.18	91	179069	11.520	ppb	99
90) 4-Ethyltoluene	11.30	105	157057	11.866	ppb	98
91) 2-Chlorotoluene	11.37	91	116604	11.480	ppb	98
92) 1,3,5-Trimethylbenzene	11.37	105	127340	11.917	ppb	99
93) 4-Chlorotoluene	11.37	91	116604	11.392	ppb	98
94) Tert-Butylbenzene	11.73	119	116338	11.405	ppb	97
95) 1,2,4-Trimethylbenzene	11.78	105	121955	12.020	ppb	98
96) Sec-Butylbenzene	11.96	105	168046	11.608	ppb	100
97) p-Isopropyltoluene	11.73	119	116338	11.405	ppb	99
98) Benzyl Chloride	12.33	91	38865	8.677	ppb	99
99) 1,3-DCB	12.07	146	73901	11.478	ppb	96
100) 1,4-DCB	12.17	146	74821	11.314	ppb	99
101) n-Butylbenzene	12.57	91	122176	11.780	ppb	99
102) 1,2-DCB	12.57	146	66279	11.413	ppb	97
103) Hexachloroethane	12.85	201	17417	9.686	ppb	93
104) 1,2-Dibromo-3-chloropropan	13.44	157	4388	10.593	ppb	# 81
105) 1,2,4-Trichlorobenzene	13.65	180	52376	11.546	ppb	99
106) Hexachlorobutadiene	14.52	225	24594	11.069	ppb	96
107) Naphthalene	14.60	128	85684	11.428	ppb	98
108) 1,2,3-Trichlorobenzene	14.86	180	39355	11.149	ppb	100



VOLATILE ORGANIC ANALYSIS  
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.  
Case No: \_\_\_\_\_  
Matrix: Water

SDG No: \_\_\_\_\_  
Date Analyzed: 12/7/2021  
Instrument: Zeus  
Initial Cal. Date: 12/6/2021  
Data File: 1207Z02.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	Fluorobenzene (IS)	ISTD			I
2	TM	Dichlorodifluoromethane	0.1414	0.1337	5.4	TM
3	TML	Freon 114	0.1242	0.1103	11	TML 10
4	TM**L	Chloromethane	0.1251	0.0991	21	TM**L 0.95
5	TM*	Vinyl chloride	0.1210	0.1077	11	TM*
6		Butane	0.0000	0.1039	0.00	
7	TML	Bromomethane	0.0684	0.0361	47	TML 5.6
8	TMQ	Chloroethane	0.0237	0.0149	37	TMQ 17
9	TML	Dichlorofluoromethane	0.2641	0.2073	22	TML 10
10	TM	Trichlorofluoromethane	0.2153	0.2148	0.23	TM
11	TML	Pentane	0.0000	0.0004	0.00	TML
12	TML	Diethyl ether	0.0143	0.0146	1.9	TML 2.7
13	TML	1,2 Dichlorotrifluoroethane	0.2548	0.1576	38	TML 35 *NT
14	TM	Acrolein	0.0065	0.0066	1.1	TM
15	TM	Acetone	0.0184	0.0208	13	TM
16	TM	Freon-113	0.0653	0.0668	2.2	TM
17	TM*	1,1-DCE	0.1656	0.1611	2.7	TM*
18	TMQ	Acetonitrile	0.0031	0.0023	24	TMQ 3.9
19	TM	t-Butanol	0.0024	0.0028	15	TM
20	TML	Methyl Acetate	0.0491	0.0475	3.3	TML 3.5
21	TML	Iodomethane	0.0919	0.0712	23	TML 19
22	TML	Acrylonitrile	0.0222	0.0253	14	TML 3.3
23	TML	Methylene chloride	0.1328	0.1226	7.7	TML 7.7
24	TML	Carbon disulfide	0.2318	0.1839	21	TML 2.4
25	TM	Methyl t-butyl ether (MtBE)	0.2509	0.2622	4.5	TM
26	TM	Trans-1,2-DCE	0.1657	0.1555	6.2	TM
27	TML	Hexane	0.2248	0.2675	19	TML 5.9
28	TM	Diisopropyl Ether	0.2271	0.2383	4.9	TM
29	TM**L	2,2-Dichloro-1,1,1-trifluoroethane	0.0121	0.0116	4.4	TM**L 6.5
30	TM**	1,1-DCA	0.2153	0.2098	2.6	TM**
31	TM	Vinyl Acetate	0.1803	0.1918	6.4	TM
32	TM	Ethyl tert Butyl Ether	0.2495	0.2618	4.9	TM
33	TML	MEK (2-Butanone)	0.0081	0.0103	28	TML 7.6
34	TM	Cis-1,2-DCE	0.1892	0.1857	1.8	TM
35	TM	2,2-Dichloropropane	0.1949	0.2011	3.2	TM
36	TML	2-Methylpentane	0.0845	0.0961	14	TML 5.5
37	TML	3-Methylpentane	0.2100	0.2499	19	TML 4.6
38	TM*	Chloroform	0.2387	0.2354	1.4	TM*
39	TM	Bromochloromethane	0.0758	0.0754	0.51	TM
40	SL	Dibromofluoromethane(S)	0.2216	0.2360	6.5	SL 0.02
Average					11.5	

VOLATILE ORGANIC ANALYSIS  
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.  
Case No: \_\_\_\_\_  
Matrix: Water

SDG No: \_\_\_\_\_  
Date Analyzed: 12/7/2021  
Instrument: Zeus  
Cal. Date: 12/6/2021  
Data File: 1207Z02.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	1,1,1-TCA	0.2124	0.2216	4.4	TM
42	TML	Cyclohexane	0.2074	0.2070	0.19	TML 4.3
43	TM	1,1-Dichloropropene	0.1762	0.1799	2.1	TM
44	TM	2,2,4-Trimethylpentane	0.4015	0.4164	3.7	TM
45	S	1,2-DCA-D4(S)	0.1869	0.2072	11	S
46	TM	Carbon Tetrachloride	0.1824	0.1911	4.8	TM
47	TM	Tert Amyl Methyl Ether	0.2802	0.2826	0.87	TM
48	TML	Methylcyclopentane	0.2248	0.2675	19	TML 5.9
49	TM	1,2-DCA	0.1373	0.1367	0.43	TM
50	TM	Benzene	0.5930	0.5772	2.7	TM
51	TM	TCE	0.1825	0.1840	0.84	TM
52	TM	2-Pentanone	0.0434	0.0474	9.2	TM
53	TM*	1,2-Dichloropropane	0.1298	0.1336	2.9	TM*
54	TM	Bromodichloromethane	0.1572	0.1599	1.7	TM
55	TM	Methyl Cyclohexane	0.2532	0.2576	1.7	TM
56	TML	Dibromomethane	0.0976	0.0945	3.1	TML 2.2
57	TML	MIBK (methyl isobutyl ketone)	0.0598	0.0759	27	TML 14
58	TML	1-Bromo-2-chloroethane	0.0174	0.0224	29	TML 0.06
59	TML	2-Chloroethyl vinyl ether	0.0335	0.0383	14	TML 4.9
60	TM	Cis-1,3-Dichloropropene	0.2051	0.2105	2.6	TM
61	TM*	Toluene	0.7246	0.7029	3.0	TM*
62	TM	Trans-1,3-Dichloropropene	0.1703	0.1724	1.3	TM
63	TM	1,1,2-TCA	0.1165	0.1157	0.75	TM
64	TML	2-Hexanone	0.0268	0.0347	29	TML 16
65	I	Chlorobenzene-D5 (IS)	ISTD			I
66	SL	Toluene-D8(S)	1.104	1.247	13	SL 3.2
67	TML	1,2-EDB	0.1174	0.1244	6.0	TML 4.0
68	TML	Tetrachloroethene	0.2340	0.2320	0.86	TML 0.98
69	TML	1-Chlorohexane	0.2680	0.2834	5.8	TML 6.0
70	TML	1,1,1,2-Tetrachloroethane	0.1490	0.1570	5.4	TML 5.9
71	TM	m&p-Xylene	0.7020	0.7233	3.0	TM
72	TM	o-Xylene	0.7126	0.7148	0.30	TM
73	TML	Styrene	0.4969	0.5090	2.4	TML 4.1
74	SL	4-Bromofluorobenzene(S)	0.4508	0.5099	13	SL 2.9
75	TM	1,3-Dichloropropane	0.2176	0.2244	3.1	TM
76	TML	Dibromochloromethane	0.1224	0.1278	4.4	TML 9.3
77	TM**	Chlorobenzene	0.5565	0.5467	1.8	TM**
78	TM*	Ethylbenzene	1.405	1.447	3.0	TM*
79	TM**L	Bromoform	0.0695	0.0741	6.7	TM**L 13
80	I	1,4-Dichlorobenzene-D (IS)	ISTD			I

Average

6.4

VOLATILE ORGANIC ANALYSIS  
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.  
Case No: \_\_\_\_\_  
Matrix: Water

SDG No: \_\_\_\_\_  
Date Analyzed: 12/7/2021  
Instrument: Zeus  
Cal. Date: 12/6/2021  
Data File: 1207Z02.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Isopropylbenzene	2.738	2.885	5.4	TM
82	TM**L	1,1,2,2-Tetrachloroethane	0.3849	0.4154	7.9	TM**L 2.9
83	TML	1,2,3-Trichloropropane	0.1246	0.1514	21	TML 2.0
84	TML	t-1,4-Dichloro-2-Butene	0.0794	0.1057	33	TML 1.2
85	TML	Bromobenzene	0.9290	0.9470	1.9	TML 3.5
86	TM	n-Propylbenzene	3.250	3.424	5.4	TM
87	TM	4-Ethyltoluene	2.767	2.921	5.6	TM
88	TML	2-Chlorotoluene	2.140	2.214	3.5	TML 4.1
89	TM	1,3,5-Trimethylbenzene	2.234	2.365	5.9	TM
90	TM	4-Chlorotoluene	2.140	2.214	3.5	TM
91	TM	Tert-Butylbenzene	2.133	2.220	4.1	TM
92	TM	1,2,4-Trimethylbenzene	2.121	2.277	7.4	TM
93	TM	Sec-Butylbenzene	3.027	3.254	7.5	TM
94	TM	p-Isopropyltoluene	2.133	2.220	4.1	TM
95	TML	Benzyl Chloride	0.8670	0.9023	4.1	TML 4.8
96	TM	1,3-DCB	1.346	1.375	2.1	TM
97	TM	1,4-DCB	1.383	1.378	0.31	TM
98	TM	n-Butylbenzene	2.168	2.362	8.9	TM
99	TM	1,2-DCB	1.214	1.239	2.0	TM
100	TML	Hexachloroethane	0.3085	0.3268	6.0	TML 11
101	TML	1,2-Dibromo-3-chloropropane	0.0698	0.0805	15	TML 5.2
102	TM	1,2,4-Trichlorobenzene	0.9484	0.9584	1.1	TM
103	TML	Hexachlorobutadiene	0.4430	0.4593	3.7	TML 0.77
104	TM	Naphthalene	1.568	1.596	1.8	TM
105	TML	1,2,3-Trichlorobenzene	0.7135	0.7368	3.3	TML 0.23
106						
107						
108						
109						
110						
111						
112						
113						
114						
115						
116						
117						
118						
119						
120						

Average

6.6

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z02.D  
 Acq On : 07 Dec 21 15:30  
 Sample : 211207A CCV 10ug/L  
 Misc :

Vial: 2  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 8:39 2021

Quant Results File: Z120621W.RI

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:28:24 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	419379	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	9.58	117	367662	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	124264	25.00	ppb	0.00
<b>System Monitoring Compounds</b>						
43) Dibromofluoromethane (S)	5.23	111	98990	25.00	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.016%	
48) 1,2-DCA-D4 (S)	5.65	65	86896	27.71	ppb	0.00
Spiked Amount	25.000		Recovery	=	110.840%	
69) Toluene-D8 (S)	7.98	98	458429	25.80	ppb	0.00
Spiked Amount	25.000		Recovery	=	103.180%	
77) 4-Bromofluorobenzene (S)	10.88	95	187468	25.72	ppb	0.00
Spiked Amount	25.000		Recovery	=	102.896%	
<b>Target Compounds</b>						
3) Dichlorodifluoromethane	1.00	85	22436	9.46	ppb	97
4) Freon 114	1.09	85	18496	11.04	ppb	91
5) Chloromethane	1.13	50	16624	10.09	ppb	98
6) Vinyl chloride	1.20	62	18073	8.90	ppb	99
9) Bromomethane	1.45	94	6056	10.56	ppb	85
10) Chloroethane	1.53	66	2501	8.29	ppb	90
11) Dichlorofluoromethane	1.71	67	34780	9.00	ppb	95
12) Trichlorofluoromethane	1.74	101	36028	9.98	ppb	99
14) Diethyl ether	2.64	74	2447	9.73	ppb	99
15) 1,2 Dichlorotrifluoroethan	2.03	67	26431	6.46	ppb	98
16) Acrolein	2.13	55	13882	126.37	ppb	97
17) Acetone	2.28	43	17434	56.48	ppb	98
18) Freon-113	2.22	101	11203	10.22	ppb	99
19) 1,1-DCE	2.20	61	27030	9.73	ppb	96
21) Acetonitrile	2.58	40	4871	120.09	ppb	99
22) t-Butanol	2.95	59	5773	143.36	ppb	# 92
23) Methyl Acetate	2.64	43	7971	10.35	ppb	98
24) Iodomethane	2.34	142	11940	8.06	ppb	97
25) Acrylonitrile	3.04	52	4242	10.33	ppb	95
26) Methylene chloride	2.72	49	20570	10.77	ppb	94
27) Carbon disulfide	2.39	76	30848	9.76	ppb	99
28) Methyl t-butyl ether (MtBE)	3.07	73	43981	10.45	ppb	98
29) Trans-1,2-DCE	3.04	61	26077	9.38	ppb	98
30) Hexane	4.30	56	44869	10.59	ppb	# 100
31) Diisopropyl Ether	3.79	45	39968	10.49	ppb	98
32) 2,2-Dichloro-1,1,1-trifluo	1.71	83	1941	9.35	ppb	92
33) 1,1-DCA	3.61	63	35197	9.74	ppb	98

(#) = qualifier out of range (m) = manual integration  
 1207Z02.D Z120621W.M Wed Dec 08 08:41:57 2021

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z02.D  
 Acq On : 07 Dec 21 15:30  
 Sample : 211207A CCV 10ug/L  
 Misc :

Vial: 2  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 8:39 2021

Quant Results File: Z120621W.RF

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:28:24 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
34) Vinyl Acetate	3.78	43	32177	10.64	ppb	# 93
35) Ethyl tert Butyl Ether	4.37	59	43920	10.49	ppb	97
36) MEK (2-Butanone)	4.61	72	8672	53.82	ppb	84
37) Cis-1,2-DCE	4.52	61	31157	9.82	ppb	94
38) 2,2-Dichloropropane	4.49	77	33736	10.32	ppb	98
39) 2-Methylpentane	2.74	42	16120	10.55	ppb	99
40) 3-Methylpentane	3.04	57	41914	10.46	ppb	94
41) Chloroform	5.01	83	39482	9.86	ppb	95
42) Bromochloromethane	4.85	49	12648	9.95	ppb	92
44) 1,1,1-TCA	5.20	97	37182	10.44	ppb	98
45) Cyclohexane	5.25	56	34731	10.43	ppb	97
46) 1,1-Dichloropropene	5.44	75	30179	10.21	ppb	97
47) 2,2,4-Trimethylpentane	5.83	57	69847	10.37	ppb	99
49) Carbon Tetrachloride	5.42	117	32052	10.48	ppb	95
50) Tert Amyl Methyl Ether	5.92	73	47404	10.09	ppb	97
51) Methylcyclopentane	4.30	56	44869	10.59	ppb	96
52) 1,2-DCA	5.75	62	22927	9.96	ppb	98
53) Benzene	5.70	78	96818	9.73	ppb	96
54) TCE	6.54	130	30872	10.08	ppb	99
55) 2-Pentanone	6.84	43	99400	136.50	ppb	98
56) 1,2-Dichloropropane	6.82	63	22405	10.29	ppb	96
57) Bromodichloromethane	7.17	83	26826	10.17	ppb	91
58) Methyl Cyclohexane	6.74	83	43206	10.17	ppb	96
59) Dibromomethane	6.95	174	15860	9.78	ppb	96
60) MIBK (methyl isobutyl ket	7.91	43	63691	56.82	ppb	100
61) 1-Bromo-2-chloroethane	7.50	144	3761	10.01	ppb	97
62) 2-Chloroethyl vinyl ether	7.57	43	32135	52.43	ppb	94
63) Cis-1,3-Dichloropropene	7.69	75	35317	10.26	ppb	96
64) Toluene	8.05	91	117911	9.70	ppb	98
65) Trans-1,3-Dichloropropene	8.34	75	28926	10.13	ppb	96
66) 1,1,2-TCA	8.54	97	19403	9.92	ppb	98
67) 2-Hexanone	8.86	58	29071	58.15	ppb	96
70) 1,2-EDB	9.06	107	18301	9.60	ppb	91
71) Tetrachloroethene	8.66	166	34118	10.10	ppb	99
72) 1-Chlorohexane	9.62	91	41679	10.60	ppb	95
73) 1,1,1,2-Tetrachloroethane	9.72	131	23096	9.41	ppb	98
74) m&p-Xylene	9.88	91	212739	20.61	ppb	99
75) o-Xylene	10.31	91	105121	10.03	ppb	99
76) Styrene	10.33	104	74850	9.59	ppb	98
78) 1,3-Dichloropropane	8.72	76	33001	10.31	ppb	98
79) Dibromochloromethane	8.96	129	18792	9.07	ppb	99
80) Chlorobenzene	9.61	112	80395	9.82	ppb	96



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z02.D  
 Acq On : 07 Dec 21 15:30  
 Sample : 211207A CCV 10ug/L  
 Misc :

Vial: 2  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 8:39 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:28:24 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
81) Ethylbenzene	9.88	91	212741	10.30	ppb	99
82) Bromoform	10.52	173	10903	8.73	ppb	96
84) Isopropylbenzene	10.73	105	143410	10.54	ppb	99
85) 1,1,2,2-Tetrachloroethane	11.07	83	20646	9.71	ppb	100
86) 1,2,3-Trichloropropane	11.11	110	7526	10.20	ppb	90
87) t-1,4-Dichloro-2-Butene	11.13	53	5252	10.12	ppb	95
88) Bromobenzene	11.03	77	47070	10.35	ppb	95
89) n-Propylbenzene	11.18	91	170216	10.54	ppb	100
90) 4-Ethyltoluene	11.30	105	145202	10.56	ppb	100
91) 2-Chlorotoluene	11.37	91	110048	10.41	ppb	99
92) 1,3,5-Trimethylbenzene	11.37	105	117547	10.59	ppb	97
93) 4-Chlorotoluene	11.37	91	110048	10.35	ppb	99
94) Tert-Butylbenzene	11.73	119	110363	10.41	ppb	96
95) 1,2,4-Trimethylbenzene	11.78	105	113185	10.74	ppb	97
96) Sec-Butylbenzene	11.96	105	161718	10.75	ppb	98
97) p-Isopropyltoluene	11.73	119	110363	10.41	ppb	97
98) Benzyl Chloride	12.33	91	44849	9.52	ppb	98
99) 1,3-DCB	12.07	146	68347	10.21	ppb	99
100) 1,4-DCB	12.17	146	68508	9.97	ppb	98
101) n-Butylbenzene	12.57	91	117406	10.89	ppb	99
102) 1,2-DCB	12.57	146	61576	10.20	ppb	98
103) Hexachloroethane	12.85	201	16245	8.85	ppb	94
104) 1,2-Dibromo-3-chloropropan	13.43	157	4001	9.48	ppb	91
105) 1,2,4-Trichlorobenzene	13.65	180	47638	10.11	ppb	100
106) Hexachlorobutadiene	14.52	225	22828	9.92	ppb	94
107) Naphthalene	14.60	128	79322	10.18	ppb	95
108) 1,2,3-Trichlorobenzene	14.86	180	36621	10.02	ppb	98



VOLATILE ORGANIC ANALYSIS  
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.  
Case No: \_\_\_\_\_  
Matrix: Water

SDG No: \_\_\_\_\_  
Date Analyzed: 12/8/2021  
Instrument: Zeus  
Initial Cal. Date: 12/6/2021  
Data File: 1207Z30.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	Fluorobenzene (IS)	ISTD			I
2	TM	Dichlorodifluoromethane	0.1414	0.1439	1.8	TM
3	TML	Freon 114	0.1242	0.1305	5.1	TML 32
4	TM**L	Chloromethane	0.1251	0.1148	8.2	TM**L 18
5	TM*	Vinyl chloride	0.1210	0.1110	8.2	TM*
6		Butane	0.0000	0.0954	0.00	
7	TML	Bromomethane	0.0684	0.0381	44	TML 13
8	TMQ	Chloroethane	0.0237	0.0168	29	TMQ 3.3
9	TML	Dichlorofluoromethane	0.2641	0.2573	2.6	TML 13
10	TM	Trichlorofluoromethane	0.2153	0.2280	5.9	TM
11	TML	Pentane	0.0000	0.0001	0.00	TML
12	TML	Diethyl ether	0.0143	0.0134	6.5	TML 10
13	TML	1,2 Dichlorotrifluoroethane	0.2548	0.1688	34	TML 29
14	TM	Acrolein	0.0065	0.0055	15	TM
15	TM	Acetone	0.0184	0.0191	3.7	TM
16	TM	Freon-113	0.0653	0.0673	3.1	TM
17	TM*	1,1-DCE	0.1656	0.1677	1.3	TM*
18	TML	2-Propanol	0.0000	0.0000	0.00	TML
19	TMQ	Acetonitrile	0.0031	0.0025	18	TMQ 19
20	TM	t-Butanol	0.0024	0.0022	6.6	TM
21	TML	Methyl Acetate	0.0491	0.0433	12	TML 5.8
22	TML	Iodomethane	0.0919	0.0919	0.07	TML 6.6
23	TML	Acrylonitrile	0.0222	0.0225	1.5	TML 8.8
24	TML	Methylene chloride	0.1328	0.1295	2.5	TML 14
25	TML	Carbon disulfide	0.2318	0.1914	17	TML 2.1
26	TM	Methyl t-butyl ether (MtBE)	0.2509	0.2369	5.6	TM
27	TM	Trans-1,2-DCE	0.1657	0.1643	0.86	TM
28	TML	Hexane	0.2248	0.2464	9.6	TML 2.6
29	TM	Diisopropyl Ether	0.2271	0.2300	1.3	TM
30	TM**L	2,2-Dichloro-1,1,1-trifluoroethane	0.0121	0.0144	19	TM**L 20
31	TM**	1,1-DCA	0.2153	0.2239	4.0	TM**
32	TM	Vinyl Acetate	0.1803	0.1424	21	TM
33	TM	Ethyl tert Butyl Ether	0.2495	0.2450	1.8	TM
34	TML	MEK (2-Butanone)	0.0081	0.0088	8.1	TML 6.9
35	TM	Cis-1,2-DCE	0.1892	0.1908	0.84	TM
36	TM	2,2-Dichloropropane	0.1949	0.1808	7.3	TM
37	TML	2-Methylpentane	0.0845	0.0895	5.9	TML 1.9
38	TML	3-Methylpentane	0.2100	0.2268	8.0	TML 5.0
39	TM*	Chloroform	0.2387	0.2478	3.8	TM*
40	TM	Bromochloromethane	0.0758	0.0775	2.3	TM
Average					8.3	

VOLATILE ORGANIC ANALYSIS  
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.  
Case No: \_\_\_\_\_  
Matrix: Water

SDG No: \_\_\_\_\_  
Date Analyzed: 12/8/2021  
Instrument: Zeus  
Cal. Date: 12/6/2021  
Data File: 1207Z30.D

		Compound	MEAN	CCRF	%D		%Drift
41	SL	Dibromofluoromethane(S)	0.2216	0.2409	8.7	SL	2.0
42	TM	1,1,1-TCA	0.2124	0.2293	8.0	TM	
43	TML	Cyclohexane	0.2074	0.2061	0.65	TML	3.8
44	TM	1,1-Dichloropropene	0.1762	0.1790	1.6	TM	
45	TM	2,2,4-Trimethylpentane	0.4015	0.3862	3.8	TM	
46	S	1,2-DCA-D4(S)	0.1869	0.1960	4.8	S	
47	TM	Carbon Tetrachloride	0.1824	0.1987	9.0	TM	
48	TM	Tert Amyl Methyl Ether	0.2802	0.2599	7.2	TM	
49	TML	Methylcyclopentane	0.2248	0.2464	9.6	TML	2.6
50	TM	1,2-DCA	0.1373	0.1340	2.3	TM	
51	TM	Benzene	0.5930	0.5804	2.1	TM	
52	TM	TCE	0.1825	0.1901	4.1	TM	
53	TM	2-Pentanone	0.0434	0.0398	8.2	TM	
54	TM*	1,2-Dichloropropane	0.1298	0.1321	1.8	TM*	
55	TM	Bromodichloromethane	0.1572	0.1577	0.34	TM	
56	TM	Methyl Cyclohexane	0.2532	0.2538	0.26	TM	
57	TML	Dibromomethane	0.0976	0.0943	3.4	TML	2.5
58	TML	MIBK (methyl isobutyl ketone)	0.0598	0.0653	9.2	TML	1.2
59	TML	1-Bromo-2-chloroethane	0.0174	0.0211	21	TML	5.9
60	TML	2-Chloroethyl vinyl ether	0.0335	0.0334	0.43	TML	7.5
61	TM	Cis-1,3-Dichloropropene	0.2051	0.1955	4.7	TM	
62	TM*	Toluene	0.7246	0.7142	1.4	TM*	
63	TM	Trans-1,3-Dichloropropene	0.1703	0.1591	6.5	TM	
64	TM	1,1,2-TCA	0.1165	0.1094	6.1	TM	
65	TML	2-Hexanone	0.0268	0.0295	9.9	TML	0.05
66	I	Chlorobenzene-D5 (IS)	ISTD			I	
67	SL	Toluene-D8(S)	1.104	1.180	6.8	SL	2.0
68	TML	1,2-EDB	0.1174	0.1131	3.6	TML	12
69	TML	Tetrachloroethene	0.2340	0.2275	2.8	TML	1.0
70	TML	1-Chlorohexane	0.2680	0.2785	3.9	TML	4.1
71	TML	1,1,1,2-Tetrachloroethane	0.1490	0.1514	1.6	TML	9.1
72	TM	m&p-Xylene	0.7020	0.7173	2.2	TM	
73	TM	o-Xylene	0.7126	0.7109	0.24	TM	
74	TML	Styrene	0.4969	0.5056	1.7	TML	4.7
75	SL	4-Bromofluorobenzene(S)	0.4508	0.4874	8.1	SL	1.3
76	TM	1,3-Dichloropropane	0.2176	0.2102	3.4	TM	
77	TML	Dibromochloromethane	0.1224	0.1225	0.08	TML	13
78	TM**	Chlorobenzene	0.5565	0.5509	1.0	TM**	
79	TM*	Ethylbenzene	1.405	1.435	2.1	TM*	
80	TM**L	Bromoform	0.0695	0.0677	2.6	TM**L	19
Average					4.5		

VOLATILE ORGANIC ANALYSIS  
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.

SDG No: \_\_\_\_\_

Case No: \_\_\_\_\_

Date Analyzed: 12/8/2021

Matrix: Water

Instrument: Zeus

Cal. Date: 12/6/2021

Data File: 1207Z30.D

		Compound	MEAN	CCRF	%D	%Drift
81	I	1,4-Dichlorobenzene-D (IS)	ISTD			I
82	TM	Isopropylbenzene	2.738	2.869	4.8	TM
83	TM**L	1,1,2,2-Tetrachloroethane	0.3849	0.3556	7.6	TM**L 16
84	TML	1,2,3-Trichloropropane	0.1246	0.1296	4.0	TML 12
85	TML	t-1,4-Dichloro-2-Butene	0.0794	0.0864	8.8	TML 16
86	TML	Bromobenzene	0.9290	0.9188	1.1	TML 0.42
87	TM	n-Propylbenzene	3.250	3.302	1.6	TM
88	TM	4-Ethyltoluene	2.767	2.834	2.4	TM
89	TML	2-Chlorotoluene	2.140	2.158	0.85	TML 1.5
90	TM	1,3,5-Trimethylbenzene	2.234	2.320	3.8	TM
91	TM	4-Chlorotoluene	2.140	2.158	0.85	TM
92	TM	Tert-Butylbenzene	2.133	2.160	1.3	TM
93	TM	1,2,4-Trimethylbenzene	2.121	2.187	3.1	TM
94	TM	Sec-Butylbenzene	3.027	3.170	4.7	TM
95	TM	p-Isopropyltoluene	2.133	2.160	1.3	TM
96	TML	Benzyl Chloride	0.8670	0.6171	29	TML 32
97	TM	1,3-DCB	1.346	1.330	1.2	TM
98	TM	1,4-DCB	1.383	1.353	2.1	TM
99	TM	n-Butylbenzene	2.168	2.266	4.5	TM
100	TM	1,2-DCB	1.214	1.208	0.47	TM
101	TML	Hexachloroethane	0.3085	0.3225	4.5	TML 12
102	TML	1,2-Dibromo-3-chloropropane	0.0698	0.0698	0.05	TML 16
103	TM	1,2,4-Trichlorobenzene	0.9484	0.9171	3.3	TM
104	TML	Hexachlorobutadiene	0.4430	0.4651	5.0	TML 0.44
105	TM	Naphthalene	1.568	1.456	7.1	TM
106	TML	1,2,3-Trichlorobenzene	0.7135	0.7125	0.15	TML 2.9
107						
108						
109						
110						
111						
112						
113						
114						
115						
116						
117						
118						
119						
120						

Average

4.1

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z30.D  
 Acq On : 08 Dec 21 02:43  
 Sample : Ending CCV 10ug/L 12/7/21  
 Misc :

Vial: 30  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 8:40 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:28:24 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	6.09	96	382625	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	9.58	117	342519	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	117488	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane (S)	5.23	111	92185	25.51	ppb	0.00
Spiked Amount	25.000		Recovery	=	102.036%	
48) 1,2-DCA-D4 (S)	5.65	65	74991	26.21	ppb	0.00
Spiked Amount	25.000		Recovery	=	104.840%	
69) Toluene-D8 (S)	7.98	98	404008	24.49	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.952%	
77) 4-Bromofluorobenzene (S)	10.88	95	166930	24.66	ppb	0.00
Spiked Amount	25.000		Recovery	=	98.660%	
Target Compounds						
3) Dichlorodifluoromethane	1.00	85	22025	10.18	ppb	Qvalue 98
4) Freon 114	1.09	85	19976	13.20	ppb	94
5) Chloromethane	1.13	50	17576	11.84	ppb	97
6) Vinyl chloride	1.20	62	16992	9.18	ppb	99
9) Bromomethane	1.45	94	5824	11.28	ppb	89
10) Chloroethane	1.53	66	2572	9.67	ppb	99
11) Dichlorofluoromethane	1.71	67	39386	11.30	ppb	96
12) Trichlorofluoromethane	1.74	101	34896	10.59	ppb	94
14) Diethyl ether	2.64	74	2048	8.97	ppb	93
15) 1,2 Dichlorotrifluoroethan	2.03	67	25835	7.08	ppb	95
16) Acrolein	2.13	55	10617	105.93	ppb	94
17) Acetone	2.29	43	14604	51.86	ppb	95
18) Freon-113	2.22	101	10306	10.31	ppb	97
19) 1,1-DCE	2.20	61	25666	10.13	ppb	96
21) Acetonitrile	2.57	40	4814	148.55	ppb	93
22) t-Butanol	2.94	59	4288	116.71	ppb	97
23) Methyl Acetate	2.64	43	6623	9.42	ppb	96
24) Iodomethane	2.34	142	14068	10.66	ppb	99
25) Acrylonitrile	3.04	52	3445	9.12	ppb	94
26) Methylene chloride	2.72	49	19818	11.44	ppb	98
27) Carbon disulfide	2.39	76	29288	10.21	ppb	97
28) Methyl t-butyl ether (MtBE)	3.07	73	36254	9.44	ppb	98
29) Trans-1,2-DCE	3.04	61	25145	9.91	ppb	97
30) Hexane	4.31	56	37708	9.74	ppb	# 100
31) Diisopropyl Ether	3.79	45	35198	10.13	ppb	89
32) 2,2-Dichloro-1,1,1-trifluo	1.71	83	2208	12.03	ppb	97
33) 1,1-DCA	3.61	63	34264	10.40	ppb	98

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

Data File : M:\ZEUS\DATA\211206\1207Z30.D  
 Acq On : 08 Dec 21 02:43  
 Sample : Ending CCV 10ug/L 12/7/21  
 Misc :

Vial: 30  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 8:40 2021

Quant Results File: Z120621W.RI

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:28:24 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
34) Vinyl Acetate	3.78	43	21801	7.90	ppb	# 89
35) Ethyl tert Butyl Ether	4.36	59	37499	9.82	ppb	96
36) MEK (2-Butanone)	4.61	72	6700	46.57	ppb	88
37) Cis-1,2-DCE	4.52	61	29200	10.08	ppb	98
38) 2,2-Dichloropropane	4.49	77	27664	9.27	ppb	98
39) 2-Methylpentane	2.74	42	13695	9.81	ppb	93
40) 3-Methylpentane	3.04	57	34707	9.50	ppb	93
41) Chloroform	5.02	83	37923	10.38	ppb	99
42) Bromochloromethane	4.85	49	11867	10.23	ppb	92
44) 1,1,1-TCA	5.21	97	35098	10.80	ppb	99
45) Cyclohexane	5.25	56	31540	10.38	ppb	98
46) 1,1-Dichloropropene	5.44	75	27398	10.16	ppb	95
47) 2,2,4-Trimethylpentane	5.84	57	59110	9.62	ppb	99
49) Carbon Tetrachloride	5.41	117	30416	10.90	ppb	98
50) Tert Amyl Methyl Ether	5.92	73	39781	9.28	ppb	95
51) Methylcyclopentane	4.31	56	37708	9.74	ppb	91
52) 1,2-DCA	5.75	62	20516	9.77	ppb	100
53) Benzene	5.70	78	88829	9.79	ppb	96
54) TCE	6.54	130	29088	10.41	ppb	95
55) 2-Pentanone	6.84	43	76225	114.73	ppb	98
56) 1,2-Dichloropropane	6.81	63	20225	10.18	ppb	99
57) Bromodichloromethane	7.17	83	24136	10.03	ppb	95
58) Methyl Cyclohexane	6.74	83	38851	10.03	ppb	98
59) Dibromomethane	6.95	174	14428	9.75	ppb	97
60) MIBK (methyl isobutyl ket	7.92	43	49945	49.42	ppb	99
61) 1-Bromo-2-chloroethane	7.50	144	3222	9.41	ppb	98
62) 2-Chloroethyl vinyl ether	7.57	43	25546	46.23	ppb	97
63) Cis-1,3-Dichloropropene	7.70	75	29927	9.53	ppb	97
64) Toluene	8.05	91	109308	9.86	ppb	99
65) Trans-1,3-Dichloropropene	8.35	75	24355	9.35	ppb	98
66) 1,1,2-TCA	8.54	97	16741	9.39	ppb	98
67) 2-Hexanone	8.86	58	22555	50.03	ppb	94
70) 1,2-EDB	9.06	107	15497	8.77	ppb	91
71) Tetrachloroethene	8.66	166	31172	9.90	ppb	97
72) 1-Chlorohexane	9.62	91	38153	10.41	ppb	97
73) 1,1,1,2-Tetrachloroethane	9.72	131	20742	9.09	ppb	98
74) m&p-Xylene	9.88	91	196547	20.44	ppb	99
75) o-Xylene	10.31	91	97399	9.98	ppb	100
76) Styrene	10.33	104	69270	9.53	ppb	98
78) 1,3-Dichloropropane	8.71	76	28802	9.66	ppb	97
79) Dibromochloromethane	8.96	129	16778	8.72	ppb	99
80) Chlorobenzene	9.62	112	75477	9.90	ppb	97

(#) = qualifier out of range (m) = manual integration  
 1207Z30.D Z120621W.M Wed Dec 08 08:42:04 2021

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z30.D  
 Acq On : 08 Dec 21 02:43  
 Sample : Ending CCV 10ug/L 12/7/21  
 Misc :

Vial: 30  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 8:40 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:28:24 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
81) Ethylbenzene	9.88	91	196547	10.21	ppb	99
82) Bromoform	10.52	173	9278	8.10	ppb	97
84) Isopropylbenzene	10.73	105	134819	10.48	ppb	99
85) 1,1,2,2-Tetrachloroethane	11.07	83	16711	8.41	ppb	100
86) 1,2,3-Trichloropropane	11.10	110	6090	8.80	ppb	95
87) t-1,4-Dichloro-2-Butene	11.13	53	4062	8.41	ppb	91
88) Bromobenzene	11.03	77	43179	10.04	ppb	93
89) n-Propylbenzene	11.18	91	155176	10.16	ppb	99
90) 4-Ethyltoluene	11.30	105	133167	10.24	ppb	98
91) 2-Chlorotoluene	11.37	91	101424	10.15	ppb	99
92) 1,3,5-Trimethylbenzene	11.37	105	109018	10.38	ppb	99
93) 4-Chlorotoluene	11.37	91	101424	10.09	ppb	99
94) Tert-Butylbenzene	11.73	119	101494	10.13	ppb	95
95) 1,2,4-Trimethylbenzene	11.78	105	102800	10.31	ppb	95
96) Sec-Butylbenzene	11.96	105	148987	10.47	ppb	100
97) p-Isopropyltoluene	11.73	119	101494	10.13	ppb	97
98) Benzyl Chloride	12.33	91	29002	6.84	ppb	98
99) 1,3-DCB	12.07	146	62526	9.88	ppb	98
100) 1,4-DCB	12.17	146	63585	9.79	ppb	99
101) n-Butylbenzene	12.57	91	106477	10.45	ppb	98
102) 1,2-DCB	12.57	146	56789	9.95	ppb	97
103) Hexachloroethane	12.84	201	15155	8.76	ppb	95
104) 1,2-Dibromo-3-chloropropan	13.43	157	3281	8.42	ppb	96
105) 1,2,4-Trichlorobenzene	13.65	180	43100	9.67	ppb	96
106) Hexachlorobutadiene	14.52	225	21856	10.04	ppb	98
107) Naphthalene	14.60	128	68413	9.29	ppb	100
108) 1,2,3-Trichlorobenzene	14.86	180	33482	9.71	ppb	98



Quantitation Report

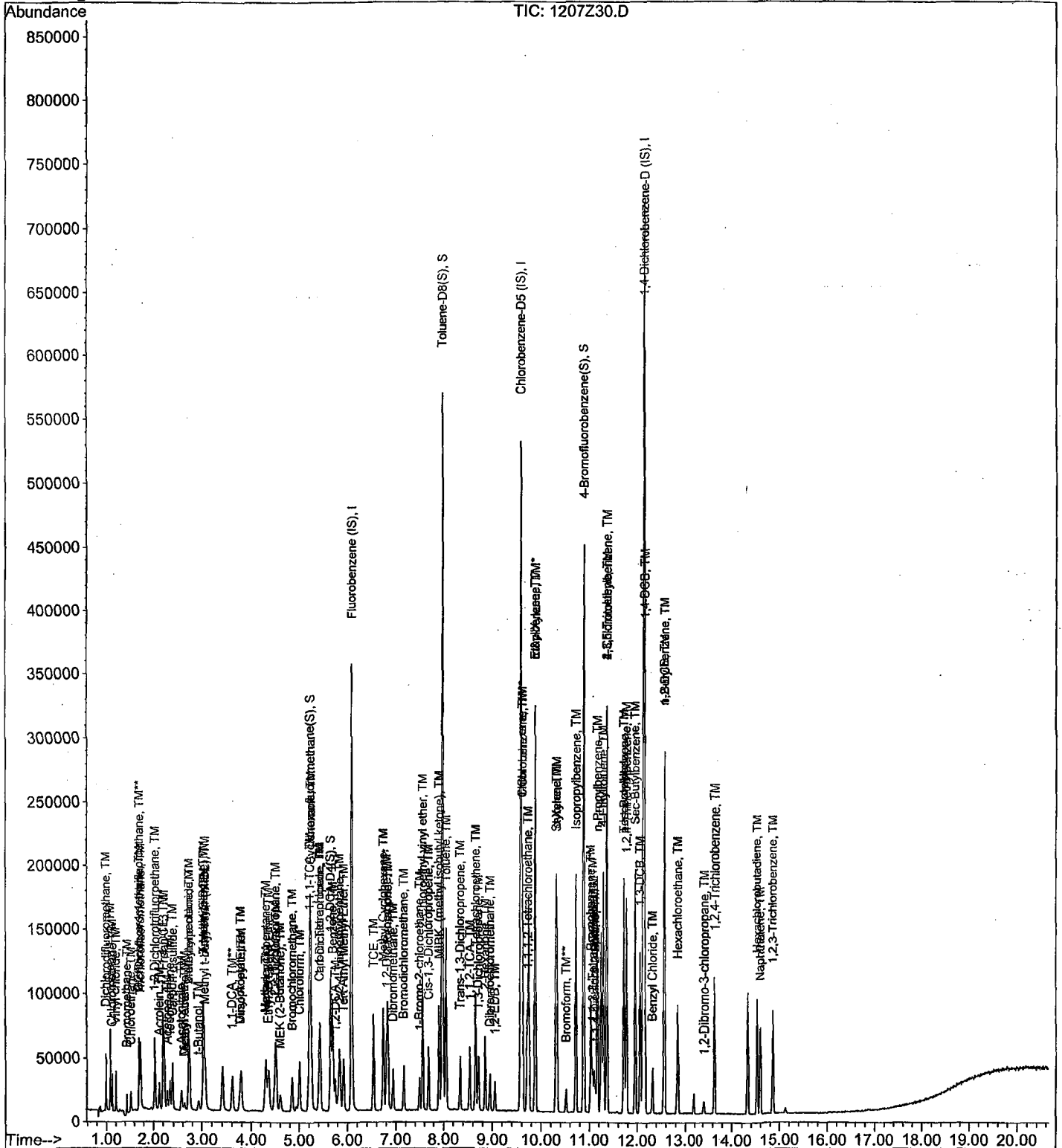
Data File : M:\ZEUS\DATA\211206\1207Z30.D  
 Acq On : 08 Dec 21 02:43  
 Sample : Ending CCV 10ug/L 12/7/21  
 Misc :

Vial: 30  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 8:40 2021

Quant Results File: Z120621W.RF

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:28:24 2021  
 Response via : Initial Calibration



**ORGANICS**  
**Raw Data**

Data File : M:\ZEUS\DATA\211206\1207Z14.D  
 Acq On : 07 Dec 21 20:19  
 Sample : BA46978W02  
 Misc :

Vial: 14  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 10:18 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:28:24 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	6.09	96	356723	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	9.58	117	333299	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	114000	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane (S)	5.23	111	89484	26.53	ppb	0.00
Spiked Amount	25.000		Recovery	=	106.136%	
48) 1,2-DCA-D4 (S)	5.65	65	74808	28.05	ppb	0.00
Spiked Amount	25.000		Recovery	=	112.180%	
69) Toluene-D8 (S)	7.98	98	390662	24.34	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.376%	
77) 4-Bromofluorobenzene (S)	10.88	95	160854	24.44	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.768%	

Target Compounds

Qvalue

Quantitation Report

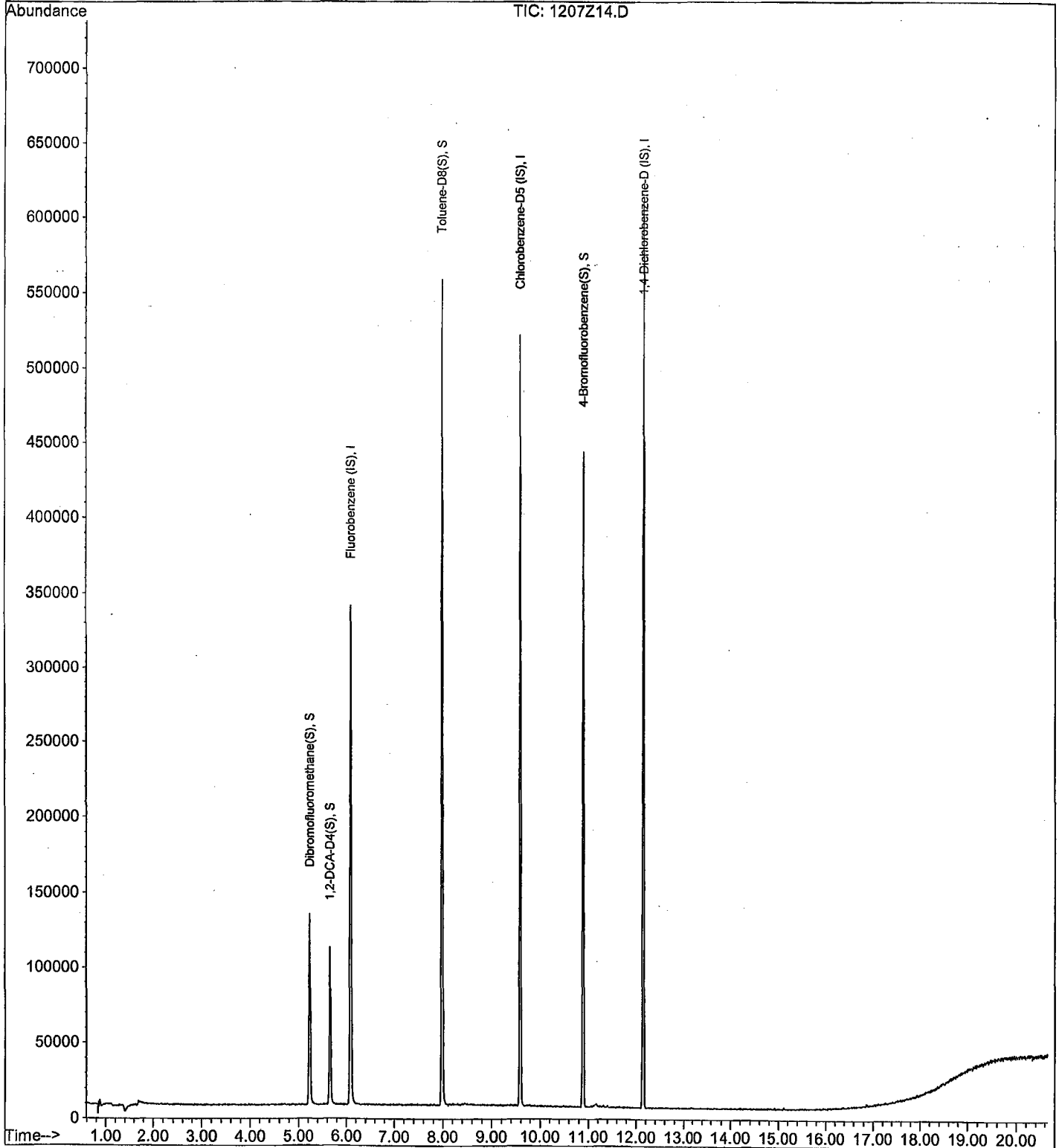
Data File : M:\ZEUS\DATA\211206\1207Z14.D  
Acq On : 07 Dec 21 20:19  
Sample : BA46978W02  
Misc :

Vial: 14  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 8 10:18 2021

Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 09:28:24 2021  
Response via : Initial Calibration



Data File : M:\ZEUS\DATA\211206\1207Z15.D Vial: 15  
 Acq On : 07 Dec 21 20:43 Operator: MH  
 Sample : BA46979W02 Inst : Zeus  
 Misc : Multiplr: 1.00

Quant Time: Dec 8 10:19 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:28:24 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	6.09	96	363636	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	9.58	117	337314	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.15	152	117632	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	5.23	111	88394	25.73	ppb	0.00
Spiked Amount	25.000		Recovery	=	102.928%	
48) 1,2-DCA-D4(S)	5.65	65	74431	27.37	ppb	0.00
Spiked Amount	25.000		Recovery	=	109.492%	
69) Toluene-D8(S)	7.98	98	390863	24.08	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.336%	
77) 4-Bromofluorobenzene(S)	10.88	95	162207	24.36	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.440%	

Target Compounds Qvalue

Quantitation Report

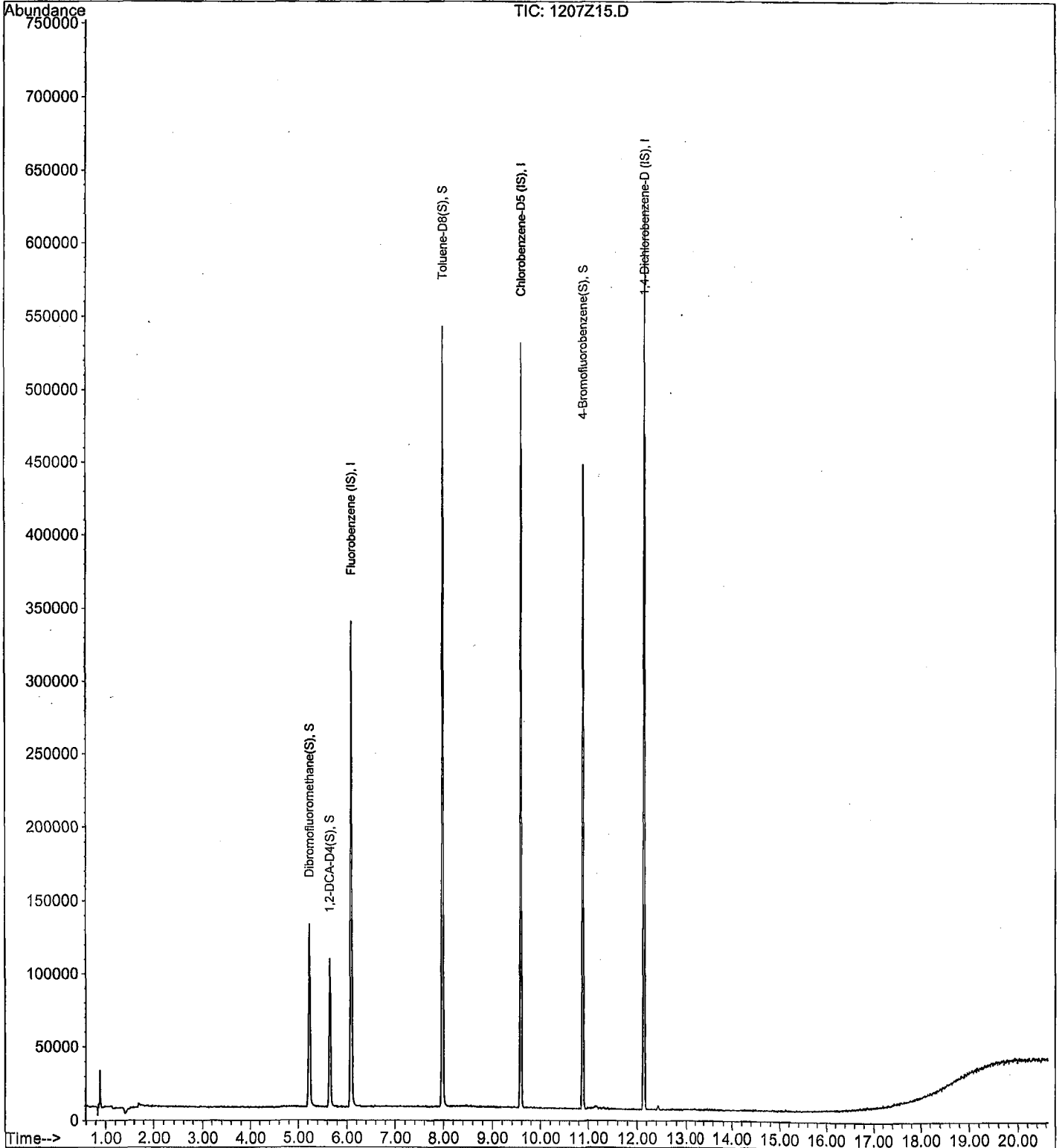
Data File : M:\ZEUS\DATA\211206\1207Z15.D  
Acq On : 07 Dec 21 20:43  
Sample : BA46979W02  
Misc :

Vial: 15  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 8 10:19 2021

Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 09:28:24 2021  
Response via : Initial Calibration



Data File : M:\ZEUS\DATA\211206\1207Z16.D  
 Acq On : 07 Dec 21 21:07  
 Sample : BA46980W03  
 Misc :

Vial: 16  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 10:20 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:28:24 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	352905	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	9.58	117	330640	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.15	152	110600	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane (S)	5.23	111	88281	26.46	ppb	0.00
Spiked Amount	25.000		Recovery	=	105.848%	
48) 1,2-DCA-D4 (S)	5.65	65	72908	27.63	ppb	0.00
Spiked Amount	25.000		Recovery	=	110.512%	
69) Toluene-D8 (S)	7.98	98	384130	24.14	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.572%	
77) 4-Bromofluorobenzene (S)	10.89	95	158051	24.23	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.900%	

Target Compounds

Qvalue

Quantitation Report

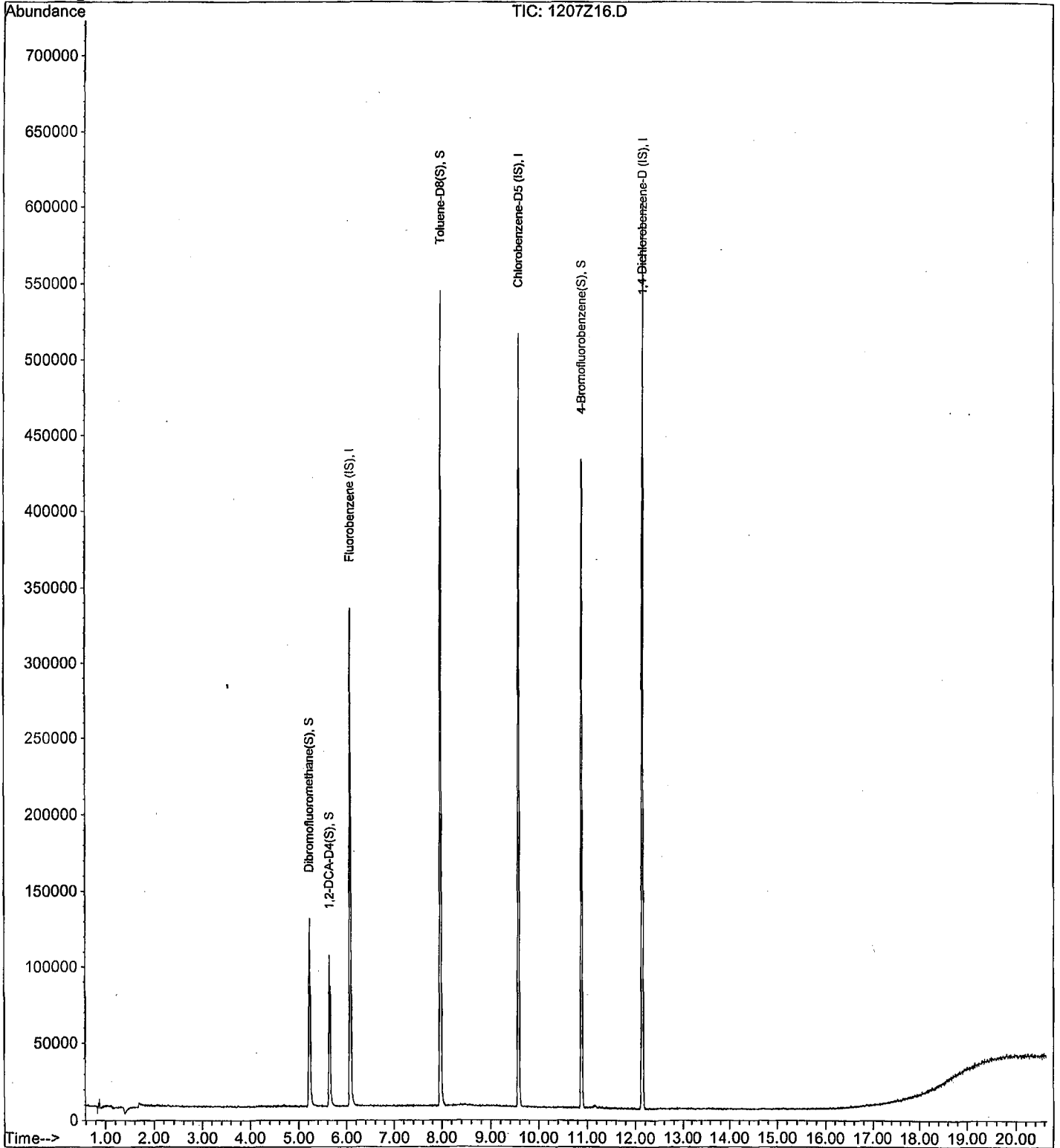
Data File : M:\ZEUS\DATA\211206\1207Z16.D  
Acq On : 07 Dec 21 21:07  
Sample : BA46980W03  
Misc :

Vial: 16  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 8 10:20 2021

Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 09:28:24 2021  
Response via : Initial Calibration





Data File : M:\ZEUS\DATA\211206\1207Z17.D  
 Acq On : 07 Dec 21 21:31  
 Sample : BA46981W02  
 Misc :

Vial: 17  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 10:24 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:28:24 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	6.09	96	353635	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	9.58	117	333416	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	113112	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane (S)	5.23	111	87653	26.23	ppb	0.00
Spiked Amount	25.000		Recovery	=	104.900%	
48) 1,2-DCA-D4 (S)	5.65	65	74657	28.23	ppb	0.00
Spiked Amount	25.000		Recovery	=	112.932%	
69) Toluene-D8 (S)	7.98	98	387276	24.14	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.556%	
77) 4-Bromofluorobenzene (S)	10.88	95	167027	25.30	ppb	0.00
Spiked Amount	25.000		Recovery	=	101.216%	

Target Compounds

Qvalue

Quantitation Report

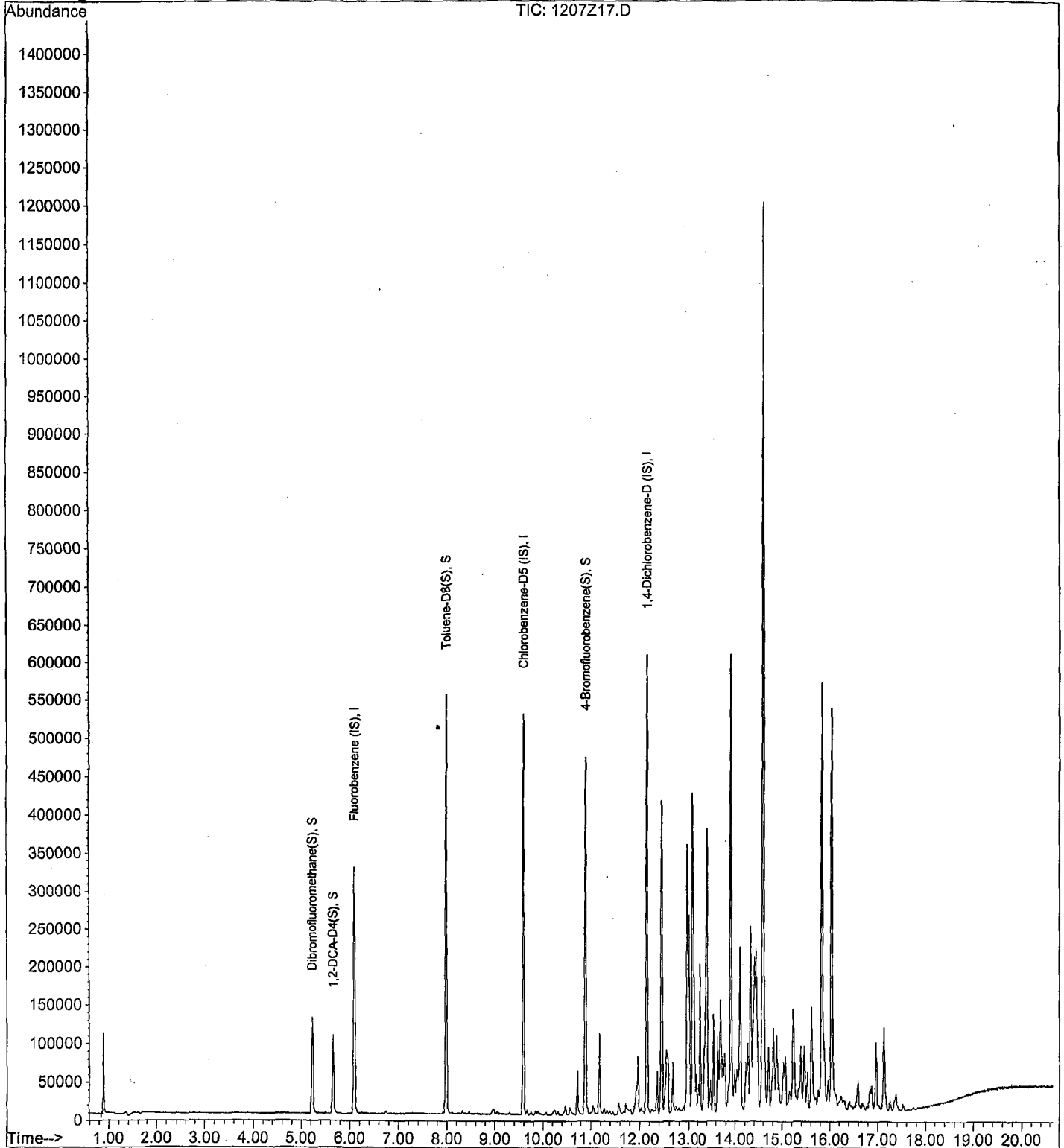
Data File : M:\ZEUS\DATA\211206\1207Z17.D  
Acq On : 07 Dec 21 21:31  
Sample : BA46981W02  
Misc :

Vial: 17  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 8 10:24 2021

Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 09:28:24 2021  
Response via : Initial Calibration



Data File : M:\ZEUS\DATA\211206\1207Z18.D  
 Acq On : 07 Dec 21 21:55  
 Sample : BA46982W02  
 Misc :

Vial: 18  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 10:25 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:28:24 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	6.09	96	373967	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	9.58	117	344217	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.15	152	111144	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane (S)	5.23	111	92166	26.08	ppb	0.00
Spiked Amount						
						Recovery = 104.320%
48) 1,2-DCA-D4 (S)	5.65	65	77609	27.75	ppb	0.00
Spiked Amount						
						Recovery = 111.012%
69) Toluene-D8 (S)	7.98	98	408193	24.61	ppb	0.00
Spiked Amount						
						Recovery = 98.444%
77) 4-Bromofluorobenzene (S)	10.88	95	168003	24.70	ppb	0.00
Spiked Amount						
						Recovery = 98.792%

Target Compounds

Qvalue

Quantitation Report

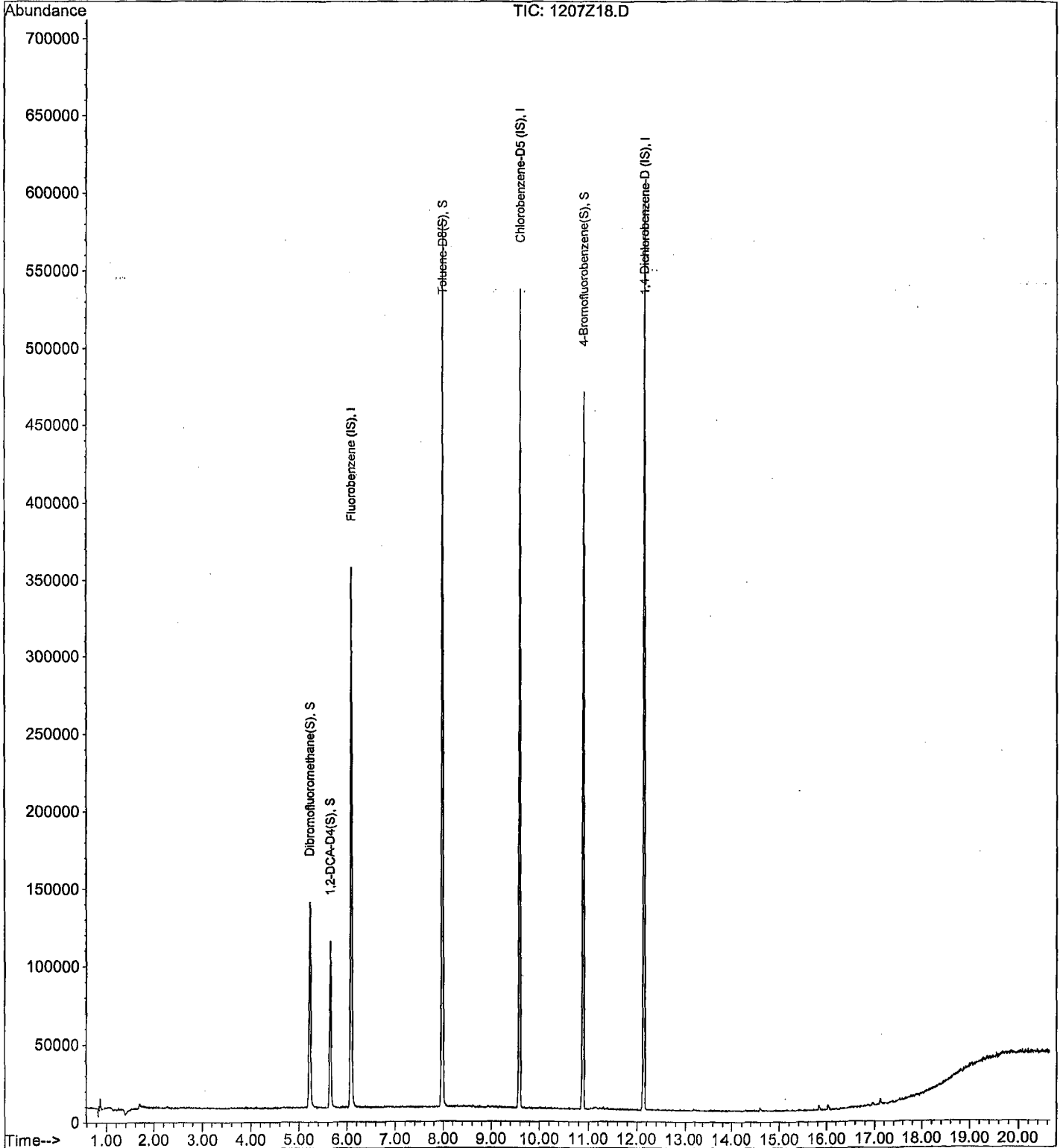
Data File : M:\ZEUS\DATA\211206\1207Z18.D  
Acq On : 07 Dec 21 21:55  
Sample : BA46982W02  
Misc :

Vial: 18  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 8 10:25 2021

Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 09:28:24 2021  
Response via : Initial Calibration



Data File : M:\ZEUS\DATA\211206\1207Z19.D  
 Acq On : 07 Dec 21 22:19  
 Sample : BA46983W02  
 Misc :

Vial: 19  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 10:27 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:28:24 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	6.09	96	377993	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	9.58	117	348377	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	116216	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	5.23	111	94466	26.44	ppb	0.00
Spiked Amount	25.000		Recovery	=	105.748%	
48) 1,2-DCA-D4(S)	5.65	65	78830	27.89	ppb	0.00
Spiked Amount	25.000		Recovery	=	111.560%	
69) Toluene-D8(S)	7.98	98	420590	25.03	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.108%	
77) 4-Bromofluorobenzene(S)	10.89	95	171994	24.96	ppb	0.00
Spiked Amount	25.000		Recovery	=	99.852%	

Target Compounds

Qvalue

Quantitation Report

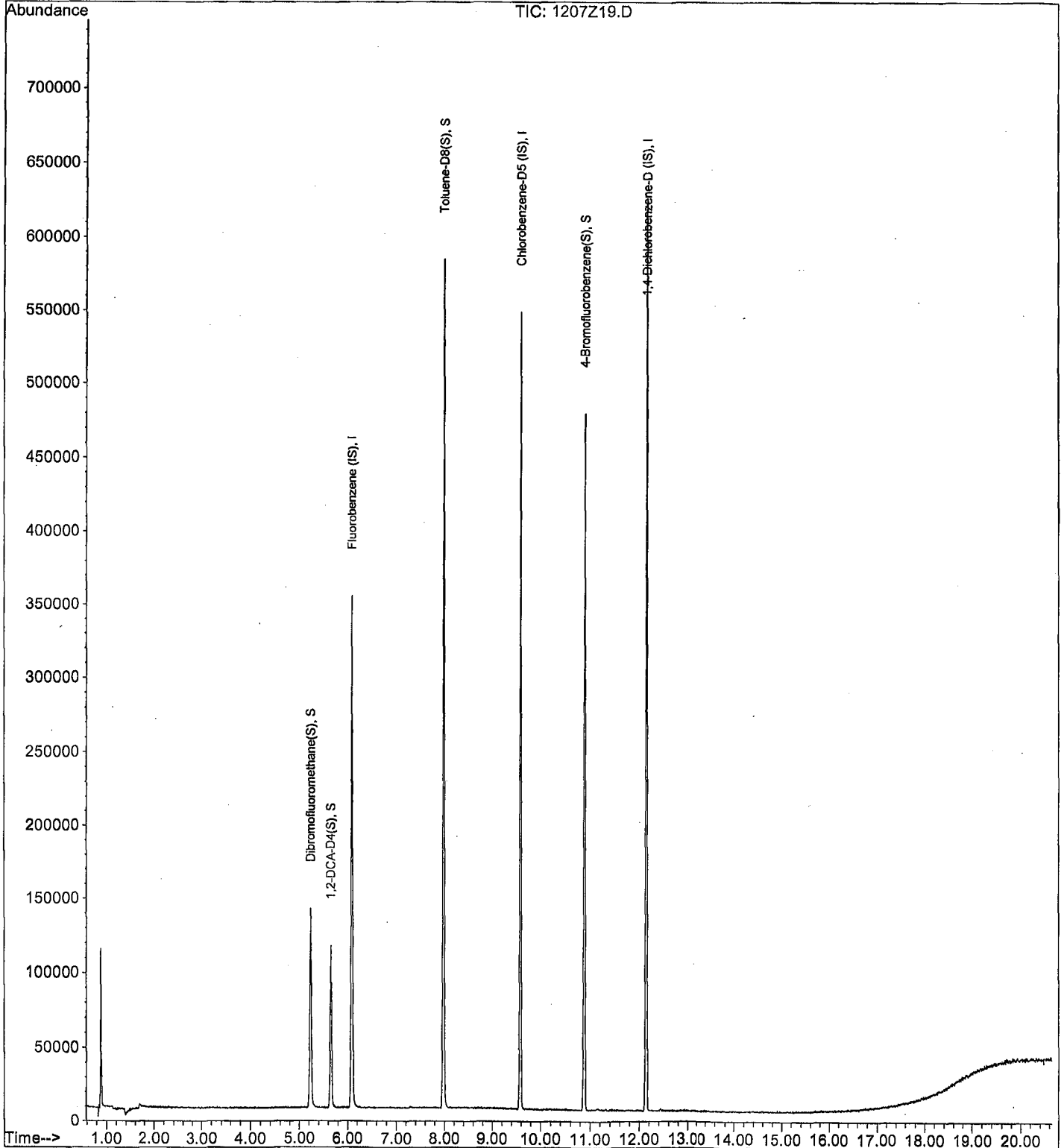
Data File : M:\ZEUS\DATA\211206\1207Z19.D  
Acq On : 07 Dec 21 22:19  
Sample : BA46983W02  
Misc :

Vial: 19  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 8 10:27 2021

Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 09:28:24 2021  
Response via : Initial Calibration



Data File : M:\ZEUS\DATA\211206\1207Z20.D Vial: 20  
 Acq On : 07 Dec 21 22:43 Operator: MH  
 Sample : BA46984W02 Inst : Zeus  
 Misc : Multiplr: 1.00

Quant Time: Dec 8 10:28 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:28:24 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	6.09	96	375908	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	9.58	117	347557	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	117744	25.00	ppb	0.00
<b>System Monitoring Compounds</b>						
43) Dibromofluoromethane (S)	5.23	111	94150	26.49	ppb	0.00
Spiked Amount						
						Recovery = 105.976%
48) 1,2-DCA-D4 (S)	5.66	65	79290	28.21	ppb	0.00
Spiked Amount						
						Recovery = 112.832%
69) Toluene-D8 (S)	7.98	98	416639	24.86	ppb	0.00
Spiked Amount						
						Recovery = 99.444%
77) 4-Bromofluorobenzene (S)	10.88	95	171985	25.02	ppb	0.00
Spiked Amount						
						Recovery = 100.064%

Target Compounds Qvalue

Quantitation Report

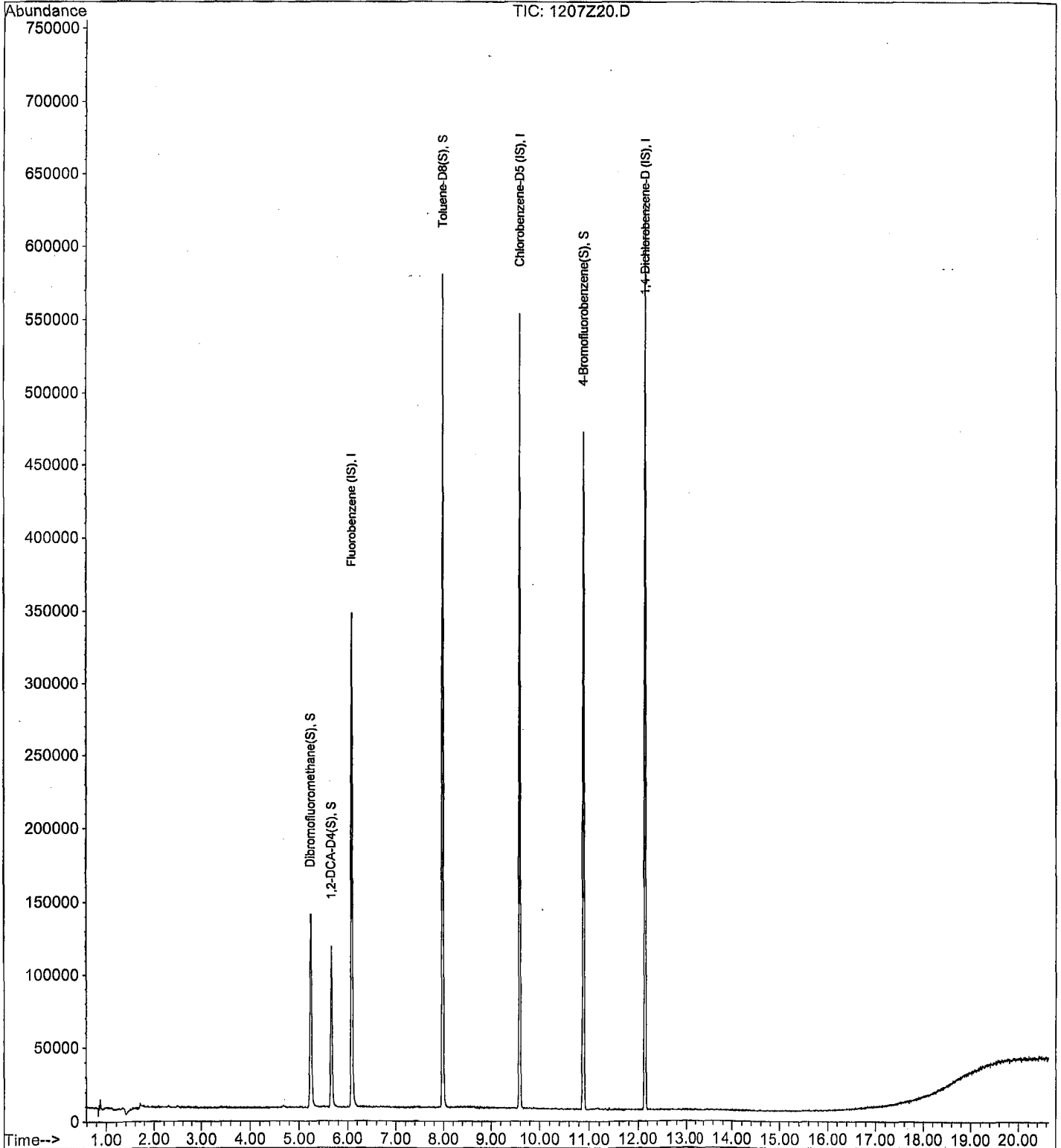
Data File : M:\ZEUS\DATA\211206\1207Z20.D  
Acq On : 07 Dec 21 22:43  
Sample : BA46984W02  
Misc :

Vial: 20  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 8 10:28 2021

Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 09:28:24 2021  
Response via : Initial Calibration





Data File : M:\ZEUS\DATA\211206\1207Z21.D  
 Acq On : 07 Dec 21 23:07  
 Sample : BA46985W02  
 Misc :

Vial: 21  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 10:29 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:28:24 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	346082	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	9.58	117	330128	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	112256	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	5.23	111	90221	27.55	ppb	0.00
Spiked Amount						
						Recovery = 110.204%
48) 1,2-DCA-D4(S)	5.65	65	74379	28.74	ppb	0.00
Spiked Amount						
						Recovery = 114.968%
69) Toluene-D8(S)	7.98	98	394318	24.78	ppb	0.00
Spiked Amount						
						Recovery = 99.108%
77) 4-Bromofluorobenzene(S)	10.89	95	164945	25.24	ppb	0.00
Spiked Amount						
						Recovery = 100.968%

Target Compounds

Qvalue

Quantitation Report

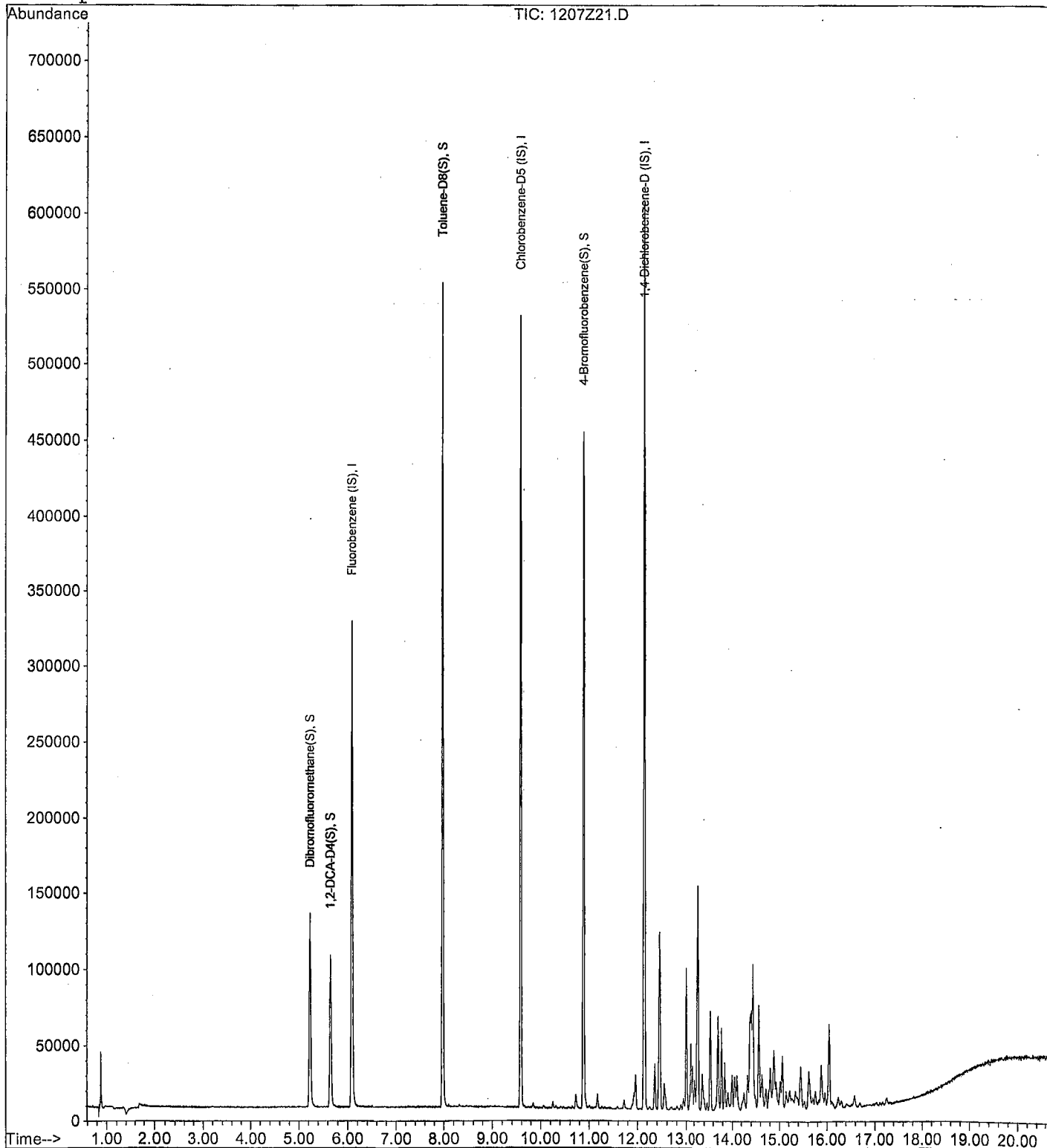
Data File : M:\ZEUS\DATA\211206\1207Z21.D  
Acq On : 07 Dec 21 23:07  
Sample : BA46985W02  
Misc :

Vial: 21  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 8 10:29 2021

Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 09:28:24 2021  
Response via : Initial Calibration



Data File : M:\ZEUS\DATA\211206\1207Z08.D  
 Acq On : 07 Dec 21 17:55  
 Sample : 211207A BLK  
 Misc :

Vial: 8  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 10:12 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:28:24 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	6.09	96	384177	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	9.58	117	351591	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	118712	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane (S)	5.23	111	95522	26.31	ppb	0.00
Spiked Amount	25.000		Recovery	=	105.224%	
48) 1,2-DCA-D4 (S)	5.65	65	80692	28.09	ppb	0.00
Spiked Amount	25.000		Recovery	=	112.356%	
69) Toluene-D8 (S)	7.98	98	424721	25.04	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.164%	
77) 4-Bromofluorobenzene (S)	10.88	95	176479	25.35	ppb	0.00
Spiked Amount	25.000		Recovery	=	101.400%	

Target Compounds

Qvalue

Quantitation Report

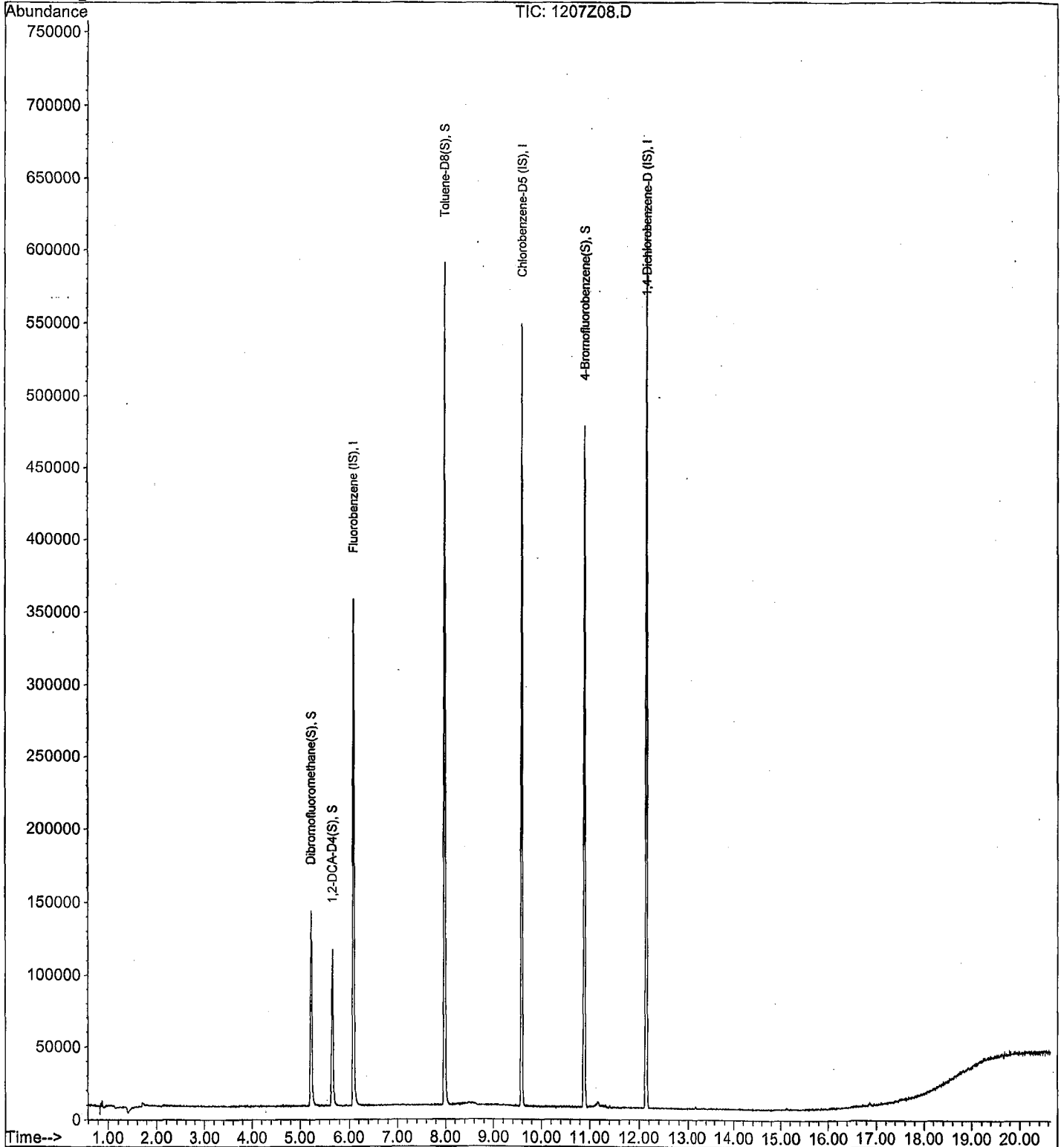
Data File : M:\ZEUS\DATA\211206\1207Z08.D  
Acq On : 07 Dec 21 17:55  
Sample : 211207A BLK  
Misc :

Vial: 8  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 8 10:12 2021

Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 09:28:24 2021  
Response via : Initial Calibration



Data File : M:\ZEUS\DATA\211206\1207Z03.D Vial: 3  
 Acq On : 07 Dec 21 15:54 Operator: MH  
 Sample : 211207A LCS 10ug/L Inst : Zeus  
 Misc : Multiplr: 1.00

Quant Time: Dec 8 8:39 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:28:24 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	424705	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	9.58	117	368999	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	123640	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	5.23	111	99579	24.84	ppb	0.00
Spiked Amount	25.000		Recovery	=	99.364%	
48) 1,2-DCA-D4(S)	5.65	65	86795	27.33	ppb	0.00
Spiked Amount	25.000		Recovery	=	109.320%	
69) Toluene-D8(S)	7.98	98	455151	25.54	ppb	0.00
Spiked Amount	25.000		Recovery	=	102.140%	
77) 4-Bromofluorobenzene(S)	10.89	95	187665	25.66	ppb	0.00
Spiked Amount	25.000		Recovery	=	102.648%	
Target Compounds						
3) Dichlorodifluoromethane	1.00	85	21976	9.15	ppb	99
4) Freon 114	1.09	85	17824	10.47	ppb	97
5) Chloromethane	1.13	50	15740	9.38	ppb	99
6) Vinyl chloride	1.21	62	17673	8.60	ppb	97
9) Bromomethane	1.45	94	6047	10.38	ppb	93
10) Chloroethane	1.53	66	2444	7.91	ppb	91
11) Dichlorofluoromethane	1.71	67	36308	9.29	ppb	100
12) Trichlorofluoromethane	1.74	101	34825	9.52	ppb	99
14) Diethyl ether	2.64	74	2659	10.39	ppb	98
15) 1,2 Dichlorotrifluoroethan	2.04	67	25930	6.19	ppb	97
16) Acrolein	2.13	55	14295	128.50	ppb	92
17) Acetone	2.29	43	17643	56.44	ppb	97
18) Freon-113	2.22	101	10692	9.63	ppb	98
19) 1,1-DCE	2.20	61	25978	9.23	ppb	96
21) Acetonitrile	2.57	40	5221	138.11	ppb	97
22) t-Butanol	2.94	59	5463	133.96	ppb	98
23) Methyl Acetate	2.64	43	7797	10.00	ppb	98
24) Iodomethane	2.34	142	12926	8.68	ppb	97
25) Acrylonitrile	3.04	52	4068	9.75	ppb	97
26) Methylene chloride	2.72	49	19984	10.28	ppb	96
27) Carbon disulfide	2.39	76	30312	9.43	ppb	97
28) Methyl t-butyl ether (MtBE)	3.07	73	43246	10.14	ppb	97
29) Trans-1,2-DCE	3.04	61	26185	9.30	ppb	93
30) Hexane	4.31	56	44021	10.25	ppb	# 99
31) Diisopropyl Ether	3.79	45	39200	10.16	ppb	99
32) 2,2-Dichloro-1,1,1-trifluo	1.71	83	2078	9.97	ppb	95
33) 1,1-DCA	3.61	63	34846	9.53	ppb	98

(#) = qualifier out of range (m) = manual integration  
 1207Z03.D Z120621W.M Wed Dec 08 08:41:59 2021

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z03.D  
 Acq On : 07 Dec 21 15:54  
 Sample : 211207A LCS 10ug/L  
 Misc :

Vial: 3  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 8:39 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:28:24 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
34) Vinyl Acetate	3.78	43	30984	10.11	ppb	# 93
35) Ethyl tert Butyl Ether	4.37	59	43297	10.21	ppb	98
36) MEK (2-Butanone)	4.61	72	8870	54.29	ppb	88
37) Cis-1,2-DCE	4.52	61	31004	9.65	ppb	98
38) 2,2-Dichloropropane	4.50	77	33377	10.08	ppb	98
39) 2-Methylpentane	2.74	42	15788	10.19	ppb	98
40) 3-Methylpentane	3.04	57	40718	10.04	ppb	95
41) Chloroform	5.01	83	38958	9.61	ppb	99
42) Bromochloromethane	4.85	49	12636	9.81	ppb	93
44) 1,1,1-TCA	5.20	97	36406	10.09	ppb	95
45) Cyclohexane	5.25	56	33874	10.04	ppb	94
46) 1,1-Dichloropropene	5.44	75	29974	10.01	ppb	94
47) 2,2,4-Trimethylpentane	5.84	57	67034	9.83	ppb	99
49) Carbon Tetrachloride	5.42	117	31381	10.13	ppb	100
50) Tert Amyl Methyl Ether	5.92	73	46539	9.78	ppb	99
51) Methylcyclopentane	4.31	56	44021	10.25	ppb	97
52) 1,2-DCA	5.76	62	22578	9.68	ppb	94
53) Benzene	5.70	78	95557	9.49	ppb	98
54) TCE	6.55	130	30163	9.73	ppb	98
55) 2-Pentanone	6.84	43	98794	133.97	ppb	99
56) 1,2-Dichloropropane	6.81	63	22295	10.11	ppb	100
57) Bromodichloromethane	7.17	83	26321	9.86	ppb	96
58) Methyl Cyclohexane	6.74	83	42237	9.82	ppb	98
59) Dibromomethane	6.95	174	15739	9.58	ppb	98
60) MIBK (methyl isobutyl ket	7.91	43	63136	55.71	ppb	98
61) 1-Bromo-2-chloroethane	7.50	144	3690	9.70	ppb	92
62) 2-Chloroethyl vinyl ether	7.57	43	31947	51.55	ppb	92
63) Cis-1,3-Dichloropropene	7.70	75	34851	10.00	ppb	98
64) Toluene	8.06	91	115163	9.36	ppb	99
65) Trans-1,3-Dichloropropene	8.35	75	28996	10.02	ppb	99
66) 1,1,2-TCA	8.54	97	19410	9.80	ppb	97
67) 2-Hexanone	8.86	58	28830	57.03	ppb	99
70) 1,2-EDB	9.06	107	17918	9.38	ppb	# 100
71) Tetrachloroethene	8.66	166	33369	9.84	ppb	96
72) 1-Chlorohexane	9.62	91	40237	10.19	ppb	97
73) 1,1,1,2-Tetrachloroethane	9.72	131	22776	9.25	ppb	99
74) m&p-Xylene	9.88	91	207994	20.07	ppb	99
75) o-Xylene	10.31	91	102754	9.77	ppb	99
76) Styrene	10.33	104	72773	9.30	ppb	98
78) 1,3-Dichloropropane	8.72	76	32803	10.22	ppb	100
79) Dibromochloromethane	8.96	129	19137	9.19	ppb	93
80) Chlorobenzene	9.62	112	78709	9.58	ppb	96

(#) = qualifier out of range (m) = manual integration  
 1207Z03.D Z120621W.M Wed Dec 08 08:41:59 2021

Data File : M:\ZEUS\DATA\211206\1207Z03.D  
 Acq On : 07 Dec 21 15:54  
 Sample : 211207A LCS 10ug/L  
 Misc :

Vial: 3  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 8:39 2021

Quant Results File: Z120621W.RI

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:28:24 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
81) Ethylbenzene	9.88	91	207994	10.03	ppb	99
82) Bromoform	10.53	173	10674	8.55	ppb	93
84) Isopropylbenzene	10.73	105	141254	10.43	ppb	100
85) 1,1,2,2-Tetrachloroethane	11.07	83	20681	9.77	ppb	97
86) 1,2,3-Trichloropropane	11.10	110	7581	10.32	ppb	98
87) t-1,4-Dichloro-2-Butene	11.13	53	5067	9.83	ppb	92
88) Bromobenzene	11.03	77	45326	10.02	ppb	96
89) n-Propylbenzene	11.18	91	164970	10.26	ppb	99
90) 4-Ethyltoluene	11.30	105	140876	10.29	ppb	99
91) 2-Chlorotoluene	11.38	91	106915	10.16	ppb	99
92) 1,3,5-Trimethylbenzene	11.37	105	115153	10.42	ppb	99
93) 4-Chlorotoluene	11.38	91	106915	10.10	ppb	99
94) Tert-Butylbenzene	11.72	119	108760	10.31	ppb	97
95) 1,2,4-Trimethylbenzene	11.78	105	110494	10.53	ppb	94
96) Sec-Butylbenzene	11.96	105	155630	10.40	ppb	100
97) p-Isopropyltoluene	11.72	119	108760	10.31	ppb	97
98) Benzyl Chloride	12.33	91	45290	9.64	ppb	98
99) 1,3-DCB	12.07	146	65531	9.84	ppb	98
100) 1,4-DCB	12.17	146	66852	9.78	ppb	98
101) n-Butylbenzene	12.57	91	115498	10.77	ppb	97
102) 1,2-DCB	12.58	146	59720	9.95	ppb	96
103) Hexachloroethane	12.85	201	16340	8.93	ppb	93
104) 1,2-Dibromo-3-chloropropan	13.43	157	4028	9.57	ppb	89
105) 1,2,4-Trichlorobenzene	13.65	180	46837	9.99	ppb	98
106) Hexachlorobutadiene	14.52	225	22493	9.83	ppb	95
107) Naphthalene	14.60	128	79904	10.31	ppb	99
108) 1,2,3-Trichlorobenzene	14.86	180	35763	9.84	ppb	99

Quantitation Report

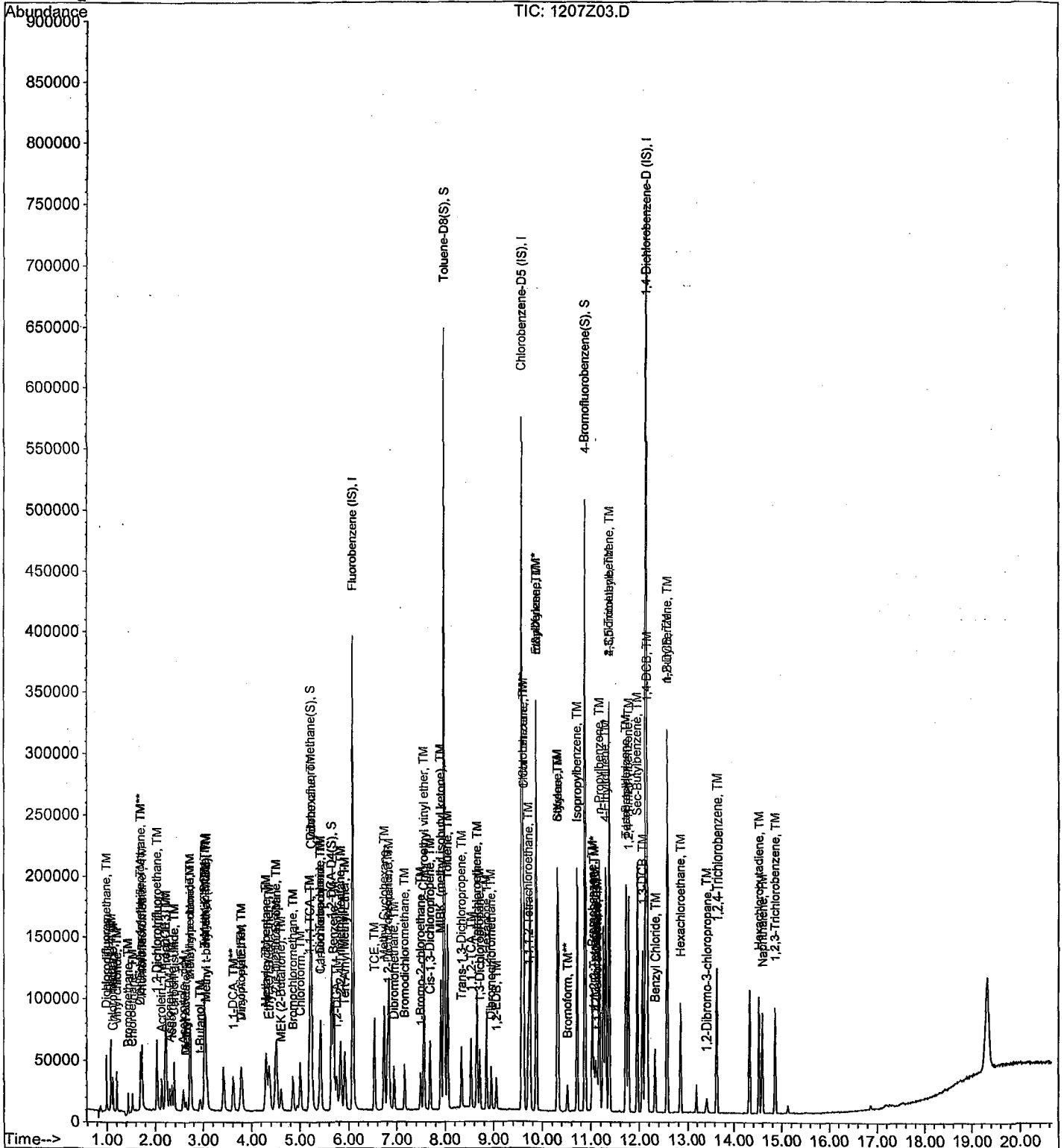
Data File : M:\ZEUS\DATA\211206\1207Z03.D  
 Acq On : 07 Dec 21 15:54  
 Sample : 211207A LCS 10ug/L  
 Misc :

Vial: 3  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 8:39 2021

Quant Results File: Z120621W.RI

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:28:24 2021  
 Response via : Initial Calibration





Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z04.D  
 Acq On : 07 Dec 21 16:19  
 Sample : 211207A LCSD 10ug/L  
 Misc :

Vial: 4  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 8:39 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:28:24 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	6.09	96	421428	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	9.58	117	365775	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	121584	25.00	ppb	0.00
<b>System Monitoring Compounds</b>						
43) Dibromofluoromethane (S)	5.23	111	98476	24.76	ppb	0.00
Spiked Amount	25.000		Recovery	=	99.036%	
48) 1,2-DCA-D4 (S)	5.66	65	85919	27.26	ppb	0.00
Spiked Amount	25.000		Recovery	=	109.060%	
69) Toluene-D8 (S)	7.98	98	450050	25.48	ppb	0.00
Spiked Amount	25.000		Recovery	=	101.900%	
77) 4-Bromofluorobenzene (S)	10.88	95	184642	25.48	ppb	0.00
Spiked Amount	25.000		Recovery	=	101.936%	
<b>Target Compounds</b>						
3) Dichlorodifluoromethane	1.00	85	22541	9.45	ppb	99
4) Freon 114	1.09	85	18776	11.16	ppb	97
5) Chloromethane	1.13	50	16976	10.27	ppb	97
6) Vinyl chloride	1.21	62	17820	8.74	ppb	100
9) Bromomethane	1.45	94	6223	10.86	ppb	85
10) Chloroethane	1.53	66	2579	8.57	ppb	96
11) Dichlorofluoromethane	1.71	67	40413	10.49	ppb	97
12) Trichlorofluoromethane	1.74	101	36245	9.99	ppb	96
14) Diethyl ether	2.64	74	2605	10.27	ppb	94
15) 1,2 Dichlorotrifluoroethan	2.03	67	27435	6.75	ppb	98
16) Acrolein	2.13	55	14622	132.46	ppb	98
17) Acetone	2.29	43	17666	56.95	ppb	93
18) Freon-113	2.22	101	11167	10.14	ppb	95
19) 1,1-DCE	2.20	61	27266	9.77	ppb	98
21) Acetonitrile	2.58	40	5380	157.42	ppb	83
22) t-Butanol	2.94	59	5743	141.92	ppb	92
23) Methyl Acetate	2.64	43	7893	10.20	ppb	92
24) Iodomethane	2.34	142	14094	9.62	ppb	98
25) Acrylonitrile	3.04	52	4304	10.44	ppb	97
26) Methylene chloride	2.72	49	20813	10.85	ppb	96
27) Carbon disulfide	2.39	76	31736	10.02	ppb	99
28) Methyl t-butyl ether (MtBE)	3.07	73	44201	10.45	ppb	97
29) Trans-1,2-DCE	3.04	61	26691	9.55	ppb	97
30) Hexane	4.30	56	44262	10.39	ppb	# 100
31) Diisopropyl Ether	3.79	45	40369	10.54	ppb	100
32) 2,2-Dichloro-1,1,1-trifluo	1.71	83	2235	10.93	ppb	91
33) 1,1-DCA	3.61	63	35986	9.91	ppb	99

(#) = qualifier out of range (m) = manual integration  
 1207Z04.D Z120621W.M Wed Dec 08 08:42:01 2021

Data File : M:\ZEUS\DATA\211206\1207Z04.D  
 Acq On : 07 Dec 21 16:19  
 Sample : 211207A LCSD 10ug/L  
 Misc :

Vial: 4  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 8:39 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:28:24 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
34) Vinyl Acetate	3.77	43	31898	10.49	ppb	# 95
35) Ethyl tert Butyl Ether	4.37	59	44288	10.53	ppb	95
36) MEK (2-Butanone)	4.61	72	8934	55.01	ppb	91
37) Cis-1,2-DCE	4.52	61	31514	9.88	ppb	100
38) 2,2-Dichloropropane	4.50	77	34346	10.45	ppb	95
39) 2-Methylpentane	2.74	42	16636	10.83	ppb	94
40) 3-Methylpentane	3.03	57	41327	10.27	ppb	90
41) Chloroform	5.01	83	39968	9.93	ppb	95
42) Bromochloromethane	4.85	49	12835	10.05	ppb	96
44) 1,1,1-TCA	5.20	97	37722	10.54	ppb	97
45) Cyclohexane	5.25	56	35088	10.48	ppb	98
46) 1,1-Dichloropropene	5.44	75	30631	10.31	ppb	96
47) 2,2,4-Trimethylpentane	5.84	57	69944	10.33	ppb	100
49) Carbon Tetrachloride	5.42	117	32665	10.63	ppb	95
50) Tert Amyl Methyl Ether	5.92	73	47912	10.15	ppb	99
51) Methylcyclopentane	4.30	56	44262	10.39	ppb	98
52) 1,2-DCA	5.76	62	22881	9.89	ppb	99
53) Benzene	5.70	78	98419	9.85	ppb	98
54) TCE	6.54	130	31556	10.26	ppb	99
55) 2-Pentanone	6.84	43	100691	137.60	ppb	99
56) 1,2-Dichloropropane	6.81	63	23153	10.58	ppb	98
57) Bromodichloromethane	7.17	83	27115	10.23	ppb	96
58) Methyl Cyclohexane	6.74	83	43841	10.27	ppb	98
59) Dibromomethane	6.95	174	16227	9.97	ppb	99
60) MIBK (methyl isobutyl ket	7.91	43	63211	56.17	ppb	99
61) 1-Bromo-2-chloroethane	7.51	144	3714	9.84	ppb	94
62) 2-Chloroethyl vinyl ether	7.57	43	32195	52.29	ppb	96
63) Cis-1,3-Dichloropropene	7.70	75	35768	10.34	ppb	98
64) Toluene	8.05	91	118389	9.69	ppb	100
65) Trans-1,3-Dichloropropene	8.34	75	29745	10.36	ppb	95
66) 1,1,2-TCA	8.54	97	19738	10.05	ppb	98
67) 2-Hexanone	8.86	58	28630	57.07	ppb	100
70) 1,2-EDB	9.06	107	18266	9.63	ppb	# 94
71) Tetrachloroethene	8.65	166	34544	10.28	ppb	99
72) 1-Chlorohexane	9.62	91	41342	10.57	ppb	97
73) 1,1,1,2-Tetrachloroethane	9.72	131	23403	9.57	ppb	97
74) m&p-Xylene	9.88	91	213028	20.74	ppb	98
75) o-Xylene	10.31	91	105349	10.10	ppb	96
76) Styrene	10.33	104	75188	9.68	ppb	97
78) 1,3-Dichloropropane	8.72	76	33557	10.54	ppb	96
79) Dibromochloromethane	8.96	129	19344	9.35	ppb	100
80) Chlorobenzene	9.62	112	82300	10.11	ppb	98

(#) = qualifier out of range (m) = manual integration  
 1207Z04.D Z120621W.M Wed 12/8/2021 08:42:02 2021

Data File : M:\ZEUS\DATA\211206\1207Z04.D  
 Acq On : 07 Dec 21 16:19  
 Sample : 211207A LCSD 10ug/L  
 Misc :

Vial: 4  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 8:39 2021

Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 09:28:24 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

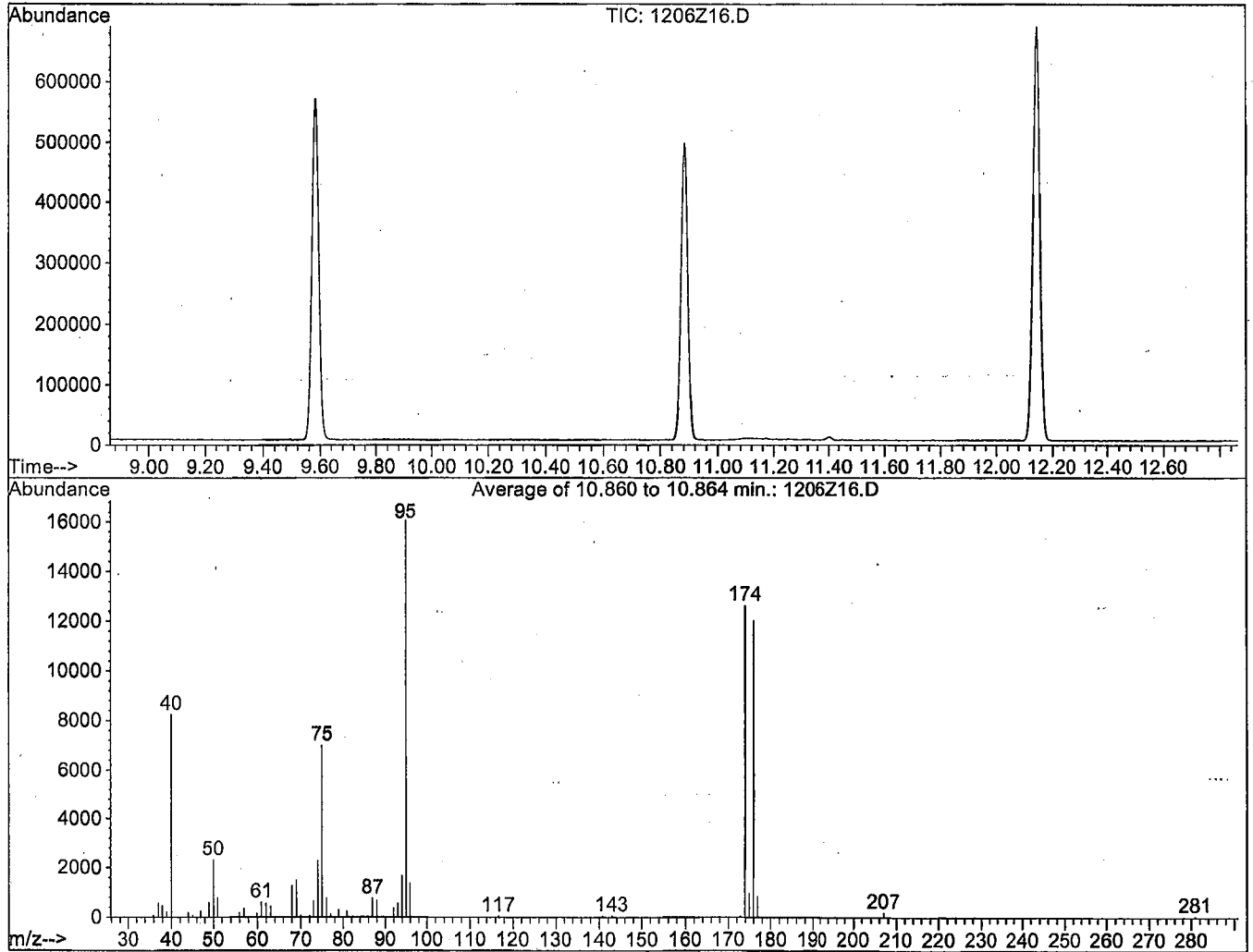
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
81) Ethylbenzene	9.88	91	213028	10.36	ppb	98
82) Bromoform	10.52	173	11147	8.93	ppb	98
84) Isopropylbenzene	10.73	105	143254	10.76	ppb	100
85) 1,1,2,2-Tetrachloroethane	11.07	83	20637	9.91	ppb	99
86) 1,2,3-Trichloropropane	11.10	110	7289	10.11	ppb	97
87) t-1,4-Dichloro-2-Butene	11.13	53	5087	10.03	ppb	89
88) Bromobenzene	11.03	77	46771	10.51	ppb	97
89) n-Propylbenzene	11.18	91	167910	10.62	ppb	99
90) 4-Ethyltoluene	11.30	105	143404	10.66	ppb	97
91) 2-Chlorotoluene	11.38	91	109632	10.61	ppb	99
92) 1,3,5-Trimethylbenzene	11.37	105	117213	10.79	ppb	99
93) 4-Chlorotoluene	11.38	91	109632	10.53	ppb	99
94) Tert-Butylbenzene	11.73	119	109896	10.60	ppb	100
95) 1,2,4-Trimethylbenzene	11.78	105	112259	10.88	ppb	96
96) Sec-Butylbenzene	11.96	105	159686	10.85	ppb	100
97) p-Isopropyltoluene	11.73	119	109896	10.60	ppb	99
98) Benzyl Chloride	12.33	91	45143	9.76	ppb	98
99) 1,3-DCB	12.07	146	67346	10.29	ppb	97
100) 1,4-DCB	12.17	146	68002	10.11	ppb	99
101) n-Butylbenzene	12.57	91	116903	11.08	ppb	97
102) 1,2-DCB	12.57	146	61747	10.46	ppb	98
103) Hexachloroethane	12.85	201	16499	9.13	ppb	95
104) 1,2-Dibromo-3-chloropropan	13.43	157	3949	9.55	ppb	89
105) 1,2,4-Trichlorobenzene	13.65	180	47774	10.36	ppb	99
106) Hexachlorobutadiene	14.52	225	22630	10.05	ppb	99
107) Naphthalene	14.60	128	79010	10.36	ppb	97
108) 1,2,3-Trichlorobenzene	14.86	180	36229	10.13	ppb	98



Data File : M:\ZEUS\DATA\211206\1206Z16.D  
 Acq On : 06 Dec 21 15:24  
 Sample : BLK  
 Misc :

Vial: 1  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)  
 Title : METHOD 8260B



Spectrum Information: Average of 10.860 to 10.864 min.

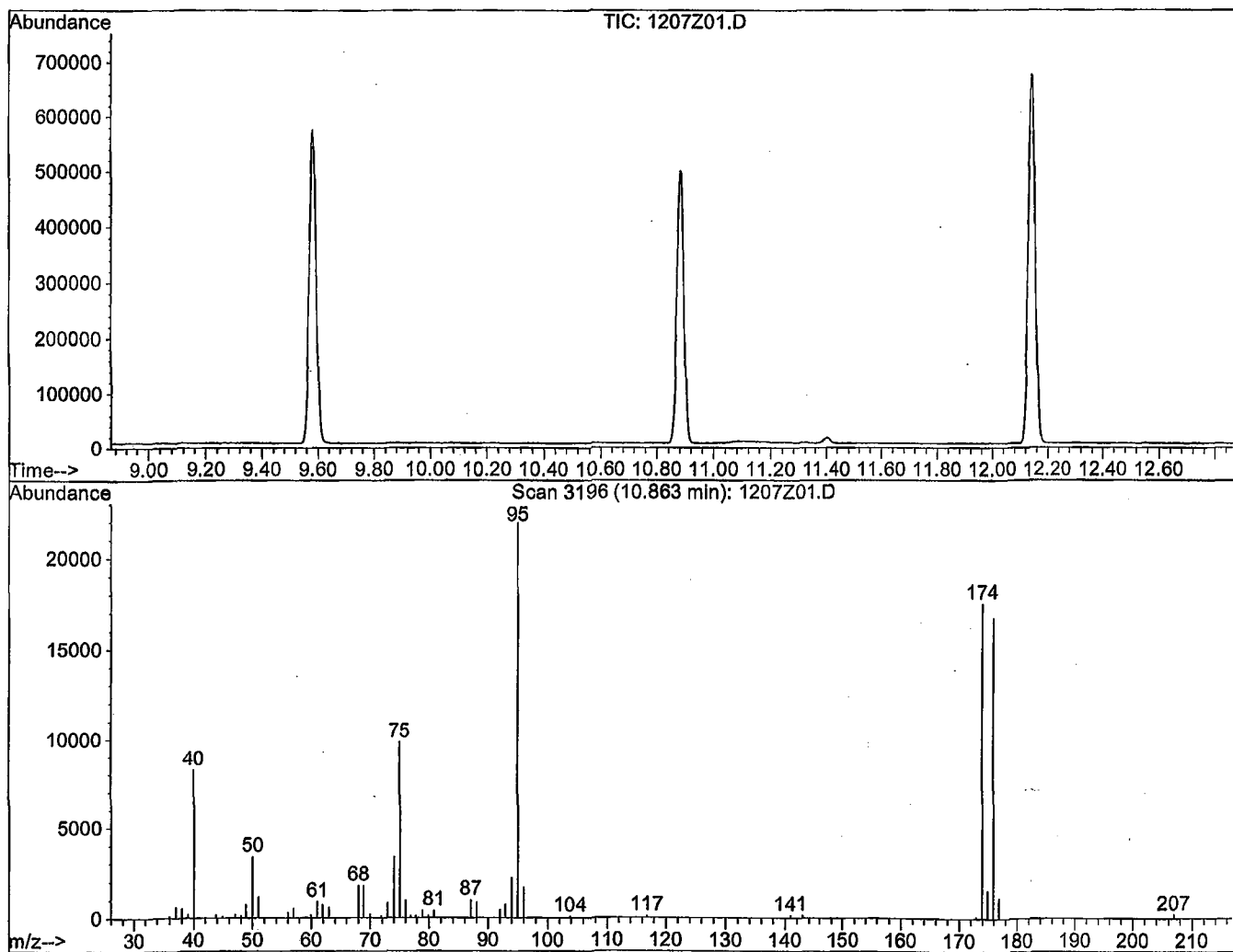
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	14	40	14.4	2314	PASS
75	95	30	60	43.6	7006	PASS
95	95	100	100	100.0	16070	PASS
96	95	5	9	8.4	1348	PASS
173	174	0.00	2	0.5	57	PASS
174	95	50	200	78.7	12653	PASS
175	174	5	10	7.5	946	PASS
176	174	95	101	95.2	12047	PASS
177	176	5	9	6.9	831	PASS

BFB

Data File : M:\ZEUS\DATA\211206\1207Z01.D  
Acq On : 07 Dec 21 15:06  
Sample : 25ug/L BFB STD 10/29/21  
Misc :

Vial: 1  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Method : M:\ZEUS\DATA\211101\Z110121W.M (RTE Integrator)  
Title : METHOD 8260B



Spectrum Information: Scan 3196

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.4	3387	PASS
75	95	30	60	44.9	9845	PASS
95	95	100	100	100.0	21936	PASS
96	95	5	9	7.9	1722	PASS
173	174	0.00	2	0.6	112	PASS
174	95	50	200	79.9	17528	PASS
175	174	5	9	8.8	1551	PASS
176	174	95	101	95.6	16752	PASS
177	176	5	9	6.8	1136	PASS

## ZEUS 8260 Standard Prep

ZEUS 8260 Water Calibration Curve										
0.3ug/L										
						Prepared By (Initials): CH				
Prepared: 12/6/2021										
Expires: 12/15/2021										
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	Various	0.3ug/L	5	Prepared 11/29/21	1/28/2022	N/A	3uL	50mL	P&T Water	0.3
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	5uL			5
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	2.5uL			5
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	2uL			10
0.5ug/L										
Prepared: 12/6/2021										
Expires: 12/15/2021										
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	Various	0.5ug/L	5	Prepared 11/29/21	1/28/2022	N/A	5uL	50mL	P&T Water	0.5
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	10uL			10
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	5uL			10
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	5uL			25
1.0ug/L										
Prepared: 12/6/2021										
Expires: 12/15/2021										
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	Various	1.0ug/L	5	Prepared 11/29/21	1/28/2022	N/A	10uL	50mL	P&T Water	1
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	20uL			20
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	10uL			20
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	10uL			50
2.0ug/L										
Prepared: 12/6/2021										
Expires: 12/15/2021										
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	Various	2.0ug/L	5	Prepared 11/29/21	1/28/2022	N/A	20uL	50mL	P&T Water	2
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	30uL			30
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	15uL			30
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	15uL			75
5ug/L										
Prepared: 12/6/2021										
Expires: 12/15/2021										
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 11/29/21	1/28/2022	N/A	5uL	50mL	P&T Water	5
VOA STD. 8	Phenova		50	Prepared 11/29/21	12/15/2021	N/A	5uL			5
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	40uL			40
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	20uL			20
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	20uL			100
10ug/L										
Prepared: 12/6/2021										
Expires: 12/15/2021										
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 11/29/21	1/28/2022	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova		50	Prepared 11/29/21	12/15/2021	N/A	10uL			10
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	50uL			50
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	25uL			50
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	25uL			125

20ug/L										
Prepared: 12/6/2021										
Expires: 12/15/2021										
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)	Allquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	20ug/L	50	Prepared 11/29/21	1/28/2022	N/A	20uL	50mL	P&T Water	20
VOA STD. 8	Phenova		50	Prepared 11/29/21	12/15/2021	N/A	20uL			20
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	60uL			60
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	30uL			60
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	30uL			150
40ug/L										
Prepared: 12/6/2021										
Expires: 12/15/2021										
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)	Allquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	40ug/L	50	Prepared 11/29/21	1/28/2022	N/A	40uL	50mL	P&T Water	40
VOA STD. 8	Phenova		50	Prepared 11/29/21	12/15/2021	N/A	40uL			40
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	80uL			80
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	40uL			80
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	35uL			175
100ug/L										
Prepared: 12/6/2021										
Expires: 12/15/2021										
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)	Allquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	100ug/L	50	Prepared 11/29/21	1/28/2022	N/A	100uL	50mL	P&T Water	100
VOA STD. 8	Phenova		50	Prepared 11/29/21	12/15/2021	N/A	100uL			100
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	100uL			100
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	50uL			100
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	40uL			200
ZEUS 8260 Water Second Source (SS)										
Prepared: 12/6/2021										
Expires: 12/15/2021										
							Prepared By (Initials): CH			
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)	Allquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 3	Phenova	8260 Water SS	100	Prepared 11/29/21	1/28/2022	N/A	25uL	50mL	P&T Water	50
VOA STD. GASES	Phenova	8260 Water SS	50	Prepared 11/29/21	1/28/2022	N/A	10uL			10
VOA STD. 0	Phenova	8260 Water SS	50	Prepared 11/29/21	1/28/2022	N/A	10uL			10
VOA STD. 2-CEVE	Absolute	8260 Water SS	50	Prepared 11/29/21	11/29/2021	N/A	50uL			50
VOA STD. 6	Various	8260 Water SS	50	Prepared 11/29/21	12/15/2021	N/A	10uL			10
Voa STD. TBA	Various	8260 Water SS	250	Prepared 11/29/21	12/15/2021	N/A	25uL			250
8260 Water Continuing Calibrations (CCV)/ Lab Control Spikes (LCS)										
Prepared: 12/6/2021										
Expires: 12/7/2021										
							Prepared By (Initials): CH			
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)	Allquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	CCV/ LCS	50	Prepared 11/29/21	1/28/2022	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova	CCV/ LCS	50	Prepared 11/29/21	12/15/2021	N/A	10uL			10
VOA STD. 1	Absolute	CCV/ LCS	50	Prepared 11/29/21	1/28/2022	N/A	50uL			50
VOA STD. 2	Phenova	CCV/ LCS	100	Prepared 11/29/21	1/28/2022	N/A	25uL			50
VOA STD. TBA	Various	CCV/ LCS	250	Prepared 11/29/21	12/15/2021	N/A	25uL			250



## Injection Log

Directory: M:\ZEUS\DATA\211206\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	1206Z15.D	1	25ug/L BFB STD 10/29/21		06 Dec 21 15:09
2	2	1206Z17.D	1	0.3ug/L VOC STD 12/6/21		06 Dec 21 15:48
3	3	1206Z18.D	1	0.5ug/L VOC STD 12/6/21		06 Dec 21 16:12
4	4	1206Z19.D	1	1ug/L VOC STD 12/6/21		06 Dec 21 16:36
5	5	1206Z20.D	1	2ug/L VOC STD 12/6/21		06 Dec 21 17:00
6	6	1206Z21.D	1	5ug/L VOC STD 12/6/21		06 Dec 21 17:24
7	7	1206Z22.D	1	10ug/L VOC STD 12/6/21		06 Dec 21 17:48
8	8	1206Z23.D	1	20ug/L VOC STD 12/6/21		06 Dec 21 18:12
9	9	1206Z24.D	1	40ug/L VOC STD 12/6/21		06 Dec 21 18:36
10	10	1206Z25.D	1	100ug/L VOC STD 12/6/21		06 Dec 21 19:00
11	12	1206Z27.D	1	(SS) 10ug/L VOC STD 12/6/21		06 Dec 21 19:48

## Injection Log

Directory: M:\ZEUS\DATA\211206\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	1207Z01.D	1	25ug/L BFB STD 10/29/21		07 Dec 21 15:06
2	2	1207Z02.D	1	211207A CCV 10ug/L		07 Dec 21 15:30
3	3	1207Z03.D	1	211207A LCS 10ug/L		07 Dec 21 15:54
4	4	1207Z04.D	1	211207A LCSD 10ug/L		07 Dec 21 16:19
5	8	1207Z08.D	1	211207A BLK		07 Dec 21 17:55
6	14	1207Z14.D	1	BA46978W02		07 Dec 21 20:19
7	15	1207Z15.D	1	BA46979W02		07 Dec 21 20:43
8	16	1207Z16.D	1	BA46980W03		07 Dec 21 21:07
9	17	1207Z17.D	1	BA46981W02		07 Dec 21 21:31
10	18	1207Z18.D	1	BA46982W02		07 Dec 21 21:55
11	19	1207Z19.D	1	BA46983W02		07 Dec 21 22:19
12	20	1207Z20.D	1	BA46984W02		07 Dec 21 22:43
13	21	1207Z21.D	1	BA46985W02		07 Dec 21 23:07
14	30	1207Z30.D	1	Ending CCV 10ug/L 12/7/21		08 Dec 21 02:43

**ORGANICS**  
**Calibration Data**

VOLATILE ORGANIC ANALYSIS  
VOLATILE ORGANIC COMPOUNDS

Form 6  
Initial Calibration

Lab Name: APPL, Inc.  
Case No: \_\_\_\_\_  
Matrix: WATER

SDG No: \_\_\_\_\_  
Initial Cal. Date: 12/6/2021  
Instrument: Zeus

Initials: MH

1206Z17.D 1206Z18.D 1206Z19.D 1206Z20.D 1206Z21.D 1206Z22.D 1206Z23.D 1206Z24.D 1206Z25.D

	Compound	1	2	3	4	5	6	7	8	9	Avg	%RSD	Type	r <sup>2</sup>	Q	MRF
1	I Fluorobenzene (IS)															
2	S Dibromofluoromethane(S)	0.1704	0.1728	0.2228	0.2153	0.2474	0.2418	0.2463	0.2400	0.2377	0.22	14	S			
3	S 1,2-DCA-D4(S)	0.1414	0.1477	0.1850	0.1824	0.2069	0.2047	0.2085	0.2043	0.2016	0.19	14	S			
4	I Chlorobenzene-D5 (IS)															
5	SL Toluene-D8(S)	0.7983	0.8206	1.050	1.051	1.217	1.212	1.270	1.261	1.258	1.1	17	S	1.000		
6	SL 4-Bromofluorobenzene(S)	0.3265	0.3292	0.4231	0.4275	0.4960	0.4958	0.5208	0.5195	0.5192	0.45	18	S	1.000		
7	I 1,4-Dichlorobenzene-D (IS)															
8																
9																
10																
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Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z17.D  
 Acq On : 06 Dec 21 15:48  
 Sample : 0.3ug/L VOC STD 12/6/21  
 Misc :

Vial: 2  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 12:50 2021

Quant Results File: Z1206SUR.RE

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:50:11 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	367811	25.000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	347235	25.000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	119472	25.000	ppb	0.00
<b>System Monitoring Compounds</b>						
2) Dibromofluoromethane(S)	5.23	111	12538	3.203	ppb	0.00
Spiked Amount	25.000		Recovery	=	12.812%	
3) 1,2-DCA-D4(S)	5.65	65	10399	2.698	ppb	0.00
Spiked Amount	25.000		Recovery	=	10.792%	
5) Toluene-D8(S)	7.98	98	55440	4.664	ppb	0.00
Spiked Amount	25.000		Recovery	=	18.656%	
6) 4-Bromofluorobenzene(S)	10.88	95	22674	6.112	ppb	0.00
Spiked Amount	25.000		Recovery	=	24.448%	

Target Compounds

Qvalue

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z18.D Vial: 3  
 Acq On : 06 Dec 21 16:12 Operator: MH  
 Sample : 0.5ug/L VOC STD 12/6/21 Inst : Zeus  
 Misc : Multiplr: 1.00

Quant Time: Dec 7 12:50 2021 Quant Results File: Z1206SUR.RE

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:50:11 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	366661	25.000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	344388	25.000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	116856	25.000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.23	111	12671	3.247	ppb	0.00
Spiked Amount 25.000			Recovery =	12.988%		
3) 1,2-DCA-D4(S)	5.66	65	10832	2.819	ppb	0.00
Spiked Amount 25.000			Recovery =	11.276%		
5) Toluene-D8(S)	7.98	98	56522	4.739	ppb	0.00
Spiked Amount 25.000			Recovery =	18.956%		
6) 4-Bromofluorobenzene(S)	10.89	95	22676	6.136	ppb	0.00
Spiked Amount 25.000			Recovery =	24.544%		

Target Compounds Qvalue

Data File : M:\ZEUS\DATA\211206\1206Z19.D Vial: 4  
 Acq On : 06 Dec 21 16:36 Operator: MH  
 Sample : 1ug/L VOC STD 12/6/21 Inst : Zeus  
 Misc : Multiplr: 1.00

Quant Time: Dec 7 12:50 2021 Quant Results File: Z1206SUR.RES

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:50:11 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	371997	25.000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	345148	25.000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	117056	25.000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.23	111	33149	8.372	ppb	0.00
Spiked Amount				25.000		
			Recovery	=	33.488%	
3) 1,2-DCA-D4(S)	5.66	65	27522	7.060	ppb	0.00
Spiked Amount				25.000		
			Recovery	=	28.240%	
5) Toluene-D8(S)	7.98	98	145028	9.025	ppb	0.00
Spiked Amount				25.000		
			Recovery	=	36.100%	
6) 4-Bromofluorobenzene(S)	10.89	95	58408	10.581	ppb	0.00
Spiked Amount				25.000		
			Recovery	=	42.324%	

Target Compounds Qvalue

Data File : M:\ZEUS\DATA\211206\1206Z20.D  
 Acq On : 06 Dec 21 17:00  
 Sample : 2ug/L VOC STD 12/6/21  
 Misc :

Vial: 5  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 12:50 2021

Quant Results File: Z1206SUR.RE!

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:50:11 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	6.09	96	388302	25.000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	355796	25.000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	125880	25.000	ppb	0.00
<b>System Monitoring Compounds</b>						
2) Dibromofluoromethane (S)	5.23	111	33446	8.092	ppb	0.00
Spiked Amount	25.000		Recovery	=	32.368%	
3) 1,2-DCA-D4 (S)	5.65	65	28333	6.963	ppb	0.00
Spiked Amount	25.000		Recovery	=	27.852%	
5) Toluene-D8 (S)	7.98	98	149510	9.025	ppb	0.00
Spiked Amount	25.000		Recovery	=	36.100%	
6) 4-Bromofluorobenzene (S)	10.88	95	60845	10.657	ppb	0.00
Spiked Amount	25.000		Recovery	=	42.628%	

Target Compounds

Qvalue



Data File : M:\ZEUS\DATA\211206\1206Z21.D  
 Acq On : 06 Dec 21 17:24  
 Sample : 5ug/L VOC STD 12/6/21  
 Misc :

Vial: 6  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 12:50 2021

Quant Results File: Z1206SUR.RE

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:50:11 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	6.09	96	398068	25.000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	358845	25.000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	126680	25.000	ppb	0.00
<b>System Monitoring Compounds</b>						
2) Dibromofluoromethane(S)	5.23	111	98469	23.241	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	92.964%
3) 1,2-DCA-D4(S)	5.66	65	82342	19.739	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	78.956%
5) Toluene-D8(S)	7.98	98	436806	22.365	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	89.460%
6) 4-Bromofluorobenzene(S)	10.88	95	177990	24.631	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	98.524%

Target Compounds Qvalue

Data File : M:\ZEUS\DATA\211206\1206Z22.D  
 Acq On : 06 Dec 21 17:48  
 Sample : 10ug/L VOC STD 12/6/21  
 Misc :

Vial: 7  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 12:50 2021

Quant Results File: Z1206SUR.RE

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:50:11 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	407844	25.000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.59	117	362313	25.000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	125640	25.000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.23	111	98626	22.720	ppb	0.00
Spiked Amount	25.000		Recovery	=	90.880%	
3) 1,2-DCA-D4(S)	5.65	65	83490	19.534	ppb	0.00
Spiked Amount	25.000		Recovery	=	78.136%	
5) Toluene-D8(S)	7.98	98	439095	22.276	ppb	0.00
Spiked Amount	25.000		Recovery	=	89.104%	
6) 4-Bromofluorobenzene(S)	10.88	95	179650	24.624	ppb	0.00
Spiked Amount	25.000		Recovery	=	98.496%	

Target Compounds

Qvalue

Data File : M:\ZEUS\DATA\211206\1206Z23.D Vial: 8  
 Acq On : 06 Dec 21 18:12 Operator: MH  
 Sample : 20ug/L VOC STD 12/6/21 Inst : Zeus  
 Misc : Multiplr: 1.00

Quant Time: Dec 7 12:50 2021 Quant Results File: Z1206SUR.RE

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:50:11 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	429143	25.000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	371190	25.000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	127840	25.000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.23	111	211390	46.279	ppb	0.00
Spiked Amount				25.000		
					Recovery = 185.116%	
3) 1,2-DCA-D4(S)	5.65	65	178963	39.794	ppb	0.00
Spiked Amount				25.000		
					Recovery = 159.176%	
5) Toluene-D8(S)	7.98	98	942563	44.492	ppb	0.00
Spiked Amount				25.000		
					Recovery = 177.968%	
6) 4-Bromofluorobenzene(S)	10.88	95	386622	48.089	ppb	0.00
Spiked Amount				25.000		
					Recovery = 192.356%	

Target Compounds Qvalue

Data File : M:\ZEUS\DATA\211206\1206Z24.D  
 Acq On : 06 Dec 21 18:36  
 Sample : 40ug/L VOC STD 12/6/21  
 Misc :

Vial: 9  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 12:50 2021

Quant Results File: Z1206SUR.RE

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:50:11 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	438913	25.000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	374368	25.000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	124832	25.000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.23	111	210639	45.088	ppb	0.00
Spiked Amount				25.000		
					Recovery =	180.352%
3) 1,2-DCA-D4(S)	5.65	65	179326	38.987	ppb	0.00
Spiked Amount				25.000		
					Recovery =	155.948%
5) Toluene-D8(S)	7.98	98	944015	44.196	ppb	0.00
Spiked Amount				25.000		
					Recovery =	176.784%
6) 4-Bromofluorobenzene(S)	10.88	95	388955	47.976	ppb	0.00
Spiked Amount				25.000		
					Recovery =	191.904%

Target Compounds

Qvalue

Data File : M:\ZEUS\DATA\211206\1206Z25.D Vial: 10  
 Acq On : 06 Dec 21 19:00 Operator: MH  
 Sample : 100ug/L VOC STD 12/6/21 Inst : Zeus  
 Misc : Multiplr: 1.00

Quant Time: Dec 7 12:50 2021

Quant Results File: Z1206SUR.RES

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:50:11 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	457473	25.000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	388410	25.000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	126216	25.000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.23	111	434953	89.326	ppb	0.00
Spiked Amount				25.000		
					Recovery = 357.304%	
3) 1,2-DCA-D4(S)	5.66	65	368985	76.966	ppb	0.00
Spiked Amount				25.000		
					Recovery = 307.864%	
5) Toluene-D8(S)	7.98	98	1954424	86.210	ppb	0.00
Spiked Amount				25.000		
					Recovery = 344.840%	
6) 4-Bromofluorobenzene(S)	10.88	95	806582	92.592	ppb	0.00
Spiked Amount				25.000		
					Recovery = 370.368%	

Target Compounds

Qvalue

VOLATILE ORGANIC ANALYSIS  
VOLATILE ORGANIC COMPOUNDS

Form 6  
Initial Calibration

Lab Name: APPL, Inc.  
Case No: \_\_\_\_\_  
Matrix: GAS

SDG No: \_\_\_\_\_  
Initial Cal. Date: 12/6/2021  
Instrument: Zeus

Initials: MH

1206Z36.D    1206Z37.D    1206Z38.D    1206Z39.D    1206Z40.D    1206Z41.D    1206Z42.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	16.6	7.019	3.923	1.820	1.243	1.131	1.041				4.7	121	TMHB	1.000		
3	I Chlorobenzene-D5 (IS)																
4	I 1,4-Dichlorobenzene-D (IS)																
5																	
6																	
7																	
8																	
9																	
10																	
11																	
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35																	

Data File : M:\ZEUS\DATA\211206\1206Z36.D  
Acq On : 06 Dec 21 23:24  
Sample : 20ug/L GAS STD 12/6/21  
Misc :

Vial: 21  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 7 12:35 2021

Quant Results File: ZGAS1206.RE

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 12:30:29 2021  
Response via : Initial Calibration  
DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	352283	25.000	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	633261	25.000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.58	TIC	542972	25.000	ppb	0.08

#### System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	7.98	TIC	4674724m	24.795	ppb	100

Quantitation Report

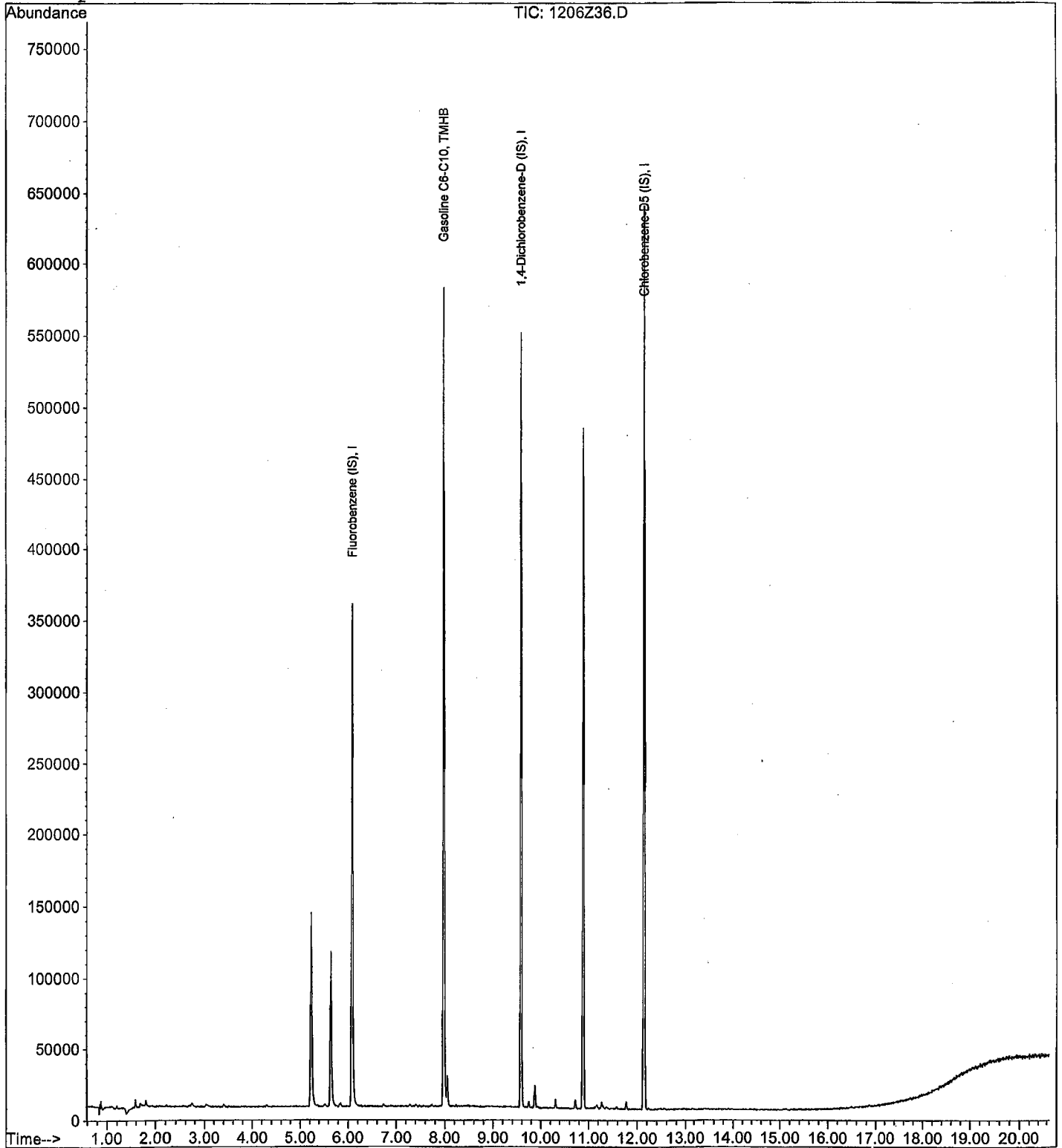
Data File : M:\ZEUS\DATA\211206\1206Z36.D  
Acq On : 06 Dec 21 23:24  
Sample : 20ug/L GAS STD 12/6/21  
Misc :

Vial: 21  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 7 12:35 2021

Quant Results File: ZGAS1206.RE

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 12:37:53 2021  
Response via : Initial Calibration





Data File : M:\ZEUS\DATA\211206\1206Z37.D  
Acq On : 06 Dec 21 23:48  
Sample : 50ug/L GAS STD 12/6/21  
Misc :

Vial: 22  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 7 12:35 2021

Quant Results File: ZGAS1206.RE

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 12:30:29 2021  
Response via : Initial Calibration  
DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	6.09	TIC	351086	25.000	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	606793	25.000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.58	TIC	538264	25.000	ppb	0.08

#### System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	7.98	TIC	4928196m	51.700	ppb	100

Quantitation Report

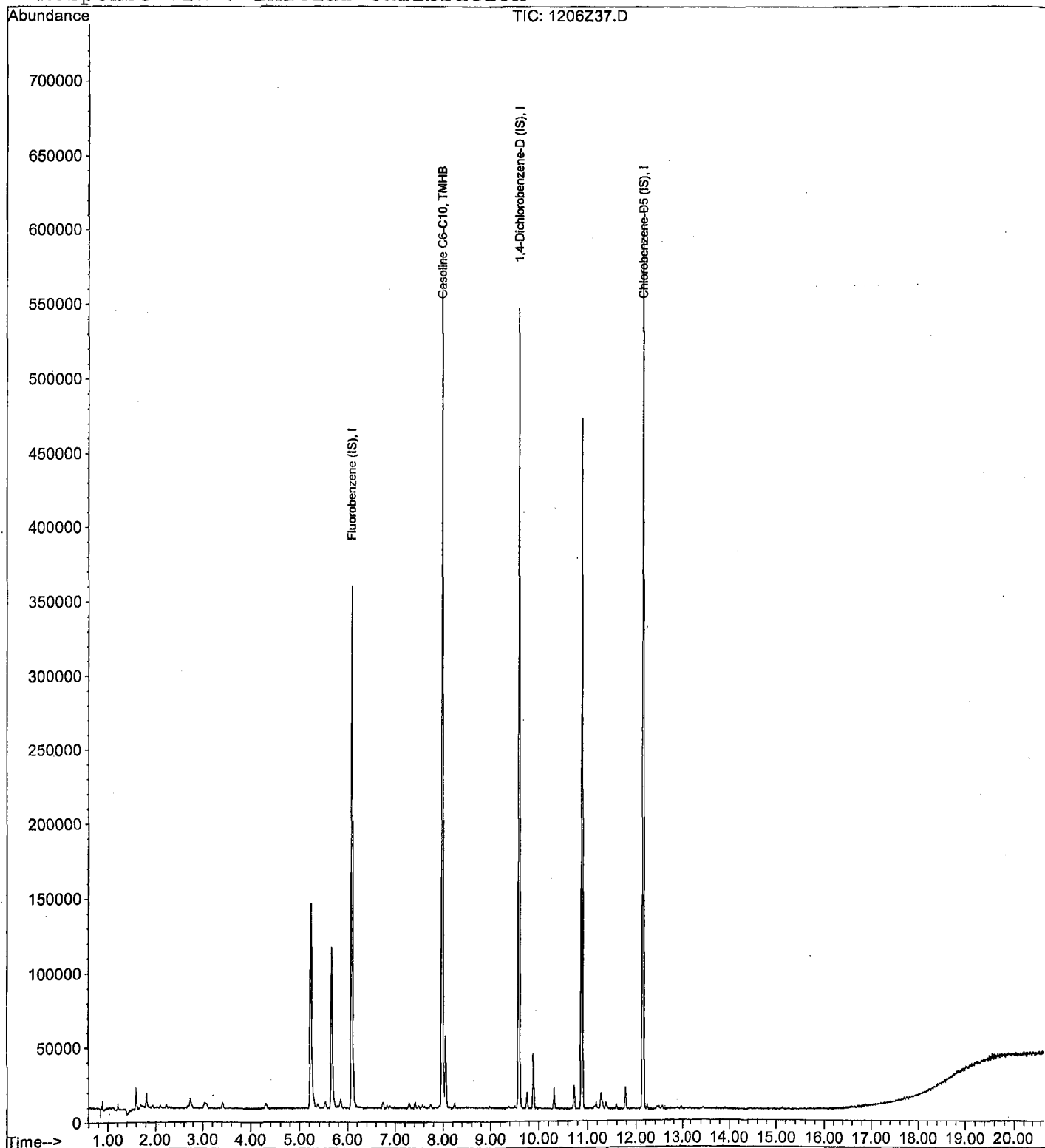
Data File : M:\ZEUS\DATA\211206\1206Z37.D  
Acq On : 06 Dec 21 23:48  
Sample : 50ug/L GAS STD 12/6/21  
Misc :

Vial: 22  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 7 12:35 2021

Quant Results File: ZGAS1206.RE

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 12:37:53 2021  
Response via : Initial Calibration



Data File : M:\ZEUS\DATA\211206\1206Z38.D  
Acq On : 07 Dec 21 00:12  
Sample : 100ug/L GAS STD 12/6/21  
Misc :

Vial: 23  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 7 12:36 2021

Quant Results File: ZGAS1206.RE

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 12:30:29 2021  
Response via : Initial Calibration  
DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	6.09	TIC	351331	25.000	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	615816	25.000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.58	TIC	528762	25.000	ppb	0.08

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	7.98	TIC	5512865m	109.716	ppb	100

Quantitation Report

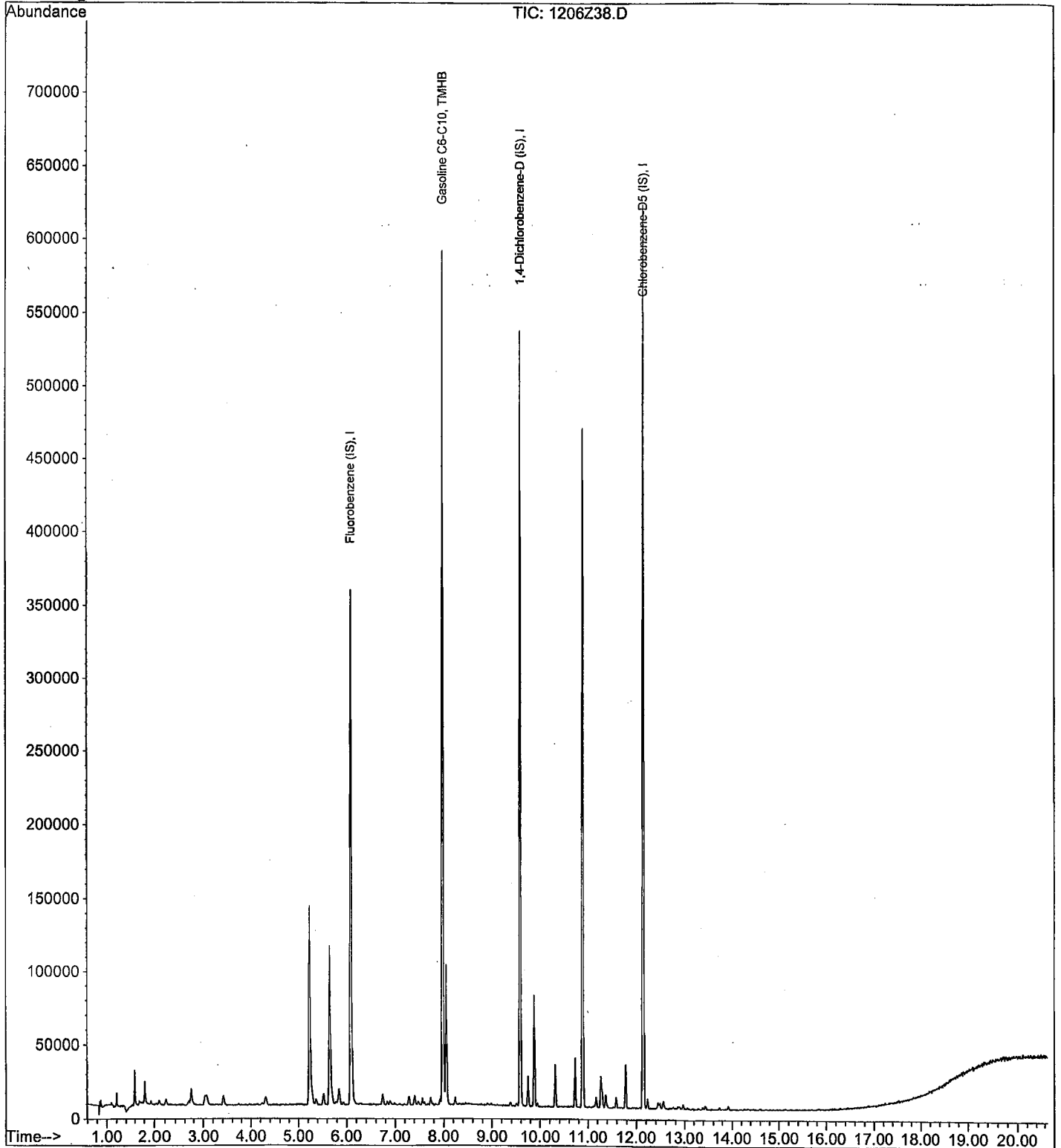
Data File : M:\ZEUS\DATA\211206\1206Z38.D  
Acq On : 07 Dec 21 00:12  
Sample : 100ug/L GAS STD 12/6/21  
Misc :

Vial: 23  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 7 12:36 2021

Quant Results File: ZGAS1206.RE

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 12:37:53 2021  
Response via : Initial Calibration



Data File : M:\ZEUS\DATA\211206\1206Z39.D  
Acq On : 07 Dec 21 00:37  
Sample : 300ug/L GAS STD 12/6/21  
Misc :

Vial: 24  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 7 12:36 2021

Quant Results File: ZGAS1206.RE

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 12:30:29 2021  
Response via : Initial Calibration  
DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	350046	25.000	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	632106	25.000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.51	TIC	8028	25.000	ppb	0.00

#### System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	7.98	TIC	7644838m	325.324	ppb	100

Quantitation Report

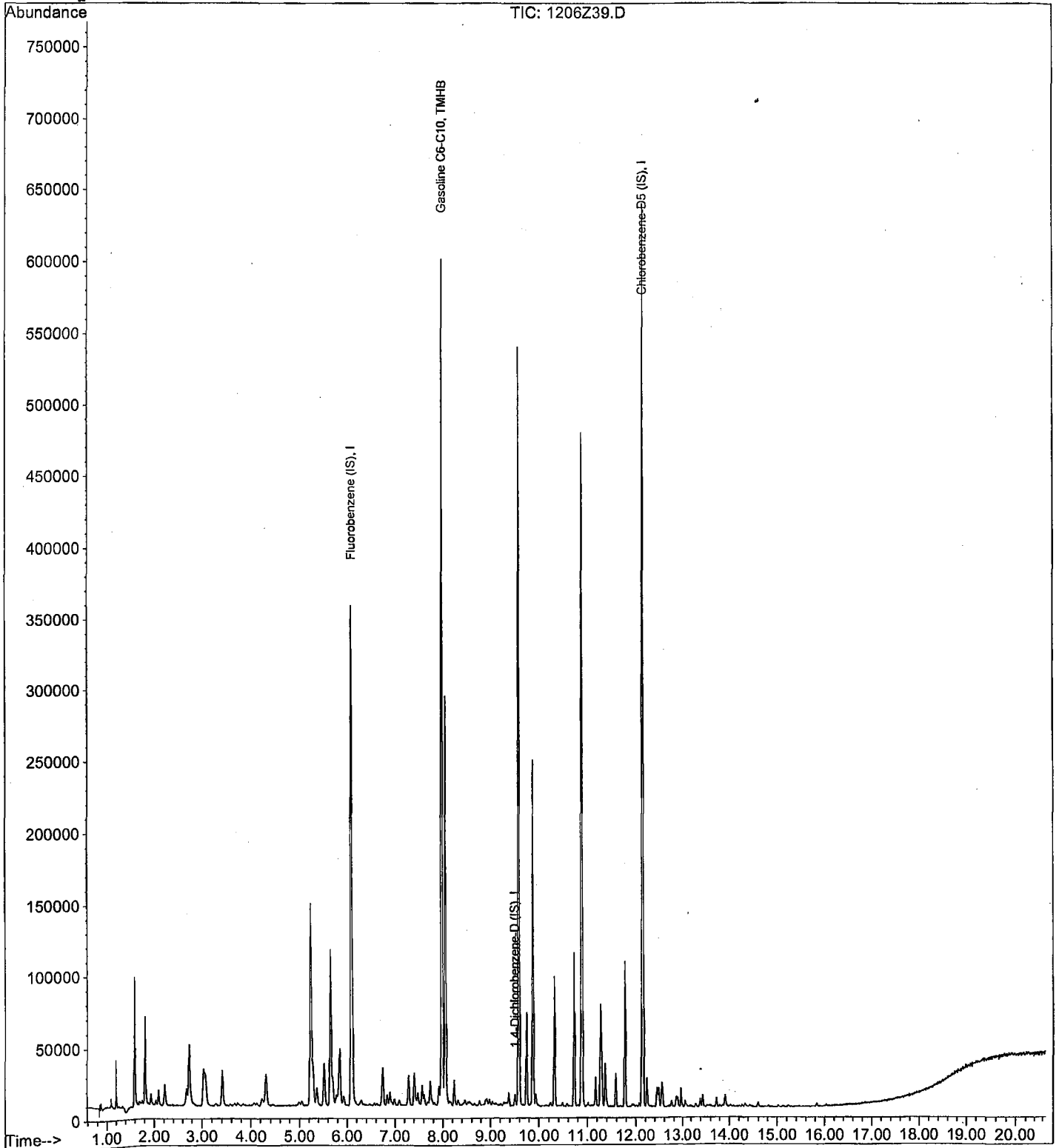
Data File : M:\ZEUS\DATA\211206\1206Z39.D  
Acq On : 07 Dec 21 00:37  
Sample : 300ug/L GAS STD 12/6/21  
Misc :

Vial: 24  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 7 12:36 2021

Quant Results File: ZGAS1206.RE

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 12:37:53 2021  
Response via : Initial Calibration



Data File : M:\ZEUS\DATA\211206\1206Z40.D Vial: 25  
 Acq On : 07 Dec 21 01:01 Operator: MH  
 Sample : 600ug/L GAS STD 12/6/21 Inst : Zeus  
 Misc : Multiplr: 1.00

Quant Time: Dec 7 12:36 2021 Quant Results File: ZGAS1206.RE

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:30:29 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	379834	25.000	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	634059	25.000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.51	TIC	16830	25.000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.05	TIC	11331953m	605.679	ppb	100

Quantitation Report

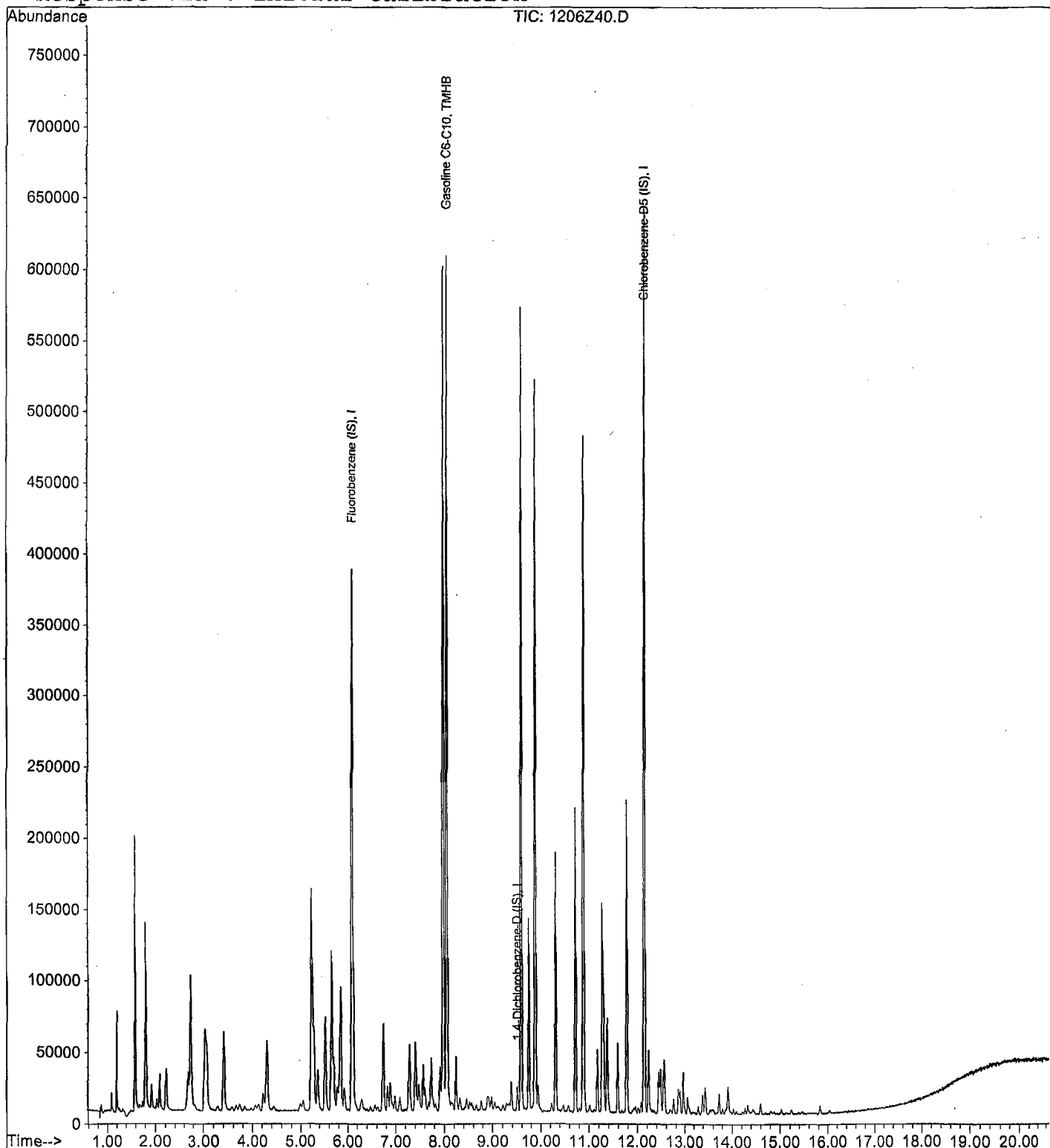
Data File : M:\ZEUS\DATA\211206\1206Z40.D  
Acq On : 07 Dec 21 01:01  
Sample : 600ug/L GAS STD 12/6/21  
Misc :

Vial: 25  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 7 12:36 2021

Quant Results File: ZGAS1206.RE

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 12:37:53 2021  
Response via : Initial Calibration





Data File : M:\ZEUS\DATA\211206\1206Z41.D Vial: 26  
 Acq On : 07 Dec 21 01:25 Operator: MH  
 Sample : 800ug/L GAS STD 12/6/21 Inst : Zeus  
 Misc : Multiplr: 1.00

Quant Time: Dec 7 12:37 2021 Quant Results File: ZGAS1206.RE

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:30:29 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	6.09	TIC	391564	25.000	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	638438	25.000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.51	TIC	23343	25.000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.05	TIC	14168522m	828.382	ppb	100

Quantitation Report

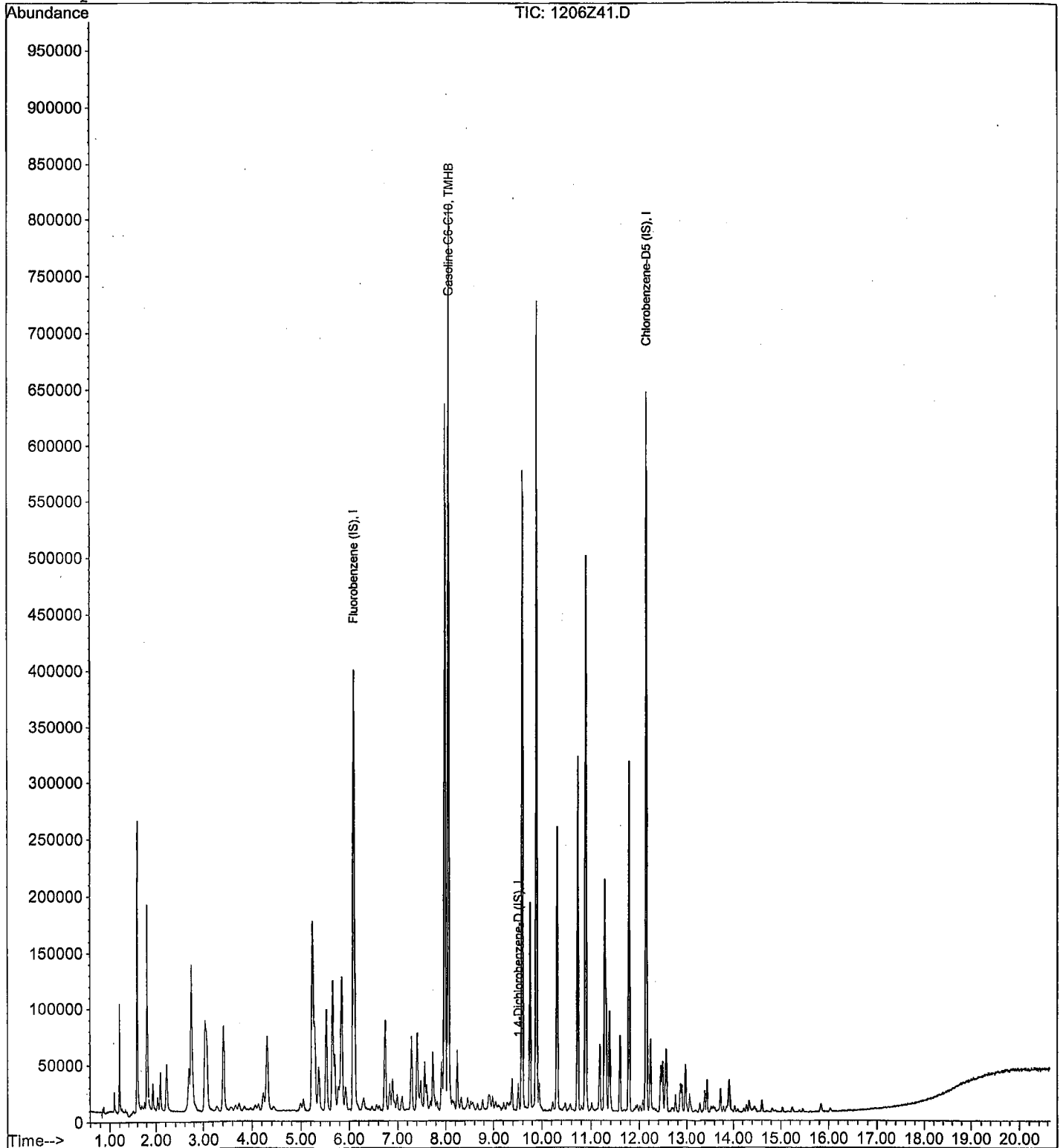
Data File : M:\ZEUS\DATA\211206\1206Z41.D  
Acq On : 07 Dec 21 01:25  
Sample : 800ug/L GAS STD 12/6/21  
Misc :

Vial: 26  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 7 12:37 2021

Quant Results File: ZGAS1206.RE

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 12:37:53 2021  
Response via : Initial Calibration



Data File : M:\ZEUS\DATA\211206\1206Z42.D  
 Acq On : 07 Dec 21 01:49  
 Sample : 1000ug/L GAS STD 12/6/21  
 Misc :

Vial: 27  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 7 12:37 2021

Quant Results File: ZGAS1206.RE

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:30:29 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	401524	25.000	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	661948	25.000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.51	TIC	30806	25.000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.05	TIC	16723774m	1020.078	ppb	100

Quantitation Report

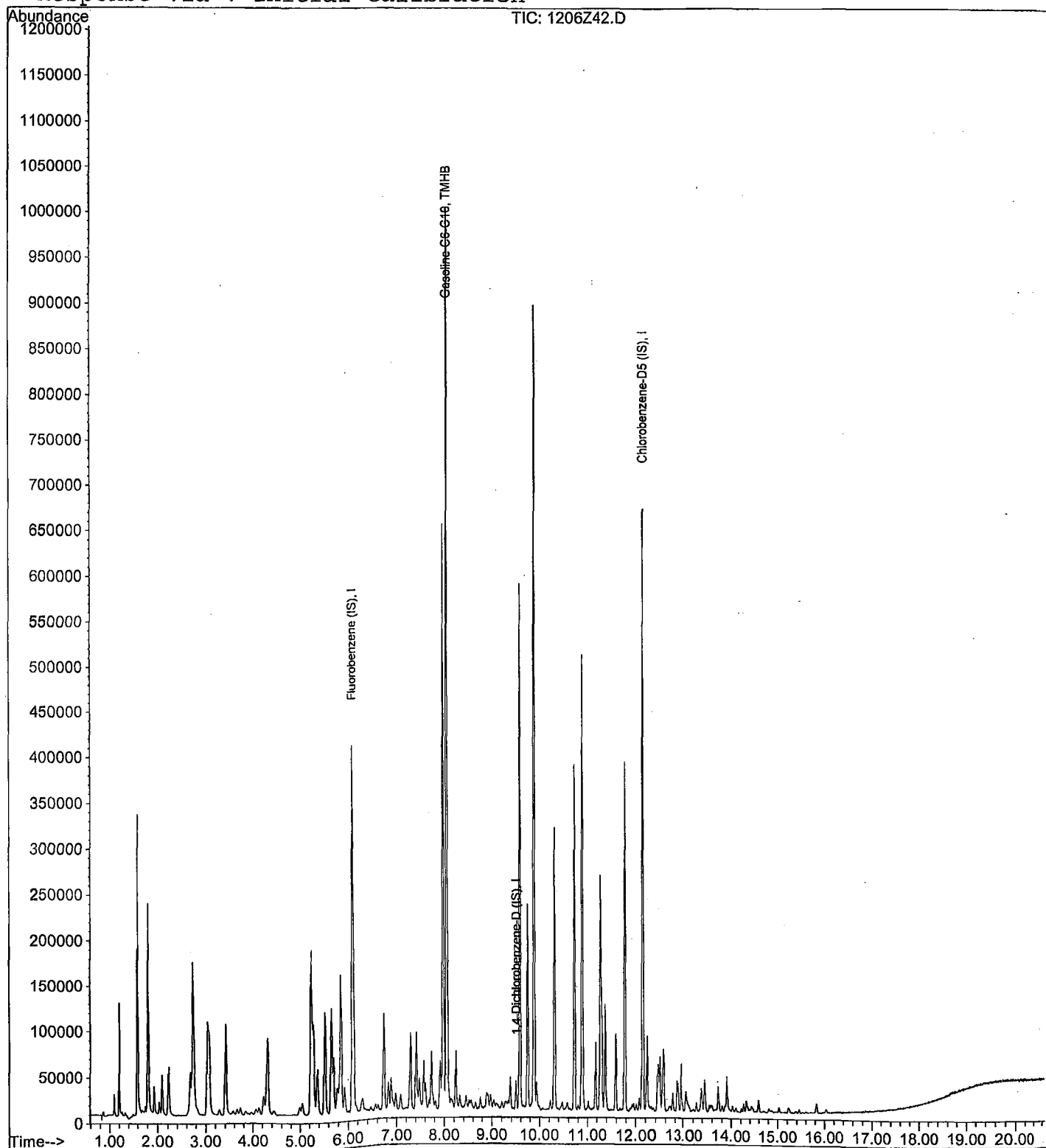
Data File : M:\ZEUS\DATA\211206\1206Z42.D  
Acq On : 07 Dec 21 01:49  
Sample : 1000ug/L GAS STD 12/6/21  
Misc :

Vial: 27  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 7 12:37 2021

Quant Results File: ZGAS1206.RES

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 12:37:53 2021  
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS  
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.

Case No: \_\_\_\_\_

Matrix: GAS

SDG No: \_\_\_\_\_

Date Analyzed: 12/7/2021

Instrument: Zeus

Initial Cal. Date: 12/6/2021

Data File: 1206Z43.D

		Compound	MEAN	CCRF	%D		%Drift
1	TMHB	Gasoline C6-C10	8.386	2.783	67	TMHBL	7.8
2							
3							
4							
5							
6							
7							
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34							
35							
36							
37							
38							
39							
40							

Average

67.0

Data File : M:\ZEUS\DATA\211206\1206Z43.D Vial: 28  
 Acq On : 07 Dec 21 02:13 Operator: MH  
 Sample : (SS) 300ug/L GAS STD 12/6/21 Inst : Zeus  
 Misc : Multiplr: 1.00

Quant Time: Dec 7 12:40 2021 Quant Results File: ZGAS1206.RE

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:30:29 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	387052	25.000	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.15	TIC	654794	25.000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.51	TIC	11888	25.000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	7.98	TIC	8706651m	348.303	ppb	100

Quantitation Report

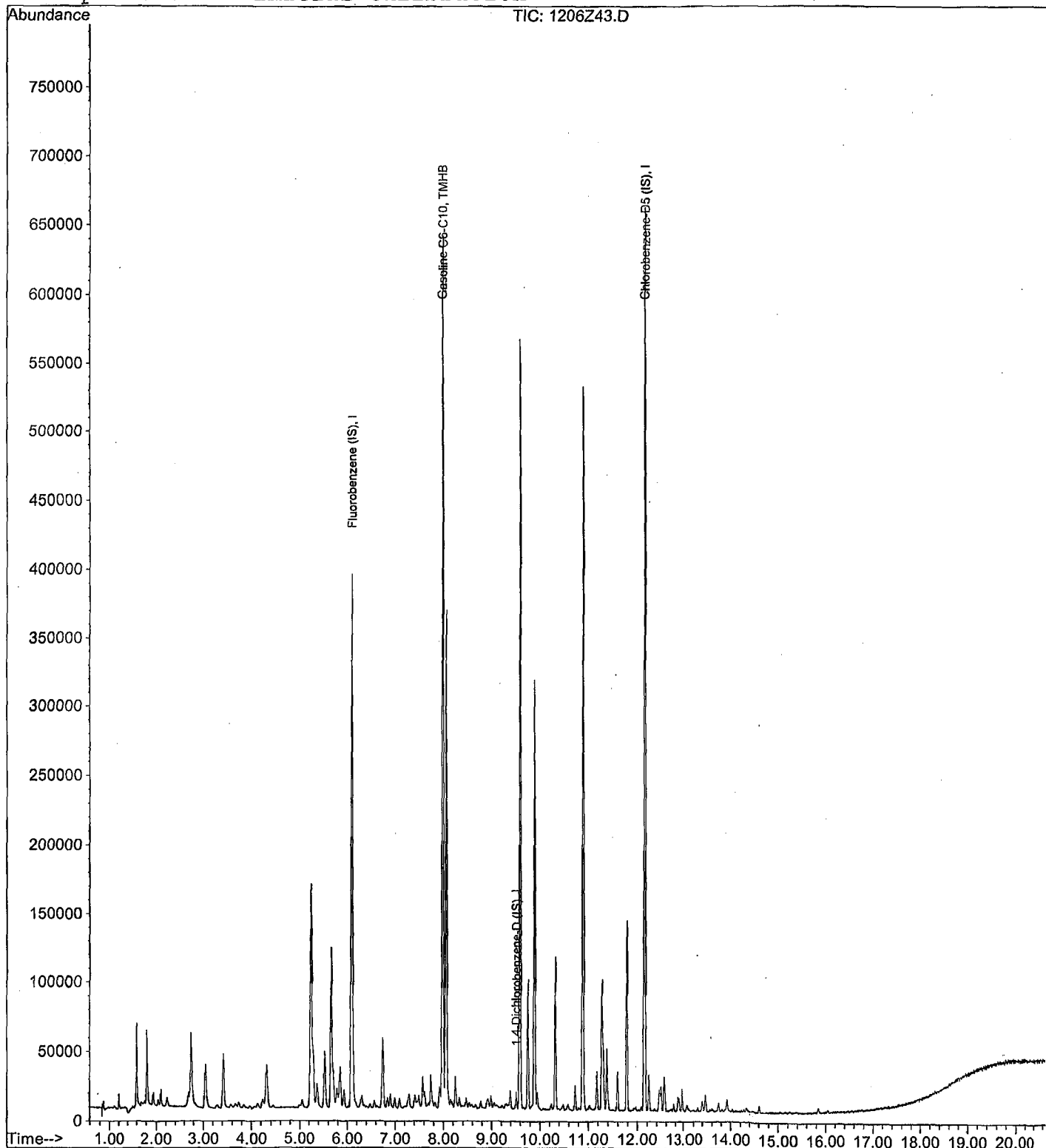
Data File : M:\ZEUS\DATA\211206\1206Z43.D  
Acq On : 07 Dec 21 02:13  
Sample : (SS) 300ug/L GAS STD 12/6/21  
Misc :

Vial: 28  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 7 12:40 2021

Quant Results File: ZGAS1206.RES

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 12:37:53 2021  
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS  
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: \_\_\_\_\_

Case No: \_\_\_\_\_

Date Analyzed: 12/7/2021

Matrix: Water

Instrument: Zeus

Initial Cal. Date: 12/6/2021

Data File: 1207Z05.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Fluorobenzene (IS)	ISTD			I
2	TMHB Gasoline C6-C10	4.681	1.780	62	TMHBL 1.1
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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26					
27					
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31					
32					
33					
34					
35					
36					
37					
38					
39					
40	Average			62.0	



VOLATILE ORGANIC ANALYSIS  
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: \_\_\_\_\_

Case No: \_\_\_\_\_

Date Analyzed: 12/7/2021

Matrix: Water

Instrument: Zeus

Initial Cal. Date: 12/6/2021

Data File: 1207Z05.D

	Compound	MEAN	CCRF	%D	%Drift	
1	I Fluorobenzene (IS)	ISTD			I	
2	S Dibromofluoromethane(S)	0.2216	0.2384	7.6	S	
3	S 1,2-DCA-D4(S)	0.1869	0.2075	11	S	
4	I Chlorobenzene-D5 (IS)	ISTD			I	
5	SL Toluene-D8(S)	1.104	1.223	11	SL	1.3
6	SL 4-Bromofluorobenzene(S)	0.4508	0.5018	11	SL	1.4
7	I 1,4-Dichlorobenzene-D (IS)	ISTD			I	
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
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35						
36						
37						
38						
39						
40	Average			10.2		

Data File : M:\ZEUS\DATA\211206\1207Z05.D  
 Acq On : 07 Dec 21 16:43  
 Sample : 211207A CCV 300ug/L  
 Misc :

Vial: 5  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 11:11 2021

Quant Results File: ZGAS1206.RE

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:37:53 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	377708	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	643195	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.51	TIC	9839	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	7.98	TIC	8067002m	296.68	ppb	100

Data File : M:\ZEUS\DATA\211206\1207Z05.D  
 Acq On : 07 Dec 21 16:43  
 Sample : 211207A CCV 300ug/L  
 Misc :

Vial: 5  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 12:30 2021

Quant Results File: Z1206SUR.RE

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:53:13 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	6.09	96	403420	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	359753	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	121712	25.00	ppb	0.00
<b>System Monitoring Compounds</b>						
2) Dibromofluoromethane(S)	5.23	111	96159	26.89	ppb	0.00
Spiked Amount	25.000					
				Recovery	=	107.560%
3) 1,2-DCA-D4(S)	5.65	65	83696	27.75	ppb	0.00
Spiked Amount	25.000					
				Recovery	=	110.980%
5) Toluene-D8(S)	7.98	98	440031	25.33	ppb	0.00
Spiked Amount	25.000					
				Recovery	=	101.340%
6) 4-Bromofluorobenzene(S)	10.89	95	180510	25.34	ppb	0.00
Spiked Amount	25.000					
				Recovery	=	101.368%

Target Compounds

Qvalue

Quantitation Report

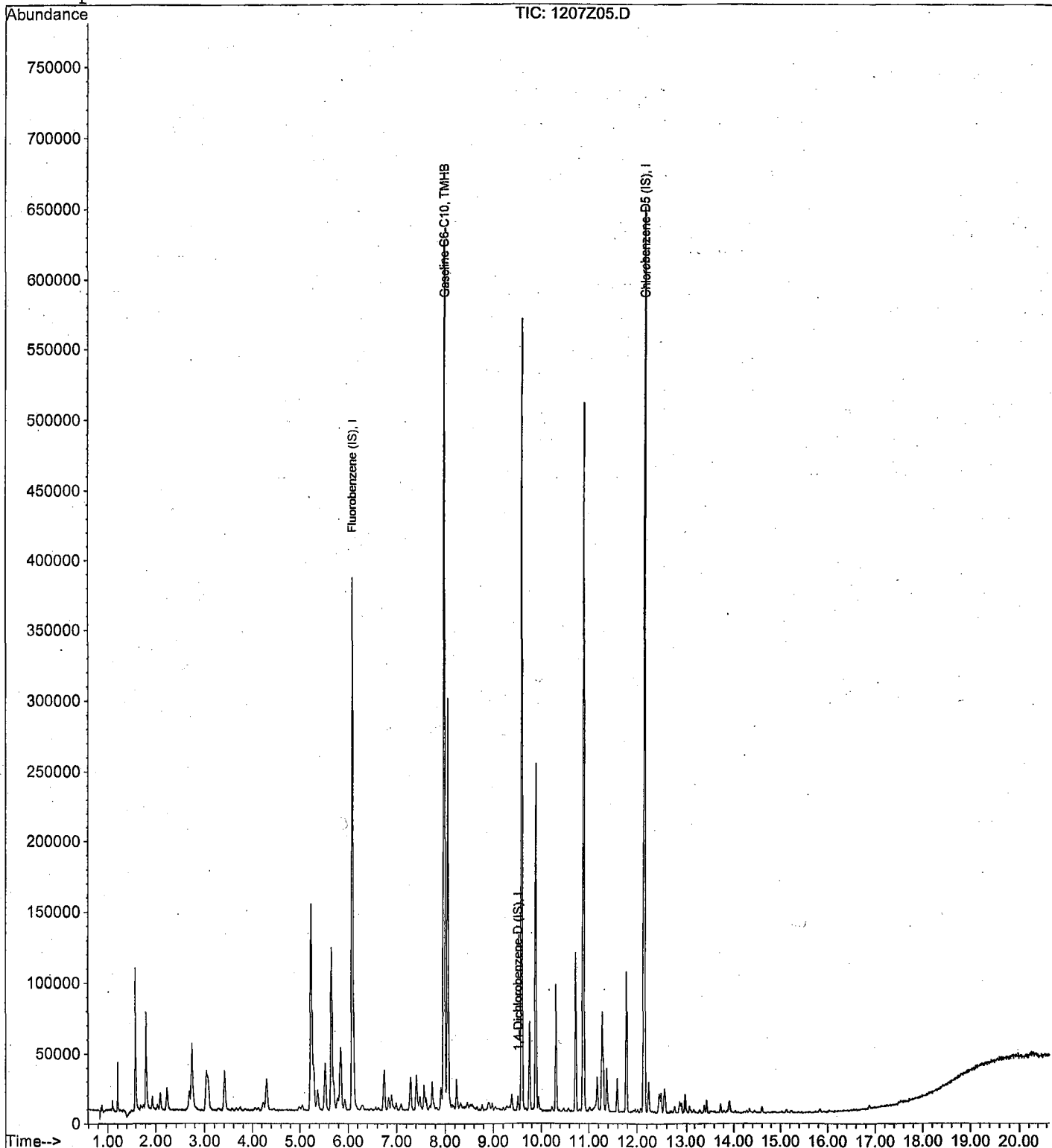
Data File : M:\ZEUS\DATA\211206\1207Z05.D  
Acq On : 07 Dec 21 16:43  
Sample : 211207A CCV 300ug/L  
Misc :

Vial: 5  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 8 11:11 2021

Quant Results File: ZGAS1206.RE

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 12:37:53 2021  
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: 12/8/2021

Matrix: Water

Instrument: Zeus

Initial Cal. Date: 12/6/2021

Data File: 1207Z31.D

	Compound	MEAN	CCRF	%D	%Drift
1	Fluorobenzene (IS)	ISTD			
2	TMHB Gasoline C6-C10	4.681	1.832	61	TMHBL 6.1
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					
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24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40	Average			61.0	

VOLATILE ORGANIC ANALYSIS  
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.

SDG No: \_\_\_\_\_

Case No: \_\_\_\_\_

Date Analyzed: 12/8/2021

Matrix: Water

Instrument: Zeus

Initial Cal. Date: 12/6/2021

Data File: 1207Z31.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	S	Dibromofluoromethane(S)	0.2216	0.2430	9.7	S	
3	S	1,2-DCA-D4(S)	0.1869	0.2013	7.7	S	
4	I	Chlorobenzene-D5 (IS)	ISTD			I	
5	SL	Toluene-D8(S)	1.104	1.189	7.7	SL	1.3
6	SL	4-Bromofluorobenzene(S)	0.4508	0.4921	9.1	SL	0.45
7	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
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31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

Average

8.6

Data File : M:\ZEUS\DATA\211206\1207Z31.D  
Acq On : 08 Dec 21 03:07  
Sample : Ending CCV 300ug/L 12/7/21  
Misc :

Vial: 31  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 8 11:10 2021

Quant Results File: ZGAS1206.RE

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 12:37:53 2021  
Response via : Initial Calibration  
DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	6.09	TIC	343870	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	594422	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.51	TIC	7097	25.00	ppb	0.00

#### System Monitoring Compounds

#### Target Compounds

2) Gasoline C6-C10	7.98	TIC	7558404m	318.16	ppb	Qvalue 100
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Data File : M:\ZEUS\DATA\211206\1207Z31.D  
 Acq On : 08 Dec 21 03:07  
 Sample : Ending CCV 300ug/L 12/7/21  
 Misc :

Vial: 31  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 12:30 2021

Quant Results File: Z1206SUR.RE

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:53:13 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	368479	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	338733	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	111192	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.23	111	89551	27.42	ppb	0.00
Spiked Amount	25.000					
				Recovery	=	109.664%
3) 1,2-DCA-D4(S)	5.65	65	74176	26.92	ppb	0.00
Spiked Amount	25.000					
				Recovery	=	107.684%
5) Toluene-D8(S)	7.98	98	402893	24.68	ppb	0.00
Spiked Amount	25.000					
				Recovery	=	98.720%
6) 4-Bromofluorobenzene(S)	10.88	95	166682	24.89	ppb	0.00
Spiked Amount	25.000					
				Recovery	=	99.544%

Target Compounds

Qvalue



Quantitation Report

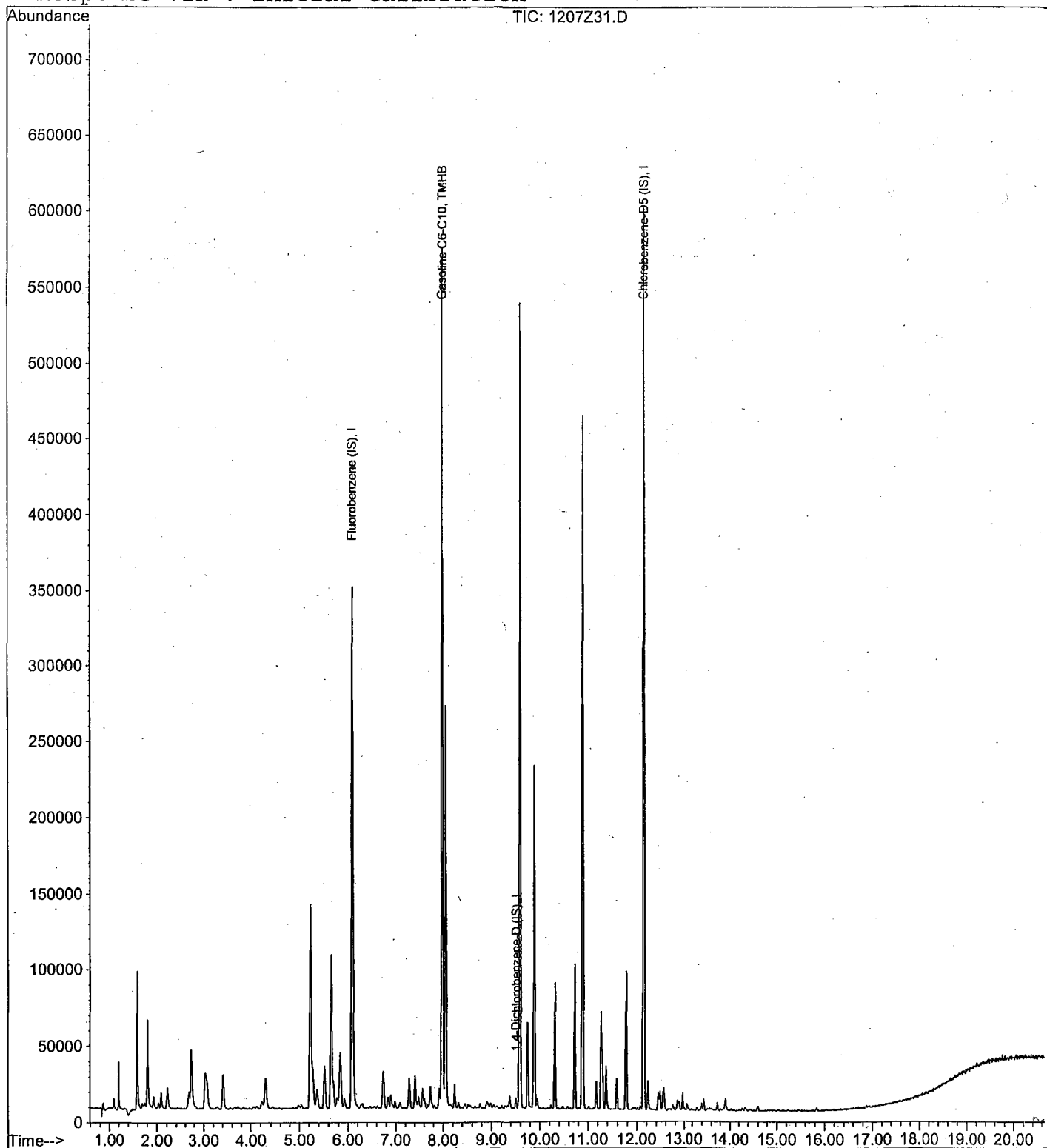
Data File : M:\ZEUS\DATA\211206\1207Z31.D  
Acq On : 08 Dec 21 03:07  
Sample : Ending CCV 300ug/L 12/7/21  
Misc :

Vial: 31  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 8 11:10 2021

Quant Results File: ZGAS1206.RE

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 12:37:53 2021  
Response via : Initial Calibration



**ORGANICS**  
**Raw Data**

Data File : M:\ZEUS\DATA\211206\1207Z14.D  
Acq On : 07 Dec 21 20:19  
Sample : BA46978W02  
Misc :

Vial: 14  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 8 11:54 2021

Quant Results File: ZGAS1206.RE

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 12:37:53 2021  
Response via : Initial Calibration  
DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	332351	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	602147	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.58	TIC	513162	25.00	ppb	0.08

#### System Monitoring Compounds

Target Compounds

Qvalue

Data File : M:\ZEUS\DATA\211206\1207Z14.D  
 Acq On : 07 Dec 21 20:19  
 Sample : BA46978W02  
 Misc :

Vial: 14  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 12:30 2021

Quant Results File: Z1206SUR.RE

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:53:13 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	356723	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	333299	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	114000	25.00	ppb	0.00
<b>System Monitoring Compounds</b>						
2) Dibromofluoromethane(S)	5.23	111	89484	28.30	ppb	0.00
Spiked Amount						
			Recovery	=		113.196%
3) 1,2-DCA-D4(S)	5.65	65	74808	28.05	ppb	0.00
Spiked Amount						
			Recovery	=		112.180%
5) Toluene-D8(S)	7.98	98	390662	24.34	ppb	0.00
Spiked Amount						
			Recovery	=		97.376%
6) 4-Bromofluorobenzene(S)	10.88	95	160854	24.44	ppb	0.00
Spiked Amount						
			Recovery	=		97.768%

Target Compounds

Qvalue

Quantitation Report

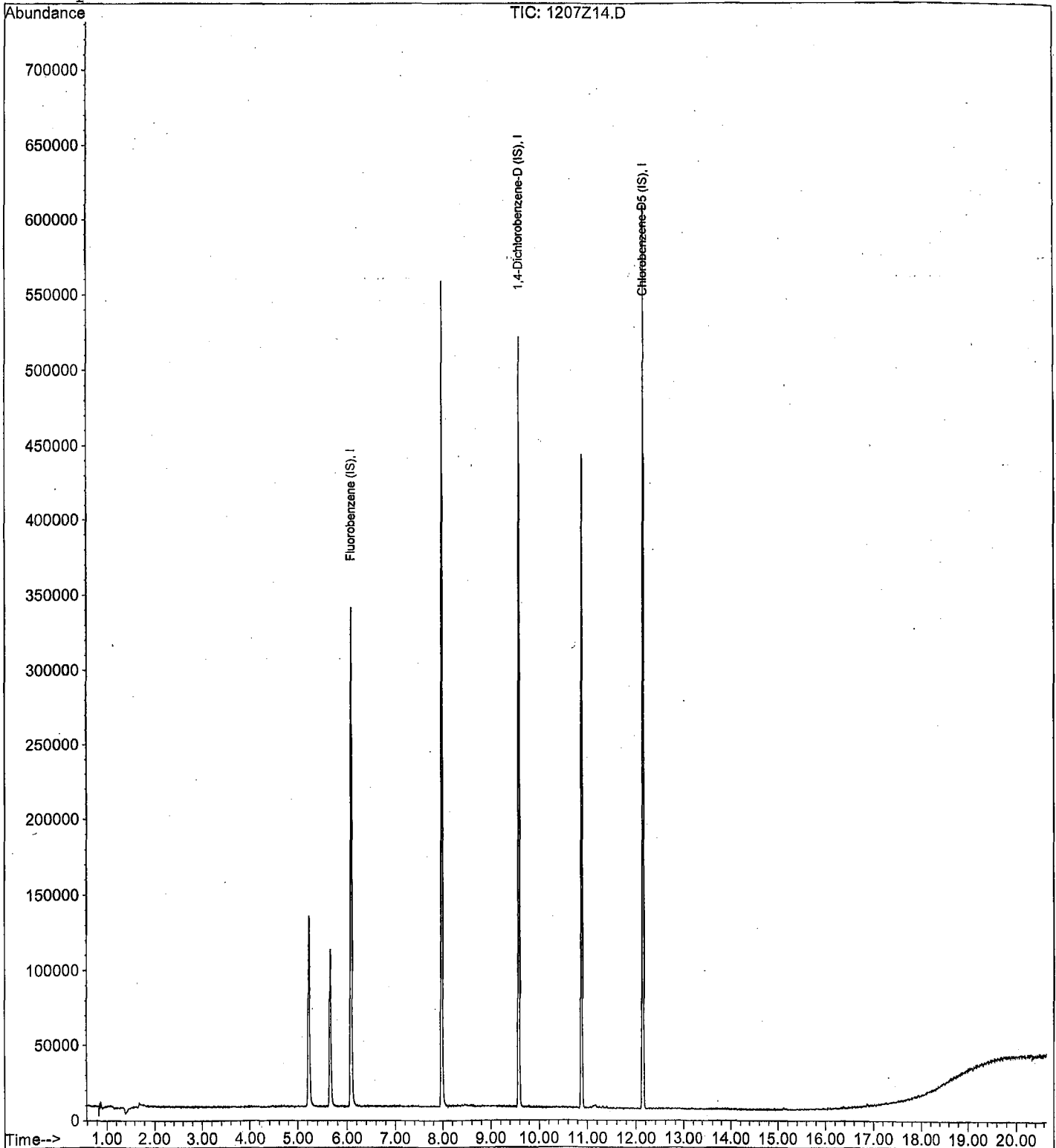
Data File : M:\ZEUS\DATA\211206\1207Z14.D  
Acq On : 07 Dec 21 20:19  
Sample : BA46978W02  
Misc :

Vial: 14  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 8 11:54 2021

Quant Results File: ZGAS1206.RE

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 12:37:53 2021  
Response via : Initial Calibration



Data File : M:\ZEUS\DATA\211206\1207Z15.D  
Acq On : 07 Dec 21 20:43  
Sample : BA46979W02  
Misc :

Vial: 15  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 8 11:55 2021

Quant Results File: ZGAS1206.RE

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 12:37:53 2021  
Response via : Initial Calibration  
DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	331699	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	619286	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.58	TIC	523570	25.00	ppb	0.08

System Monitoring Compounds

Target Compounds

Qvalue

Data File : M:\ZEUS\DATA\211206\1207Z15.D  
 Acq On : 07 Dec 21 20:43  
 Sample : BA46979W02  
 Misc :

Vial: 15  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 12:30 2021

Quant Results File: Z1206SUR.RE

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:53:13 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	363636	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	337314	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.15	152	117632	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane (S)	5.23	111	88394	27.42	ppb	0.00
Spiked Amount			Recovery	=	109.692%	
3) 1,2-DCA-D4 (S)	5.65	65	74431	27.37	ppb	0.00
Spiked Amount			Recovery	=	109.492%	
5) Toluene-D8 (S)	7.98	98	390863	24.08	ppb	0.00
Spiked Amount			Recovery	=	96.336%	
6) 4-Bromofluorobenzene (S)	10.88	95	162207	24.36	ppb	0.00
Spiked Amount			Recovery	=	97.440%	

Target Compounds

Qvalue

Quantitation Report

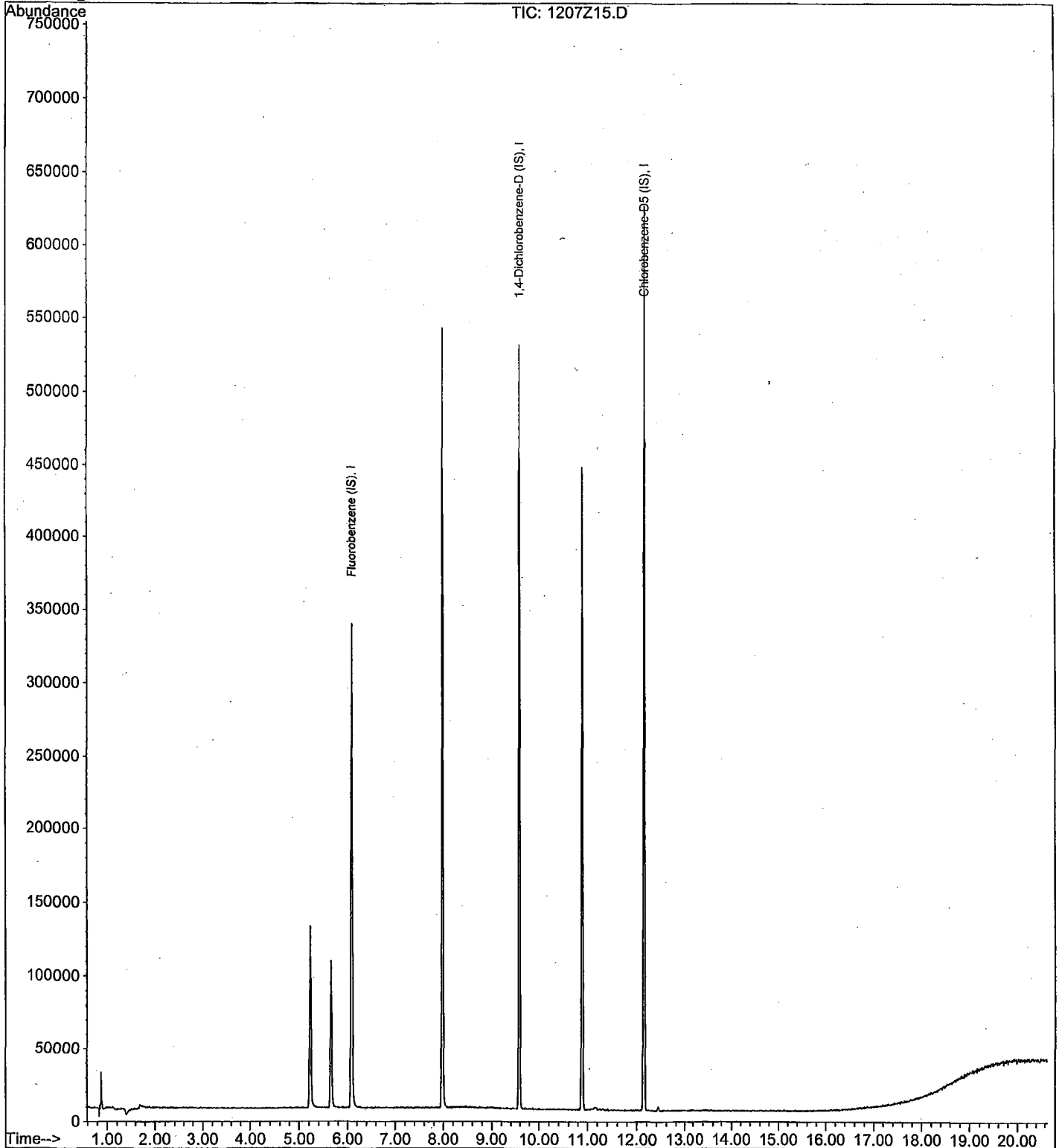
Data File : M:\ZEUS\DATA\211206\1207Z15.D  
Acq On : 07 Dec 21 20:43  
Sample : BA46979W02  
Misc :

Vial: 15  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 8 11:55 2021

Quant Results File: ZGAS1206.RE

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 12:37:53 2021  
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z16.D  
 Acq On : 07 Dec 21 21:07  
 Sample : BA46980W03  
 Misc :

Vial: 16  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 11:55 2021

Quant Results File: ZGAS1206.RES

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:37:53 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	327181	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	595335	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.58	TIC	508099	25.00	ppb	0.08

System Monitoring Compounds

Target Compounds

Qvalue

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z16.D  
 Acq On : 07 Dec 21 21:07  
 Sample : BA46980W03  
 Misc :

Vial: 16  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 12:30 2021

Quant Results File: Z1206SUR.RE

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:53:13 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	6.09	96	352905	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	330640	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.15	152	110600	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.23	111	88281	28.22	ppb	0.00
Spiked Amount	25.000		Recovery	=	112.880%	
3) 1,2-DCA-D4(S)	5.65	65	72908	27.63	ppb	0.00
Spiked Amount	25.000		Recovery	=	110.512%	
5) Toluene-D8(S)	7.98	98	384130	24.14	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.572%	
6) 4-Bromofluorobenzene(S)	10.89	95	158051	24.23	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.900%	

Target Compounds

Qvalue

Quantitation Report

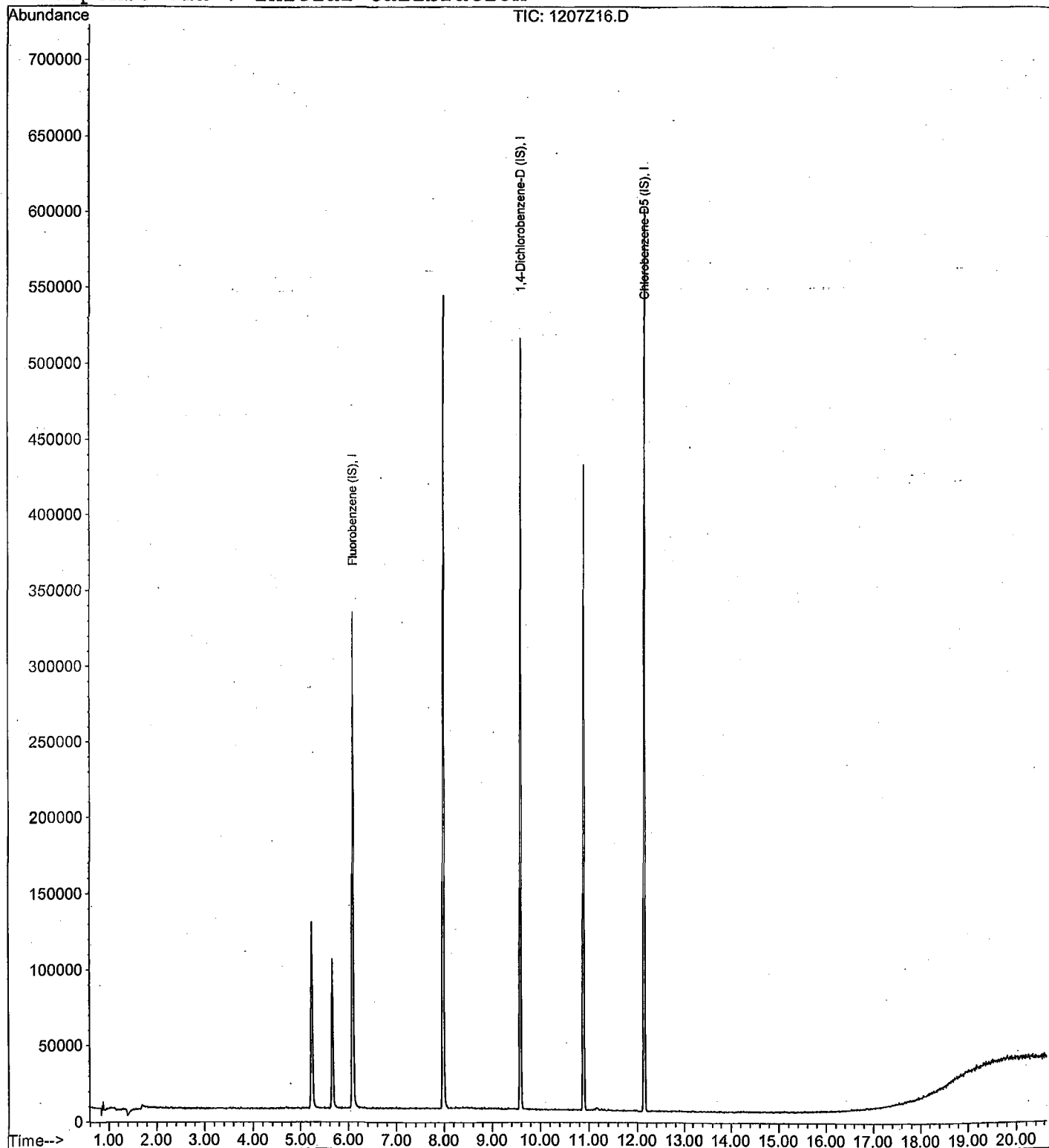
Data File : M:\ZEUS\DATA\211206\1207Z16.D  
Acq On : 07 Dec 21 21:07  
Sample : BA46980W03  
Misc :

Vial: 16  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 8 11:55 2021

Quant Results File: ZGAS1206.RE

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 12:37:53 2021  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z17.D Vial: 17  
 Acq On : 07 Dec 21 21:31 Operator: MH  
 Sample : BA46981W02 Inst : Zeus  
 Misc : Multiplr: 1.00

Quant Time: Dec 8 11:56 2021 Quant Results File: ZGAS1206.RE

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:37:53 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	6.09	TIC	322375	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	599798	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.58	TIC	522186	25.00	ppb	0.08

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	7.98	TIC	4842178m	78.15	ppb	100

Data File : M:\ZEUS\DATA\211206\1207Z17.D  
 Acq On : 07 Dec 21 21:31  
 Sample : BA46981W02  
 Misc :

Vial: 17  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 12:30 2021

Quant Results File: Z1206SUR.RES

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:53:13 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	353635	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	333416	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	113112	25.00	ppb	0.00
<b>System Monitoring Compounds</b>						
2) Dibromofluoromethane(S)	5.23	111	87653	27.96	ppb	0.00
Spiked Amount	25.000		Recovery	=	111.848%	
3) 1,2-DCA-D4(S)	5.65	65	74657	28.23	ppb	0.00
Spiked Amount	25.000		Recovery	=	112.932%	
5) Toluene-D8(S)	7.98	98	387276	24.14	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.556%	
6) 4-Bromofluorobenzene(S)	10.88	95	167027	25.30	ppb	0.00
Spiked Amount	25.000		Recovery	=	101.216%	

Target Compounds

Qvalue

Quantitation Report

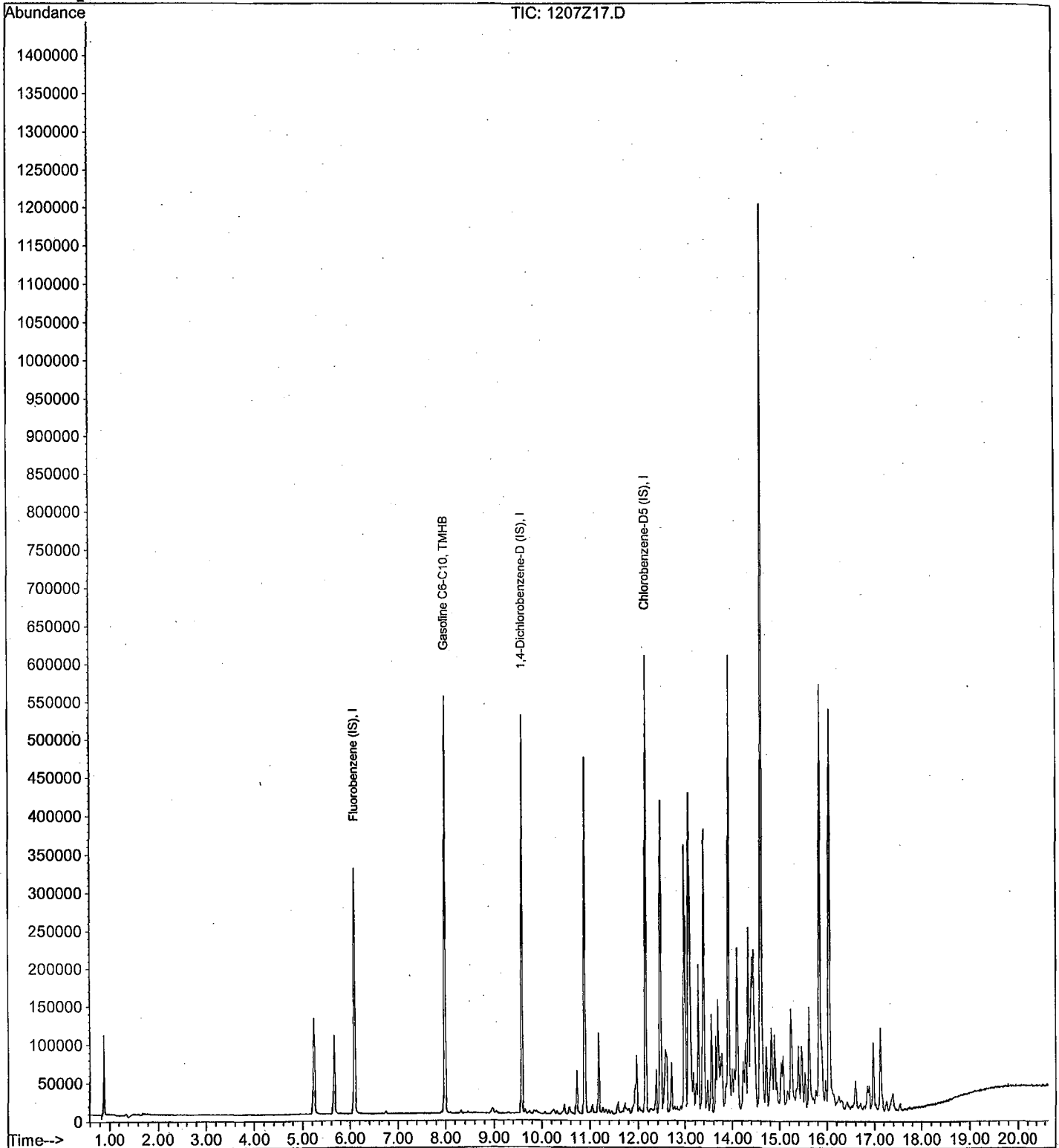
Data File : M:\ZEUS\DATA\211206\1207Z17.D  
Acq On : 07 Dec 21 21:31  
Sample : BA46981W02  
Misc :

Vial: 17  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 8 11:56 2021

Quant Results File: ZGAS1206.RES

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 12:37:53 2021  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z18.D  
 Acq On : 07 Dec 21 21:55  
 Sample : BA46982W02  
 Misc :

Vial: 18  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 11:56 2021

Quant Results File: ZGAS1206.RE

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:37:53 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	349331	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	586453	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.58	TIC	529154	25.00	ppb	0.08

System Monitoring Compounds

Target Compounds

Qvalue

Data File : M:\ZEUS\DATA\211206\1207Z18.D  
 Acq On : 07 Dec 21 21:55  
 Sample : BA46982W02  
 Misc :

Vial: 18  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 12:30 2021

Quant Results File: Z1206SUR.RE

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:53:13 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	6.09	96	373967	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	344217	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.15	152	111144	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.23	111	92166	27.80	ppb	0.00
Spiked Amount						
						Recovery = 111.212%
3) 1,2-DCA-D4(S)	5.65	65	77609	27.75	ppb	0.00
Spiked Amount						Recovery = 111.012%
5) Toluene-D8(S)	7.98	98	408193	24.61	ppb	0.00
Spiked Amount						Recovery = 98.444%
6) 4-Bromofluorobenzene(S)	10.88	95	168003	24.70	ppb	0.00
Spiked Amount						Recovery = 98.792%

Target Compounds

Qvalue



Quantitation Report

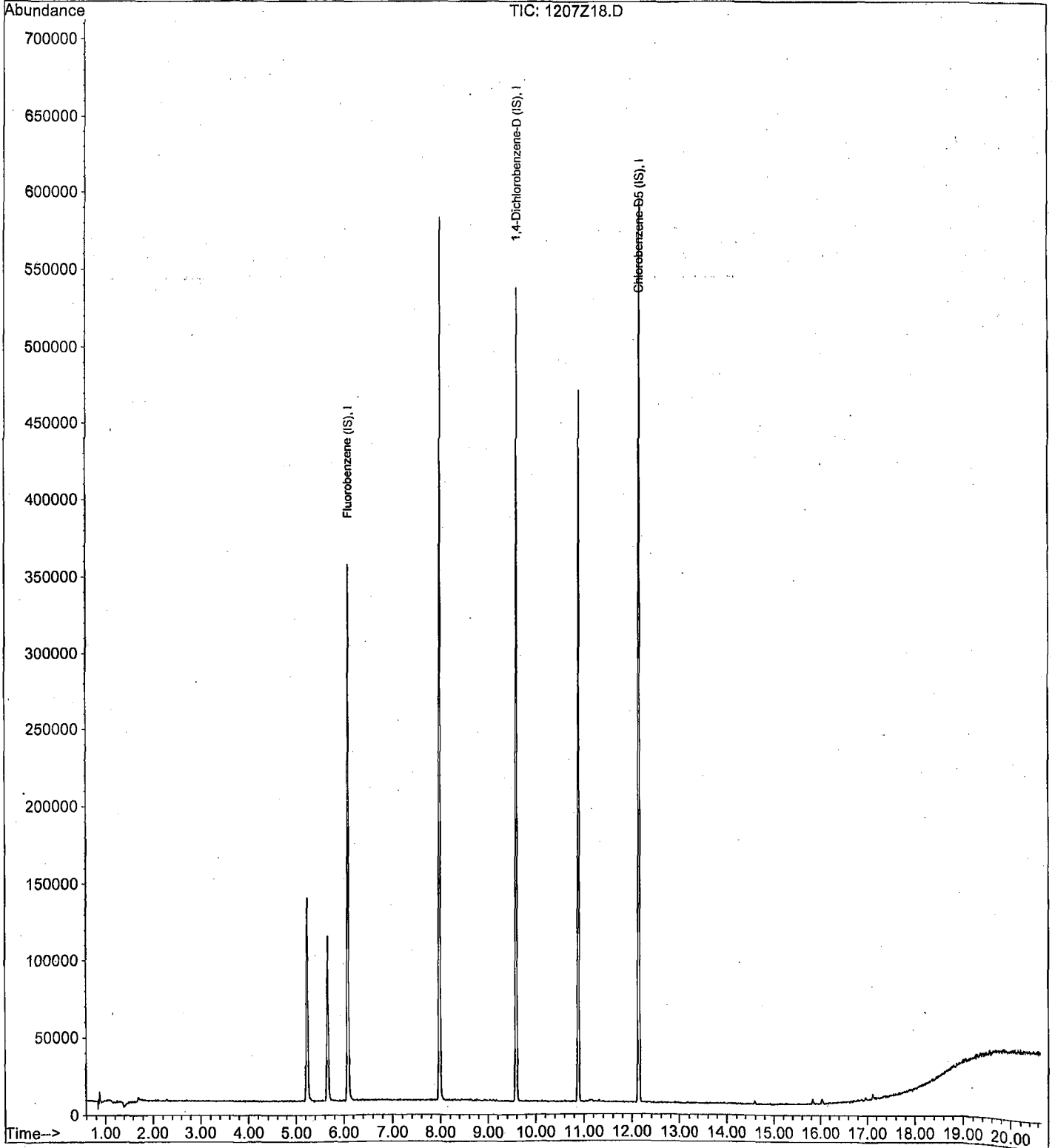
Data File : M:\ZEUS\DATA\211206\1207Z18.D  
Acq On : 07 Dec 21 21:55  
Sample : BA46982W02  
Misc :

Vial: 18  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 8 11:56 2021

Quant Results File: ZGAS1206.RE

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 12:37:53 2021  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z19.D Vial: 19  
Acq On : 07 Dec 21 22:19 Operator: MH  
Sample : BA46983W02 Inst : Zeus  
Misc : Multiplr: 1.00

Quant Time: Dec 8 11:57 2021 Quant Results File: ZGAS1206.RES

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 12:37:53 2021  
Response via : Initial Calibration  
DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	347104	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	615007	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.58	TIC	540783	25.00	ppb	0.08

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z19.D  
 Acq On : 07 Dec 21 22:19  
 Sample : BA46983W02  
 Misc :

Vial: 19  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 12:30 2021

Quant Results File: Z1206SUR.RE

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:53:13 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	6.09	96	377993	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	348377	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	116216	25.00	ppb	0.00
<b>System Monitoring Compounds</b>						
2) Dibromofluoromethane(S)	5.23	111	94466	28.19	ppb	0.00
Spiked Amount						
						Recovery = 112.772%
3) 1,2-DCA-D4(S)	5.65	65	78830	27.89	ppb	0.00
Spiked Amount						Recovery = 111.560%
5) Toluene-D8(S)	7.98	98	420590	25.03	ppb	0.00
Spiked Amount						Recovery = 100.108%
6) 4-Bromofluorobenzene(S)	10.89	95	171994	24.96	ppb	0.00
Spiked Amount						Recovery = 99.852%

Target Compounds

Qvalue

Quantitation Report

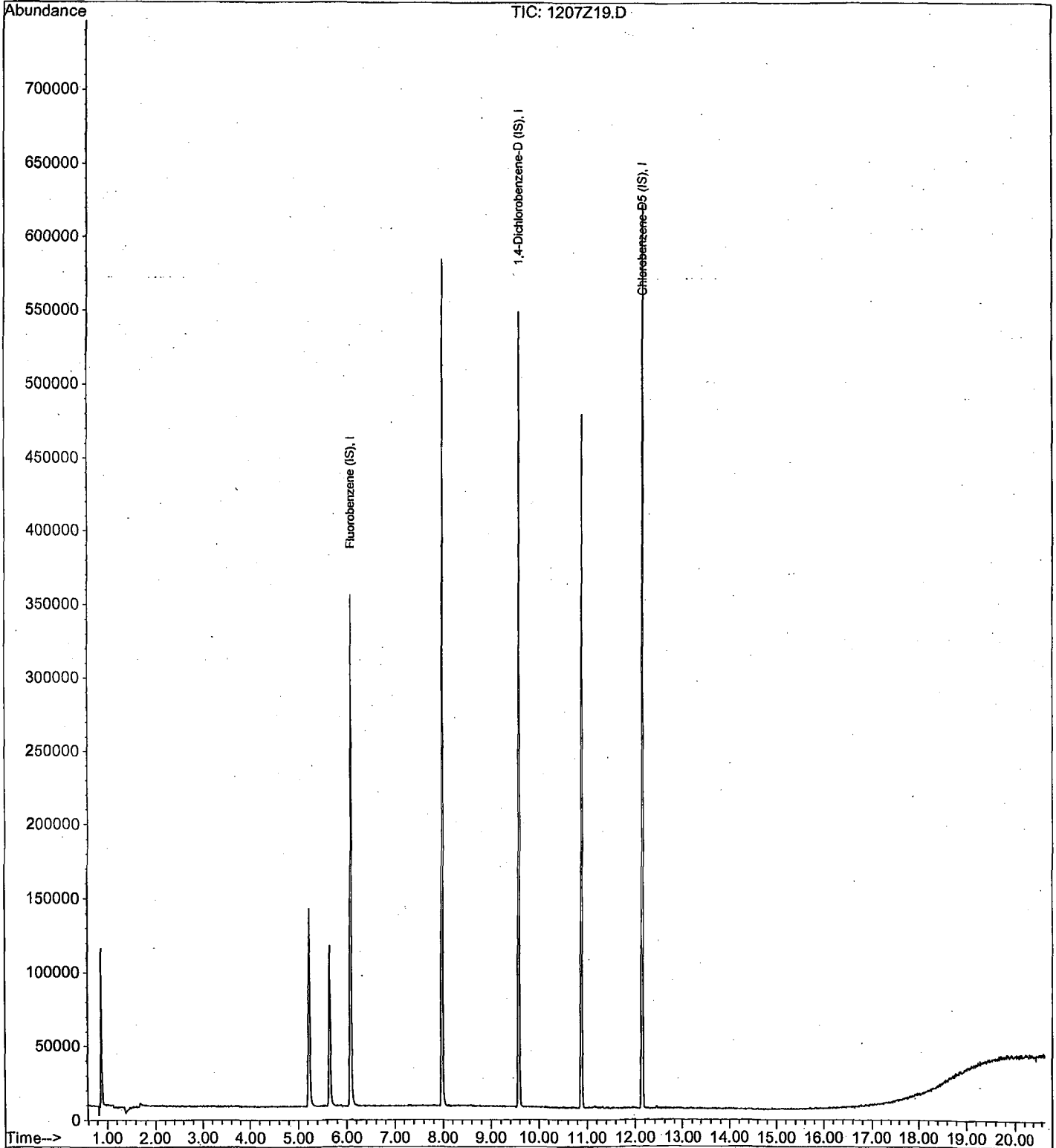
Data File : M:\ZEUS\DATA\211206\1207Z19.D  
Acq On : 07 Dec 21 22:19  
Sample : BA46983W02  
Misc :

Vial: 19  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 8 11:57 2021

Quant Results File: ZGAS1206.RES

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 12:37:53 2021  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z20.D  
 Acq On : 07 Dec 21 22:43  
 Sample : BA46984W02  
 Misc :

Vial: 20  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 11:57 2021

Quant Results File: ZGAS1206.RES

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:37:53 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	339024	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	622081	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.58	TIC	545661	25.00	ppb	0.08

System Monitoring Compounds

Target Compounds

Qvalue

Data File : M:\ZEUS\DATA\211206\1207Z20.D  
 Acq On : 07 Dec 21 22:43  
 Sample : BA46984W02  
 Misc :

Vial: 20  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 12:30 2021

Quant Results File: Z1206SUR.RE

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:53:13 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	6.09	96	375908	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	347557	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	117744	25.00	ppb	0.00
<b>System Monitoring Compounds</b>						
2) Dibromofluoromethane(S)	5.23	111	94150	28.25	ppb	0.00
Spiked Amount				25.000		
			Recovery	=	113.020%	
3) 1,2-DCA-D4 (S)	5.66	65	79290	28.21	ppb	0.00
Spiked Amount				25.000		
			Recovery	=	112.832%	
5) Toluene-D8 (S)	7.98	98	416639	24.86	ppb	0.00
Spiked Amount				25.000		
			Recovery	=	99.444%	
6) 4-Bromofluorobenzene(S)	10.88	95	171985	25.02	ppb	0.00
Spiked Amount				25.000		
			Recovery	=	100.064%	

Target Compounds

Qvalue

Quantitation Report

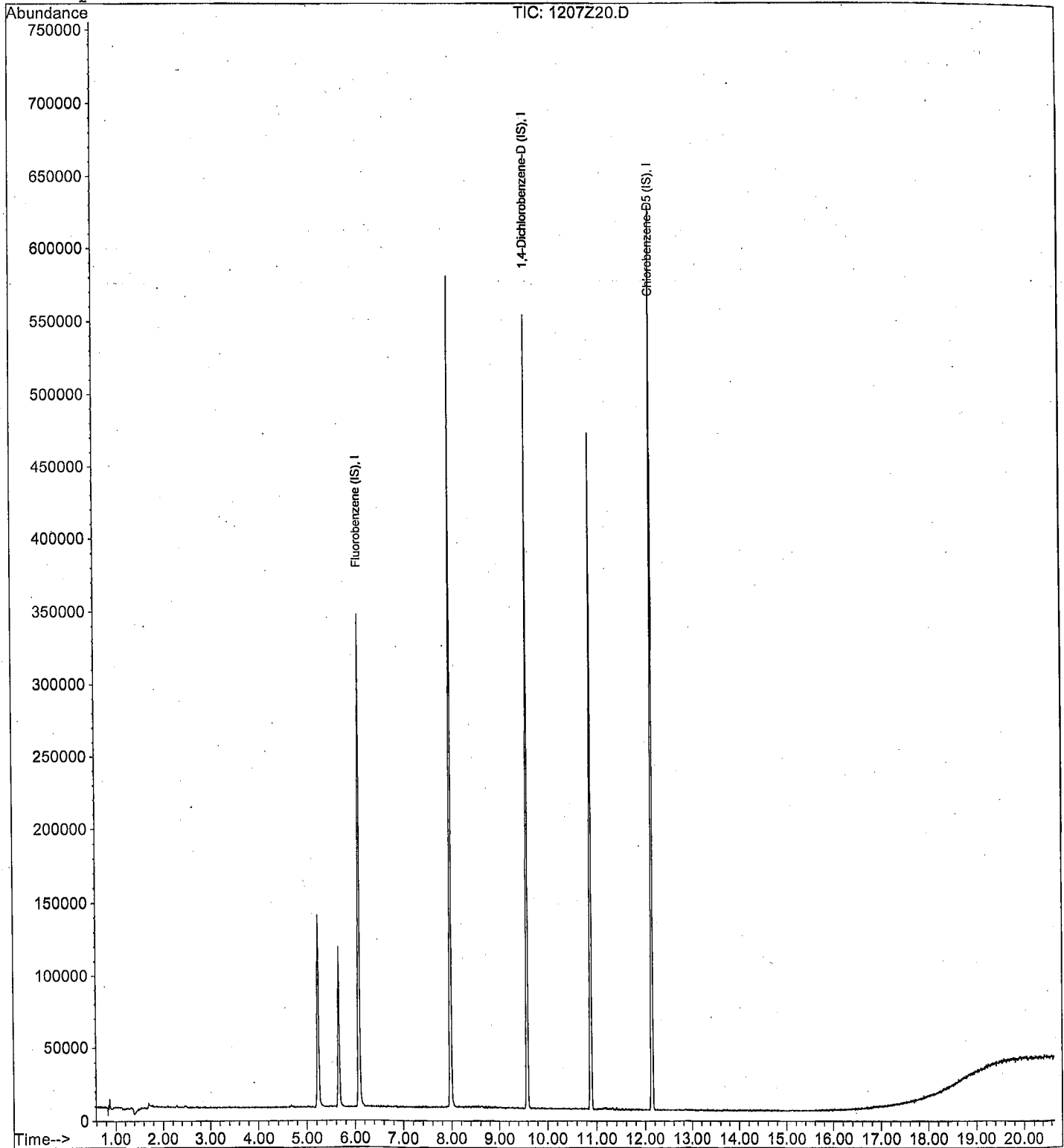
Data File : M:\ZEUS\DATA\211206\1207Z20.D  
Acq On : 07 Dec 21 22:43  
Sample : BA46984W02  
Misc :

Vial: 20  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 8 11:57 2021

Quant Results File: ZGAS1206.RE

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 12:37:53 2021  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z21.D  
 Acq On : 07 Dec 21 23:07  
 Sample : BA46985W02  
 Misc :

Vial: 21  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 11:58 2021

Quant Results File: ZGAS1206.RES

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:37:53 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	320949	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	597133	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.58	TIC	523522	25.00	ppb	0.08

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	7.98	TIC	4245919m	16.38	ppb	100

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



Data File : M:\ZEUS\DATA\211206\1207Z21.D  
 Acq On : 07 Dec 21 23:07  
 Sample : BA46985W02  
 Misc :

Vial: 21  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 12:30 2021

Quant Results File: Z1206SUR.RE

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:53:13 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	346082	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	330128	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	112256	25.00	ppb	0.00
<b>System Monitoring Compounds</b>						
2) Dibromofluoromethane(S)	5.23	111	90221	29.41	ppb	0.00
Spiked Amount	25.000		Recovery	= 117.636%		
3) 1,2-DCA-D4(S)	5.65	65	74379	28.74	ppb	0.00
Spiked Amount	25.000		Recovery	= 114.968%		
5) Toluene-D8(S)	7.98	98	394318	24.78	ppb	0.00
Spiked Amount	25.000		Recovery	= 99.108%		
6) 4-Bromofluorobenzene(S)	10.89	95	164945	25.24	ppb	0.00
Spiked Amount	25.000		Recovery	= 100.968%		

Target Compounds

Qvalue

Quantitation Report

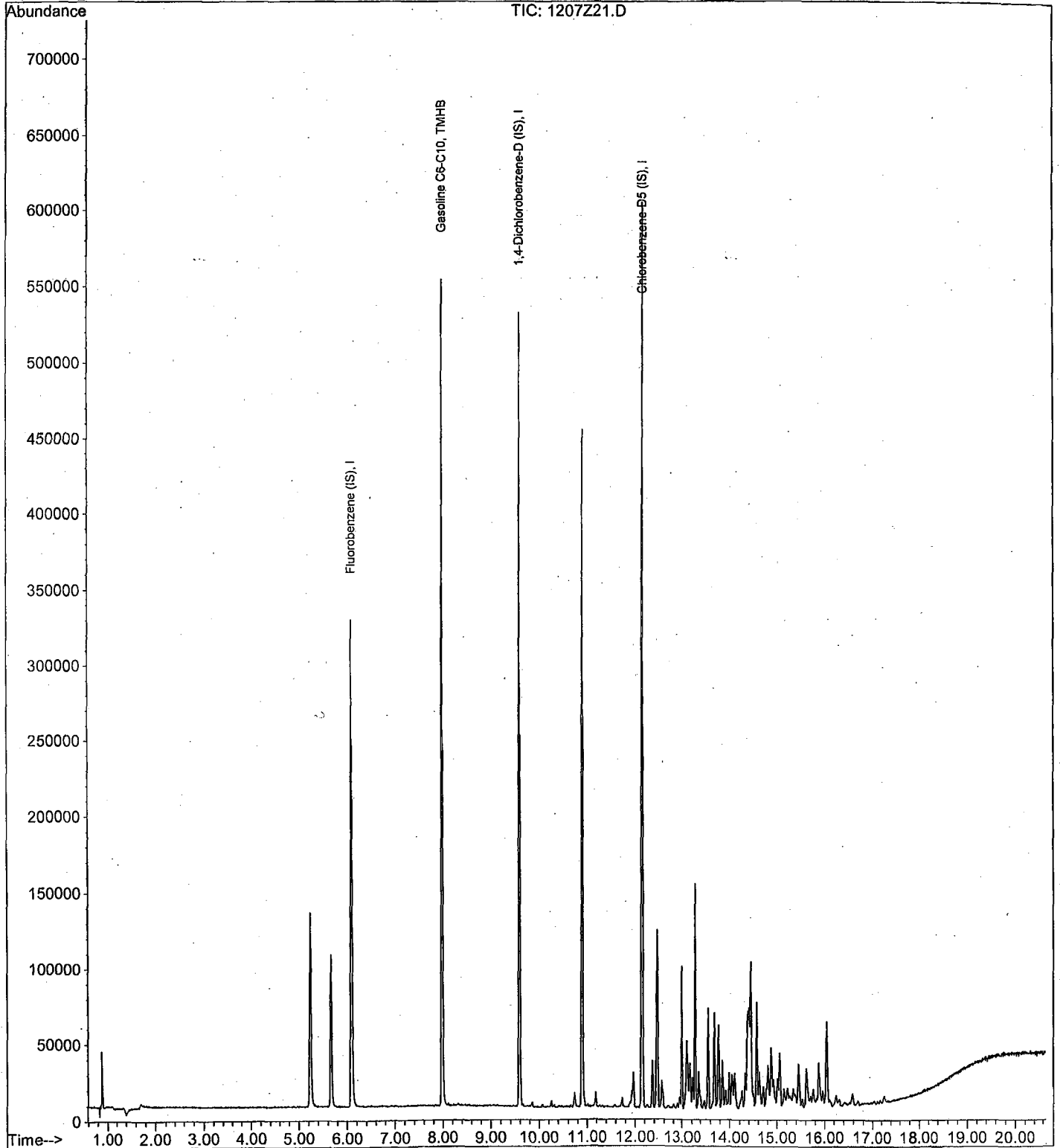
Data File : M:\ZEUS\DATA\211206\1207Z21.D  
Acq On : 07 Dec 21 23:07  
Sample : BA46985W02  
Misc :

Vial: 21  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 8 11:58 2021

Quant Results File: ZGAS1206.RES

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 12:37:53 2021  
Response via : Initial Calibration



Data File : M:\ZEUS\DATA\211206\1207Z08.D  
 Acq On : 07 Dec 21 17:55  
 Sample : 211207A BLK  
 Misc :

Vial: 8  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 11:10 2021

Quant Results File: ZGAS1206.RE

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:37:53 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	6.09	TIC	349530	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	623528	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.58	TIC	540290	25.00	ppb	0.08

System Monitoring Compounds

Target Compounds

Qvalue

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

Data File : M:\ZEUS\DATA\211206\1207Z08.D  
 Acq On : 07 Dec 21 17:55  
 Sample : 211207A BLK  
 Misc :

Vial: 8  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 12:30 2021

Quant Results File: Z1206SUR.RE

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:53:13 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	6.09	96	384177	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	351591	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	118712	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane (S)	5.23	111	95522	28.05	ppb	0.00
Spiked Amount						
						Recovery = 112.200%
3) 1,2-DCA-D4 (S)	5.65	65	80692	28.09	ppb	0.00
Spiked Amount						
						Recovery = 112.356%
5) Toluene-D8 (S)	7.98	98	424721	25.04	ppb	0.00
Spiked Amount						
						Recovery = 100.164%
6) 4-Bromofluorobenzene (S)	10.88	95	176479	25.35	ppb	0.00
Spiked Amount						
						Recovery = 101.400%

Target Compounds

Qvalue

Quantitation Report

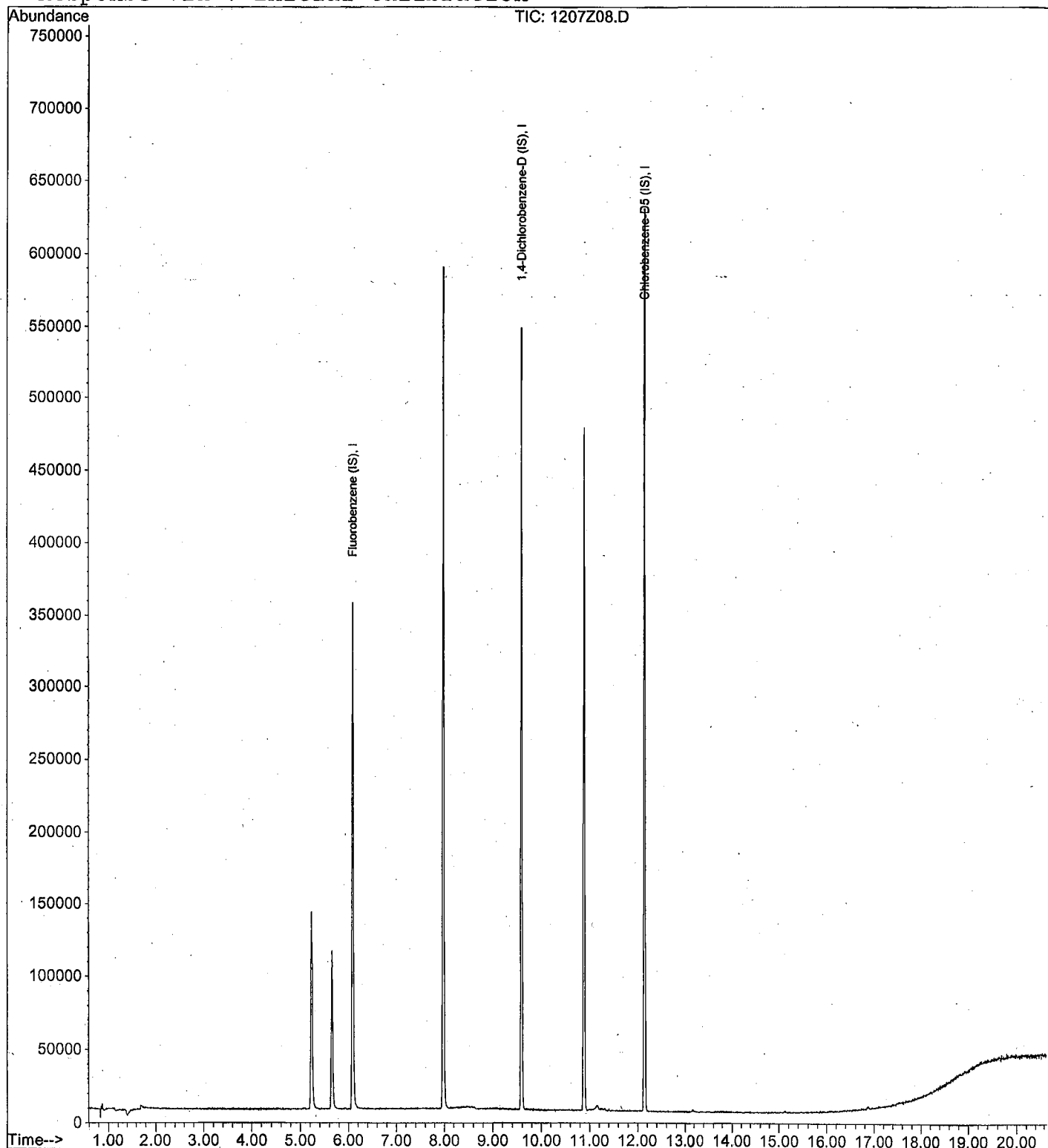
Data File : M:\ZEUS\DATA\211206\1207Z08.D  
Acq On : 07 Dec 21 17:55  
Sample : 211207A BLK  
Misc :

Vial: 8  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 8 11:10 2021

Quant Results File: ZGAS1206.RE

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 12:37:53 2021  
Response via : Initial Calibration



Data File : M:\ZEUS\DATA\211206\1207Z06.D  
Acq On : 07 Dec 21 17:07  
Sample : 211207A LCS 300ug/L  
Misc :

Vial: 6  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 8 11:12 2021

Quant Results File: ZGAS1206.RE

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 12:37:53 2021  
Response via : Initial Calibration  
DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	374048	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	623740	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.51	TIC	9626	25.00	ppb	0.00

#### System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	7.98	TIC	7971092m	295.05	ppb	100

Data File : M:\ZEUS\DATA\211206\1207Z06.D  
 Acq On : 07 Dec 21 17:07  
 Sample : 211207A LCS 300ug/L  
 Misc :

Vial: 6  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 12:30 2021

Quant Results File: Z1206SUR.RE

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:53:13 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	401543	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	360119	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	118408	25.00	ppb	0.00
<b>System Monitoring Compounds</b>						
2) Dibromofluoromethane(S)	5.23	111	96703	27.17	ppb	0.00
Spiked Amount	25.000		Recovery	=	108.672%	
3) 1,2-DCA-D4 (S)	5.65	65	83452	27.79	ppb	0.00
Spiked Amount	25.000		Recovery	=	111.176%	
5) Toluene-D8 (S)	7.98	98	440076	25.31	ppb	0.00
Spiked Amount	25.000		Recovery	=	101.252%	
6) 4-Bromofluorobenzene(S)	10.88	95	180761	25.35	ppb	0.00
Spiked Amount	25.000		Recovery	=	101.404%	

Target Compounds

Qvalue

Quantitation Report

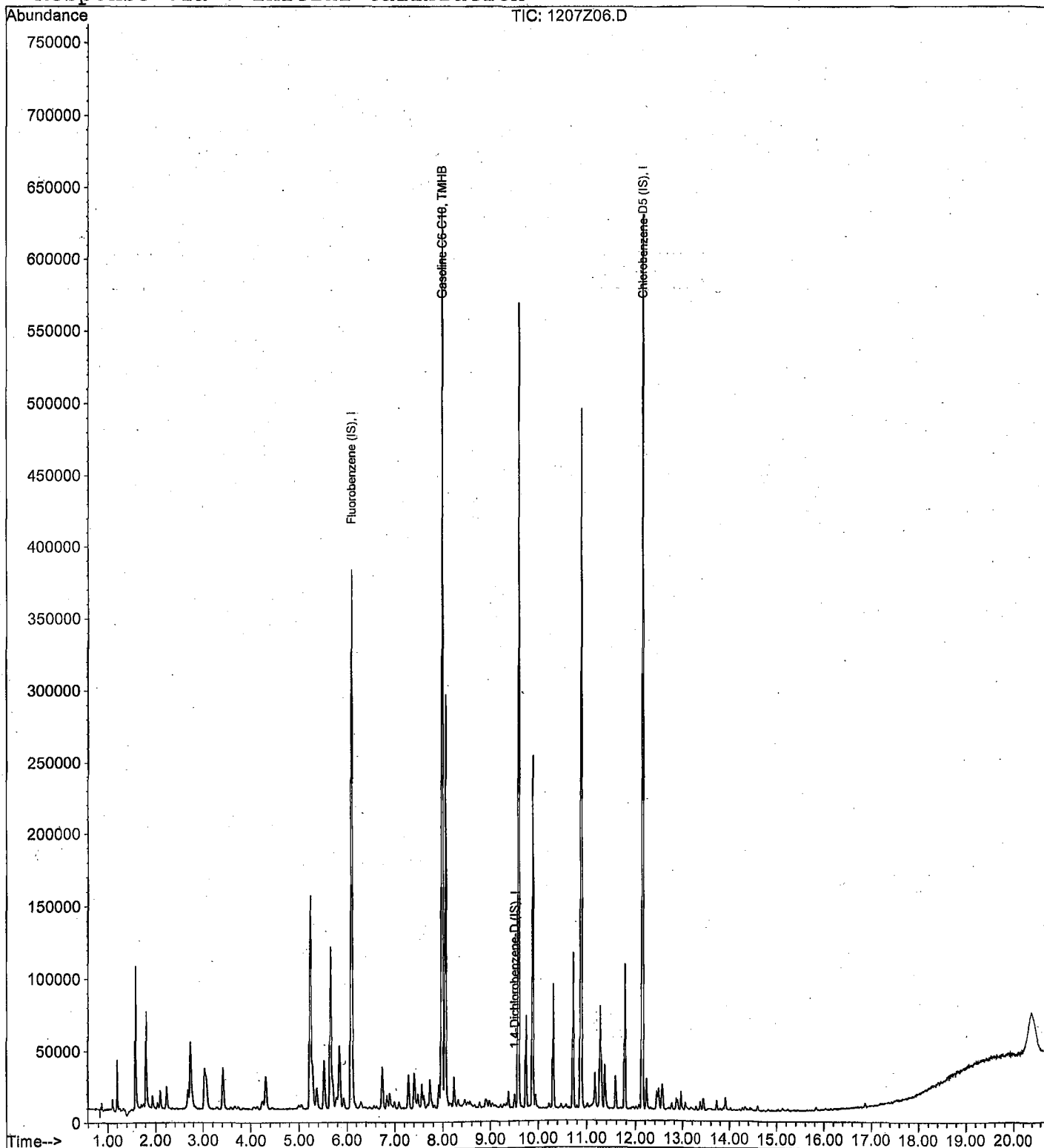
Data File : M:\ZEUS\DATA\211206\1207Z06.D  
Acq On : 07 Dec 21 17:07  
Sample : 211207A LCS 300ug/L  
Misc :

Vial: 6  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 8 11:12 2021

Quant Results File: ZGAS1206.RE

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 12:37:53 2021  
Response via : Initial Calibration





Data File : M:\ZEUS\DATA\211206\1207Z07.D  
Acq On : 07 Dec 21 17:31  
Sample : 211207A LCSD 300ug/L  
Misc :

Vial: 7  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 8 11:12 2021

Quant Results File: ZGAS1206.RE

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 12:37:53 2021  
Response via : Initial Calibration  
DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	6.09	TIC	363812	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	619178	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.51	TIC	9420	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	7.98	TIC	7829854m	302.34	ppb	100

Data File : M:\ZEUS\DATA\211206\1207Z07.D  
 Acq On : 07 Dec 21 17:31  
 Sample : 211207A.LCSD 300ug/L  
 Misc :

Vial: 7  
 Operator: MH  
 Inst : Zeus  
 Multiplr: 1.00

Quant Time: Dec 8 12:30 2021

Quant Results File: Z1206SUR.RE

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)  
 Title : METHOD 8260B  
 Last Update : Tue Dec 07 12:53:13 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 082421\_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	393678	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	351479	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.15	152	117352	25.00	ppb	0.00
<b>System Monitoring Compounds</b>						
2) Dibromofluoromethane(S)	5.23	111	94460	27.07	ppb	0.00
Spiked Amount	25.000		Recovery	=	108.272%	
3) 1,2-DCA-D4(S)	5.65	65	81302	27.62	ppb	0.00
Spiked Amount	25.000		Recovery	=	110.472%	
5) Toluene-D8(S)	7.98	98	430165	25.35	ppb	0.00
Spiked Amount	25.000		Recovery	=	101.396%	
6) 4-Bromofluorobenzene(S)	10.89	95	176969	25.42	ppb	0.00
Spiked Amount	25.000		Recovery	=	101.692%	

Target Compounds

Qvalue

Quantitation Report

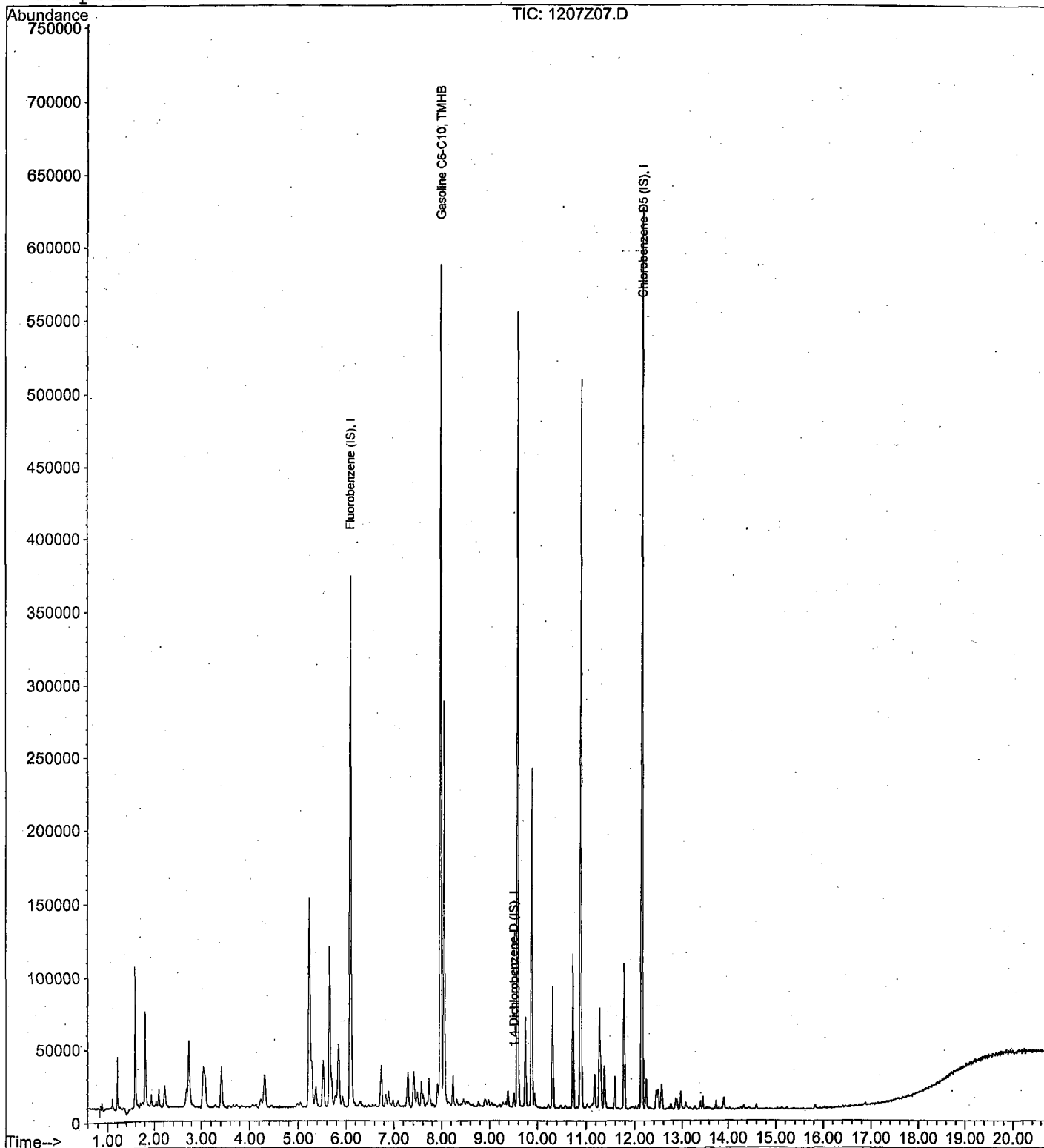
Data File : M:\ZEUS\DATA\211206\1207Z07.D  
Acq On : 07 Dec 21 17:31  
Sample : 211207A LCSD 300ug/L  
Misc :

Vial: 7  
Operator: MH  
Inst : Zeus  
Multiplr: 1.00

Quant Time: Dec 8 11:12 2021

Quant Results File: ZGAS1206.RE

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)  
Title : METHOD 8260B  
Last Update : Tue Dec 07 12:37:53 2021  
Response via : Initial Calibration



## ZEUS 8260 Standard Prep

ZEUS 8260 Water Calibration Curve										
							Prepared By (Initials): <u>CH</u>			
<b>0.3ug/L</b>										
Prepared: 12/6/2021										
Expires: 12/15/2021										
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)	Alliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	Various	0.3ug/L	5	Prepared 11/29/21	1/28/2022	N/A	3uL	50mL	P&T Water	0.3
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	5uL			5
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	2.5uL			5
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	2uL			10
<b>0.5ug/L</b>										
Prepared: 12/6/2021										
Expires: 12/15/2021										
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)	Alliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	Various	0.5ug/L	5	Prepared 11/29/21	1/28/2022	N/A	5uL	50mL	P&T Water	0.5
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	10uL			10
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	5uL			10
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	5uL			25
<b>1.0ug/L</b>										
Prepared: 12/6/2021										
Expires: 12/15/2021										
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)	Alliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	Various	1.0ug/L	5	Prepared 11/29/21	1/28/2022	N/A	10uL	50mL	P&T Water	1
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	20uL			20
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	10uL			20
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	10uL			50
<b>2.0ug/L</b>										
Prepared: 12/6/2021										
Expires: 12/15/2021										
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)	Alliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	Various	2.0ug/L	5	Prepared 11/29/21	1/28/2022	N/A	20uL	50mL	P&T Water	2
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	30uL			30
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	15uL			30
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	15uL			75
<b>5ug/L</b>										
Prepared: 12/6/2021										
Expires: 12/15/2021										
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)	Alliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	5ug/L	50	Prepared 11/29/21	1/28/2022	N/A	5uL	50mL	P&T Water	5
VOA STD. 8	Phenova		50	Prepared 11/29/21	12/15/2021	N/A	5uL			5
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	40uL			40
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	20uL			20
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	20uL			100
<b>10ug/L</b>										
Prepared: 12/6/2021										
Expires: 12/15/2021										
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)	Alliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	10ug/L	50	Prepared 11/29/21	1/28/2022	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova		50	Prepared 11/29/21	12/15/2021	N/A	10uL			10
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	50uL			50
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	25uL			50
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	25uL			125

20ug/L										
Prepared: 12/6/2021										
Expires: 12/15/2021										
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 11/29/21	1/28/2022	N/A	20uL	50mL	P&T Water	20
VOA STD. 8	Phenova		50	Prepared 11/29/21	12/15/2021	N/A	20uL			20
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	60uL			60
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	30uL			60
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	30uL			150
40ug/L										
Prepared: 12/6/2021										
Expires: 12/15/2021										
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 11/29/21	1/28/2022	N/A	40uL	50mL	P&T Water	40
VOA STD. 8	Phenova		50	Prepared 11/29/21	12/15/2021	N/A	40uL			40
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	80uL			80
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	40uL			80
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	35uL			175
100ug/L										
Prepared: 12/6/2021										
Expires: 12/15/2021										
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 11/29/21	1/28/2022	N/A	100uL	50mL	P&T Water	100
VOA STD. 8	Phenova		50	Prepared 11/29/21	12/15/2021	N/A	100uL			100
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	100uL			100
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	50uL			100
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	40uL			200
ZEUS 8260 Water Second Source (SS)										
Prepared: 12/6/2021										
Expires: 12/15/2021										
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. 3	Phenova	8260 Water SS	100	Prepared 11/29/21	1/28/2022	N/A	25uL	50mL	P&T Water	50
VOA STD. GASES	Phenova	8260 Water SS	50	Prepared 11/29/21	1/28/2022	N/A	10uL			10
VOA STD. 0	Phenova	8260 Water SS	50	Prepared 11/29/21	1/28/2022	N/A	10uL			10
VOA STD. 2-CEVE	Absolute	8260 Water SS	50	Prepared 11/29/21	11/29/2021	N/A	50uL			50
VOA STD. 6	Various	8260 Water SS	50	Prepared 11/29/21	12/15/2021	N/A	10uL			10
Voa STD. TBA	Various	8260 Water SS	250	Prepared 11/29/21	12/15/2021	N/A	25uL			250
8260 Water Continuing Calibrations (CCV)/ Lab Control Spikes (LCS)										
Prepared: 12/6/2021										
Expires: 12/7/2021										
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 11/29/21	1/28/2022	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova	CCV/ LCS	50	Prepared 11/29/21	12/15/2021	N/A	10uL			10
VOA STD. 1	Absolute	CCV/ LCS	50	Prepared 11/29/21	1/28/2022	N/A	50uL			50
VOA STD. 2	Phenova	CCV/ LCS	100	Prepared 11/29/21	1/28/2022	N/A	25uL			50
VOA STD. TBA	Various	CCV/ LCS	250	Prepared 11/29/21	12/15/2021	N/A	25uL			250

### ZEUS Gas Standard Prep

Gas Primary Working Standard										
Prepared: 12/6/2021						Prepared By (Initials): CH				
Expires: 1/4/2022										
Methanol Lot No.										
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	1/4/2022	12/31/2024	80uL	2mL	Methanol	2,000
Gas Second Source (SS) Working Standard										
Prepared: 3/31/2021						Prepared By (Initials): CH				
Expires: 1/31/1930										
Methanol Lot No.										
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	CL14915-51175	1/4/2022	1/31/1930				
LOKI Gas Calibration Curve										
Prepared: 12/6/2021						Prepared By (Initials): CH				
Expires: 2/4/2022										
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 12/06/21	1/4/2022	N/A	1uL	100mL	P&T Water	20
VOA Gasses Standards	Phenova	50ug/L	2,000	Prepared 12/06/21	1/4/2022	N/A	2.5uL	100mL	P&T Water	50
VOA Gasses Standards	Phenova	100ug/L	2,000	Prepared 12/06/21	1/4/2022	N/A	5uL	100mL	P&T Water	100
VOA Gasses Standards	Phenova	300ug/L	2,000	Prepared 12/06/21	1/4/2022	N/A	15uL	100mL	P&T Water	300
VOA Gasses Standards	Phenova	600ug/L	2,000	Prepared 12/06/21	1/4/2022	N/A	30uL	100mL	P&T Water	600
VOA Gasses Standards	Phenova	800ug/L	2,000	Prepared 12/06/21	1/4/2022	N/A	40uL	100mL	P&T Water	800
VOA Gasses Standards	Phenova	1,000ug/L	2,000	Prepared 12/06/21	1/4/2022	N/A	50uL	100mL	P&T Water	1,000
Zeus Gas Second Source										
Prepared: 12/6/2021						Prepared By (Initials): CH				
Expires: 2/4/2022										
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 03/31/21	1/31/1930	N/A	15uL	100mL	P&T Water	300
ZEUS Gas Continuing Calibrations/Lab Control Spikes										
Prepared: 12/6/2021						Prepared By (Initials): CH				
Expires: 12/7/2021										
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 12/06/21	1/4/2022	N/A	15uL	100mL	P&T Water	300

## Injection Log

Directory: M:\ZEUS\DATA\211206\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	2	1206Z17.D	1	0.3ug/L VOC STD 12/6/21		06 Dec 21 15:48
2	3	1206Z18.D	1	0.5ug/L VOC STD 12/6/21		06 Dec 21 16:12
3	4	1206Z19.D	1	1ug/L VOC STD 12/6/21		06 Dec 21 16:36
4	5	1206Z20.D	1	2ug/L VOC STD 12/6/21		06 Dec 21 17:00
5	6	1206Z21.D	1	5ug/L VOC STD 12/6/21		06 Dec 21 17:24
6	7	1206Z22.D	1	10ug/L VOC STD 12/6/21		06 Dec 21 17:48
7	8	1206Z23.D	1	20ug/L VOC STD 12/6/21		06 Dec 21 18:12
8	9	1206Z24.D	1	40ug/L VOC STD 12/6/21		06 Dec 21 18:36
9	10	1206Z25.D	1	100ug/L VOC STD 12/6/21		06 Dec 21 19:00
10	21	1206Z36.D	1	20ug/L GAS STD 12/6/21		06 Dec 21 23:24
11	22	1206Z37.D	1	50ug/L GAS STD 12/6/21		06 Dec 21 23:48
12	23	1206Z38.D	1	100ug/L GAS STD 12/6/21		07 Dec 21 00:12
13	24	1206Z39.D	1	300ug/L GAS STD 12/6/21		07 Dec 21 00:37
14	25	1206Z40.D	1	600ug/L GAS STD 12/6/21		07 Dec 21 01:01
15	26	1206Z41.D	1	800ug/L GAS STD 12/6/21		07 Dec 21 01:25
16	27	1206Z42.D	1	1000ug/L GAS STD 12/6/21		07 Dec 21 01:49
17	28	1206Z43.D	1	(SS) 300ug/L GAS STD 12/6/21		07 Dec 21 02:13

## Injection Log

Directory: M:\ZEUS\DATA\211206\

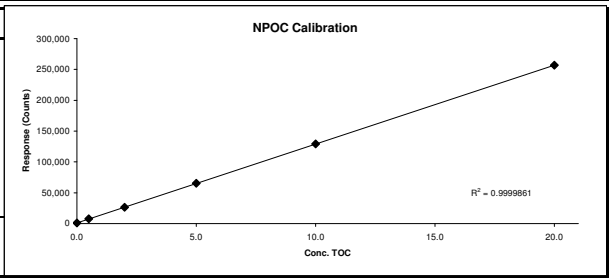
Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	5	1207Z05.D	1	211207A CCV 300ug/L		07 Dec 21 16:43
2	6	1207Z06.D	1	211207A LCS 300ug/L		07 Dec 21 17:07
3	7	1207Z07.D	1	211207A LCSD 300ug/L		07 Dec 21 17:31
4	8	1207Z08.D	1	211207A BLK		07 Dec 21 17:55
5	14	1207Z14.D	1	BA46978W02		07 Dec 21 20:19
6	15	1207Z15.D	1	BA46979W02		07 Dec 21 20:43
7	16	1207Z16.D	1	BA46980W03		07 Dec 21 21:07
8	17	1207Z17.D	1	BA46981W02		07 Dec 21 21:31
9	18	1207Z18.D	1	BA46982W02		07 Dec 21 21:55
10	19	1207Z19.D	1	BA46983W02		07 Dec 21 22:19
11	20	1207Z20.D	1	BA46984W02		07 Dec 21 22:43
12	21	1207Z21.D	1	BA46985W02		07 Dec 21 23:07
13	31	1207Z31.D	1	Ending CCV 300ug/L 12/7/21		08 Dec 21 03:07



**INORGANIC ANALYSIS**  
**Calibration and Raw Data**

Method: WetChem	TOTAL ORGANIC CARBON	Instrument: Tic Toc
Analyte: TOC	Units mg/L	
Analyst: EA	QCG: 211129A	
	Final Volume: 40mL	

Date	Time	Appl ID	[TOC]	Raw	% Recovery
11/27/2021	13:37	QC blank	0.00	872	
11/27/2021	16:18	Ical 1	0.50	7728	
11/27/2021	16:58	Ical 2	2.00	26223	
11/27/2021	17:38	Ical 3	5.00	65575	
11/27/2021	18:19	Ical 4	10.00	129337	
11/27/2021	19:00	Ical 5	20.00	256854	
11/27/2021	19:41	ICB	0.05	1142	
11/27/2021	20:21	ICV	9.90	127224	99.0%



Date	Time	Appl ID	DF	Raw Result	SubSample Amount	Filter Blank Subtract	Calc Conc	Result	Range (mg/L)	QC True	% Recovery
2021-11-29	03:12 PM	CCB Prime	1	945	40mL	0.000	0	0.00	0.00		
2021-11-29	03:53 PM	QCB	1	845	40mL	0.000	0	0.00	0.00		
2021-11-29	04:34 PM	211129A CCV/LCS 1	1	63576	40mL	0.000	4.902	4.90	0.30	5.00	98.0%
2021-11-29	05:15 PM	211129A CCB/Blk 1	1	950	40mL	0.000	0.01	0.01	0.02		
2021-11-29	05:56 PM	BA46714W05	1	2207	40mL	0.000	0.134	0.13	0.04		
2021-11-29	06:36 PM	BA46721W01	1	5894	40mL	0.000	0.422	0.42	0.25		
2021-11-29	07:16 PM	BA39645W06	1	42814	40mL	0.000	3.307	3.31	0.03		
2021-11-29	07:57 PM	BA46927W02	1	25700	40mL	0.000	1.969	1.97	1.30		
2021-11-29	08:37 PM	BA46973W05	1	2966	40mL	0.000	0.193	0.19	0.37		
2021-11-29	09:17 PM	BA46971W06	1	2023	40mL	0.000	0.119	0.12	0.05		
2021-11-29	09:57 PM	BA38713W02	1	30844	40mL	0.000	2.371	2.37	2.29		
2021-11-29	10:37 PM	BA39648W06	1	62050	40mL	0.000	4.809	4.81	0.07		
2021-11-29	11:17 PM	BA39641W06	1	66891	40mL	0.000	5.188	5.19	0.36		
2021-11-29	11:58 PM	BA39647W06	1	54734	40mL	0.000	4.238	4.24	0.18		
2021-11-30	12:39 AM	211129A CCV/LCSD	1	64047	40mL	0.000	4.938	4.94	0.01	5.00	98.8%
2021-11-30	01:20 AM	211129A CCB 2	1	1305	40mL	0.000	0.036	0.04	0.05		
2021-11-30	02:01 AM	BA39123W01	1	57517	40mL	0.000	4.455	4.46	0.05		
2021-11-30	02:41 AM	BA46829W06	1	33099	40mL	0.000	2.548	2.55	0.90		
2021-11-30	03:21 AM	BA46823W06	1	7673	40mL	0.000	0.561	0.56	0.33		
2021-11-30	04:01 AM	BA46821W05	1	29307	40mL	0.000	2.251	2.25	1.02		
2021-11-30	04:41 AM	BA46827W05	1	18269	40mL	0.000	1.389	1.39	0.07		
2021-11-30	05:21 AM	BA46716W05	1	2637	40mL	0.000	0.167	0.17	0.22		
2021-11-30	06:02 AM	BA46983W05	1	20433	40mL	0.000	1.558	1.56	0.36		
2021-11-30	06:42 AM	BA46985W06	1	27259	40mL	0.000	2.091	2.09	1.31		
2021-11-30	07:24 AM	BA46981W05	1	30062	40mL	0.000	2.31	2.31	0.72		
2021-11-30	08:05 AM	BA46979W05	1	5187	40mL	0.000	0.367	0.37	0.33		
2021-11-30	08:45 AM	CCV	1	64283	40mL	0.000	4.957	4.96	0.01	5.00	99.1%
2021-11-30	09:26 AM	CCB	1	1179	40mL	0.000	0.026	0.03	0.04		
						0.000					
						0.000					
						0.000					

Name of Final Standard **TOC Calibration Curve**  
 Prep Date 11/27/2021  
 Exp Date 11/27/2022

Prep'd By (Initials) EA

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 Cal 1	Agilent	IQC-106-5	1000 mg/L	0006588597-51848	3/31/2023	20 uL	40 mL	DI Water	0.5 ppm
Total Organic Carbon (TOC) Standard Cal 2	Agilent	IQC-106-5	1000 mg/L	0006588597-51848	3/31/2023	80 uL	40 mL	DI Water	2 ppm
Total Organic Carbon (TOC) Standard Cal 3	Agilent	IQC-106-5	1000 mg/L	0006588597-51848	3/31/2023	200 uL	40 mL	DI Water	5 ppm
Total Organic Carbon (TOC) Standard Cal 4	Agilent	IQC-106-5	1000 mg/L	0006588597-51848	3/31/2023	400 uL	40 mL	DI Water	10 ppm
Total Organic Carbon (TOC) Standard Cal 5	Agilent	IQC-106-5	1000 mg/L	0006588597-51848	3/31/2023	800 uL	40 mL	DI Water	20 ppm

Name of Final Standard **ICV (TOC)**  
 Prep Date 11/27/2021  
 Exp Date 11/27/2022

Prep'd By (Initials) EA

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)
1000 PPM ICV TOC Intermediate	APPL Inc.	IQC-106-5	1000 mg/L	0006465171-49409	6/30/2021	400 uL	40mL	DI Water	10 ppm

ICV recertified against the non-expired calibration

Name of Final Standard **CCV (TOC)**  
 Prep Date See Data  
 Exp Date 1 year

Prep'd By (Initials) EA

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	0006588597-51848	3/31/2023	200 uL	40 mL	DI Water	5 ppm

Name of Final Standard **TOC LCS/LCSD**  
 Prep Date See Data  
 Exp Date 1 year

Prep'd By (Initials) EA

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-106-5	1000 mg/L	0006588597-51848	3/31/2023	200 uL	40 mL	DI Water	5 ppm

Name of Final Standard **TOC MS/MSD**  
 Prep Date See Data  
 Exp Date 1 year

Prep'd By (Initials) EA

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-106-5	1000 mg/L	0006588597-51848	3/31/2023	200 uL	40 mL	sample	5 ppm