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

March 1, 2022

AECOM
1001 Bishop Street, Suite 1600
Honolulu, Hawaii 96813

Attn: Alethea Ramos

Title: Report of Data: Case 98278-rev

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:

Two water samples were received November 18, 2021. Revised written results for the requested analyses are being provided on this March 1, 2022.

Revision: For the EPA 8260B analysis, the dilution factor was revised for sample ERH1930.

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.

Loren Portwood, Laboratory Director
APPL, Inc.

LP/lac
Enclosure
cc: File

Data Validation Package
for
60571032 CV18F0126 Red Hill Fuel Storage
APPL SDG 98278
TABLE OF CONTENTS

LABORATORY NAME: *APPL, Inc.*

CASE NARRATIVE

Case Narrative

ARF: 98278

Project: 60571032 CV18F0126 Red Hill Fuel Storage. HI

Sample Receipt Information:

Two water samples were received November 18, 2021 at 0.1°C. The sample group was assigned Analytical Request Form (ARF) number 98278.

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 sample was 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 sample was prepared according to the methods.

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

Analytical Exceptions, Deviations and Abnormalities.

EPA 8015B: The opening CCV, file 1129054.D, recovers the surrogate Ortho-terphenyl above the control limit. The associated surrogate recoveries were acceptable.

EPA 8015B SGC: The CCV, file 1202063, recovers decanic acid above the control limit and CCV, file 1202082, recovers the surrogate Ortho-terphenyl below the control limit. The associated surrogate recoveries were acceptable.

EPA 8015B BLANK: The opening CCV, file 1124031.D, recovers DRO and the surrogate Octacosane above the control limit. There were no detections with the associated samples; the surrogate recoveries were acceptable.

SDG	Received	Client ID	APPL ID	Collected DateTime	Matrix	Method	Method Description
98278	11/18/2021	ERH1929	BA46713	11/17/2021 9:10:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER
98278	11/18/2021	ERH1929	BA46713	11/17/2021 9:10:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER
98278	11/18/2021	ERH1930	BA46714	11/17/2021 10:05:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER
98278	11/18/2021	ERH1930	BA46714	11/17/2021 10:05:00 AM	WATER	EPA 8015B-eHL	EPA 8015B TPH WATER L-L SGC
98278	11/18/2021	ERH1930	BA46714	11/17/2021 10:05:00 AM	WATER	EPA 8015B-eHL	EPA 8015B TPH LIQ-LIQ
98278	11/18/2021	ERH1930	BA46714	11/17/2021 10:05:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER
98278	11/18/2021	ERH1930	BA46714	11/17/2021 10:05:00 AM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ
98278	11/18/2021	ERH1930	BA46714	11/17/2021 10:05:00 AM	WATER	SW846 9060A	9060A TOC
98278	11/18/2021	ERH1930 BLANK	BA46718	11/17/2021 10:05:00 AM	WATER	EPA 8015B-eHL	EPA 8015B TPH LIQ-LIQ

Abbreviations and Flags

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

SAMPLE RECORDS MANAGEMENT

CHAIN OF CUSTODY,

ARF, CRF, AND

CLIENT COMMUNICATION

APPL - Analysis Request Form 98278

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** **50084**
RAD Screen (Y/N): **Y** pH (Y/N): **Y**
Turn Around Type: **1 WEEK**

Received by: **MSA**
Date Received: **11/18/21** Time: **12:00**
Delivered by: **FEDEX**
Shuttle Custody Seals (Y/N): **Y** Time Zone: **-10**
Chest Temp(s): **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: **11/25/21**

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 & jcanlas@la
EDD: AECOM EQuIS EDD 2.5.3 to alethea.ramos@, Margie.Pascua@aecom.com, jecklund@lab-data.com

Sample Distribution:
GC: 1-$DOC53SGCW5LIQ, 1-$DOC53W5LIQ, 1-$SIM53LIQ51, 1-$RHBLKETBLK
Extractions: 1-_LIQ003, 2-_LIQ005, 1-_LIQ005SGC
VOA: 2-$86BTOTXDOD5W, 2-$GASBL, 2-$GRO86BW
Wetlab: 1-$TOCW53

Charges:

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

	Client ID	APPL ID	Sampled		Analyses Requested
1.	ERH1929	LCSD BA46713W	11/17/21	09:10	$86BTOTXDOD5W, $GASBL, $GRO86BW -- See Comments
2.	ERH1930	LCSD BA46714W	11/17/21	10:05	$86BTOTXDOD5W, $DOC53SGCW5LIQ, $DOC53W5LIQ, $GASBL, $GRO86BW, $SIM53LIQ51, $TOCW53 -- See Comments
3.	ERH1930 BLANK	LCSD BA46718W	11/17/21	10:05	$RHBLKETBLK -- See Comments

APPL Sample Receipt Form

ARF# **98278**

Sample	Container Type	Count	p
BA46713	[13] VOAs - HCL	4	NA
BA46714	[13] VOAs - HCL	4	NA
	[17] Amber Liter	2	NA
	[32] Clear VOA - H2SO4	2	NA
	[39] Amber Liter, HCL prsvd	2	1.6
BA46718	[39] Amber Liter, HCL prsvd	1	NA

Sample	Container Type	Count	p

98278

1/2

CHAIN OF CUSTODY RECORD

APPL, Inc.
908 N Temperance Ave
Clovis, CA 93611
Phone: (559) 275-2175
Fax: (559) 275-4422

C.O.C. 50084 NOI #4

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

Project Name/Number	Sampler (Print)	Purchase Order Number	Sampler (Signature)
60571032.02.20.01	Alexandre Maman	102604	

Sample Identification	Location	Date Collected	Time Collected	Time Zone	No. of Containers	Matrix: Aq	Matrix: Sed.	Matrix: Soil	Analysis Requested/Method Number: BTEX/8260	TPH-G/8260	TPH-d/8015	TPH-d/8015 +SGT SOLSC	PAH Short List 8270D	TOC/9060
ERH1929	Trip Blank	11/17/21	0910	HST	4	X			X	X				
ERH1930	RHMW2254-01	↓	1005	↓	10	X			X	X	X	X	X*	X
ERH1941														

Date Shipped: 11/17/21
Carrier: FedEX
Waybill No.:
Comments: Note: Log NOI in separate SDG's from other COC's.

TPH-d/o and PAHs need liquid-liquid extraction;
*Naphthalene
1-methylnaphthalene
2-methylnaphthalene

JM 11/17/21

Shuttle Temperature: R3@0.0/1.9, 2.0/0.1C

Turnaround Requested: Check one
☐ Standard 2-3 wk ☑ One week ☐ 24/48 Hrs. ☐ Other

Sample Disposal:
☐ Return to client ☑ Disposal by Lab (30-day retention)

Relinquished by sampler:	Date	Time	Received by:	Relinquished by:	Date	Time	Received by:
Relinquished by: Tianzhen Nie	11/17/21	15:00		Relinquished by:	11-18	1200	Received at lab by:

White: Return to client with report Yellow: Laboratory Copy Pink: Sampler

See reverse side for Container Preservative and Sampling Information

COOLER RECEIPT FORM **ARF: 98278**

1) Project: 60571032 CV18F0126 Red Hill Fuel Storage Date Received: 11/18/2021

2) Coolers: Number of Coolers: 1

3) YES Were custody seals present and intact?
How many? 2 Name/Date on seal? SEE BELOW

4) YES Was there a shipping slip? Carrier name: FEDEX

5) Type of packing in cooler: X bubble wrap __ popcorn __ foam X plastic bags __ other
X wet ice __ dry ice __ no ice __ gel ice

6) YES Were cooler temperatures acceptable?

7) Serial number of calibrated thermometer used: R3 CF:-1.9°C

8) Cooler temp(s): In °C. Thermometer Temp / Corrected Temp
1: 2.0/0.1 2: _____ 3: _____ 4: _____ 5: _____ 6: _____
7: _____ 8: _____ 9: _____ 10: _____ 11: _____ 12: _____

Chain of custody:

9) YES Was a chain of custody received?

10) YES Were the custody papers complete/signed in the appropriate places?

Sample Labels:

11) YES Were all sample labels complete (sample ID, date/time of sampling, etc.)?

12) YES Did all container labels agree with custody papers?

Sample Containers:

13) YES Were all containers sealed in separate bags?

14) YES Did all containers arrive in good condition:(unbroken, no leakage, no cracked/broken lids)?

15) YES Were correct containers and preservatives used for the tests indicated?

16) YES Was a sufficient amount of sample sent for tests indicated?

17) No Were bubbles present in volatile samples?
If yes, the following were received with air bubbles:
Larger than a pea: _____
Smaller than a pea: _____

Preservation Hold time:

18) Yes Was a sufficient amount of holding time remaining to analyze the samples?

19) Yes Was the pH taken of all non-VOA preserved samples and written on the sample container?

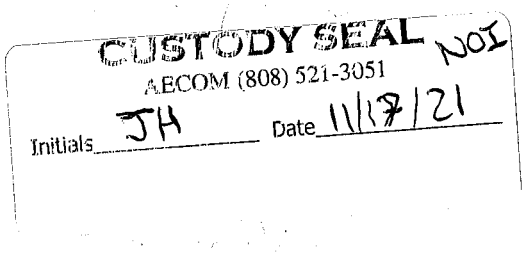
20) Yes Was the pH of acid preserved non-VOA samples < 2?

21) NA Was the pH of 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: HC029115
Lab notified if pH was not adequate: _____

Notes/Deficiencies:



Personnel receiving samples: MS Second reviewer: _____
Personnel labeling samples: MS
Project manager notified: MS Date/Time of notification 11/18/2021
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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98278

Sample ID: ERH1930

APPL ID: BA46714

Sample Collection Date: 11/17/21

QCG: #DOC53-211122A1-271642

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	11/22/21	12/03/21
EPA 8015B-e	OIL (C24-C40)	300.0 U	320	300.0	150.0	ug/L	11/22/21	12/03/21
EPA 8015B-e	SURROGATE: (R) DECANOIC ACID (S)	0.0	0-1			%	11/22/21	12/03/21
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	86.6	60-142			%	11/22/21	12/03/21
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	67.8	56-125			%	11/22/21	12/03/21

Quant Method:	DOC1028.M
Run #:	1202069
Instrument:	Apollo
Sequence:	211202
Dilution Factor:	1
Initials:	KAB

Printed: 12/15/2021 11:11:14 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: 98278

Sample ID: ERH1930

APPL ID: BA46714

Sample Collection Date: 11/17/21

QCG: #DOC53-211122A-271197

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	11/22/21	12/01/21
EPA 8015B-e	OIL (C24-C40)	300.0 U	320	300.0	150.0	ug/L	11/22/21	12/01/21
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	91.2	60-142			%	11/22/21	12/01/21
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	74.0	56-125			%	11/22/21	12/01/21

Quant Method:	DOC1028.M
Run #:	1129072
Instrument:	Apollo
Sequence:	211129
Dilution Factor:	1
Initials:	KAB

Printed: 12/15/2021 11:11:14 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: 98278

Sample ID: ERH1930 BLANK

APPL ID: BA46718

Sample Collection Date: 11/17/21

QCG: #RHBLK-211119A-271109

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	11/19/21	11/25/21
EPA 8015B-e	OIL (C24-C40)	300.0 U	320	300.0	150.0	ug/L	11/19/21	11/25/21
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	102	60-142			%	11/19/21	11/25/21
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	82.7	56-125			%	11/19/21	11/25/21

Quant Method:	DOC1028.M
Run #:	1124040
Instrument:	Apollo
Sequence:	211124
Dilution Factor:	1
Initials:	KAB

Printed: 12/15/2021 11:11:14 AM

APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98278

Sample ID: ERH1930

APPL ID: BA46714

Sample Collection Date: 11/17/21

QCG: #SIM53-211119AK-271866

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	11/19/21	11/24/21
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	11/19/21	11/24/21
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	11/19/21	11/24/21
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	72.9	39-114			%	11/19/21	11/24/21
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	84.3	58-120			%	11/19/21	11/24/21

Quant Method: K1019.M
Run #: 1124K029
Instrument: KYLO
Sequence: 211124
Dilution Factor: 1
Initials: LSI

Printed: 12/22/2021 1:01:00 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98278

Sample ID: ERH1929

APPL ID: BA46713

Sample Collection Date: 11/17/21

QCG: #86BTO-211129AL-271149

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	11/30/21	11/30/21
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	11/30/21	11/30/21
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	11/30/21	11/30/21
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	11/30/21	11/30/21
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	101	81-118			%	11/30/21	11/30/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	87.4	85-114			%	11/30/21	11/30/21
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	99.5	80-119			%	11/30/21	11/30/21
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	95.3	89-112			%	11/30/21	11/30/21

Quant Method: L1129W.M
Run #: 1129L35
Instrument: Loki
Sequence: 211129
Dilution Factor: 1
Initials: EOG

Printed: 2/23/2022 8:39:10 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: 98278

Sample ID: ERH1930

APPL ID: BA46714

Sample Collection Date: 11/17/21

QCG: #86BTO-211129AL-271149

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	11/30/21	11/30/21
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	11/30/21	11/30/21
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	11/30/21	11/30/21
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	11/30/21	11/30/21
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	102	81-118			%	11/30/21	11/30/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	90.1	85-114			%	11/30/21	11/30/21
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	99.5	80-119			%	11/30/21	11/30/21
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	96.7	89-112			%	11/30/21	11/30/21

Quant Method: L1129W.M
Run #: 1129L36
Instrument: Loki
Sequence: 211129
Dilution Factor: 1
Initials: EOG

Printed: 2/23/2022 8:39:10 AM

APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98278

Sample ID: ERH1929

APPL ID: BA46713

Sample Collection Date: 11/17/21

QCG: #GRO86-211129AL-271135

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	11/30/21	11/30/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	87.4	85-114			%	11/30/21	11/30/21

Quant Method:	LGAS1129.M
Run #:	1129L35
Instrument:	Loki
Sequence:	211129
Dilution Factor:	1
Initials:	EOG

Printed: 12/1/2021 5:09:12 PM

APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98278

Sample ID: ERH1930

APPL ID: BA46714

Sample Collection Date: 11/17/21

QCG: #GRO86-211129AL-271135

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	90.0 U	100	90.0	43.0	ug/L	11/30/21	11/30/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	90.1	85-114			%	11/30/21	11/30/21

Quant Method:	LGAS1129.M
Run #:	1129L36
Instrument:	Loki
Sequence:	211129
Dilution Factor:	5
Initials:	EOG

Printed: 12/1/2021 5:09:12 PM

APPL-F1-SC-NoMC-REG MDLs-DOD

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH1930

APPL ID: BA46714

Sample Collection Date: 11/17/2021

ARF: 98278

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
SW846 9060A	TOTAL ORGANIC CARBON	0.13 J	0.93	0.350	0.130	mg/L	1	11/29/21	11/29/21

J = Estimated value.

Printed: 12/1/2021 8:25:50 AM

APPL-F1-SC-NoMC-REG MDLs

QC FORMS

EPA 8015B-eHL

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 98278

Case No: 98278 Date Analyzed: 12/1/2021

Matrix: WATER Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: OCTACOSANE (S)			SURROGATE: ORTHO-TERPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
211122A-BLK	Blank	60-142	80.5		56-125	65.3	
211122A-LCS	Lab Control Spike	60-142	88.7		56-125	80.7	
211122A-LCSD	Lab Control SpikeD	60-142	95.3		56-125	78.7	
BA46714	ERH1930	60-142	91.2		56-125	74.0	

Comments: Batch: #DOC53-211122A

EPA 8015B-eHL

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 98278

Case No: 98278 Date Analyzed: 12/3/2021

Matrix: WATER Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: (R) DECANOIC ACID (S)			SURROGATE: OCTACOSANE (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
211122A1-BLK	Blank	0-1	0.0		60-142	115	
211122A1-LCS	Lab Control Spike	0-1	0.0		60-142	82.7	
211122A1-LCSD	Lab Control SpikeD	0-1	0.0		60-142	92.0	
BA46714	ERH1930	0-1	0.0		60-142	86.6	

Comments: Batch: #DOC53-211122A1

EPA 8015B-eHL

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 98278

Case No: 98278 Date Analyzed: 12/3/2021

Matrix: WATER Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: ORTHO-TERPHENYL (S)					
		Limits	Result	Qualifier	Limits	Result	Qualifier
211122A1-BLK	Blank	56-125	89.5				
211122A1-LCS	Lab Control Spike	56-125	72.7				
211122A1-LCSD	Lab Control SpikeD	56-125	82.0				
BA46714	ERH1930	56-125	67.8				

Comments: Batch: #DOC53-211122A1

EPA 8015B-eHL

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 98278

Case No: 98278 Date Analyzed: 11/25/2021

Matrix: WATER Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: OCTACOSANE (S)			SURROGATE: ORTHO-TERPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
211119A-BLK	Blank	60-142	92.7		56-125	75.2	
211119A-LCS	Lab Control Spike	60-142	94.0		56-125	76.7	
211119A-LCSD	Lab Control SpikeD	60-142	84.7		56-125	68.7	
BA46718	ERH1930 BLANK	60-142	102		56-125	82.7	

Comments: Batch: #RHBLK-211119A

EPA 8015B-eH

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	98278
Case No:	98278	Date Analyzed:	12/1/2021
Matrix:	WATER	Instrument:	Apollo
Blank ID:	211122A-BLK	Time Analyzed:	0024

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211122A-BLK	Blank	1129069	12/1/2021 0024
211122A-LCS	Lab Control Spike	1129070	12/1/2021 0053
211122A-LCSD	Lab Control SpikeD	1129071	12/1/2021 0121
BA46714	ERH1930	1129072	12/1/2021 0149

Comments: Batch: #DOC53-211122A

EPA 8015B-eH

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	98278
Case No:	98278	Date Analyzed:	12/3/2021
Matrix:	WATER	Instrument:	Apollo
Blank ID:	211122A1-BLK	Time Analyzed:	2047

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211122A1-BLK	Blank	1202066	12/3/2021 2047
211122A1-LCS	Lab Control Spike	1202067	12/3/2021 2116
211122A1-LCSD	Lab Control SpikeD	1202068	12/3/2021 2144
BA46714	ERH1930	1202069	12/3/2021 2212

Comments: Batch: #DOC53-211122A1

EPA 8015B-eH

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 98278

Case No: 98278 Date Analyzed: 11/25/2021

Matrix: WATER Instrument: Apollo

Blank ID: 211119A-BLK Time Analyzed: 0128

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211119A-BLK	Blank	1124037	11/25/2021 0128
211119A-LCS	Lab Control Spike	1124038	11/25/2021 0156
211119A-LCSD	Lab Control SpikeD	1124039	11/25/2021 0225
BA46718	ERH1930 BLANK	1124040	11/25/2021 0253

Comments: Batch: #RHBLK-211119A

Method Blank
EPA 8015B TPH LIQ-LIQ

Blank Name/QCG: **211119W-46718 - 271109**
Batch ID: #RHBLK-211119A

APPL Inc.
908 North Temperance Avenu
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	11/19/2021	11/25/2021
BLANK	OIL (C24-C40)	300.0 U	320	300.0	150.0	ug/L	11/19/2021	11/25/2021
BLANK	SURROGATE: OCTACOSANE (S)	92.7	60-142			%	11/19/2021	11/25/2021
BLANK	SURROGATE: ORTHO-TERPHEN	75.2	56-125			%	11/19/2021	11/25/2021

Quant Method: DOC1028.M
Run #: 1124037
Instrument: Apollo
Sequence: 211124
Initials: KAB

GC SC-Blank-REG MDLs-DOD
Printed: 12/15/2021 11:12:24 AM

Method Blank
EPA 8015B TPH LIQ-LIQ

Blank Name/QCG: **211122W-46714 - 271197**
Batch ID: #DOC53-211122A

APPL Inc.
908 North Temperance Avenu
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	11/22/2021	12/1/2021
BLANK	OIL (C24-C40)	300.0 U	320	300.0	150.0	ug/L	11/22/2021	12/1/2021
BLANK	SURROGATE: OCTACOSANE (S)	80.5	60-142			%	11/22/2021	12/1/2021
BLANK	SURROGATE: ORTHO-TERPHEN	65.3	56-125			%	11/22/2021	12/1/2021

Quant Method: DOC1028.M
Run #: 1129069
Instrument: Apollo
Sequence: 211129
Initials: KAB

GC SC-Blank-REG MDLs-DOD
Printed: 12/15/2021 11:12:24 AM

Method Blank
EPA 8015B TPH WATER L-L SGC

Blank Name/QCG: **211122W-46714 - 271642**
Batch ID: #DOC53-211122A1

APPL Inc.
908 North Temperance Avenu
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	11/22/2021	12/3/2021
BLANK	OIL (C24-C40)	300.0 U	320	300.0	150.0	ug/L	11/22/2021	12/3/2021
BLANK	SURROGATE: (R) DECANOIC AC	0.0	0-1			%	11/22/2021	12/3/2021
BLANK	SURROGATE: OCTACOSANE (S)	115	60-142			%	11/22/2021	12/3/2021
BLANK	SURROGATE: ORTHO-TERPHEN	89.5	56-125			%	11/22/2021	12/3/2021

Quant Method: DOC1028.M
Run #: 1202066
Instrument: Apollo
Sequence: 211202
Initials: KAB

GC SC-Blank-REG MDLs-DOD
Printed: 12/15/2021 11:12:24 AM

EPA 8015B-eH

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	98278
Case No:	98278	Date Analyzed:	12/1/2021
Matrix:	WATER	Instrument:	Apollo
LCS ID:	211122A-LCS	Time Analyzed:	0053

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211122A-BLK	Blank	1129069	12/1/2021 0024
211122A-LCS	Lab Control Spike	1129070	12/1/2021 0053
211122A-LCSD	Lab Control SpikeD	1129071	12/1/2021 0121
BA46714	ERH1930	1129072	12/1/2021 0149

Comments: Batch: #DOC53-211122A

EPA 8015B-eH

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	98278
Case No:	98278	Date Analyzed:	12/3/2021
Matrix:	WATER	Instrument:	Apollo
LCS ID:	211122A1-LCS	Time Analyzed:	2116

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211122A1-BLK	Blank	1202066	12/3/2021 2047
211122A1-LCS	Lab Control Spike	1202067	12/3/2021 2116
211122A1-LCSD	Lab Control SpikeD	1202068	12/3/2021 2144
BA46714	ERH1930	1202069	12/3/2021 2212

Comments: Batch: #DOC53-211122A1

EPA 8015B-eH

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	98278
Case No:	98278	Date Analyzed:	11/25/2021
Matrix:	WATER	Instrument:	Apollo
LCS ID:	211119A-LCS	Time Analyzed:	0156

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211119A-BLK	Blank	1124037	11/25/2021 0128
211119A-LCS	Lab Control Spike	1124038	11/25/2021 0156
211119A-LCSD	Lab Control SpikeD	1124039	11/25/2021 0225
BA46718	ERH1930 BLANK	1124040	11/25/2021 0253

Comments: Batch: #RHBLK-211119A

Laboratory Control Spike Recoveries
EPA 8015B TPH LIQ-LIQ

APPL ID: **211122W-46714 LCS - 271197**
Batch ID: #DOC53-211122A

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	1900	2020	95.0	101	36-132	6.1	30
OIL (C24-C40)	2000	1660	1800	83.0	90.0	41-113	8.1	30
SURROGATE: OCTACOSANE (S)	150	133	143	88.7	95.3	60-142		
SURROGATE: ORTHO-TERPHENYL (S)	150	121	118	80.7	78.7	56-125		

Comments:

Primary	SPK	DUP
Quant Method :	DOC1028.M	DOC1028.M
Extraction Date :	11/22/2021	11/22/2021
Analysis Date :	12/1/2021	12/1/2021
Instrument :	Apollo	Apollo
Run :	1129070	1129071
Initials :	KAB	

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

APPL ID: **211122W-46714 LCS - 271642**
Batch ID: #DOC53-211122A1

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	1490	1630	74.5	81.5	36-132	9.0	30
OIL (C24-C40)	2000	1750	1960	87.5	98.0	41-113	11.3	30
SURROGATE: (R) DECANOIC ACID (S)	10.00	0	0	0.0	0.0	0-1		
SURROGATE: OCTACOSANE (S)	150	124	138	82.7	92.0	60-142		
SURROGATE: ORTHO-TERPHENYL (S)	150	109	123	72.7	82.0	56-125		

Comments:

Primary	SPK	DUP
Quant Method :	DOC1028.M	DOC1028.M
Extraction Date :	11/22/2021	11/22/2021
Analysis Date :	12/3/2021	12/3/2021
Instrument :	Apollo	Apollo
Run :	1202067	1202068
Initials :	KAB	

Laboratory Control Spike Recoveries
EPA 8015B TPH LIQ-LIQ

APPL ID: **211119W-46718 LCS - 271109**
Batch ID: #RHBLK-211119A

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	64.2	35.3	NA	NA	36-132		30
OIL (C24-C40)	0	55.5	23.1	NA	NA	41-113		30
SURROGATE: OCTACOSANE (S)	150	141	127	94.0	84.7	60-142		
SURROGATE: ORTHO-TERPHENYL (S)	150	115	103	76.7	68.7	56-125		

Comments:

Primary	SPK	DUP
Quant Method :	DOC1028.M	DOC1028.M
Extraction Date :	11/19/2021	11/19/2021
Analysis Date :	11/25/2021	11/25/2021
Instrument :	Apollo	Apollo
Run :	1124038	1124039
Initials :	KAB	

8270D-SIM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 98278

Case No: 98278 Date Analyzed: 11/24/2021

Matrix: WATER Instrument: KYLO

APPL ID.	Client Sample No.	SURROGATE: 2-METHYLNAPHTHALENE-D10 (S)			SURROGATE: FLUORANTHENE-D10 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
211119AK-BLK	Blank	39-114	76.1		58-120	83.8	
211119AK-LCS	Lab Control Spike	39-114	76.4		58-120	82.2	
211119AK-LCSD	Lab Control SpikeD	39-114	65.8		58-120	74.0	
BA46714	ERH1930	39-114	72.9		58-120	84.3	

Comments: Batch: #SIM53-211119AK

8270D-SIM

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 98278

Case No: 98278 Date Analyzed: 11/24/2021

Matrix: WATER Instrument: KYLO

Blank ID: 211119AK-BLK Time Analyzed: 2011

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211119AK-BLK	Blank	1124K026	11/24/2021 2011
211119AK-LCS	Lab Control Spike	1124K027	11/24/2021 2031
211119AK-LCSD	Lab Control SpikeD	1124K028	11/24/2021 2050
BA46714	ERH1930	1124K029	11/24/2021 2110

Comments: Batch: #SIM53-211119AK

Method Blank
EPA 8270D SIM LIQ-LIQ

Blank Name/QCG: **211119W-46819 - 271866**
Batch ID: #SIM53-211119AK

APPL Inc.
908 North Temperance Avenu
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	11/19/2021	11/24/2021
BLANK	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	11/19/2021	11/24/2021
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	11/19/2021	11/24/2021
BLANK	SURROGATE: 2-METHYLNAPHT	76.1	39-114			%	11/19/2021	11/24/2021
BLANK	SURROGATE: FLUORANTHENE-	83.8	58-120			%	11/19/2021	11/24/2021

Quant Method:K1019.M
Run #:1124K026
Instrument:KYLO
Sequence:211124
Initials:LSI

GC SC-Blank-REG MDLs-DOD
Printed: 12/22/2021 1:01:03 PM

8270D-SIM

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	98278
Case No:	98278	Date Analyzed:	11/24/2021
Matrix:	WATER	Instrument:	KYLO
LCS ID:	211119AK-LCS	Time Analyzed:	2031

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211119AK-BLK	Blank	1124K026	11/24/2021 2011
211119AK-LCS	Lab Control Spike	1124K027	11/24/2021 2031
211119AK-LCSD	Lab Control SpikeD	1124K028	11/24/2021 2050
BA46714	ERH1930	1124K029	11/24/2021 2110

Comments: Batch: #SIM53-211119AK

Laboratory Control Spike Recoveries
EPA 8270D SIM LIQ-LIQ

APPL ID: **211119W-46819 LCS - 271866**
Batch ID: #SIM53-211119AK

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	3.87	3.33	77.4	66.6	41-115	15.0	20
2-METHYLNAPHTHALENE	5.00	3.87	3.33	77.4	66.6	39-114	15.0	20
NAPHTHALENE	5.00	3.79	3.18	75.8	63.6	43-114	17.5	20
SURROGATE: 2-METHYLNAPHTHALEN	5.00	3.82	3.29	76.4	65.8	39-114		
SURROGATE: FLUORANTHENE-D10 (S)	5.00	4.11	3.70	82.2	74.0	58-120		

Comments:

Primary	SPK	DUP
Quant Method :	K1019.M	K1019.M
Extraction Date :	11/19/2021	11/19/2021
Analysis Date :	11/24/2021	11/24/2021
Instrument :	KYLO	KYLO
Run :	1124K027	1124K028
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	36.8
68	0 - 2.05% of mass 69	1.7
70	0 - 2% of mass 69	0.4
127	10 - 80% of mass 198	54.6
197	0 - 2% of mass 198	0.2
198	100 - 100% of mass 198	100.0
199	5 - 9% of mass 198	6.5
275	10 - 60% of mass 198	23.2
365	1 - 100% of mass 198	2.5
441	0.01 - 24% of mass 442	13.9
442	50 - 500% of mass 198	73.4
443	15 - 24% of mass 442	18.4

Form 5
Tune Summary

Lab Name: APPL Inc. SDG No: 98278
Case No: 98278 Date Analyzed: 11/24/2021
Matrix: Water Instrument: KYLO
ID: 1124K003.D Time Analyzed: 12:40

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		5 ug/ml 10/19/21 (1)	1124K004.D	11/24/2021 12:51
2	Blank	211119A BLK 1/1000	1124K026.D	11/24/2021 20:11
3	Lab Control Spike	211119A LCS-1 1/1000	1124K027.D	11/24/2021 20:31
4	Lab Control SpikeD	211119A LCSD-1 1/100	1124K028.D	11/24/2021 20:50
5	ERH1930	BA46714W08 1/1000	1124K029.D	11/24/2021 21:10
6		5 ug/ml 10/13/21 (2)	1124K040.D	11/25/2021 0:49
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
51	9.95 - 80.1% of mass 198	34.9
68	0 - 2.05% of mass 69	1.8
70	0 - 2% of mass 69	0.4
127	10 - 80% of mass 198	54.4
197	0 - 2% of mass 198	0.4
198	100 - 100% of mass 198	100.0
199	5 - 9% of mass 198	6.7
275	10 - 60% of mass 198	22.1
365	1 - 100% of mass 198	2.4
441	0.01 - 24% of mass 442	13.7
442	50 - 500% of mass 198	68.9
443	15 - 24% of mass 442	18.0

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract:

Lab Code: SDG No.:

Lab File ID (Standard): 1124K004.D Date Analyzed: 11/24/21

Instrument ID: KYLO Time Analyzed: 12:51

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	14328	3.86	7074	5.79	10452	7.49
	UPPER LIMIT	28656	4.03	14148	5.96	20904	7.66
	LOWER LIMIT	7164	3.69	3537	5.62	5226	7.32
	SAMPLE NO.						
01	211119A BLK 1/1000	12524	3.86	6008	5.79	8935	7.49
02	211119A LCS-1 1/1000	13002	3.86	6184	5.79	9230	7.49
03	211119A LCSD-1 1/100	12647	3.86	6140	5.79	9097	7.49
04	BA46714W08 1/1000	13057	3.86	6274	5.79	9276	7.49
05	5 ug/ml 10/13/21 (2)	15372	3.86	7609	5.79	11755	7.49
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

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

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

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract:

Lab Code: SDG No.:

Lab File ID (Standard): 1124K004.D Date Analyzed: 11/24/21

Instrument ID: KYLO Time Analyzed: 12:51

GC Column: ID: Heated Purge: (Y/N)

		Chrysene-D12(IS)		Perylene-D12(IS)			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	12916	10.55	11856	12.71		
	UPPER LIMIT	25832	10.72	23712	12.88		
	LOWER LIMIT	6458	10.38	5928	12.54		
	SAMPLE NO.						
01	211119A BLK 1/1000	10406	10.54	9578	12.71		
02	211119A LCS-1 1/1000	11071	10.54	10270	12.71		
03	211119A LCSD-1 1/100	10781	10.54	10037	12.71		
04	BA46714W08 1/1000	11021	10.54	10288	12.71		
05	5 ug/ml 10/13/21 (2)	14546	10.54	12996	12.71		
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

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

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

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 98278

Case No: 98278 Date Analyzed: 11/30/2021

Matrix: WATER Instrument: Loki

APPL ID.	Client Sample No.	SURROGATE: 1,2-DICHLOROETHANE-D4 (S)			SURROGATE: 4-BROMOFLUOROBENZENE (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
211129AL-LCS	Lab Control Spike	81-118	94.4		85-114	103	
211129AL-LCSD	Lab Control SpikeD	81-118	93.6		85-114	98.8	
211129AL-BLK	Blank	81-118	96.8		85-114	91.0	
BA46713	ERH1929	81-118	101		85-114	87.4	
BA46714	ERH1930	81-118	102		85-114	90.1	

Comments: Batch: #86BTO-211129AL

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 98278

Case No: 98278 Date Analyzed: 11/30/2021

Matrix: WATER Instrument: Loki

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
211129AL-LCS	Lab Control Spike	80-119	94.0		89-112	107	
211129AL-LCSD	Lab Control SpikeD	80-119	93.6		89-112	102	
211129AL-BLK	Blank	80-119	99.9		89-112	96.7	
BA46713	ERH1929	80-119	99.5		89-112	95.3	
BA46714	ERH1930	80-119	99.5		89-112	96.7	

Comments: Batch: #86BTO-211129AL

EPA 8260B

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	98278
Case No:	98278	Date Analyzed:	11/30/2021
Matrix:	WATER	Instrument:	Loki
Blank ID:	211129AL-BLK	Time Analyzed:	0242

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211129AL-LCS	Lab Control Spike	1129L27	11/30/2021 0052
211129AL-LCSD	Lab Control SpikeD	1129L28	11/30/2021 0120
211129AL-BLK	Blank	1129L31	11/30/2021 0242
BA46713	ERH1929	1129L35	11/30/2021 0433
BA46714	ERH1930	1129L36	11/30/2021 0500

Comments: Batch: #86BTO-211129AL

Method Blank
EPA 8260B BTEX WATER

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **211129W-46713 - 271149**
Batch ID: #86BTO-211129AL

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	11/30/2021	11/30/2021
BLANK	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	11/30/2021	11/30/2021
BLANK	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	11/30/2021	11/30/2021
BLANK	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	11/30/2021	11/30/2021
BLANK	SURROGATE: 1,2-DICHLOROET	96.8	81-118			%	11/30/2021	11/30/2021
BLANK	SURROGATE: 4-BROMOFLUORO	91.0	85-114			%	11/30/2021	11/30/2021
BLANK	SURROGATE: DIBROMOFLUOR	99.9	80-119			%	11/30/2021	11/30/2021
BLANK	SURROGATE: TOLUENE-D8 (S)	96.7	89-112			%	11/30/2021	11/30/2021

Quant Method:L1129W.M
Run #:1129L31
Instrument:Loki
Sequence:211129
Initials:EOG

GC SC-Blank-REG MDLs-DOD
Printed: 12/1/2021 4:47:42 PM

EPA 8260B

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	98278
Case No:	98278	Date Analyzed:	11/30/2021
Matrix:	WATER	Instrument:	Loki
LCS ID:	211129AL-LCS	Time Analyzed:	0052

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211129AL-LCS	Lab Control Spike	1129L27	11/30/2021 0052
211129AL-LCSD	Lab Control SpikeD	1129L28	11/30/2021 0120
211129AL-BLK	Blank	1129L31	11/30/2021 0242
BA46713	ERH1929	1129L35	11/30/2021 0433
BA46714	ERH1930	1129L36	11/30/2021 0500

Comments: Batch: #86BTO-211129AL

Laboratory Control Spike Recoveries
EPA 8260B BTEX WATER

APPL ID: **211130W-46713 LCS - 271149**
Batch ID: #86BTO-211129AL

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
BENZENE	10.00	10.8	11.0	108	110	79-120	1.8	20
ETHYLBENZENE	10.00	10.5	11.0	105	110	79-121	4.7	20
TOLUENE	10.00	11.0	11.1	110	111	80-121	0.90	20
XYLENES (TOTAL)	30.0	29.1	27.9	97.0	93.0	79-121	4.2	20
SURROGATE: 1,2-DICHLOROETHANE-D	25.0	23.6	23.4	94.4	93.6	81-118		
SURROGATE: 4-BROMOFLUOROBENZE	25.0	25.7	24.7	103	98.8	85-114		
SURROGATE: DIBROMOFLUOROMETH	25.0	23.5	23.4	94.0	93.6	80-119		
SURROGATE: TOLUENE-D8 (S)	25.0	26.7	25.5	107	102	89-112		

Comments:

Primary	SPK	DUP
Quant Method :	L1129W.M	L1129W.M
Extraction Date :	11/30/2021	11/30/2021
Analysis Date :	11/30/2021	11/30/2021
Instrument :	Loki	Loki
Run :	1129L27	1129L28
Initials :	EOG	

Printed: 12/1/2021 4:47:30 PM
APPL Standard LCSD

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No:
Matrix: Water
ID: 1129L05.D

SDG No:
Date Analyzed: 11/29/2021
Instrument: Loki
Time Analyzed: 14:43

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		0.3ug/L VOC STD 11/2	1129L06.D	11/29/2021 15:11
2		0.5ug/L VOC STD 11/2	1129L07.D	11/29/2021 15:39
3		1ug/L VOC STD 11/29/	1129L08.D	11/29/2021 16:07
4		2ug/L VOC STD 11/29/	1129L09.D	11/29/2021 16:34
5		5ug/L VOC STD 11/29/	1129L10.D	11/29/2021 17:02
6		10ug/L VOC STD 11/29	1129L11.D	11/29/2021 17:30
7		20ug/L VOC STD 11/29	1129L12.D	11/29/2021 17:57
8		40ug/L VOC STD 11/29	1129L13.D	11/29/2021 18:25
9		100ug/L VOC STD 11/2	1129L14.D	11/29/2021 18:53
10		(SS) 10ug/L VOC STD	1129L16.D	11/29/2021 19:48
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
50	15 - 40% of mass 95	17.4
75	30 - 60% of mass 95	47.6
95	100 - 100% of mass 95	100.0
96	5 - 9% of mass 95	7.0
173	0 - 2% of mass 174	1.0
174	50 - 200% of mass 95	101.0
175	5 - 9% of mass 174	9.1
176	95 - 100% of mass 174	95.3
177	5 - 9% of mass 176	6.5

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract:

Lab Code: SDG No.:

Lab File ID (Standard): 1129L16.D Date Analyzed: 11/29/21

Instrument ID: Loki Time Analyzed: 19:48

GC Column: ID: Heated Purge: (Y/N)

		Fluorobenzene (IS)		Chlorobenzene-D5 (IS)		1,4-Dichlorobenzene-D4 (IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	68711	6.31	60026	9.78	41914	12.36
	UPPER LIMIT	137422	6.48	120052	9.95	83828	12.53
	LOWER LIMIT	34356	6.14	30013	9.61	20957	12.19
	SAMPLE NO.						
01	0.3ug/L VOC STD 11/29	57920	6.30	51918	9.77	28603	12.36
02	0.5ug/L VOC STD 11/29	60232	6.30	52563	9.78	29762	12.36
03	1ug/L VOC STD 11/29/2	59195	6.31	52852	9.78	31101	12.36
04	2ug/L VOC STD 11/29/2	60708	6.31	54676	9.78	31774	12.36
05	5ug/L VOC STD 11/29/2	61476	6.30	55788	9.77	36826	12.36
06	10ug/L VOC STD 11/29/	63065	6.30	55999	9.78	38835	12.36
07	20ug/L VOC STD 11/29/	70045	6.30	60915	9.77	44236	12.36
08	40ug/L VOC STD 11/29/	71155	6.30	62470	9.78	44449	12.36
09	100ug/L VOC STD 11/2	74637	6.30	70009	9.78	51004	12.36
10	(SS) 10ug/L VOC STD 1	68711	6.31	60026	9.78	41914	12.36
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: 98278
Matrix: Water
ID: 1129L24.D

SDG No: 98278
Date Analyzed: 11/29/2021
Instrument: Loki
Time Analyzed: 23:29

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		211129A CCV 10ug/L	1129L26.D	11/30/2021 0:24
2	Lab Control Spike	211129A LCS 10ug/L	1129L27.D	11/30/2021 0:52
3	Lab Control SpikeD	211129A LCSD 10ug/L	1129L28.D	11/30/2021 1:20
4	Blank	211129A BLK	1129L31.D	11/30/2021 2:42
5	ERH1929	BA46713W01	1129L35.D	11/30/2021 4:33
6	ERH1930	BA46714W01	1129L36.D	11/30/2021 5:00
7		Ending CCV 10ug/L 11	1129L45.D	11/30/2021 9:09
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
50	15 - 40% of mass 95	15.8
75	30 - 60% of mass 95	48.3
95	100 - 100% of mass 95	100.0
96	5 - 9% of mass 95	6.1
173	0 - 2% of mass 174	1.9
174	50 - 200% of mass 95	105.4
175	5 - 9% of mass 174	6.8
176	94.9 - 100% of mass 174	97.1
177	5 - 9% of mass 176	5.3

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 98278
Matrix: Water
ID: 1129L24.D

SDG No: 98278
Date Analyzed: 11/29/2021
Instrument: Loki
Time Analyzed: 23:29

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				

m/e		
50	15 - 40% of mass 95	15.8
75	30 - 60% of mass 95	48.3
95	100 - 100% of mass 95	100.0
96	5 - 9% of mass 95	6.1
173	0 - 2% of mass 174	1.9
174	50 - 200% of mass 95	105.4
175	5 - 9% of mass 174	6.8
176	94.9 - 100% of mass 174	97.1
177	5 - 9% of mass 176	5.3

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract:

Lab Code: SDG No.:

Lab File ID (Standard): 1129L26.D Date Analyzed: 11/30/21

Instrument ID: Loki Time Analyzed: 0:24

GC Column: ID: Heated Purge: (Y/N)

		Fluorobenzene (IS)		Chlorobenzene-D5 (IS)		1,4-Dichlorobenzene-D4 (IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	68318	6.31	59015	9.77	39777	12.36
	UPPER LIMIT	136636	6.48	118030	9.94	79554	12.53
	LOWER LIMIT	34159	6.14	29508	9.60	19889	12.19
	SAMPLE NO.						
01	211129A CCV 10ug/L	68318	6.31	59015	9.77	39777	12.36
02	211129A LCS 10ug/L	67505	6.30	57729	9.78	40104	12.36
03	211129A LCSD 10ug/L	68608	6.30	60251	9.78	40852	12.36
04	211129A BLK	62893	6.30	54621	9.78	33012	12.36
05	BA46713W01	58630	6.31	51881	9.78	29651	12.36
06	BA46714W01	58913	6.30	52215	9.78	29863	12.36
07	Ending CCV 10ug/L 11/2	67272	6.31	58246	9.78	39767	12.36
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

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

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

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 98278

Case No: 98278 Date Analyzed: 11/30/2021

Matrix: WATER Instrument: Loki

APPL ID.	Client Sample No.	SURROGATE: 4-BROMOFLUOROBENZENE (S)					
		Limits	Result	Qualifier	Limits	Result	Qualifier
211129AL-LCS	Lab Control Spike	85-114	98.4				
211129AL-LCSD	Lab Control SpikeD	85-114	98.8				
211129AL-BLK	Blank	85-114	91.0				
BA46713	ERH1929	85-114	87.4				
BA46714	ERH1930	85-114	90.1				

Comments: Batch: #GRO86-211129AL

EPA 8260B

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	98278
Case No:	98278	Date Analyzed:	11/30/2021
Matrix:	WATER	Instrument:	Loki
Blank ID:	211129AL-BLK	Time Analyzed:	0242

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211129AL-LCS	Lab Control Spike	1129L29	11/30/2021 0147
211129AL-LCSD	Lab Control SpikeD	1129L30	11/30/2021 0215
211129AL-BLK	Blank	1129L31	11/30/2021 0242
BA46713	ERH1929	1129L35	11/30/2021 0433
BA46714	ERH1930	1129L36	11/30/2021 0500

Comments: Batch: #GRO86-211129AL

Method Blank
EPA 8260B GRO WATER

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **211129W-46713 - 271135**
Batch ID: #GRO86-211129AL

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	11/30/2021	11/30/2021
BLANK	SURROGATE: 4-BROMOFLUORO	91.0	85-114			%	11/30/2021	11/30/2021

Quant Method:LGAS1129.M
Run #:1129L31
Instrument:Loki
Sequence:211129
Initials:EOG

GC SC-Blank-REG MDLs-DOD
Printed: 12/1/2021 5:09:19 PM

EPA 8260B

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	98278
Case No:	98278	Date Analyzed:	11/30/2021
Matrix:	WATER	Instrument:	Loki
LCS ID:	211129AL-LCS	Time Analyzed:	0147

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211129AL-LCS	Lab Control Spike	1129L29	11/30/2021 0147
211129AL-LCSD	Lab Control SpikeD	1129L30	11/30/2021 0215
211129AL-BLK	Blank	1129L31	11/30/2021 0242
BA46713	ERH1929	1129L35	11/30/2021 0433
BA46714	ERH1930	1129L36	11/30/2021 0500

Comments: Batch: #GRO86-211129AL

Laboratory Control Spike Recoveries
EPA 8260B GRO WATER

APPL ID: **211130W-46713 LCS - 271135**
Batch ID: #GRO86-211129AL

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	325	294	108	98.0	78-122	10.0	20
SURROGATE: 4-BROMOFLUOROBENZE	25.0	24.6	24.7	98.4	98.8	85-114		

Comments:

Primary	SPK	DUP
Quant Method :	LGAS1129.M	LGAS1129.M
Extraction Date :	11/30/2021	11/30/2021
Analysis Date :	11/30/2021	11/30/2021
Instrument :	Loki	Loki
Run :	1129L29	1129L30
Initials :	EOG	

SW846 9060A

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	98278
Case No:	98278	Date Analyzed:	11/29/2021
Matrix:	WATER	Instrument:	TICTOC
Blank ID:	211129A-BLK	Time Analyzed:	1715

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211129A-LCS	Lab Control Spike	15	11/29/2021 1634
211129A-BLK	Blank	16	11/29/2021 1715
BA46714	ERH1930	17	11/29/2021 1756
211129A-LCSD	Lab Control SpikeD	27	11/30/2021 0039

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

Wetlab SC-Blank-REG MDLs
Printed: 12/1/2021 8:25:50 AM

SW846 9060A

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	98278
Case No:	98278	Date Analyzed:	11/29/2021
Matrix:	WATER	Instrument:	TICTOC
LCS ID:	211129A-LCS	Time Analyzed:	1634

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211129A-LCS	Lab Control Spike	15	11/29/2021 1634
211129A-BLK	Blank	16	11/29/2021 1715
BA46714	ERH1930	17	11/29/2021 1756
211129A-LCSD	Lab Control SpikeD	27	11/30/2021 0039

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
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^2	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

Quantitation Report (Not Reviewed)

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

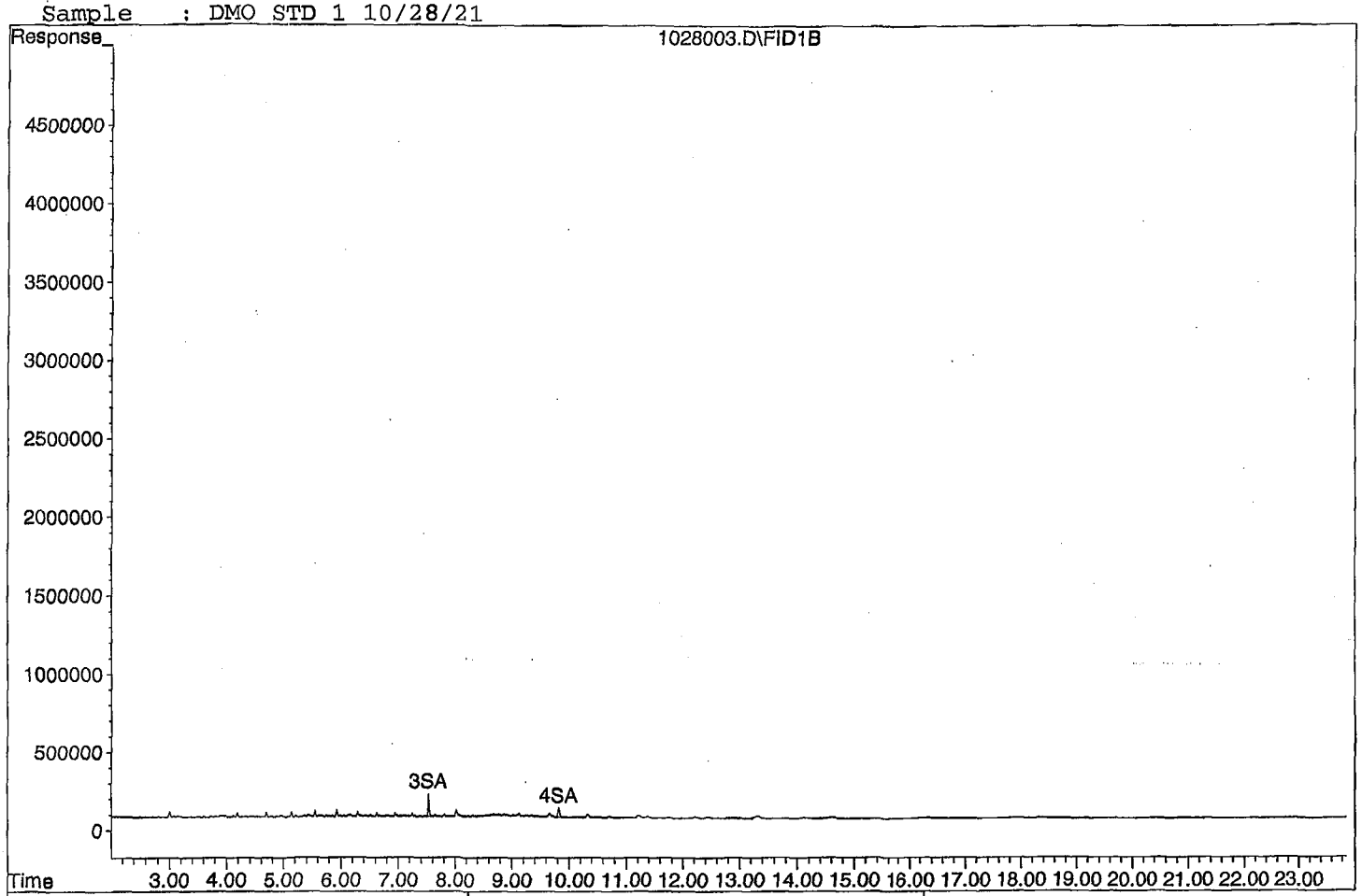
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

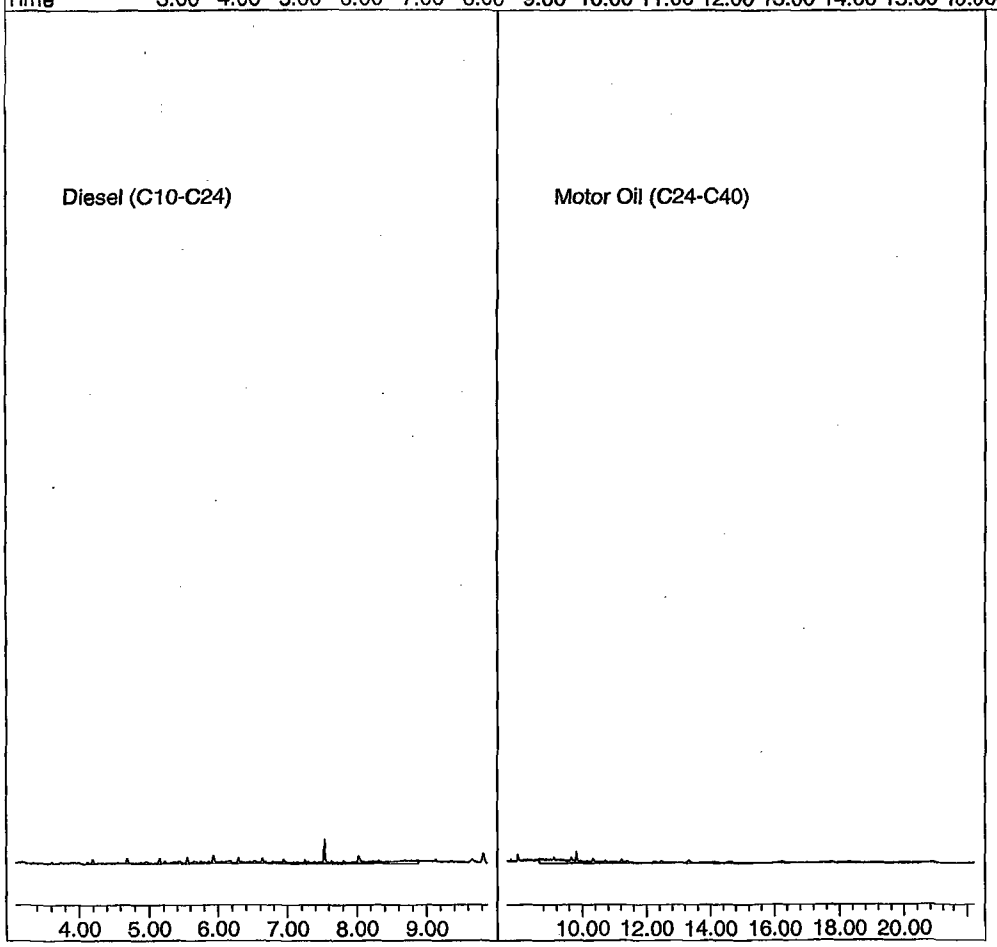
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.53	1818617	0.291 ppb
Surrogate Spike 30.000	Recovery =		0.97%
4) SA Octacosane(S)	9.82	1234601	0.273 ppb
Surrogate Spike 30.000	Recovery =		0.91%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	29838086	5.928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

(f)=RT Delta > 1/2 Window (m)=manual int.
1028003.D DOC1028.M Thu Oct 28 15:42:29 2021 Page 1

Quantitation Report

Data File: G:\APOLLO\DATA\211028\1028003.D
Sample : DMO STD 1 10/28/21





Quantitation Report (Not Reviewed)

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

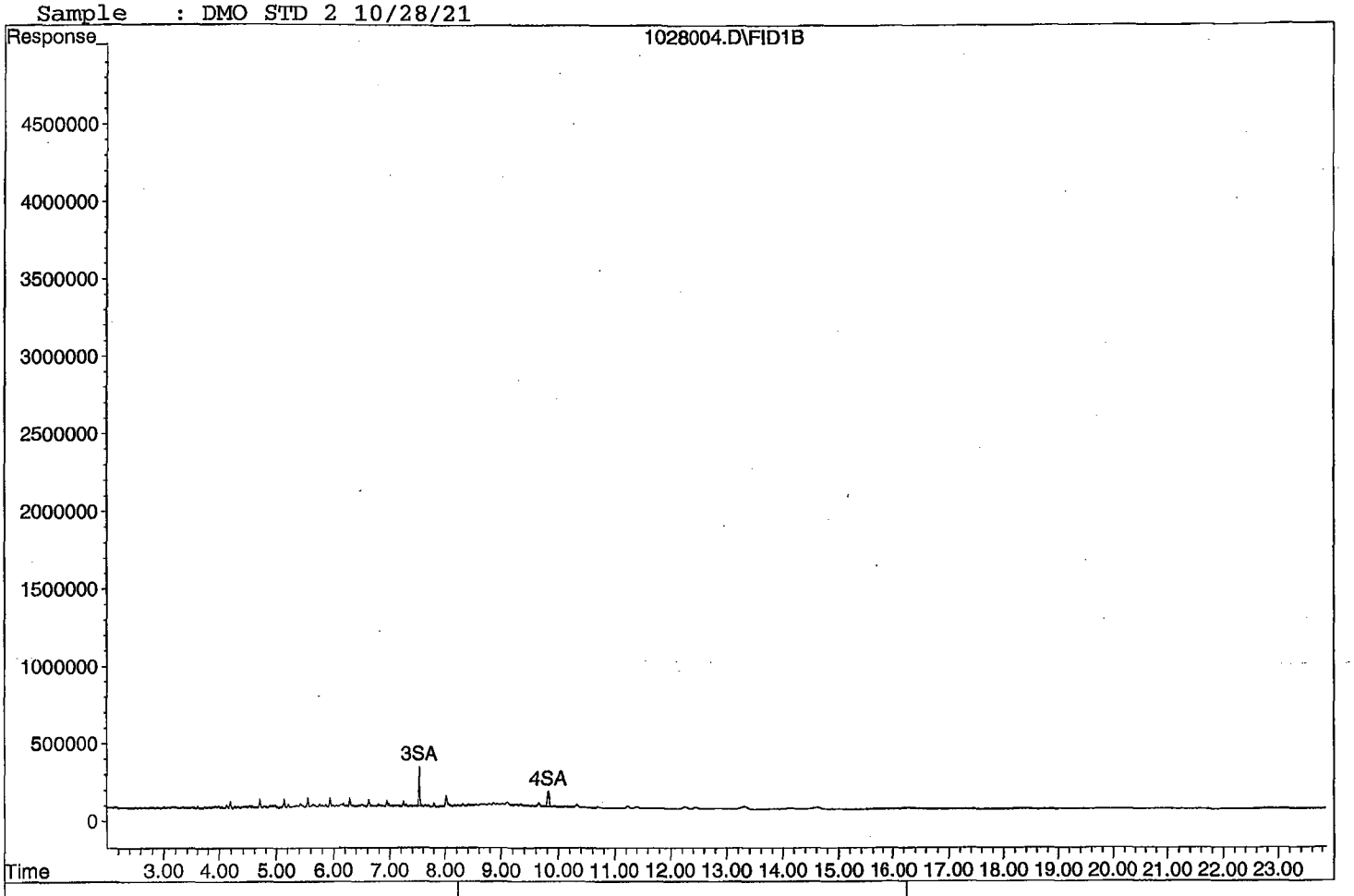
Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Thu Oct 28 15:39:11 2021
Response via : Multiple Level Calibration

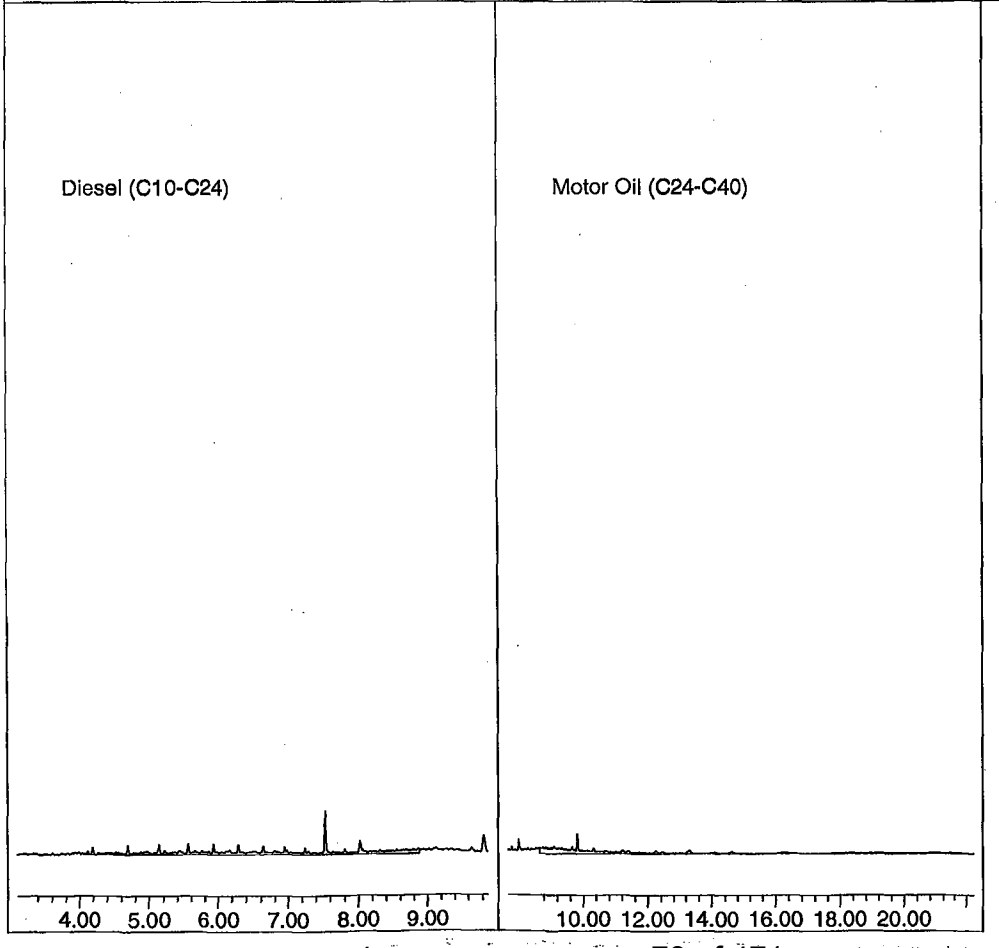
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

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			

(f)=RT Delta > 1/2 Window (m)=manual int.
1028004.D DOC1028.M Thu Oct 28 15:42:31 2021 Page 1

Data File: G:\APOLLO\DATA\211028\1028004.D
Sample : DMO STD 2 10/28/21





Quantitation Report (Not Reviewed)

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

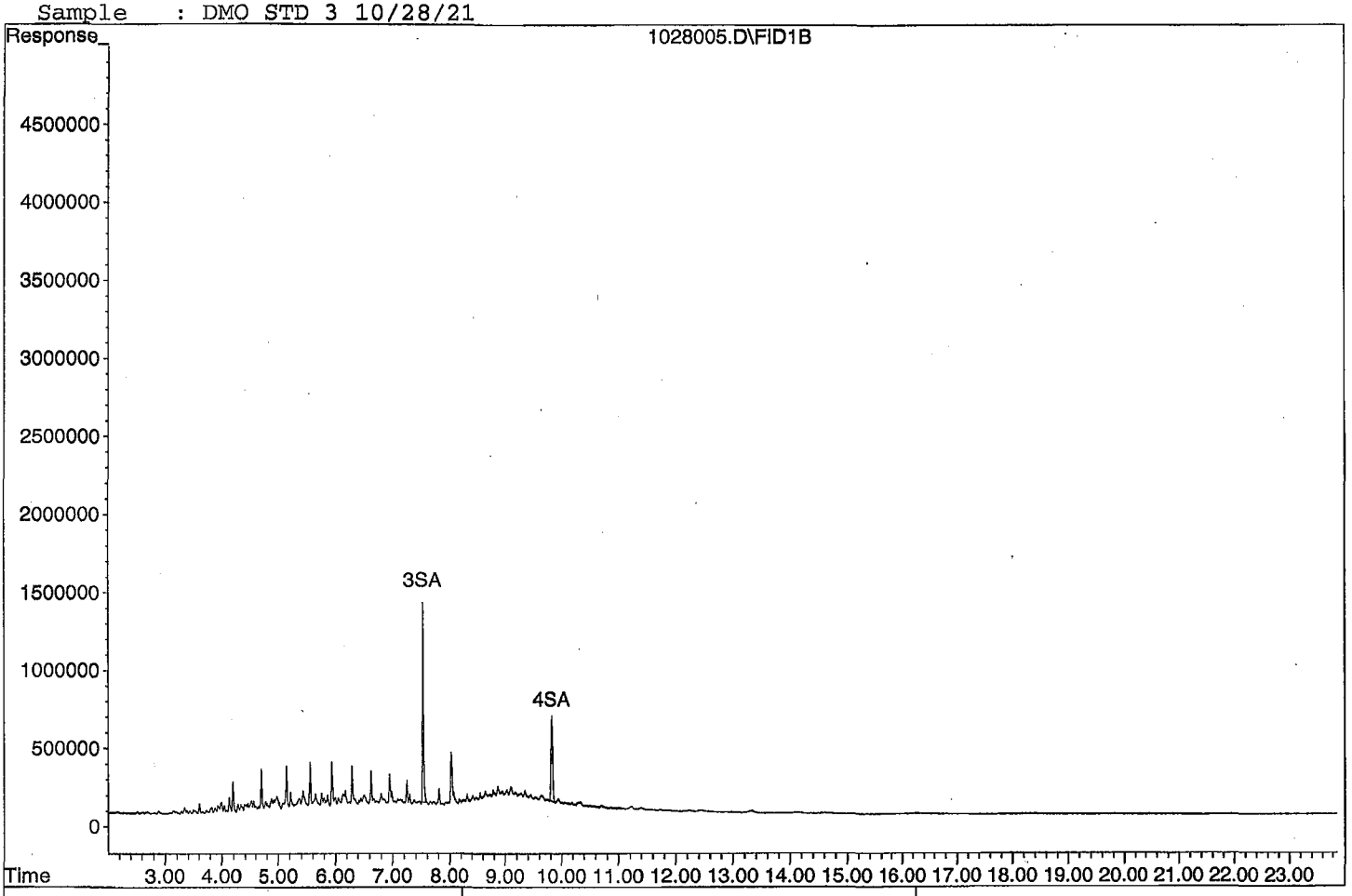
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

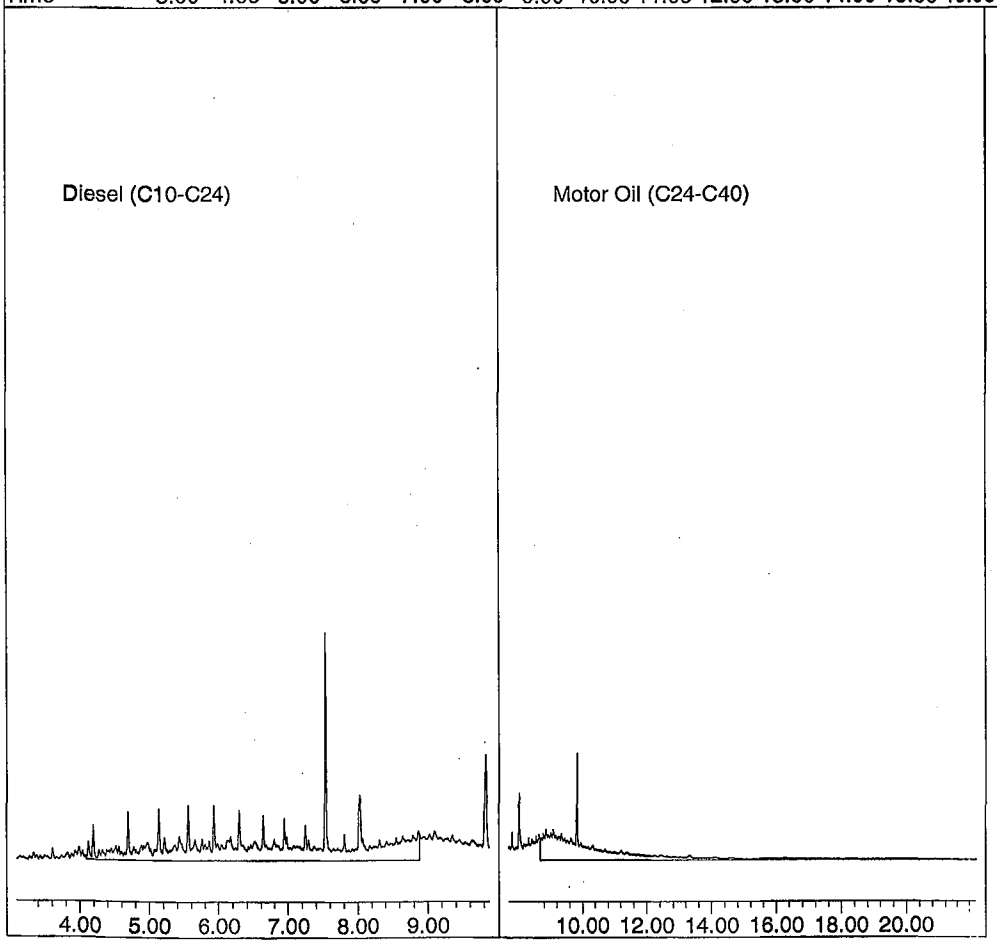
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.53	15599382	2.494 ppb
Surrogate Spike 30.000	Recovery =		8.31%
4) SA Octacosane(S)	9.82	11432050	2.528 ppb
Surrogate Spike 30.000	Recovery =		8.43%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	251787231	50.024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

(f)=RT Delta > 1/2 Window (m)=manual int.
1028005.D DOC1028.M Thu Oct 28 15:42:32 2021 Page 1

Quantitation Report

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





1028005.D DOC1028.M Thu Oct 28 15:42:33 2021 Page 2

Quantitation Report (Not Reviewed)

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

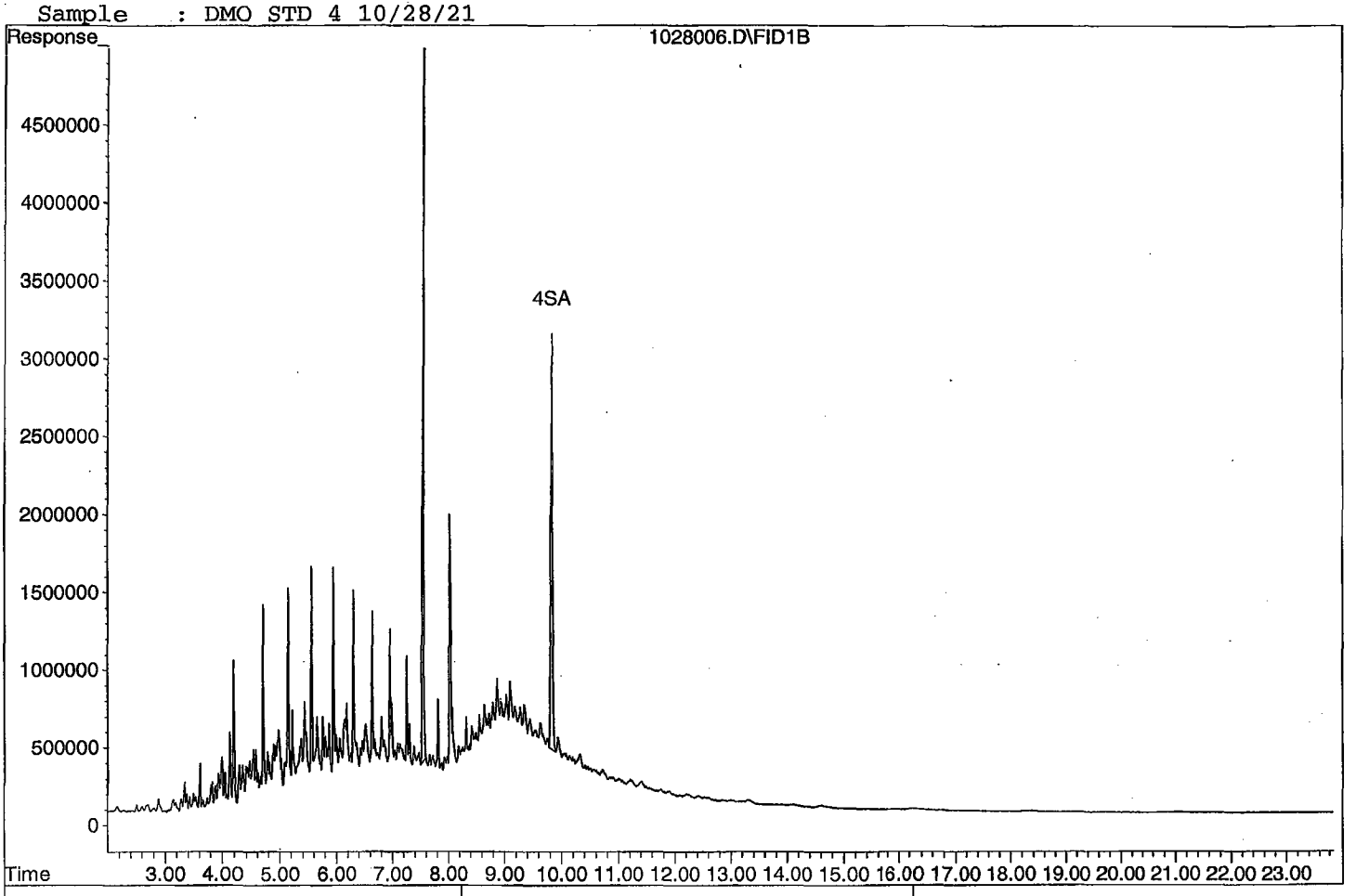
Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Thu Oct 28 15:39:11 2021
Response via : Multiple Level Calibration

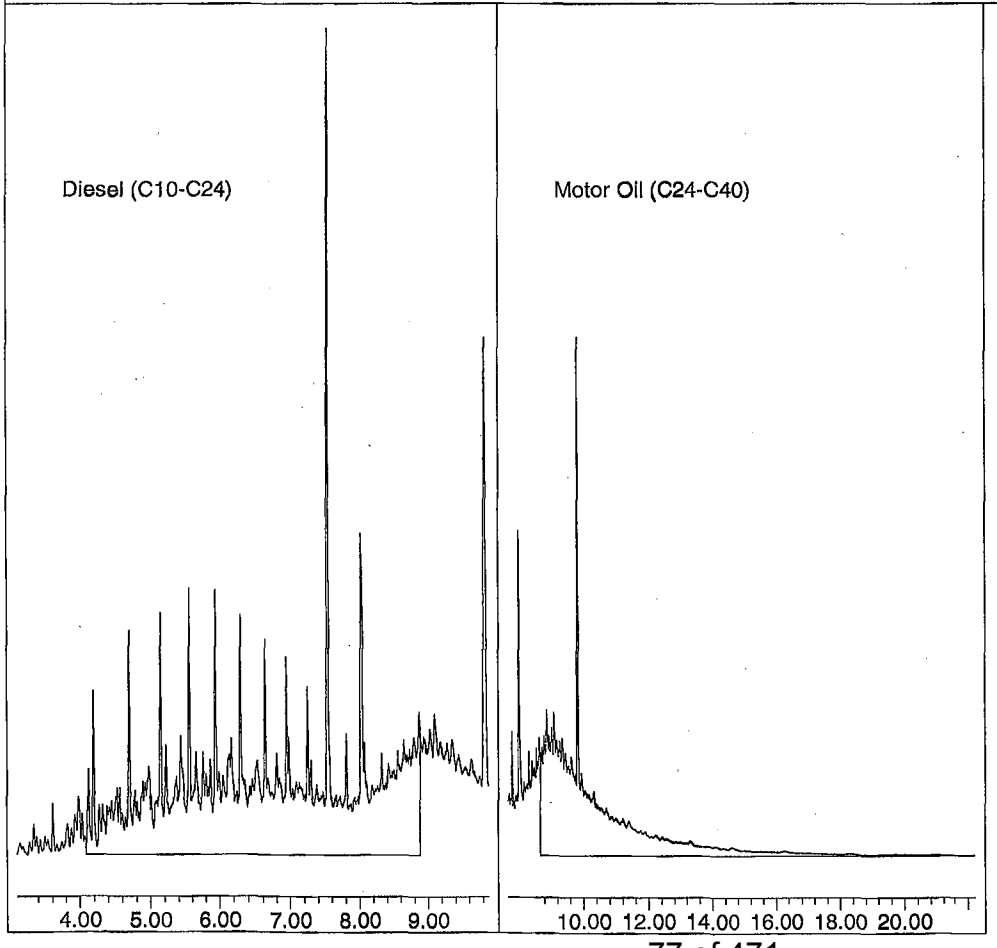
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

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			

(f)=RT Delta > 1/2 Window (m)=manual int.
1028006.D DOC1028.M Thu Oct 28 15:42:34 2021 Page 1

Data File: G:\APOLLO\DATA\211028\1028006.D
Sample : DMO STD 4 10/28/21





Quantitation Report (Not Reviewed)

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

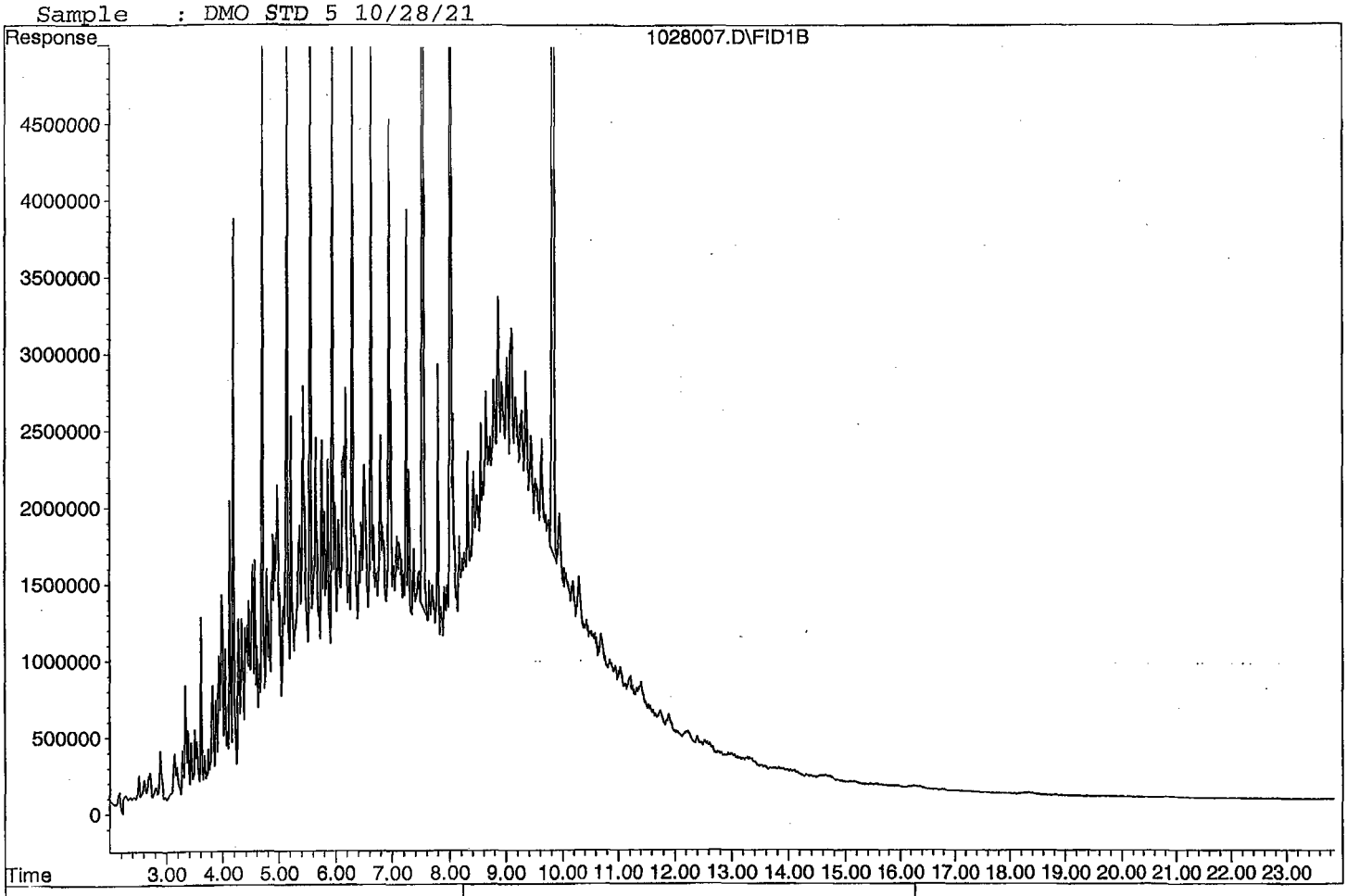
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

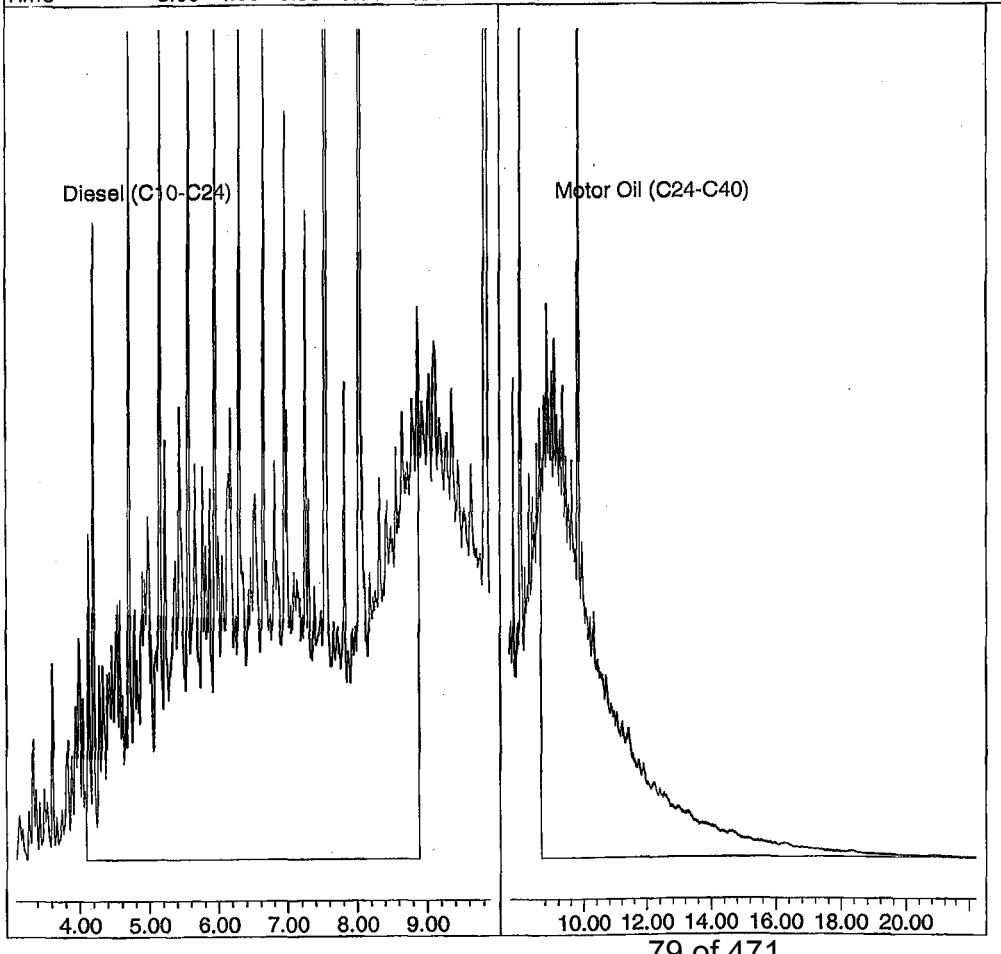
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	7.54	292696553	46.794	ppb
Surrogate Spike 30.000		Recovery =	155.98%	
4) SA Octacosane(S)	9.83	217041298	47.988	ppb
Surrogate Spike 30.000		Recovery =	159.96%	
Target Compounds				
1) HATM Diesel (C10-C24)	6.49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





Quantitation Report (Not Reviewed)

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

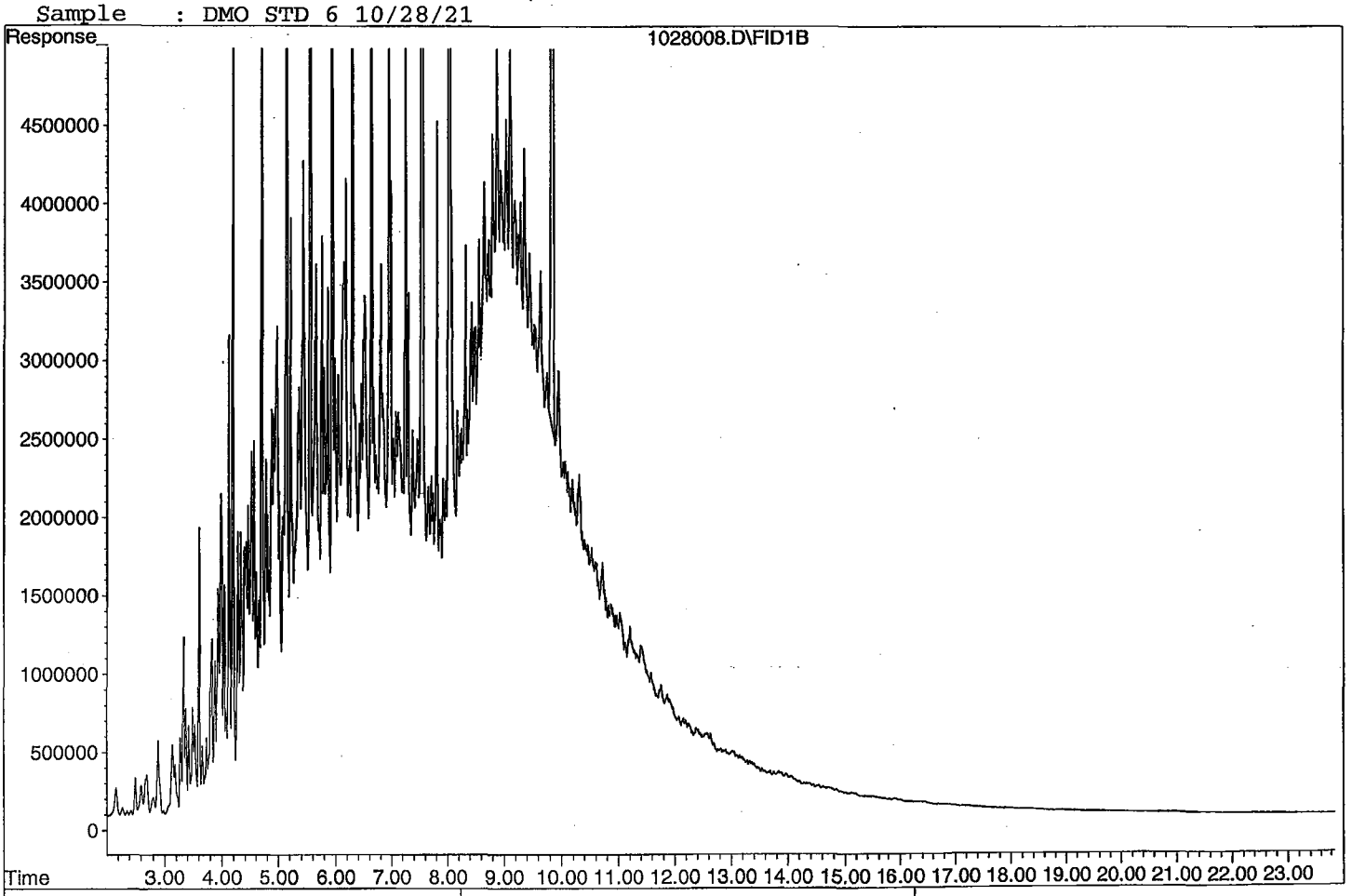
Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Thu Oct 28 15:39:11 2021
Response via : Multiple Level Calibration

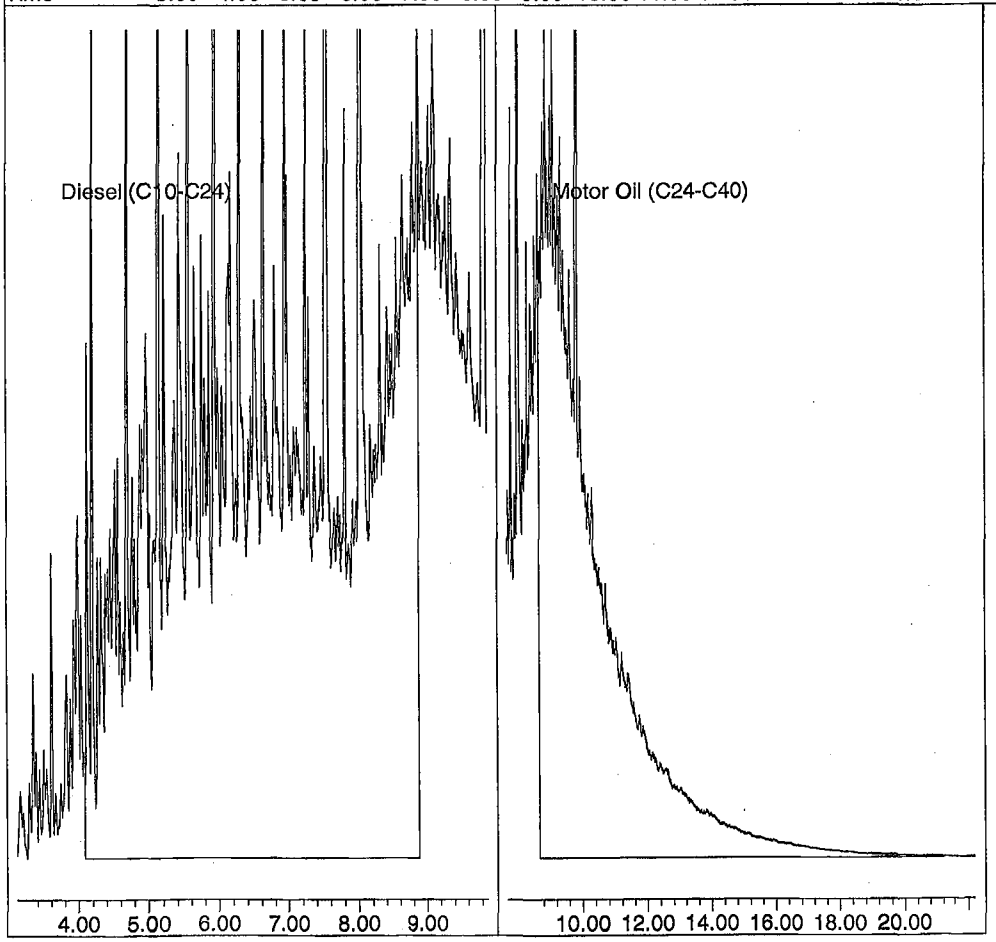
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

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

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





1028008.D DOC1028.M Thu Oct 28 15:42:39 2021 Page 2

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

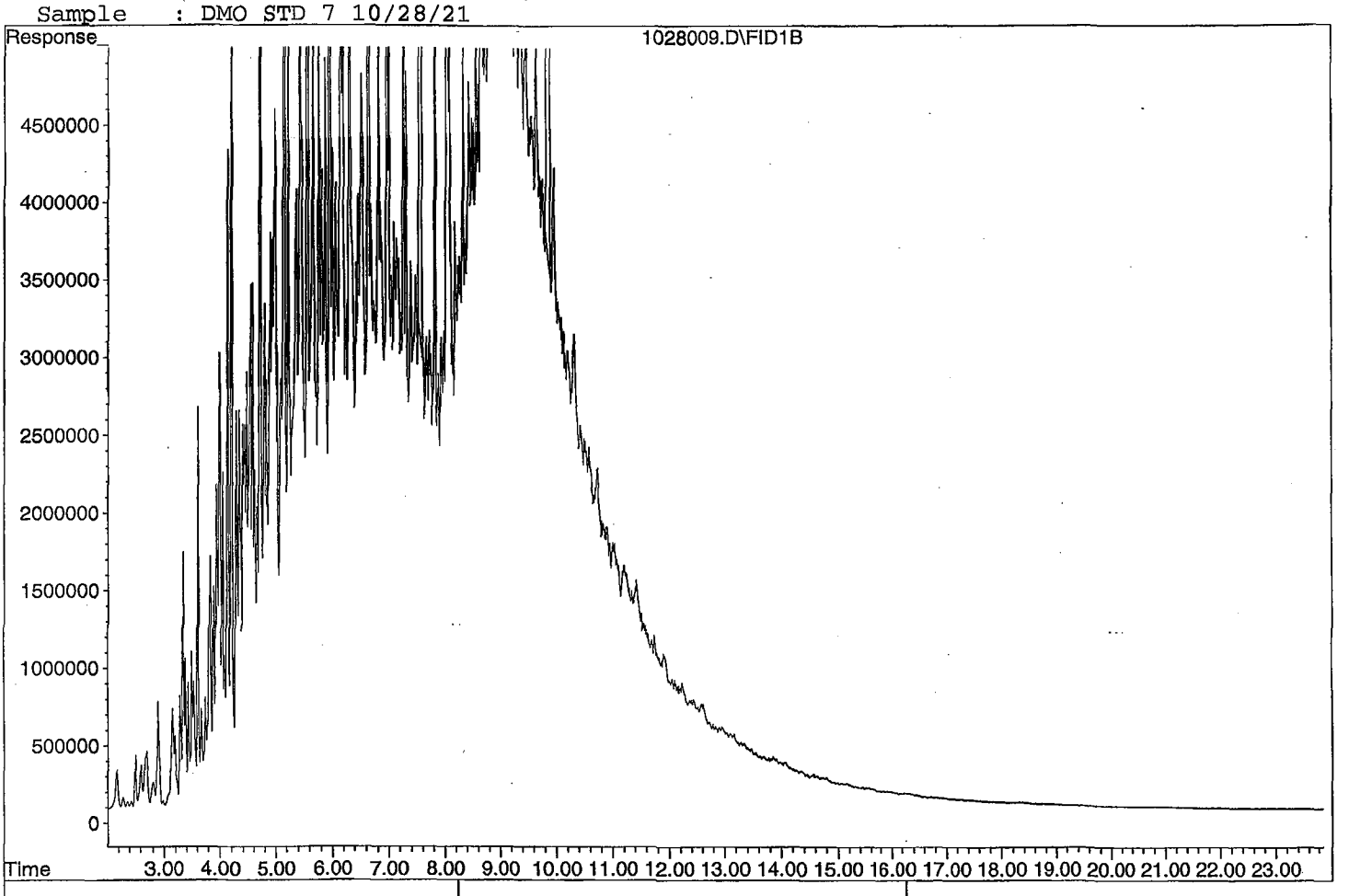
Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Thu Oct 28 15:39:11 2021
Response via : Multiple Level Calibration

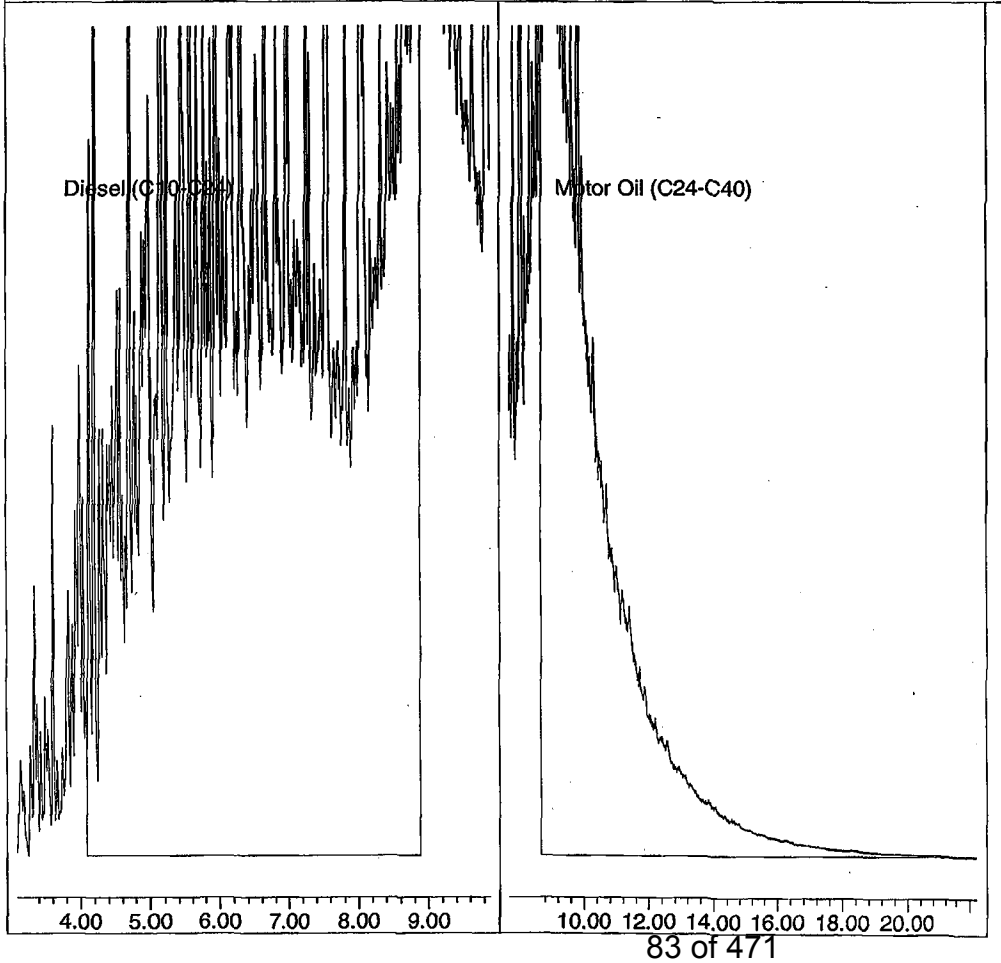
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

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

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							
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		Average			21.5		

Quantitation Report (Not Reviewed)

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

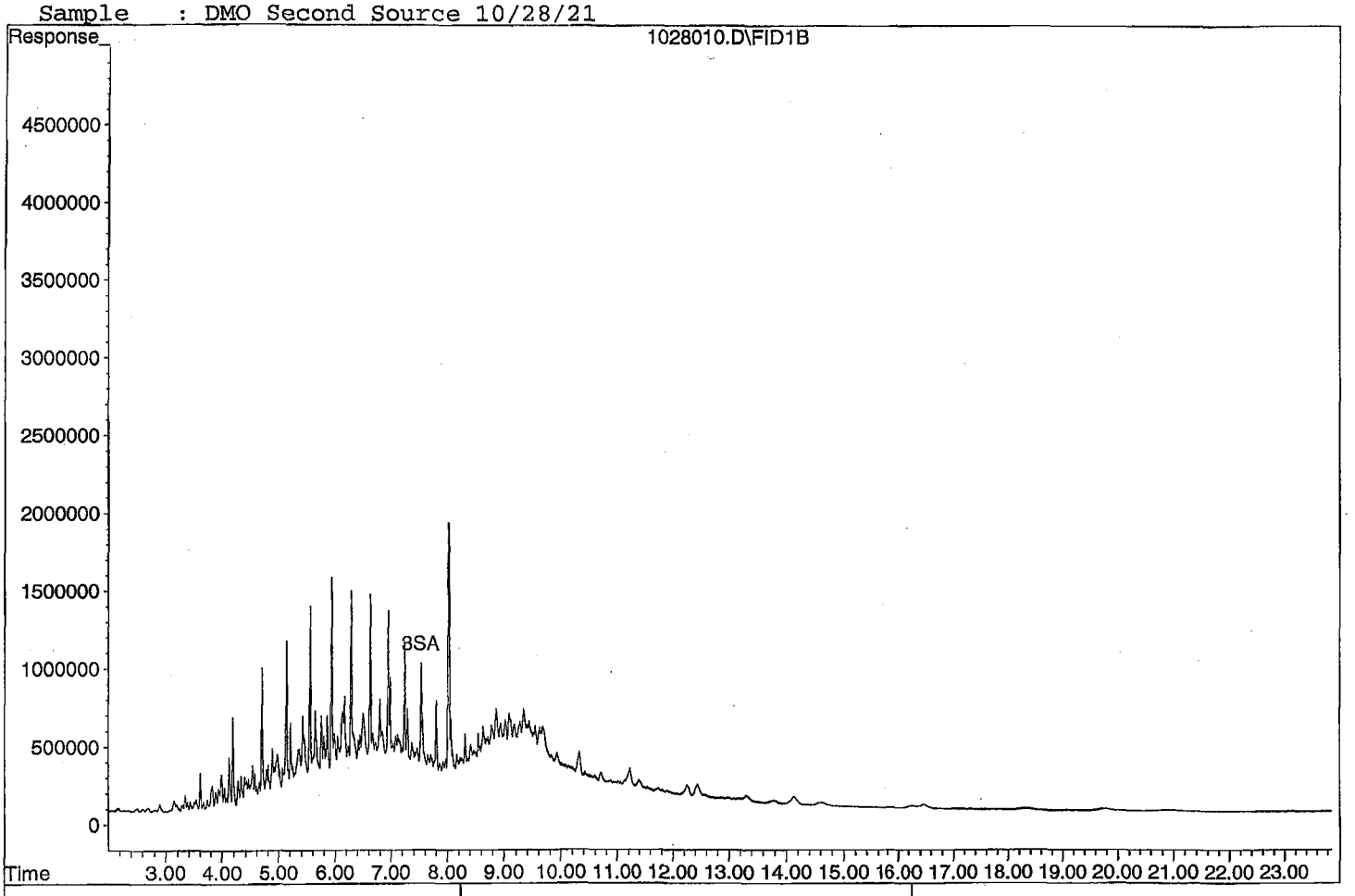
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

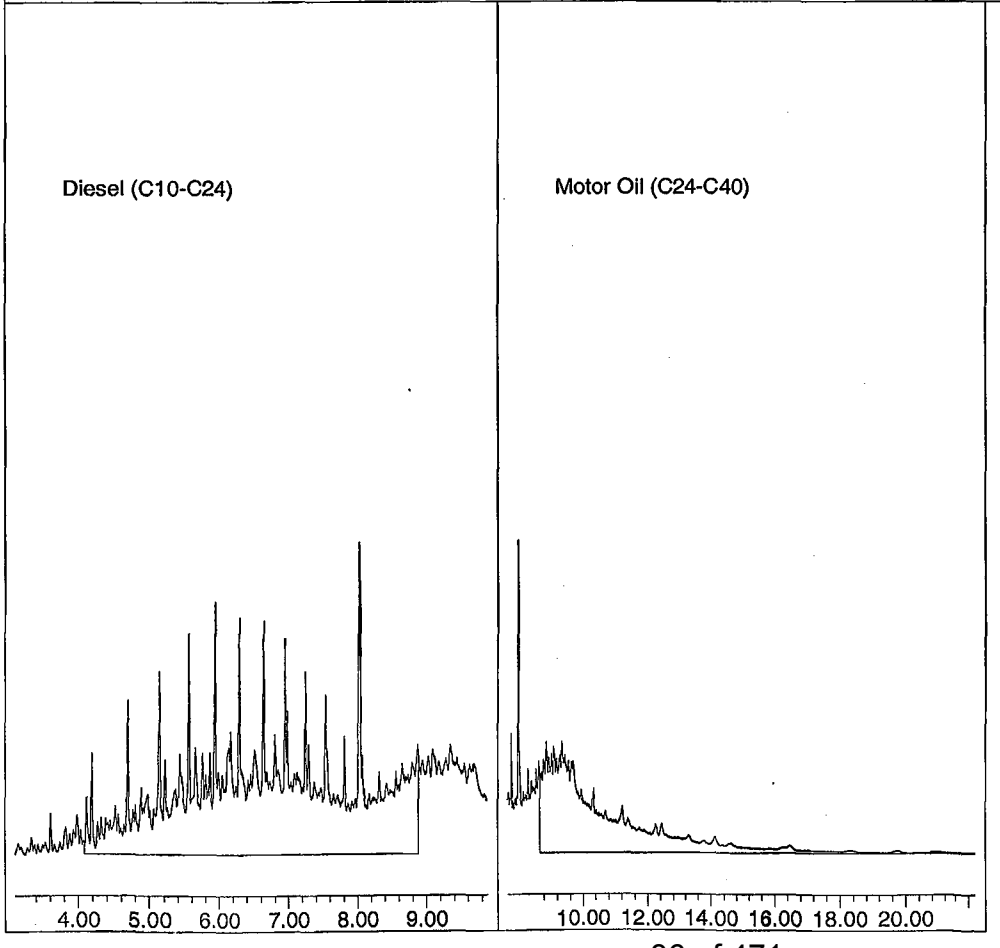
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.53	4250105	0.679 ppb
Surrogate Spike 30.000	Recovery =		2.26%
4) SA Octacosane(S)	9.83	-3553	N.D. ppb
Surrogate Spike 30.000	Recovery =		0.00%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	1133202337	225.139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

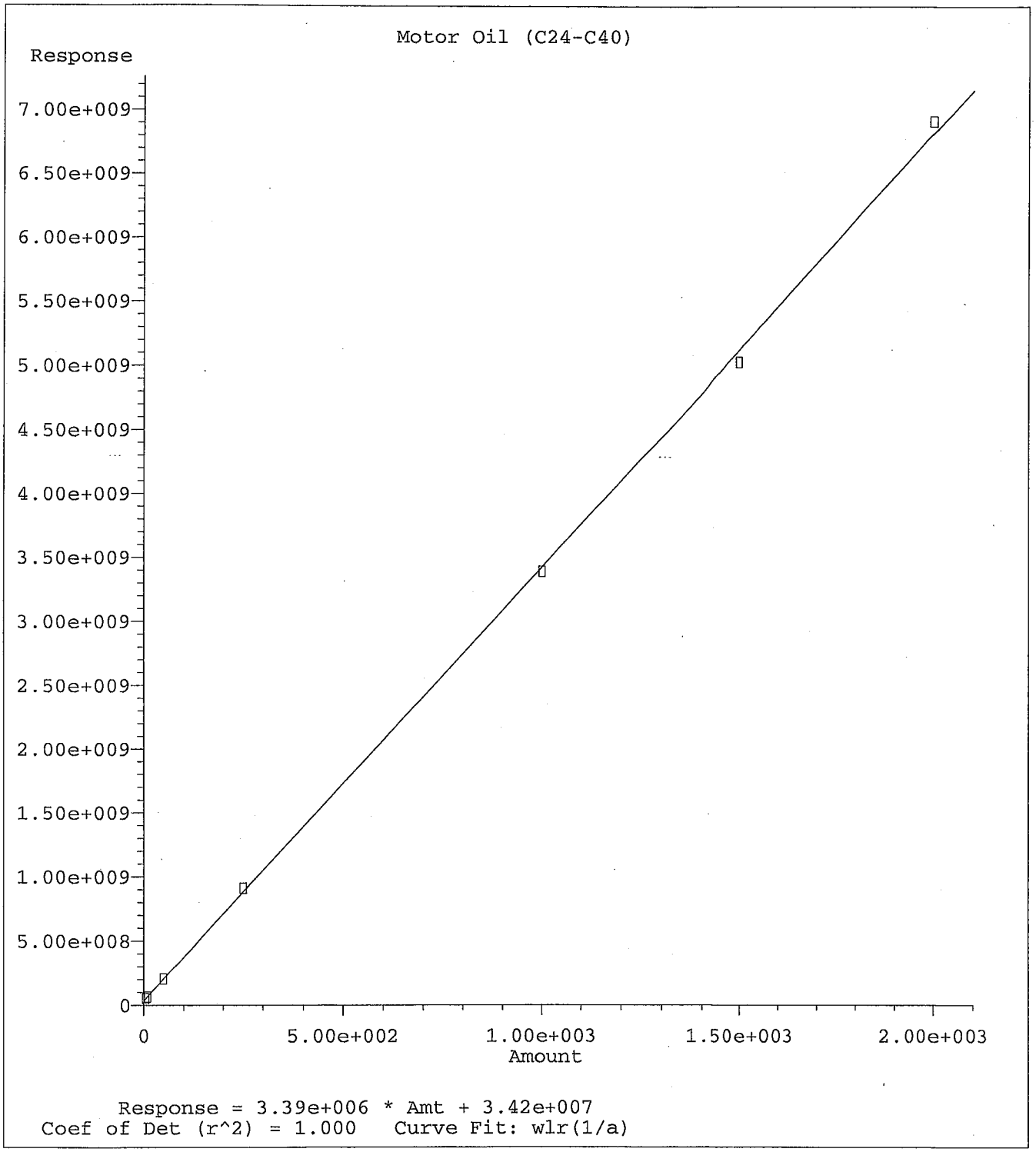
Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.
1028010.D DOC1028.M Thu Oct 28 15:42:42 2021 Page 1

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
DOC1028

Form 7

Continuing Calibration

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

SDG No:
Date Analyzed: 11/30/2021
Instrument: Apollo
Initial Cal. Date: 10/28/2021
Data File: 1129054.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C24)	2516670	2639320	4.9	HATM	
2	HBTM	Motor Oil (C24-C40)	2492040	1528380	39	HBTML	11
3	SA	Ortho-Terphenyl(S)	3127510	2461080	21	SA	*
4	SA	Octacosane(S)	2261430	2175120	3.8	SA	
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		Average			17.2		

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211129\1129054.D Vial: 54
Acq On : 11-30-21 17:20:36 Operator: KA
Sample : DMO STD DF2 10/06/21 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 3 8:33 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211129\DOC1028.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Dec 01 08:12:47 2021
Response via : Multiple Level Calibration

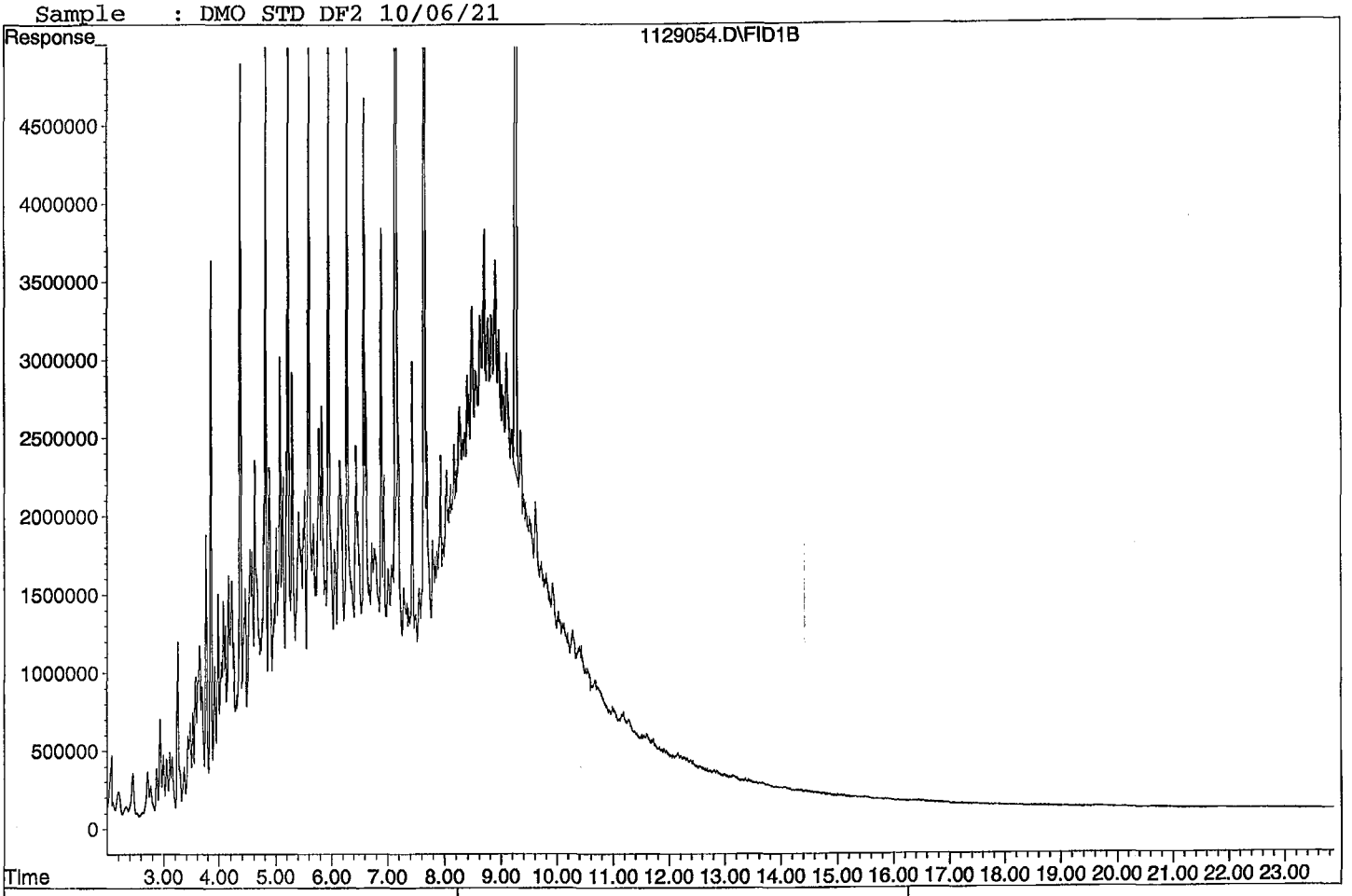
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

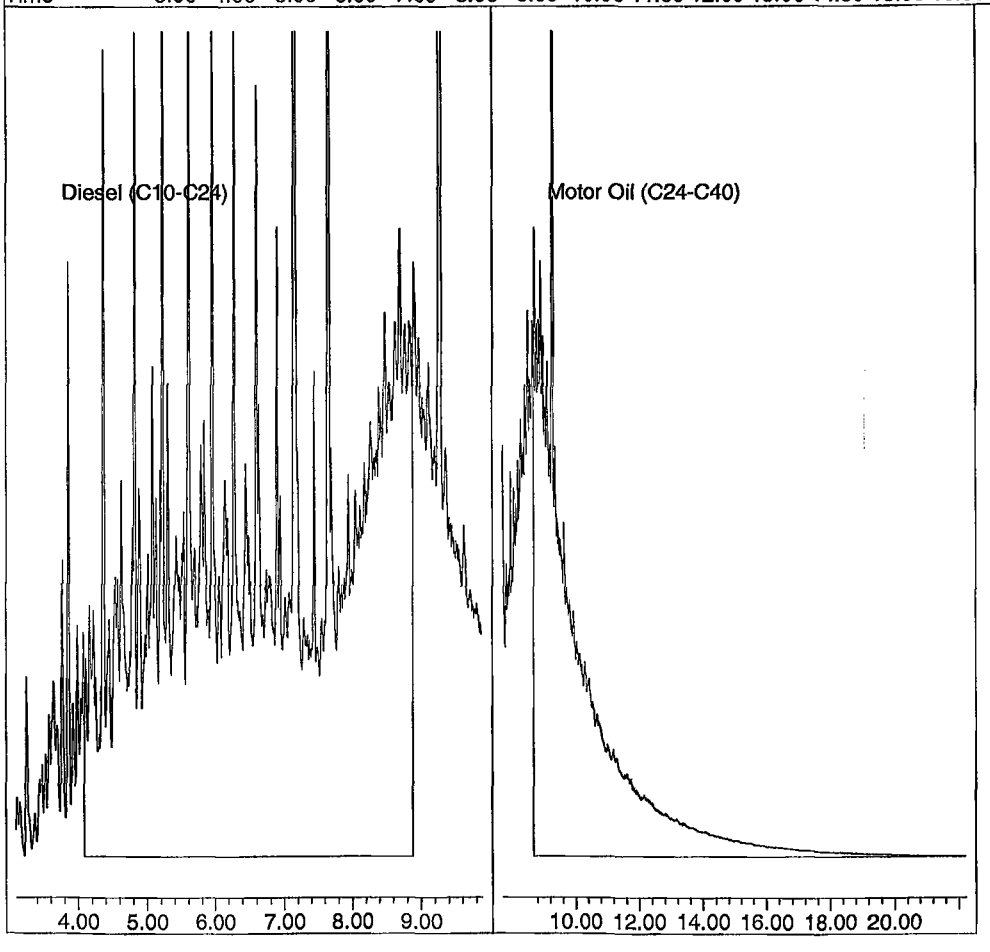
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	7.14	246108299	39.346	ppb
Surrogate Spike 30.000		Recovery =	131.15%	
4) SA Octacosane(S)	9.27	217512311	48.092	ppb
Surrogate Spike 30.000		Recovery =	160.31%	
Target Compounds				
1) HATM Diesel (C10-C24)	6.49	5278634580	1048.734	ppb
2) HBTM Motor Oil (C24-C40)	14.96	3056767220	891.134	ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\211129\1129054.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: 12/1/2021
Instrument: Apollo
Initial Cal. Date: 10/28/2021
Data File: 1129074.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C24)	2516670	2714770	7.9	HATM	
2	HBTM	Motor Oil (C24-C40)	2492040	1562440	37	HBTML	8.9
3	SA	Ortho-Terphenyl(S)	3127510	2512110	20	SA	
4	SA	Octacosane(S)	2261430	2226140	1.6	SA	
5							
6							
7							
8							
9							
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28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			16.6		

Quantitation Report (Not Reviewed)

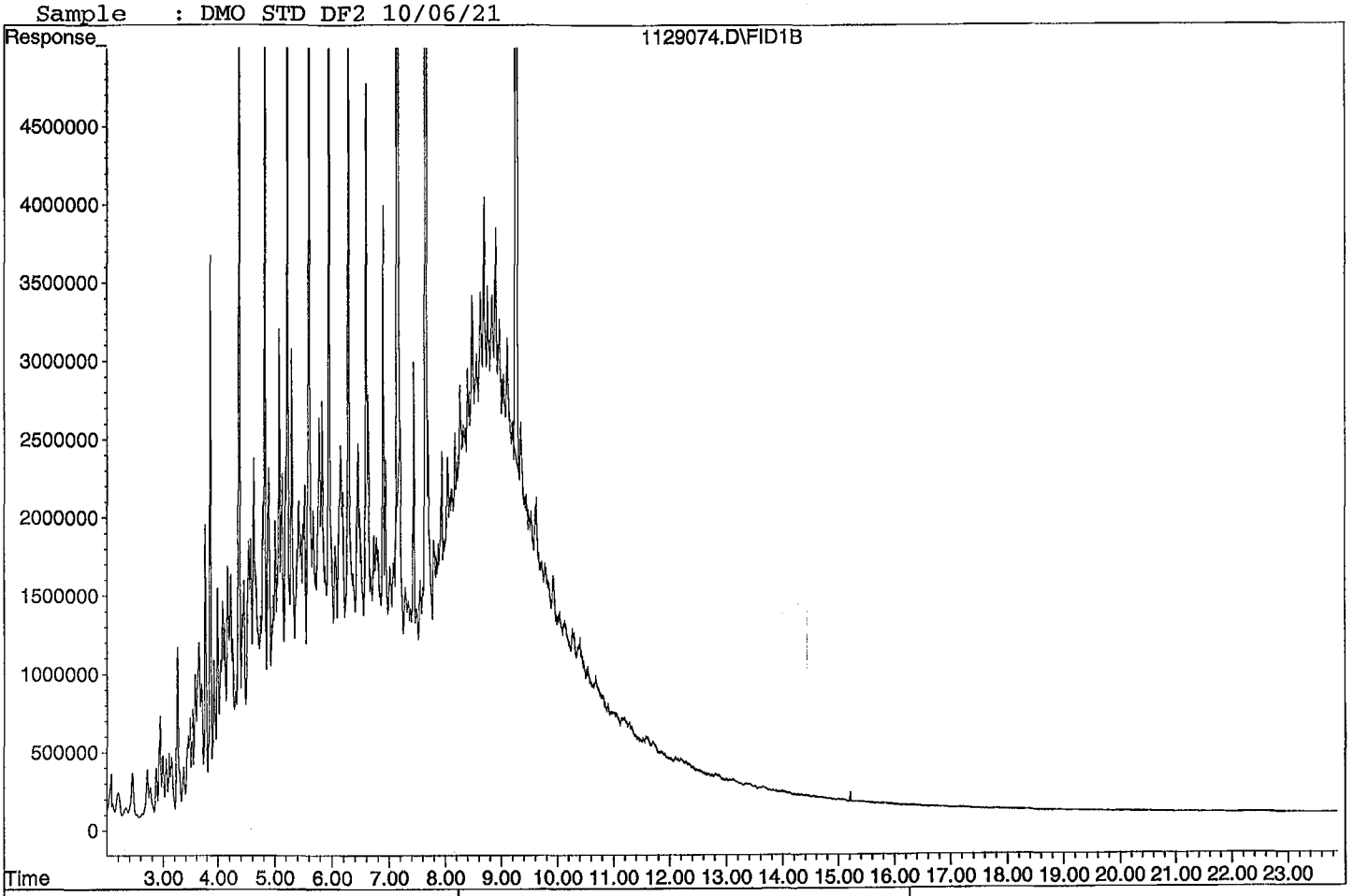
Data File : G:\APOLLO\DATA\211129\1129074.D Vial: 74
Acq On : 12-1-21 2:45:45 Operator: KA
Sample : DMO STD DF2 10/06/21 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 1 8:14 2021 Quant Results File: DOC1028.RES

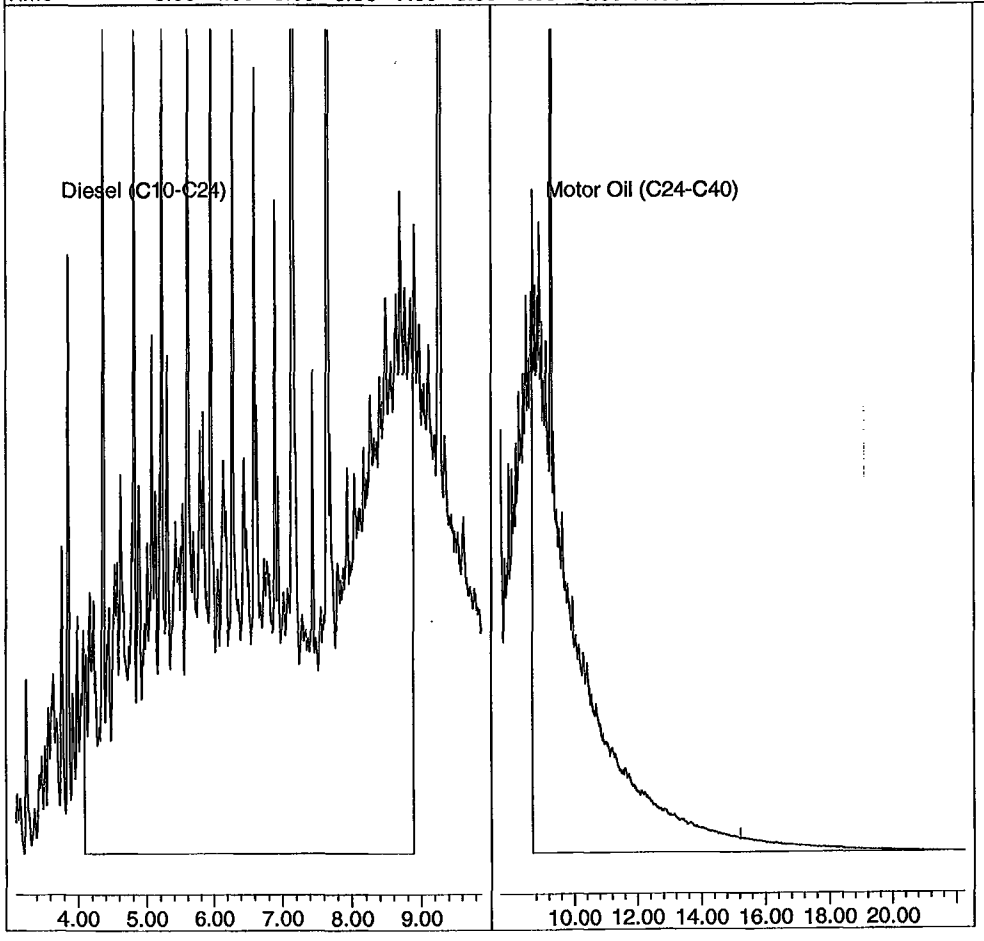
Method : G:\APOLLO\DATA\211129\DOC1028.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Dec 01 08:12:47 2021
Response via : Multiple Level Calibration

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	251210944	40.162 ppb
Surrogate Spike 30.000		Recovery =	133.87%
4) SA Octacosane(S)	9.27	222613968	49.220 ppb
Surrogate Spike 30.000		Recovery =	164.07%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	5429536803	1078.715 ppb
2) HBTM Motor Oil (C24-C40)	14.96	3124882581	911.216 ppb
Target Compounds			

Data File: G:\APOLLO\DATA\211129\1129074.D
Sample : DMO STD DF2 10/06/21





ORGANICS
Raw Data

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\211129\1129072.D Vial: 72
Acq On : 12-1-21 1:49:24 Operator: KA
Sample : BA46714W09 5/1050 Inst : Apollo
Misc : water Multiplr: 4.76
IntFile : events.e
Quant Time: Dec 3 8:37 2021 Quant Results File: DOC1028.RES

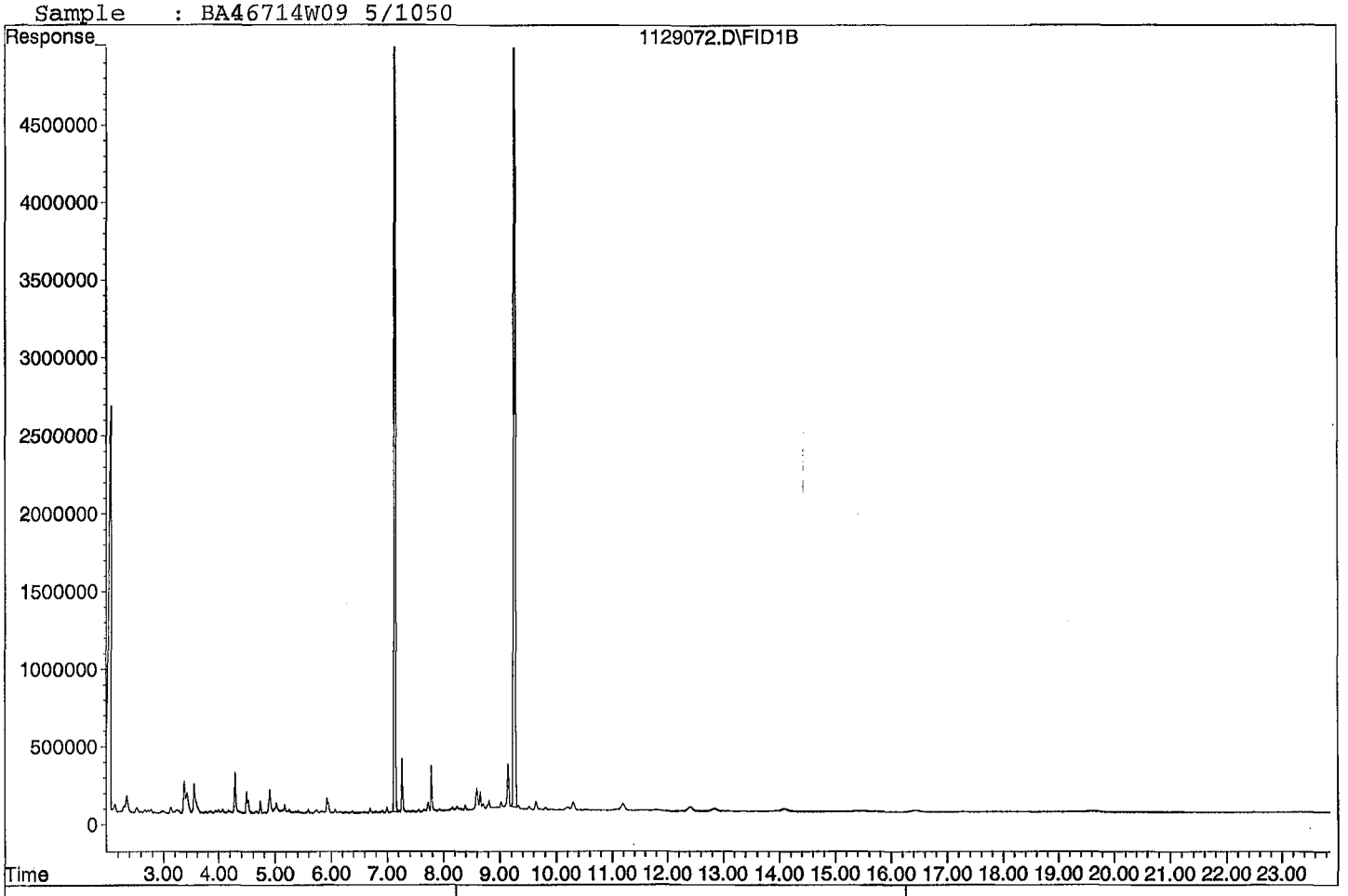
Method : G:\APOLLO\DATA\211129\DOC1028.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Dec 01 08:12:47 2021
Response via : Multiple Level Calibration

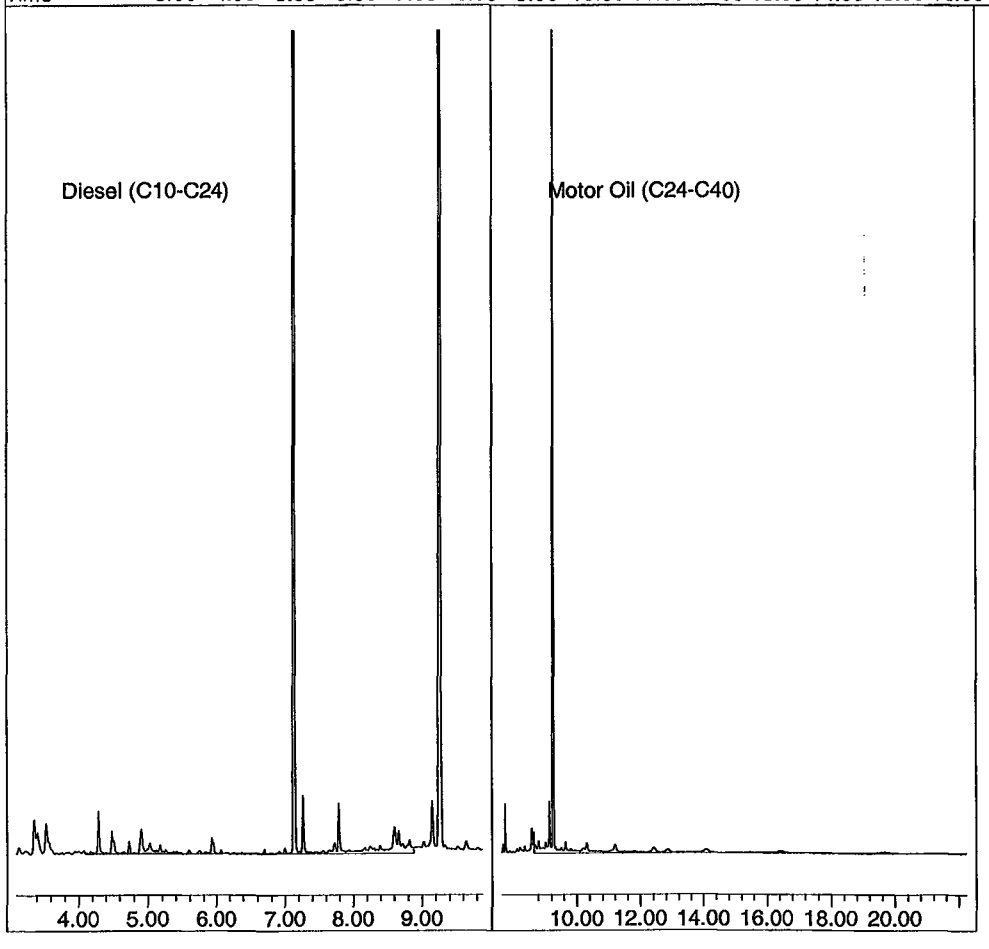
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.14	138917285	105.757 ppb
Surrogate Spike 142.857		Recovery =	74.03%
4) SA Octacosane(S)	9.26	123789085	130.332 ppb
Surrogate Spike 142.857		Recovery =	91.23%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	63942080	60.494 ppb
2) HBTM Motor Oil (C24-C40)	14.96	73146901	54.719 ppb
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\211129\1129072.D
Sample : BA46714W09 5/1050





Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\211129\1129069.D Vial: 69
Acq On : 12-1-21 0:24:52 Operator: KA
Sample : 211122A BLK 5/1000 Inst : Apollo
Misc : water Multiplr: 5.00
IntFile : events.e
Quant Time: Dec 3 8:35 2021 Quant Results File: DOC1028.RES

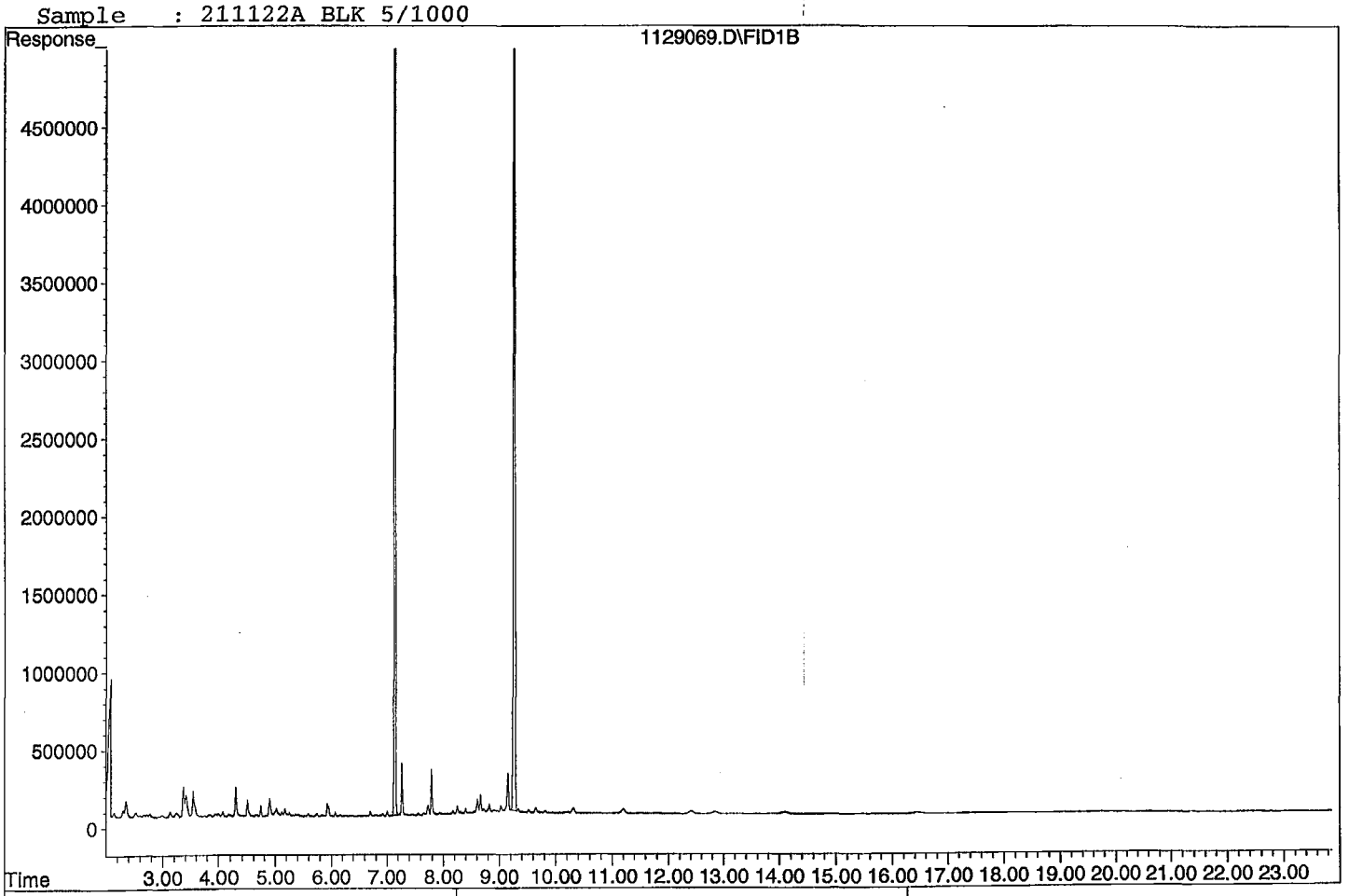
Method : G:\APOLLO\DATA\211129\DOC1028.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Dec 01 08:12:47 2021
Response via : Multiple Level Calibration

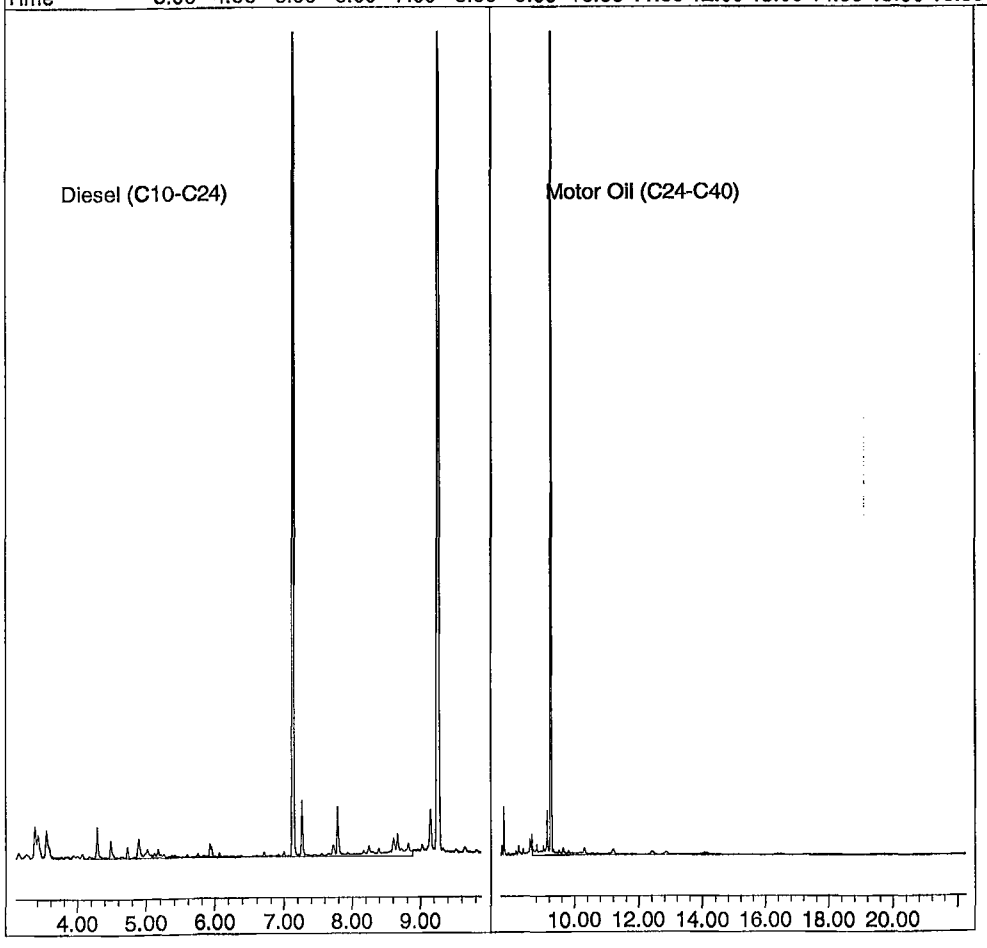
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.14	122486118	97.910 ppb
Surrogate Spike 150.000		Recovery =	65.27%
4) SA Octacosane(S)	9.26	109232273	120.756 ppb
Surrogate Spike 150.000		Recovery =	80.50%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	55692868	55.324 ppb
2) HBTM Motor Oil (C24-C40)	14.96	51339884	25.309 ppb

Target Compounds

Data File: G:\APOLLO\DATA\211129\1129069.D
Sample : 211122A BLK 5/1000





Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\211129\1129070.D Vial: 70
Acq On : 12-1-21 0:53:02 Operator: KA
Sample : 211122A LCS-1 5/1000 Inst : Apollo
Misc : water Multiplr: 5.00
IntFile : events.e
Quant Time: Dec 3 8:36 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211129\DOC1028.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Dec 01 08:12:47 2021
Response via : Multiple Level Calibration

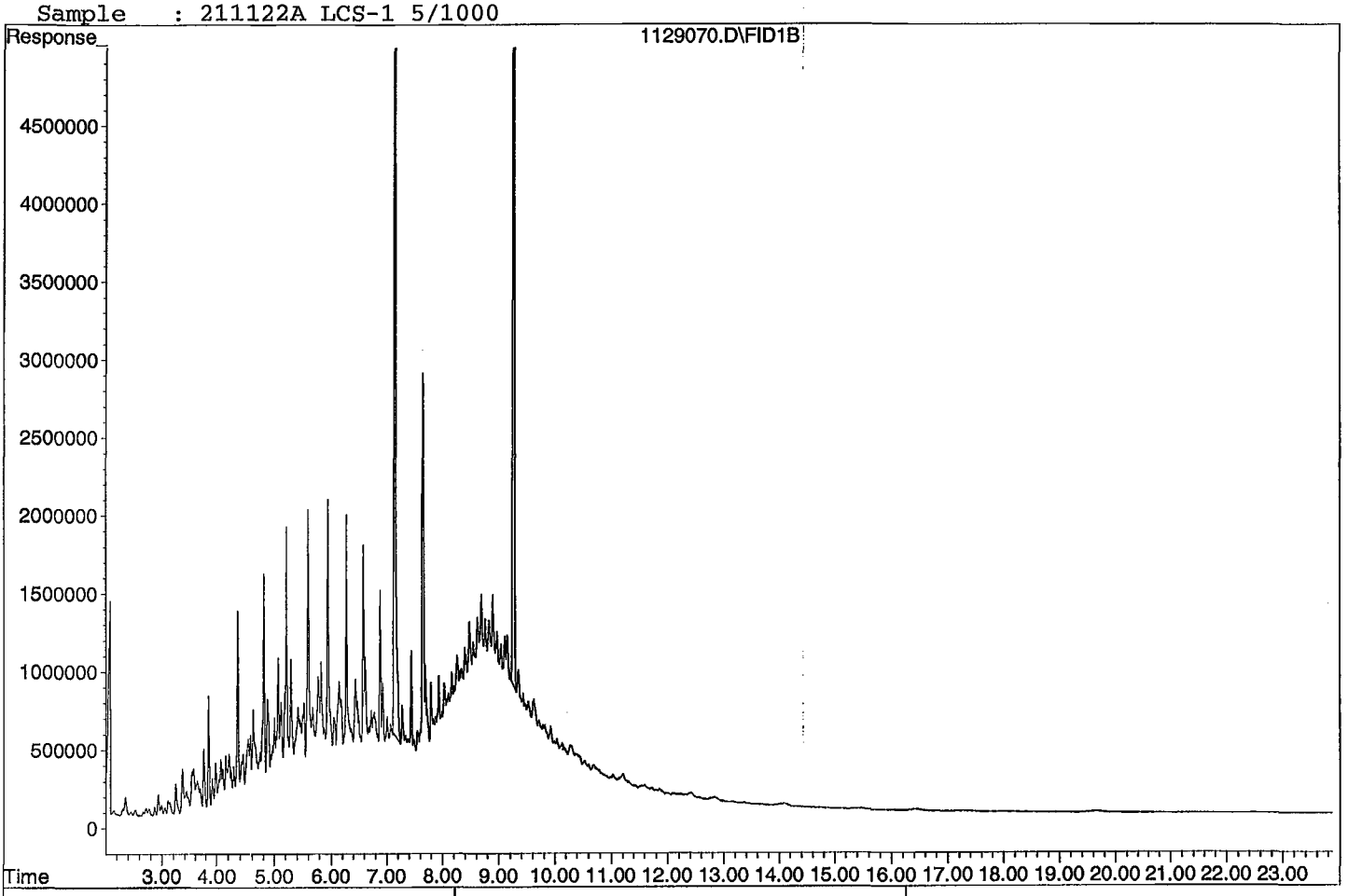
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

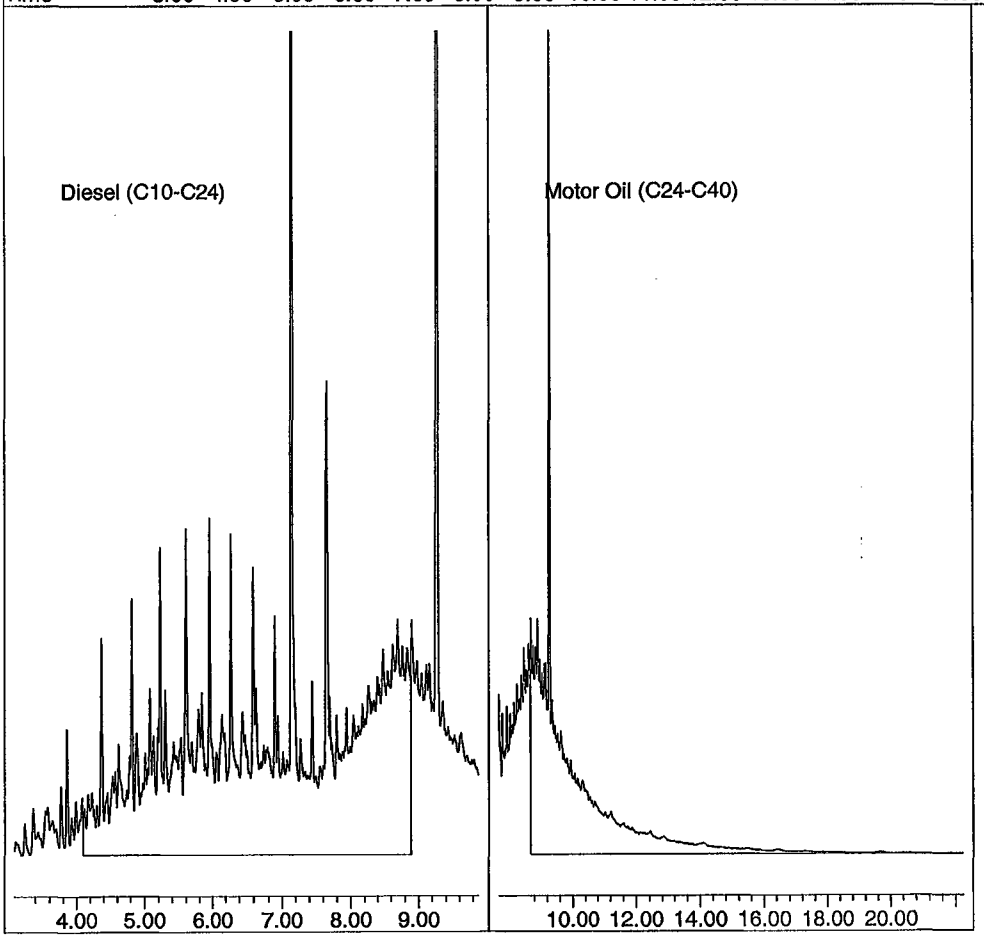
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.14	151387203	121.013 ppb
Surrogate Spike 150.000		Recovery =	80.68%
4) SA Octacosane(S)	9.26	119880223	132.527 ppb
Surrogate Spike 150.000		Recovery =	88.35%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	1908571011	1895.930 ppb
2) HBTM Motor Oil (C24-C40)	14.96	1157057388	1655.269 ppb
Target Compounds			

Diesel:

$$\frac{(1908571011)(5)}{(2516669)(2)} = \frac{9542855055}{5033338} = 1895.930$$

Data File: G:\APOLLO\DATA\211129\1129070.D
Sample : 211122A LCS-1 5/1000





Quantitation Report (QT Reviewed)

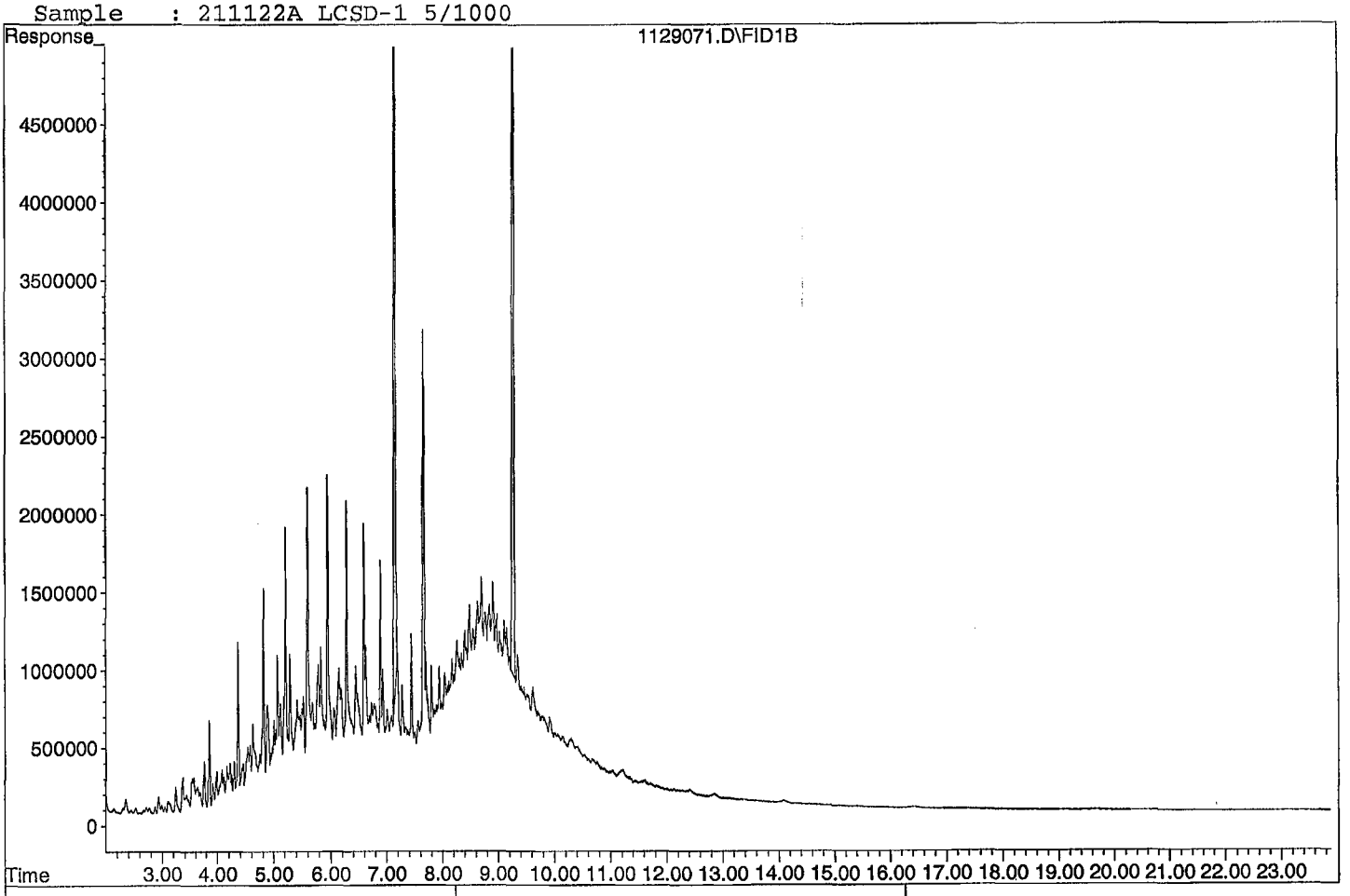
Data File : G:\APOLLO\DATA\211129\1129071.D Vial: 71
Acq On : 12-1-21 1:21:14 Operator: KA
Sample : 211122A LCSD-1 5/1000 Inst : Apollo
Misc : water Multiplr: 5.00
IntFile : events.e
Quant Time: Dec 3 8:36 2021 Quant Results File: DOC1028.RES

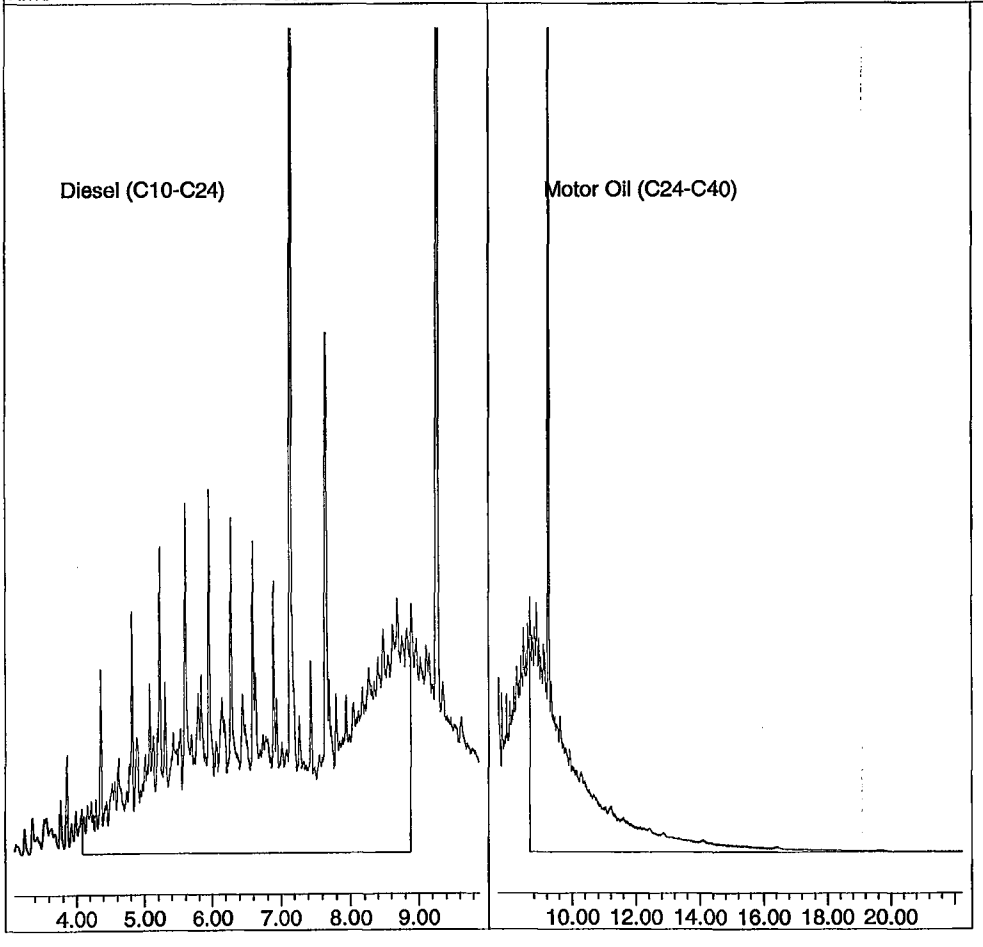
Method : G:\APOLLO\DATA\211129\DOC1028.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Dec 01 08:12:47 2021
Response via : Multiple Level Calibration

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	147230324	117.690 ppb
Surrogate Spike 150.000		Recovery =	78.46%
4) SA Octacosane(S)	9.26	129503437	143.166 ppb
Surrogate Spike 150.000		Recovery =	95.44%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	2037494414	2023.999 ppb
2) HBTM Motor Oil (C24-C40)	14.96	1253307456	1797.154 ppb
Target Compounds			

Data File: G:\APOLLO\DATA\211129\1129071.D
Sample : 211122A LCSD-1 5/1000





Diesel / Motor Oil Calibration Curve

Prepared: 10/28/2021
Expires: 5/31/2026
Methylene Chloride Lot No. 61117

Prepared By (Initials): KA

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: 10/6/21 A0164485-52822, A0168842-52820, AO166510-52817 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 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 Calibration Standard

Prepared: 10/6/2021 **Prepared By (Initials):** KA

Expires: 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	**A0164485-52822**	**9/3/2022**	**10/31/2027**	400uL	10mL	MC	2000
Motor Oil	Restek	31464	50,000	**A0168842-52820 and A0166510-52817**	**10/6/2021**	**12/31/2027**	400uL			2000
THC Surrogate	Phenova	ALO-130161	600	**CL1689352835**	**10/6/2021**	**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

THC Surrogate

Prepared: 11/3/2021 **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	**CL16893-52840**	**See ma. Date**	**5/31/2026**	N/A	N/A	N/A	600

_LIQ005SGC

Organic Extraction Worksheet

Method	Continuous Liq/Liq TPH- 3520C w/SGC	Extraction Set	211122A	Extraction Method	LIQ005SGC	Units	mL

Spiked ID 1	Diesel Motor Oil Mix 10-30-21 10-31-27		Surrogate ID 1	THC Surrogate 11-3-21 11-3-22
Spiked ID 2	Decanoic 1000ug/mL Acid Solution 11-19-21 11-19-22		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:	11/22/21 13:08
Spiked ID 8			Ext. End Time:	11/23/21 7:09
			GC Requires Extract By:	

pH1	2	11/22/21 11:50	Water Bath Temp 1 °C	41/ 40.1 °C
pH2			Water Bath Temp 2 °C	35/ 36.1
pH3			Water Bath Temp 3 °C	34/ 33.5 °C

Spiked By: SR **Date** 11/22/2021 **Witnessed By:** AGM **Date** 11/22/2021

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	211122A Blk		0.050	2	0.250	1	1000	5	2	11/22/21 11:52	*
						equip	E-HP3 E-WB1				
2	211122A LCS-1		0.080,0.050	1,2	0.250	1	1000	5	2	11/22/21 11:52	*
						equip	E-HP4 E-WB2				
3	211122A LCSD-1		0.080,0.050	1,2	0.250	1	1000	5	2	11/22/21 11:52	*
						equip	E-HP6 E-WB3				
4	BA46714	BA46714W09	0.050	2	0.250	1	1050	5	2	11/22/21 11:52	98278 *
						equip	E-HP7 E-WB1				
5	BA46716	BA46716W09	0.050	2	0.250	1	1020	5	2	11/22/21 11:52	98285 *
						equip	E-HP8 E-WB2				
6	BA46717	BA46717W08	0.050	2	0.250	1	1020	5	2	11/22/21 11:52	98285 *
						equip	E-HP9 E-WB3				
7	BA46821	BA46821W09	0.050	2	0.250	1	950	5	2	11/22/21 11:52	98300 *
						equip	E-HP10 E-WB1				
8	BA46823	BA46823W09	0.050	2	0.250	1	1020	5	2	11/22/21 11:52	98300 *
						equip	E-HP11 E-WB2				
9	BA46827	BA46827W09	0.050	2	0.250	1	1030	5	2	11/22/21 11:52	98299 *
						equip	E-HP12 E-WB3				
10	BA46829	BA46829W09	0.050	2	0.250	1	1040	5	2	11/22/21 11:52	98299 *
						equip	E-HP13 E-WB1				

Solvent and Lot#	
1+1 HCL (5mLs)	60282
PH Strips	HC155968
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	11/24/21
Time	16:31
Refrigerator	Hobart

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

Modified	11/29/2021 6:45:31 AM

Reviewed By: KY **Date** 11/29/2021

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	54	1129054.D	1	DMO STD DF2 10/06/21	water	11-30-21 17:20:36
10	69	1129069.D	5	211122A BLK 5/1000	water	12-1-21 0:24:52
11	70	1129070.D	5	211122A LCS-1 5/1000	water	12-1-21 0:53:02
12	71	1129071.D	5	211122A LCSD-1 5/1000	water	12-1-21 1:21:14
13	72	1129072.D	4.7619	BA46714W09 5/1050	water	12-1-21 1:49:24
14	74	1129074.D	1	DMO STD DF2 10/06/21	water	12-1-21 2:45:45

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^2	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

Quantitation Report (Not Reviewed)

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

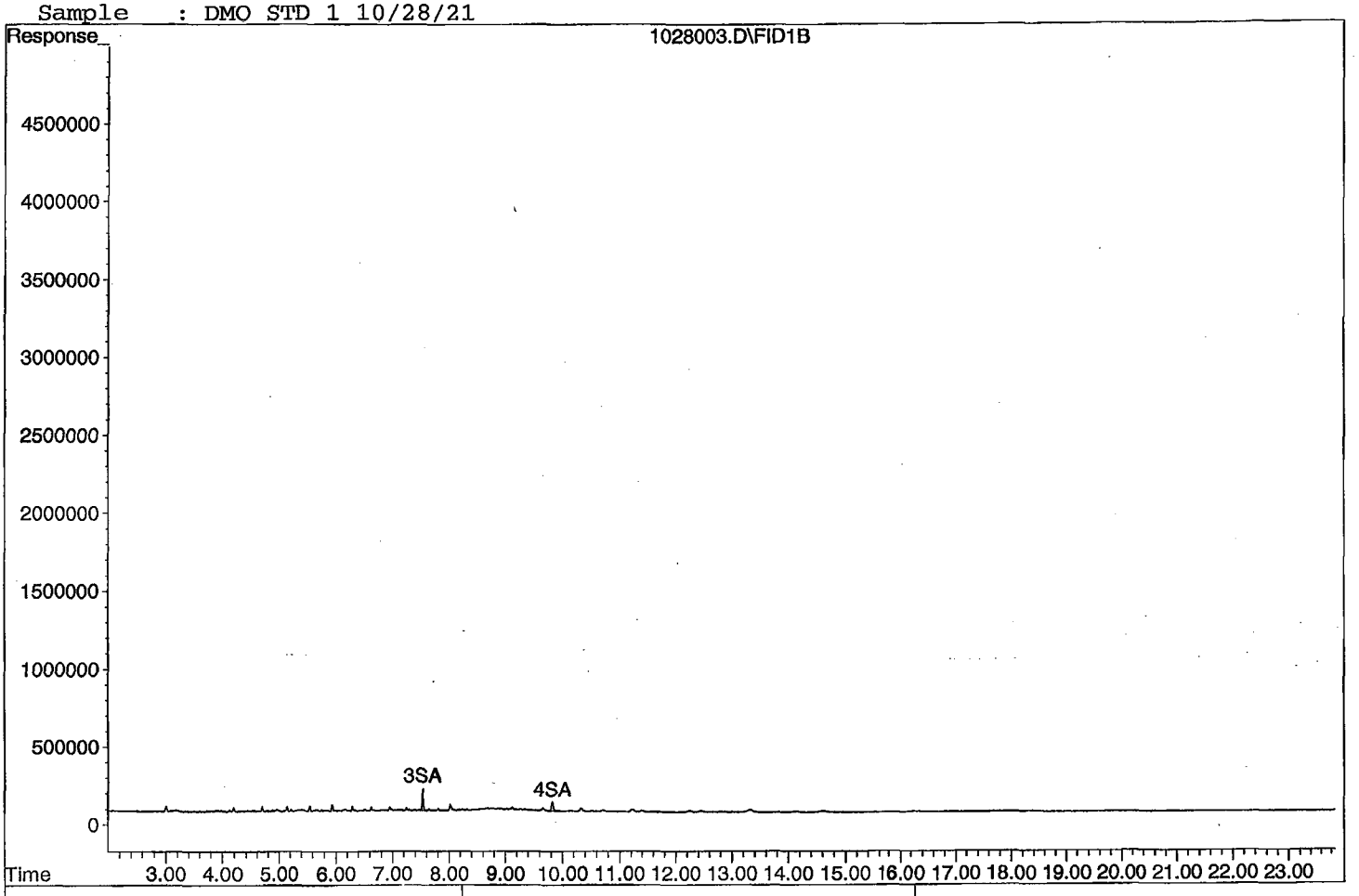
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.53	1818617	0.291 ppb
Surrogate Spike 30.000	Recovery =		0.97%
4) SA Octacosane(S)	9.82	1234601	0.273 ppb
Surrogate Spike 30.000	Recovery =		0.91%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	29838086	5.928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

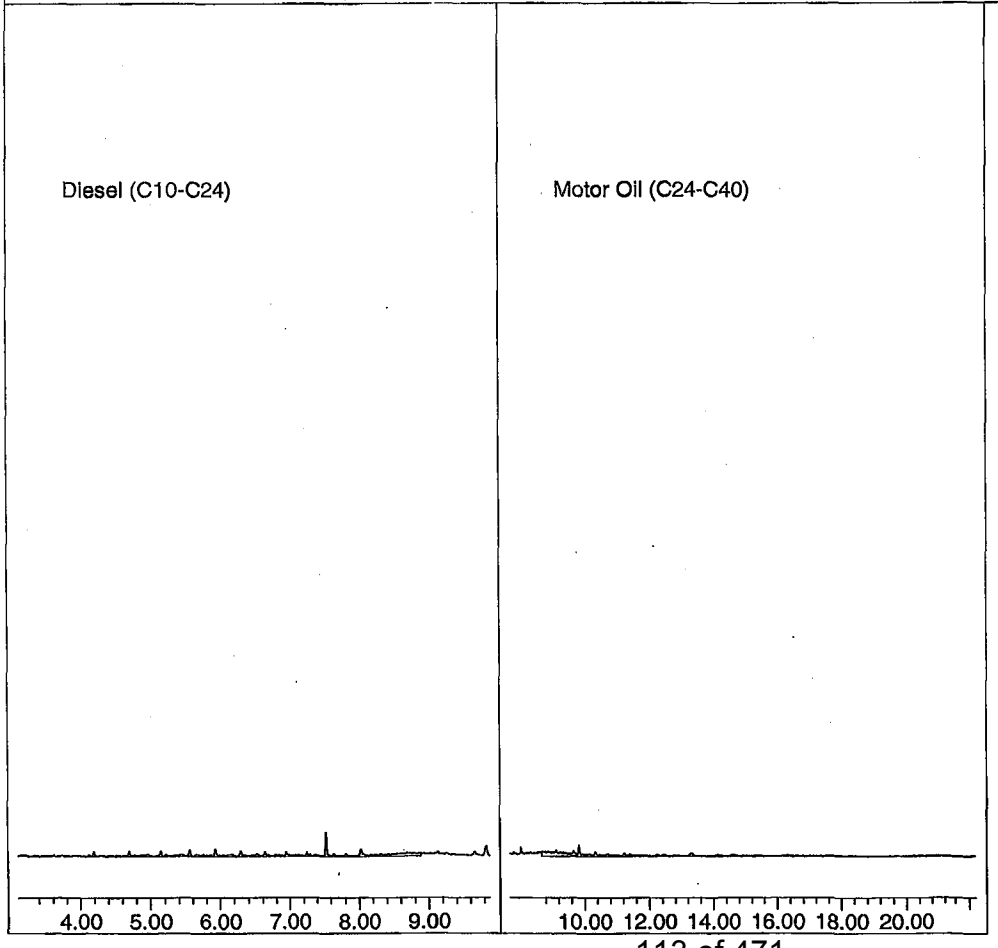
Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.
1028003.D DOC1028.M Thu Oct 28 15:42:29 2021 Page 1

Quantitation Report

Data File: G:\APOLLO\DATA\211028\1028003.D
Sample : DMO STD 1 10/28/21





Quantitation Report (Not Reviewed)

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

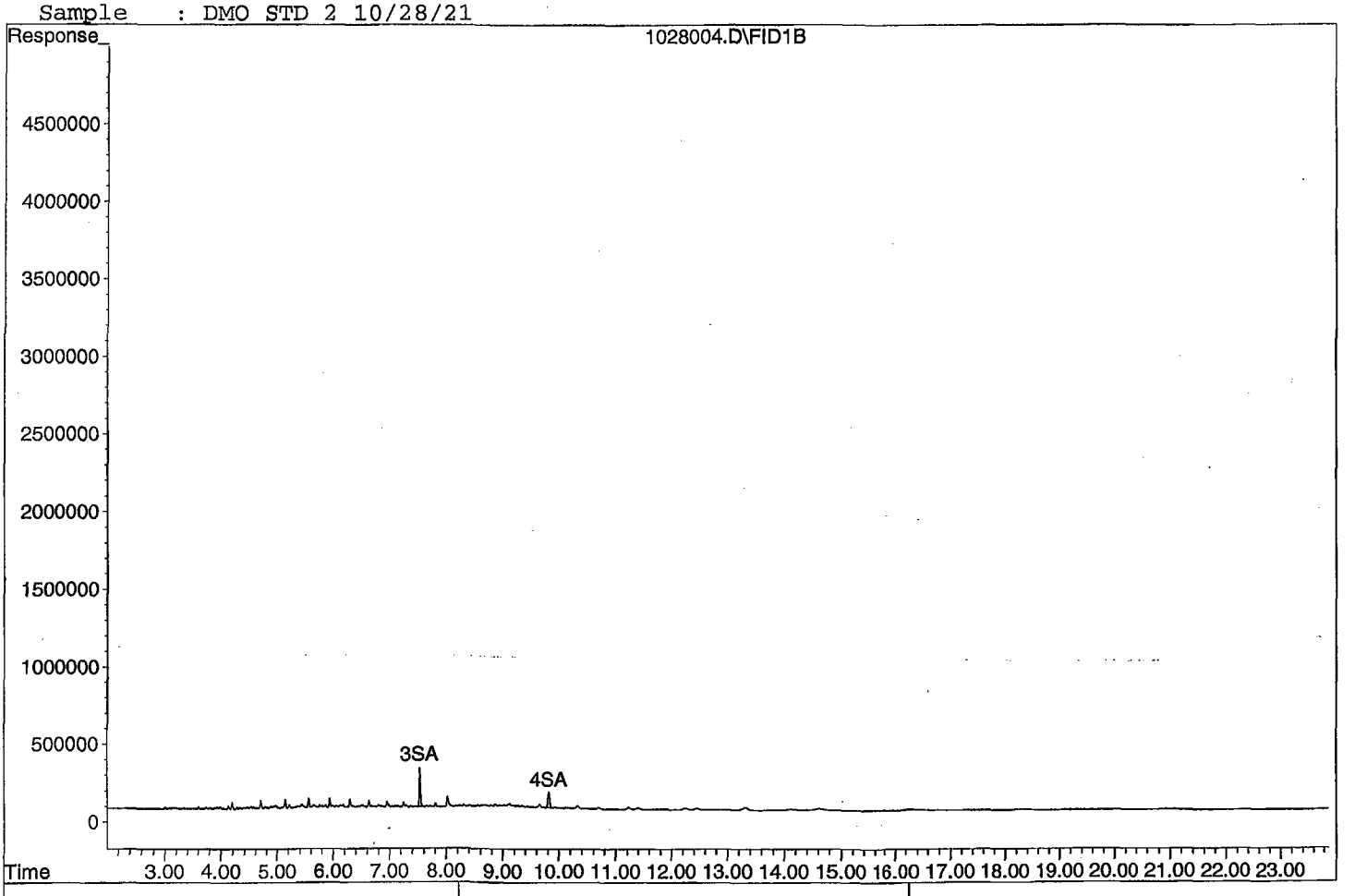
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

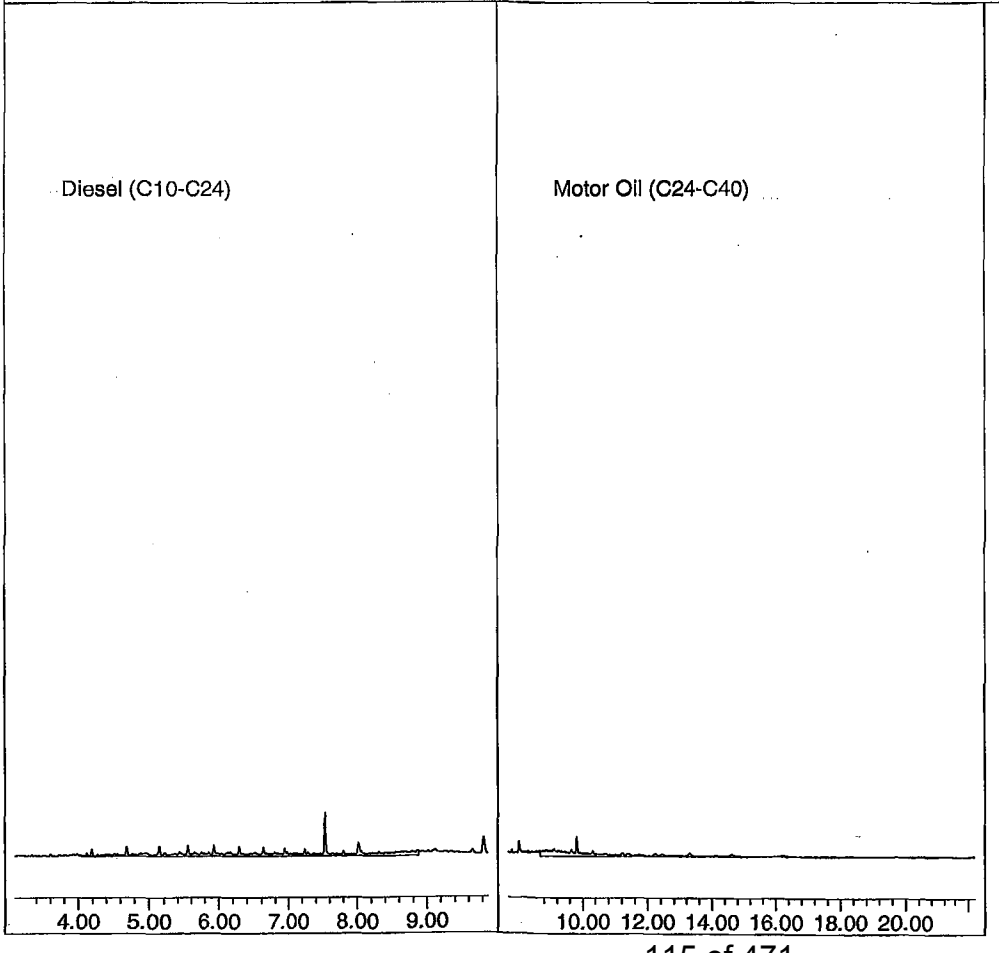
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.53	3178668	0.508 ppb
Surrogate Spike 30.000	Recovery =		1.69%
4) SA Octacosane(S)	9.82	2170507	0.480 ppb
Surrogate Spike 30.000	Recovery =		1.60%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	48131263	9.562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

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.
1028004.D DOC1028.M Thu Oct 28 15:42:31 2021 Page 1

Data File: G:\APOLLO\DATA\211028\1028004.D
Sample : DMO STD 2 10/28/21





Quantitation Report (Not Reviewed)

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

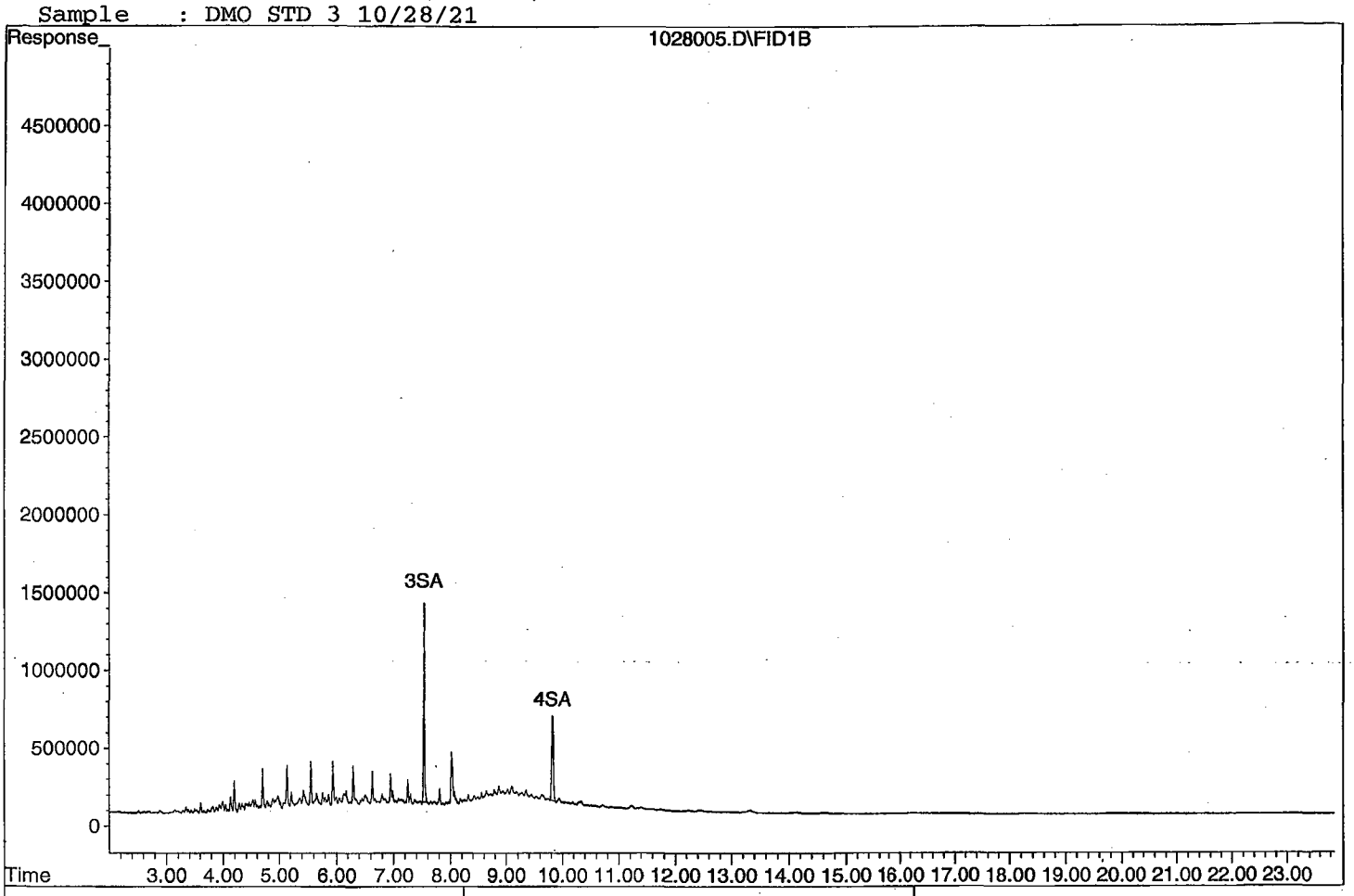
Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Thu Oct 28 15:39:11 2021
Response via : Multiple Level Calibration

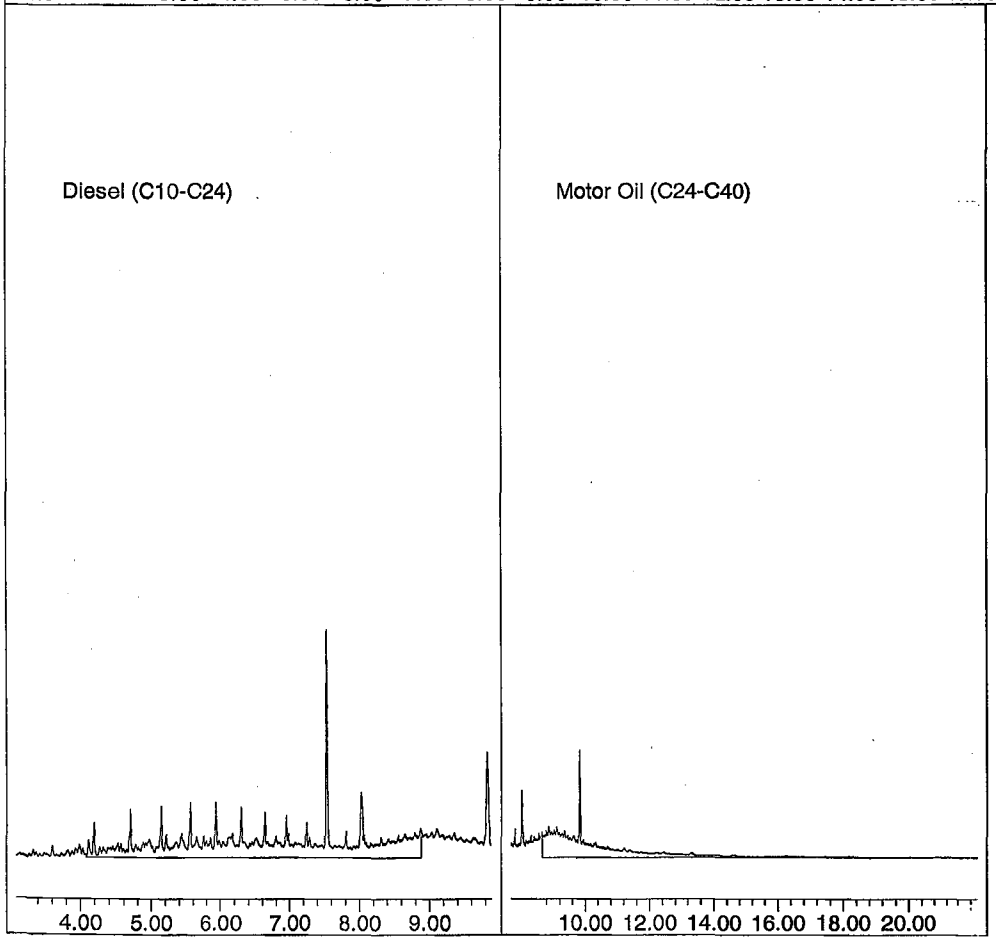
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

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			

(f)=RT Delta > 1/2 Window (m)=manual int.
1028005.D DOC1028.M Thu Oct 28 15:42:32 2021 Page 1

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





Quantitation Report (Not Reviewed)

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

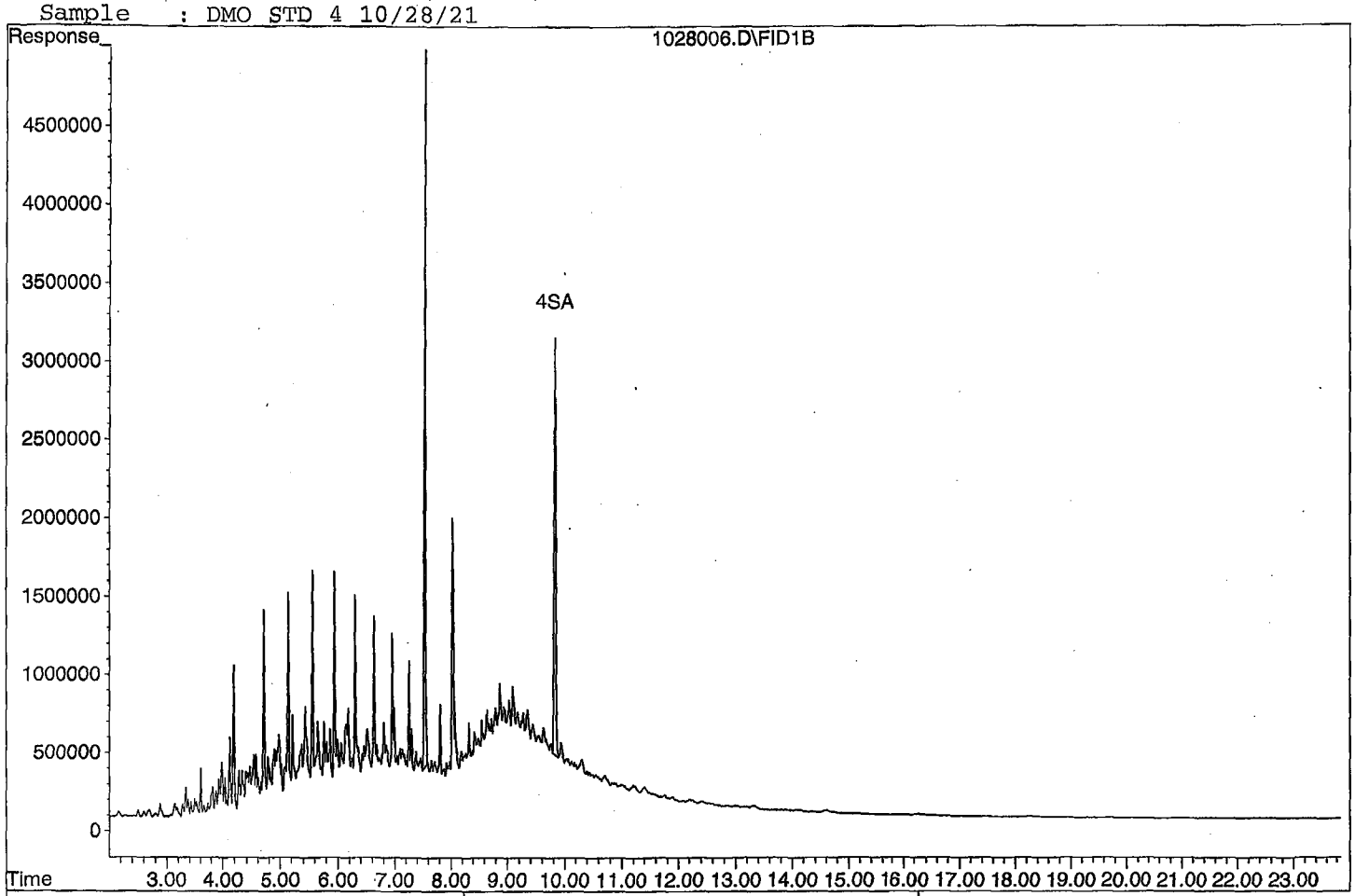
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

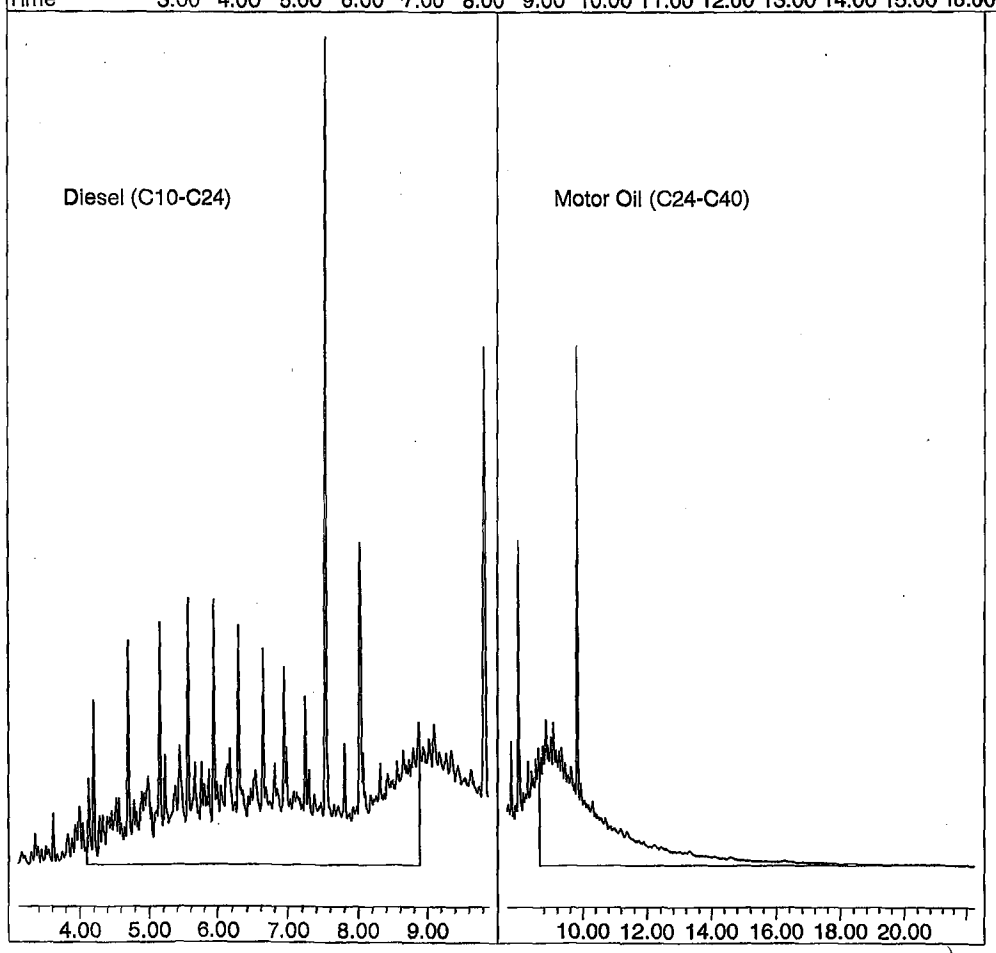
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.53	75891940	12.133 ppb
Surrogate Spike 30.000	Recovery =		40.44%
4) SA Octacosane(S)	9.82	56888797	12.578 ppb
Surrogate Spike 30.000	Recovery =		41.93%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	1209470396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

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.
1028006.D DOC1028.M Thu Oct 28 15:42:34 2021 Page 1

Data File: G:\APOLLO\DATA\211028\1028006.D
Sample : DMO STD 4 10/28/21





Quantitation Report (Not Reviewed)

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

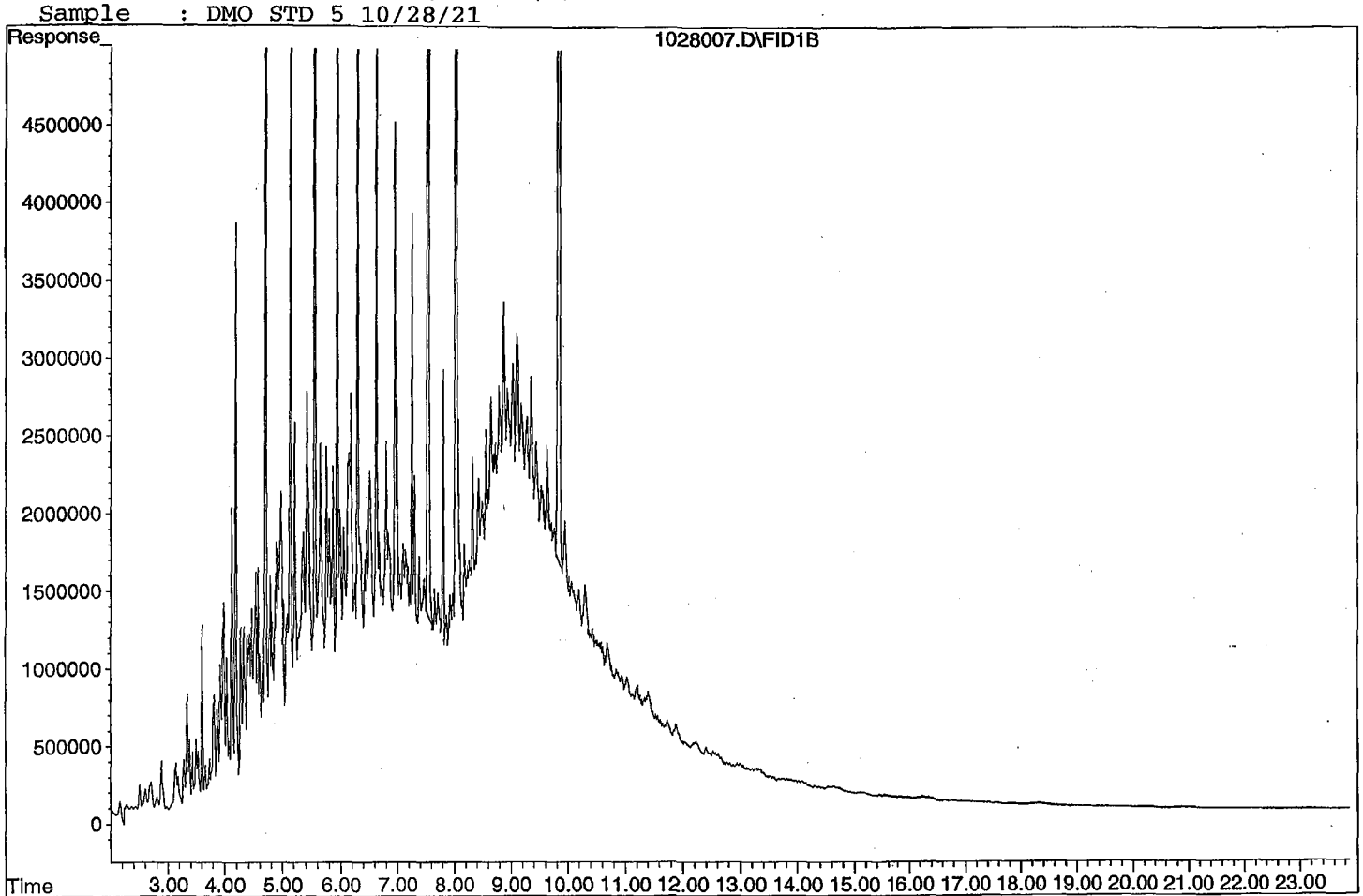
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

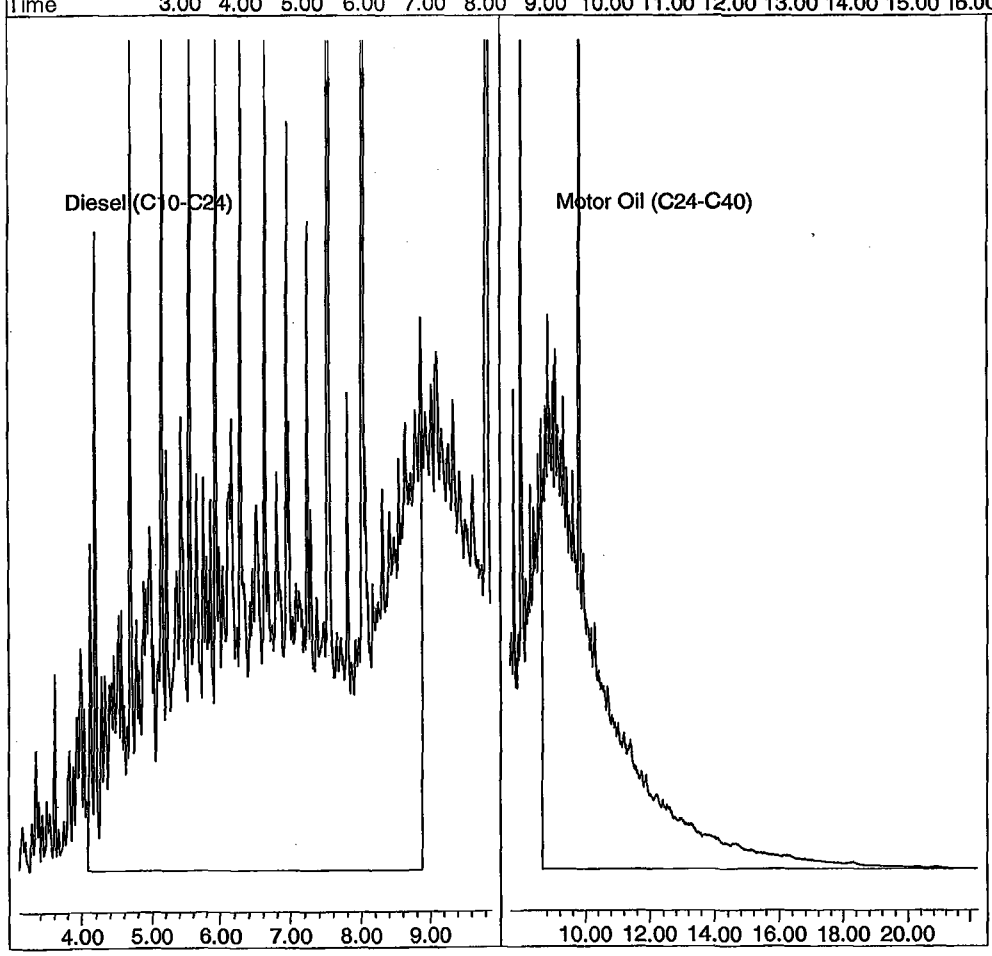
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	7.54	292696553	46.794	ppb
Surrogate Spike 30.000		Recovery =	155.98%	
4) SA Octacosane(S)	9.83	217041298	47.988	ppb
Surrogate Spike 30.000		Recovery =	159.96%	
Target Compounds				
1) HATM Diesel (C10-C24)	6.49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

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.
1028007.D DOC1028.M Thu Oct 28 15:42:36 2021 Page 1

Data File: G:\APOLLO\DATA\211028\1028007.D
Sample : DMO STD 5 10/28/21





Quantitation Report (Not Reviewed)

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

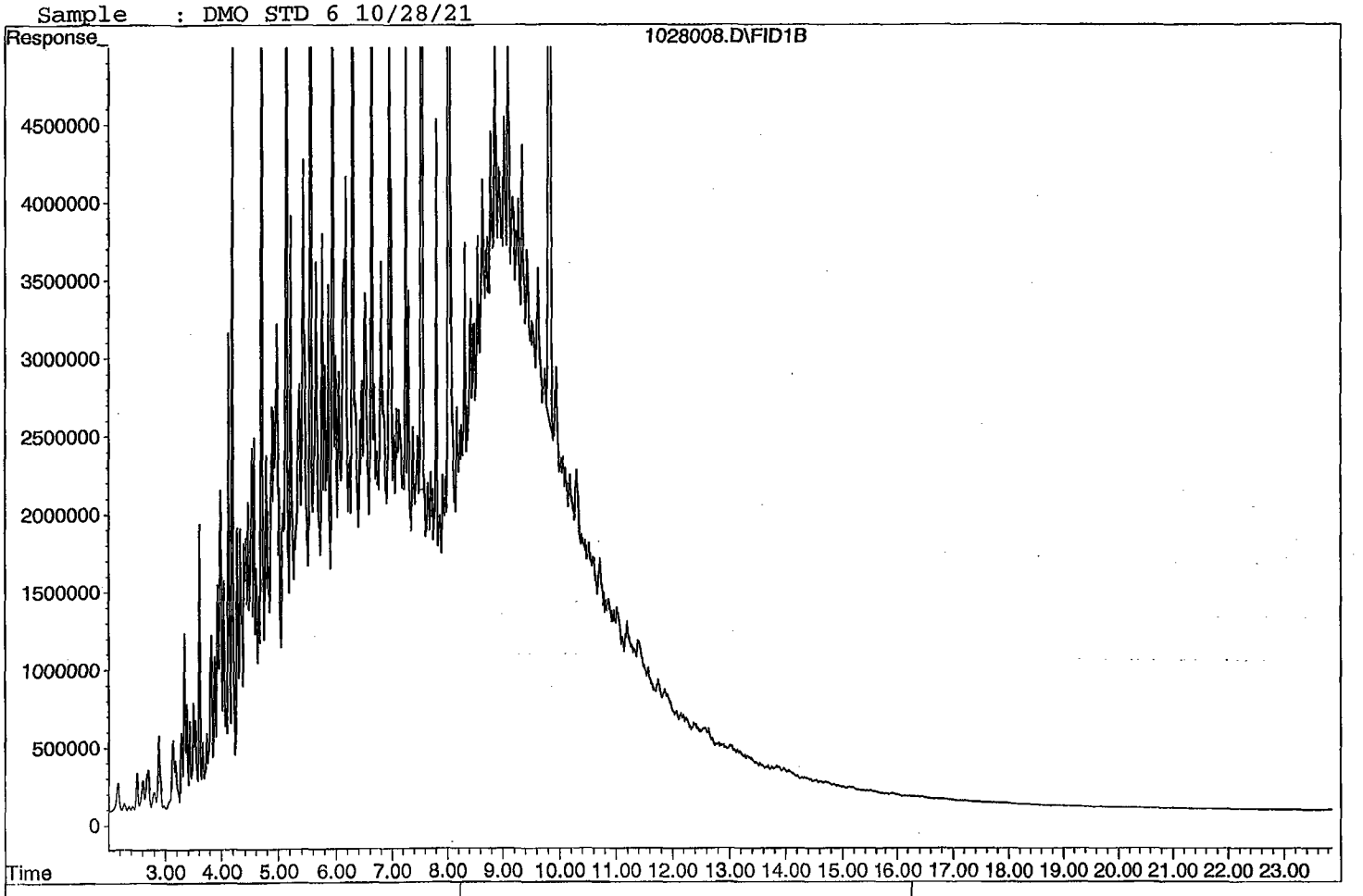
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

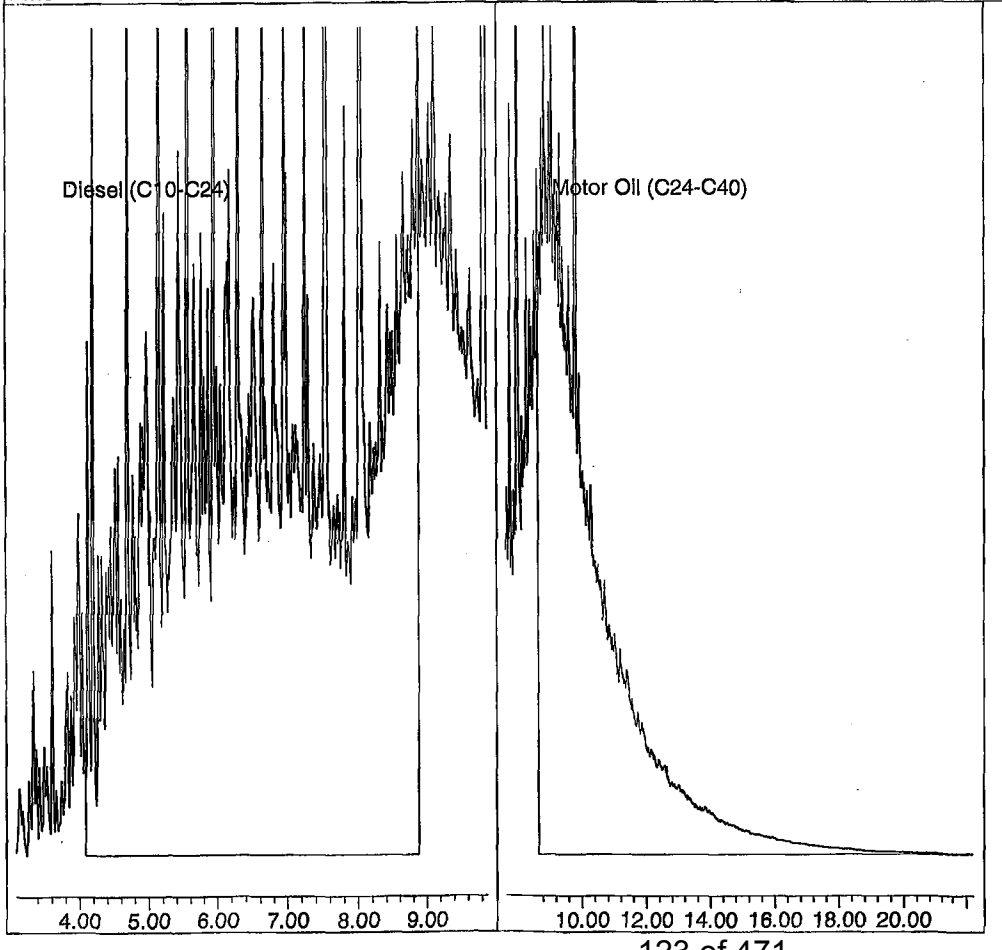
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	7.54	435798382	69.672	ppb
Surrogate Spike 30.000		Recovery =	232.24%	
4) SA Octacosane(S)	9.84	325688048	72.009	ppb
Surrogate Spike 30.000		Recovery =	240.03%	
Target Compounds				
1) HATM Diesel (C10-C24)	6.49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

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.
1028008.D DOC1028.M Thu Oct 28 15:42:38 2021 Page 1

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

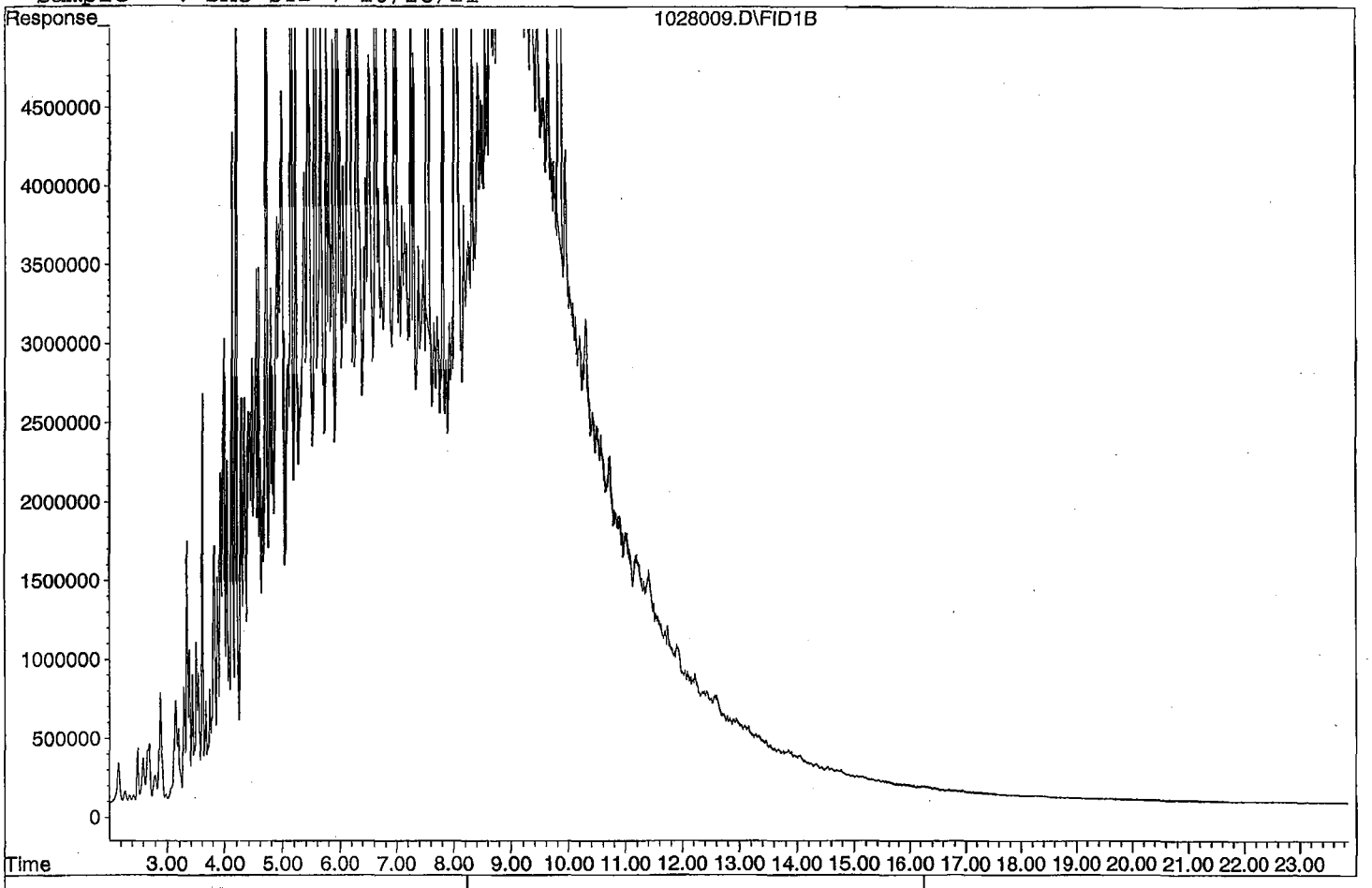
Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Thu Oct 28 15:39:11 2021
Response via : Multiple Level Calibration

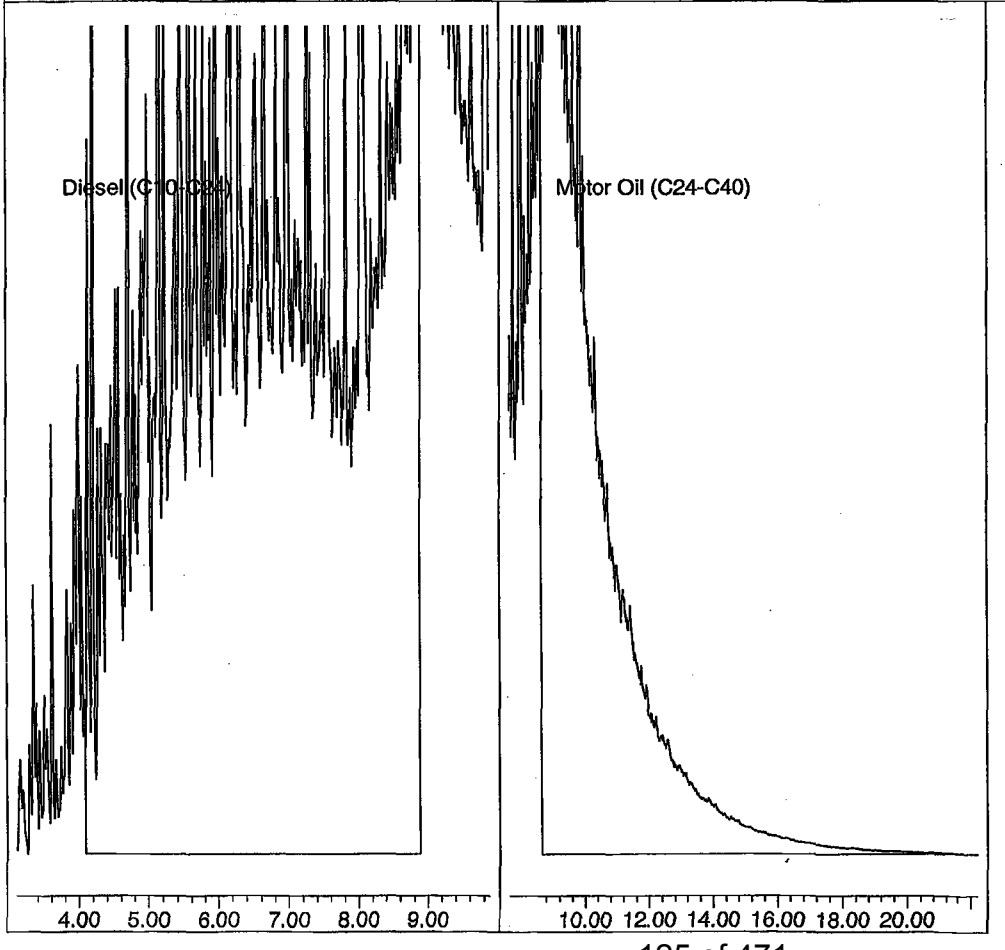
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

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

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
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		Average			21.5		

Quantitation Report (Not Reviewed)

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

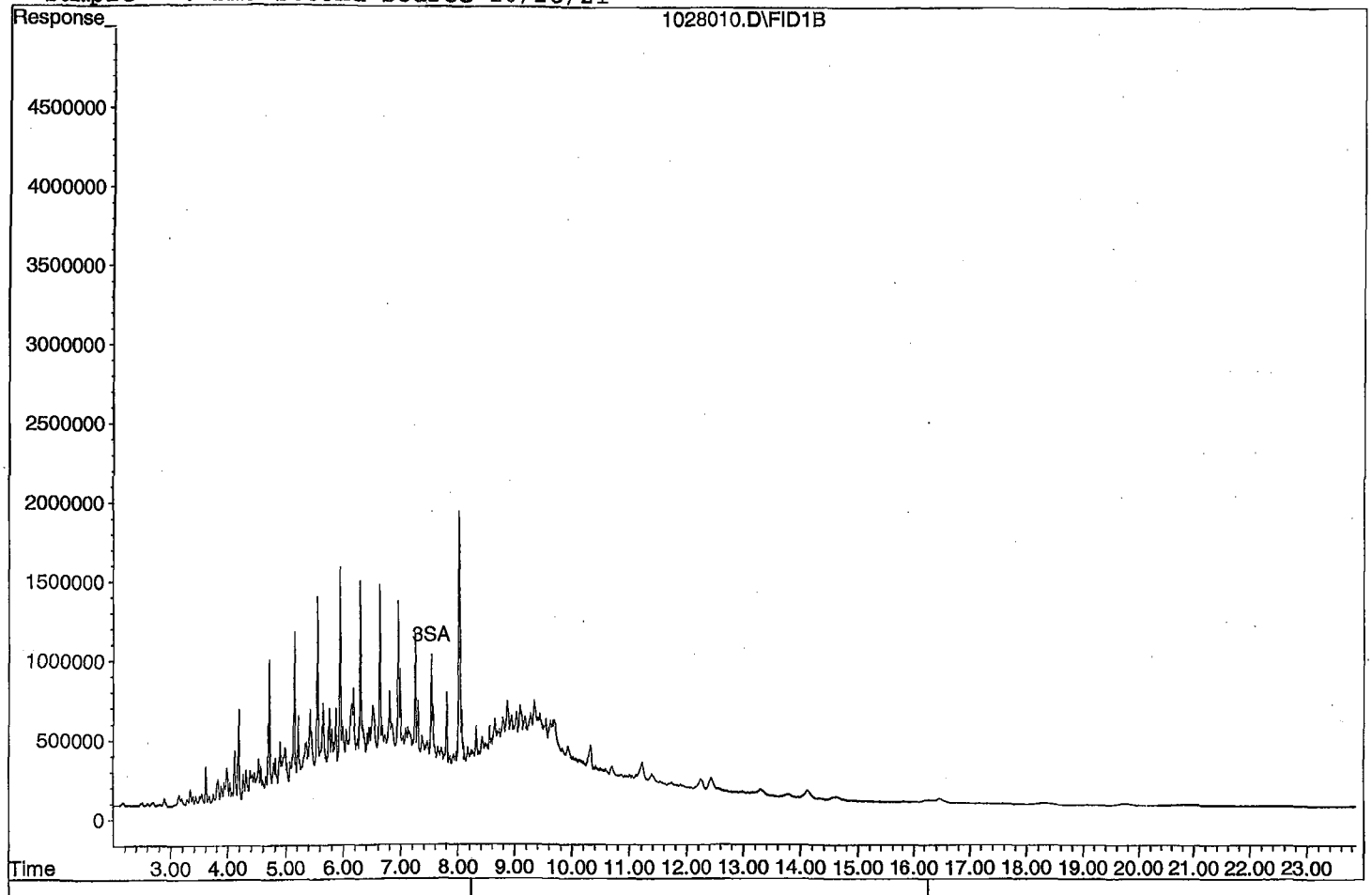
Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Thu Oct 28 15:39:11 2021
Response via : Multiple Level Calibration

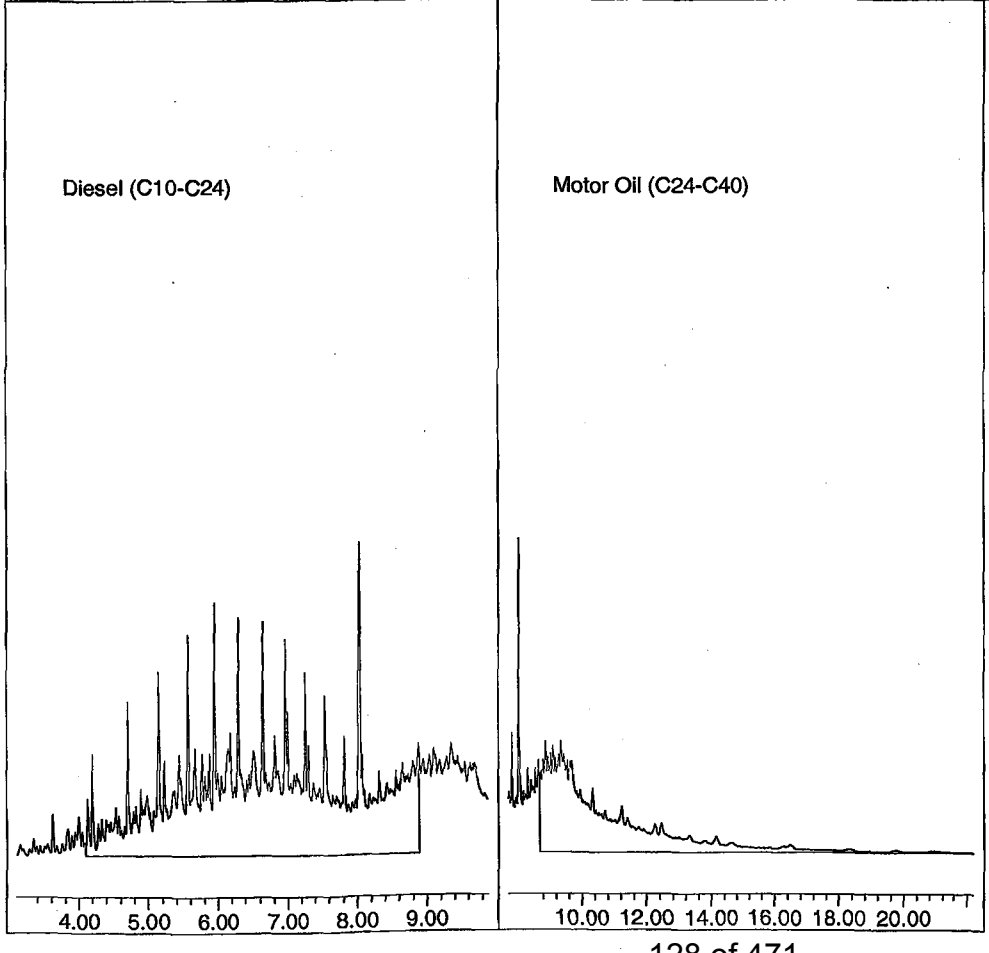
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

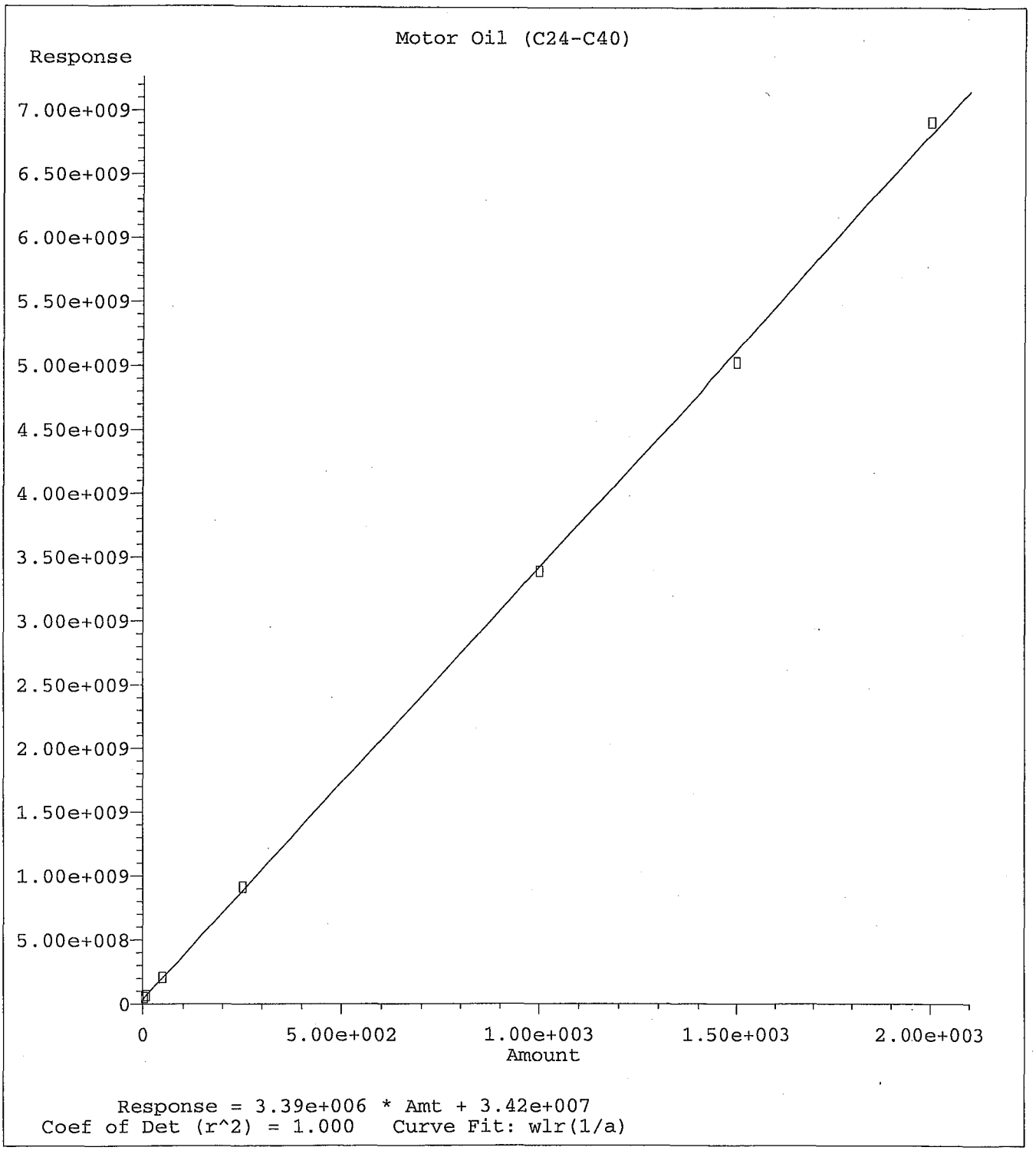
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	7.53	4250105	0.679	ppb
Surrogate Spike 30.000		Recovery =	2.26%	
4) SA Octacosane(S)	9.83	-3553	N.D.	ppb
Surrogate Spike 30.000		Recovery =	0.00%	
Target Compounds				
1) HATM Diesel (C10-C24)	6.49	1133202337	225.139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

Target Compounds

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. SDG No:
Case No: Initial Cal. Date: 9/11/2021
Matrix: Water Instrument: Apollo
Initials: KA

		Compound	1	2	3	4	5	6					Avg	%RSD	Type	r^2	Q
			911002.D	911003.D	911004.D	911005.D	911006.D	911007.D									
1	SC	Decanoic Acid(S)	883995	1084261	1313446	1384667	1522107	1509937					1283069	20	SC		*
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0.562142

Quantitation Report (Not Reviewed)

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

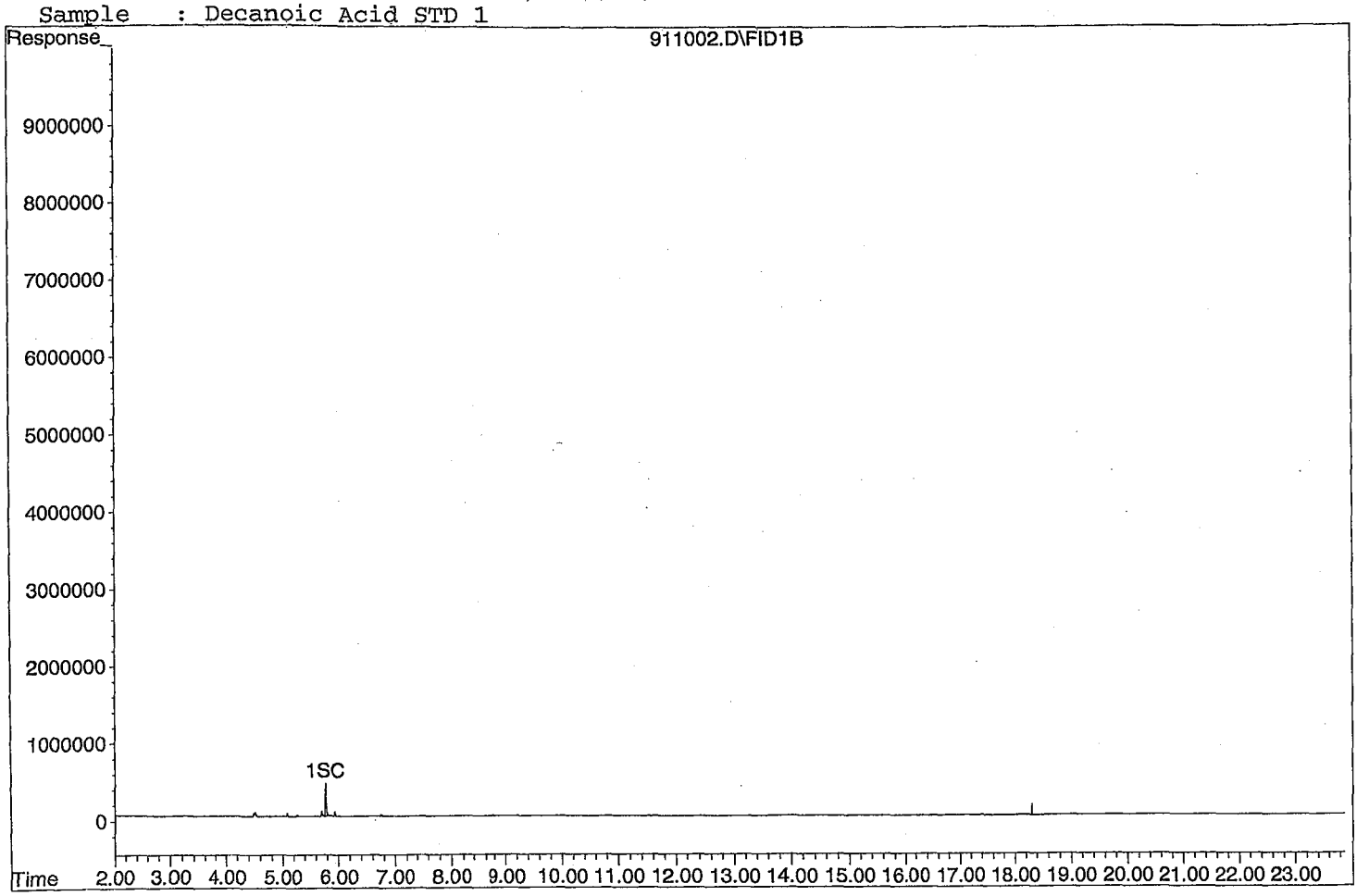
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

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			

(f)=RT Delta > 1/2 Window (m)=manual int.
911002.D DEC0911.M Thu Sep 23 17:08:10 2021 Page 1

Quantitation Report

Data File: G:\APOLLO\DATA\210911\911002.D
Sample : Decanoic Acid STD 1



Quantitation Report (Not Reviewed)

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

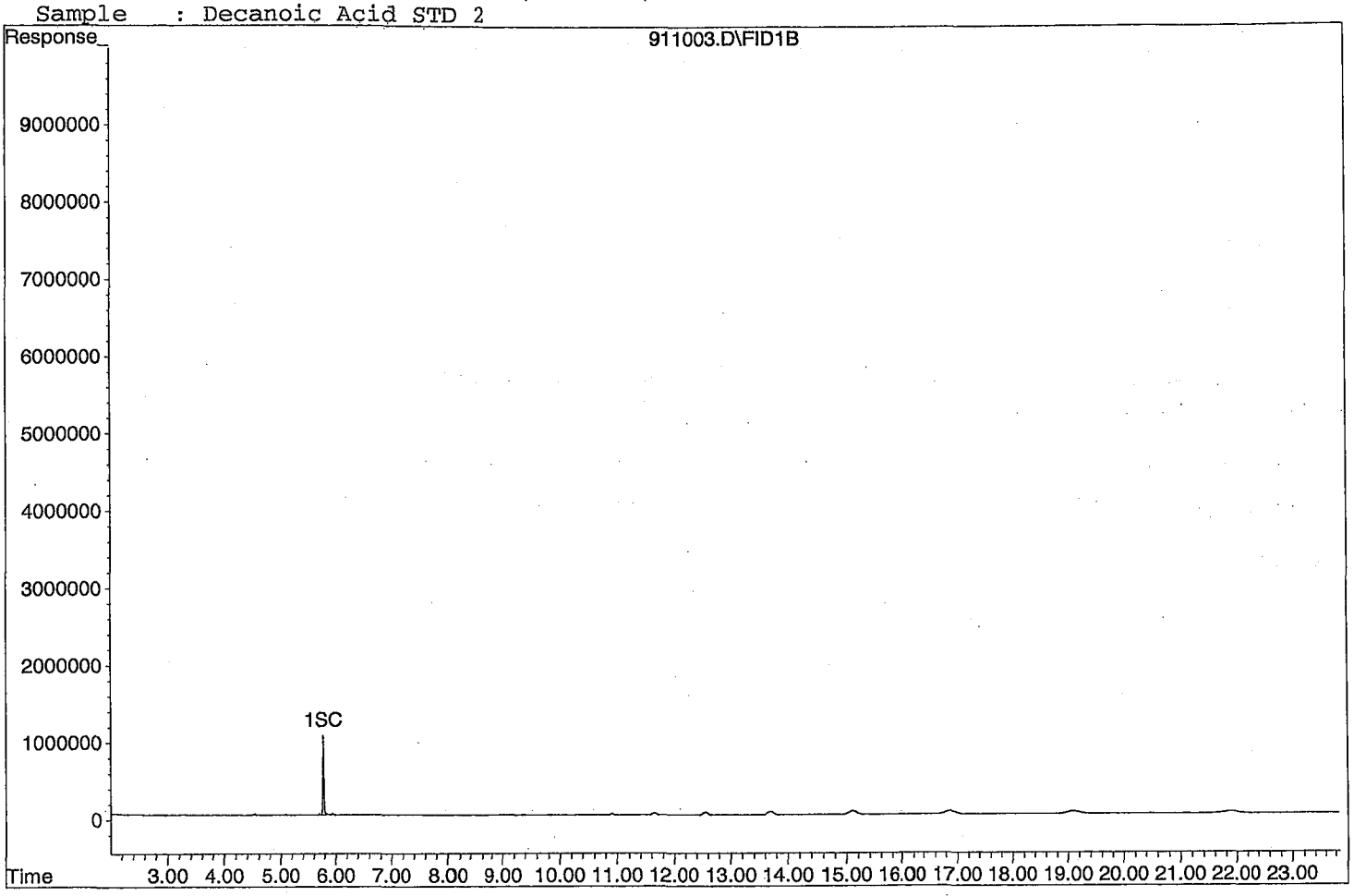
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

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			

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File: G:\APOLLO\DATA\210911\911003.D
Sample : Decanoic Acid STD 2



Quantitation Report (Not Reviewed)

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

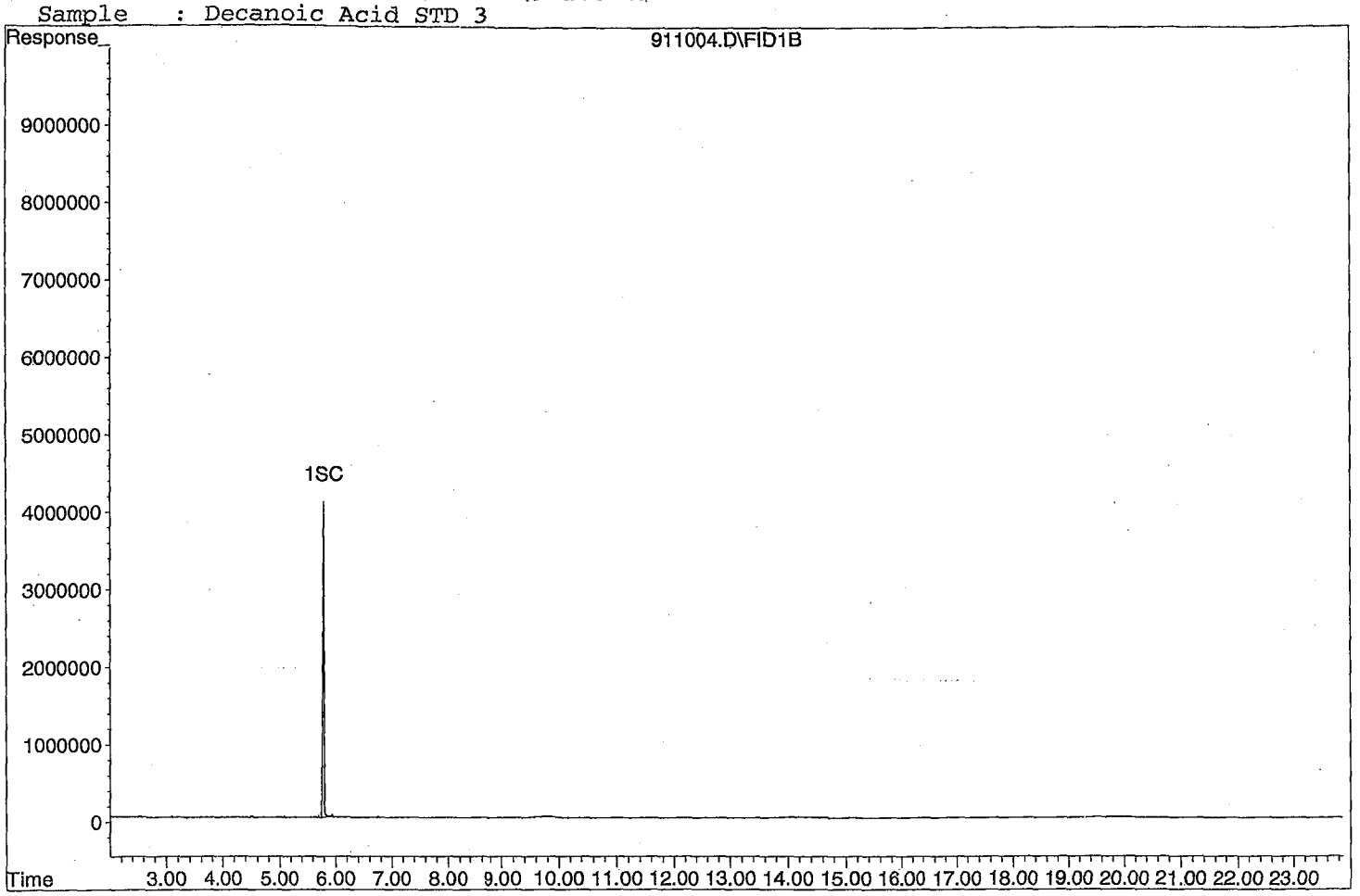
Method : G:\APOLLO\DATA\210808\DEC0911.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Sep 13 09:30:16 2021
Response via : Multiple Level Calibration

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



Quantitation Report (Not Reviewed)

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

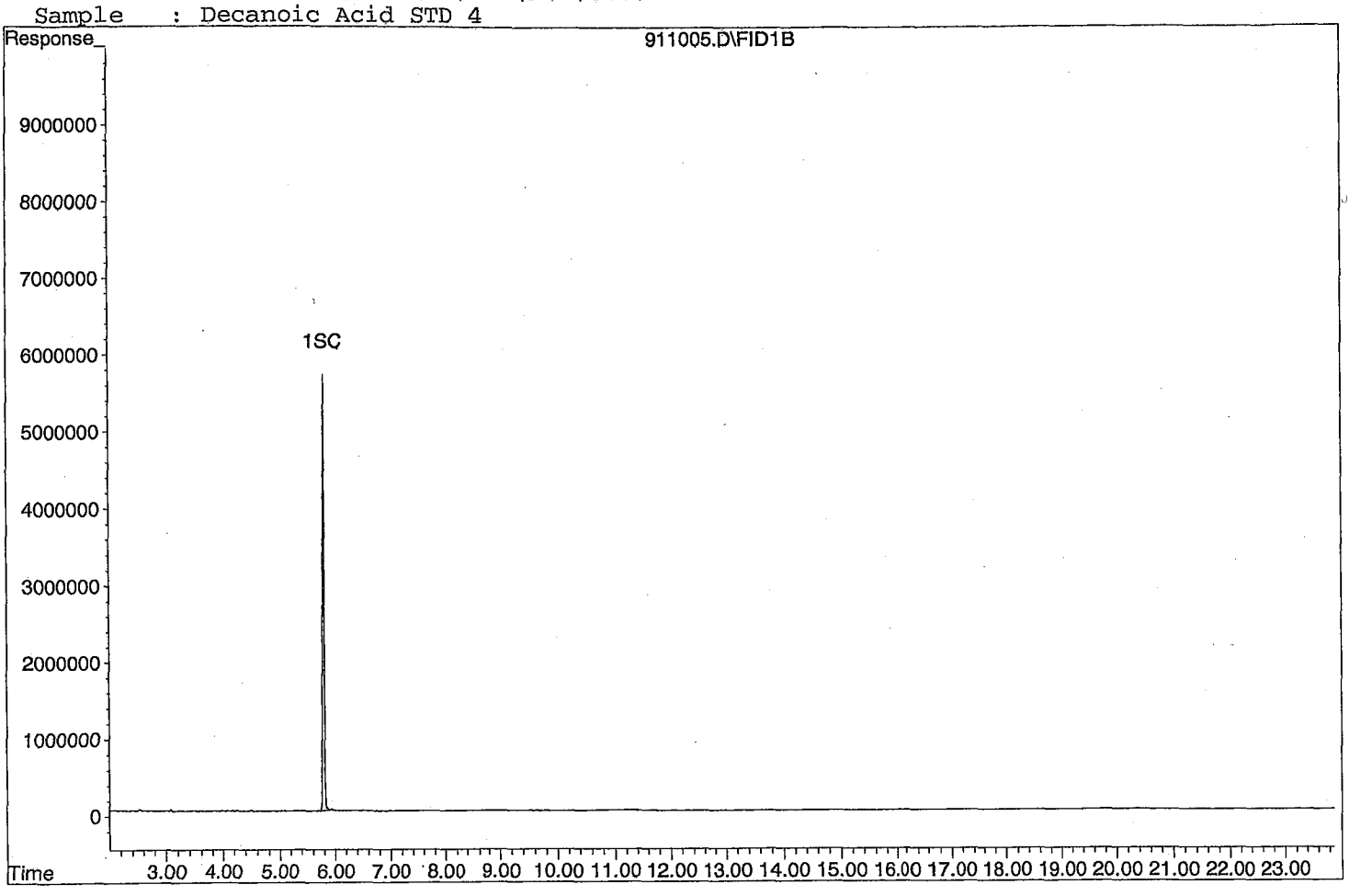
Method : G:\APOLLO\DATA\210808\DEC0911.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Sep 13 09:30:16 2021
Response via : Multiple Level Calibration

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			

(f)=RT Delta > 1/2 Window (m)=manual int.

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



Quantitation Report (Not Reviewed)

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 : 8015 B&C
Last Update : Mon Sep 13 09:30:16 2021
Response via : Multiple Level Calibration

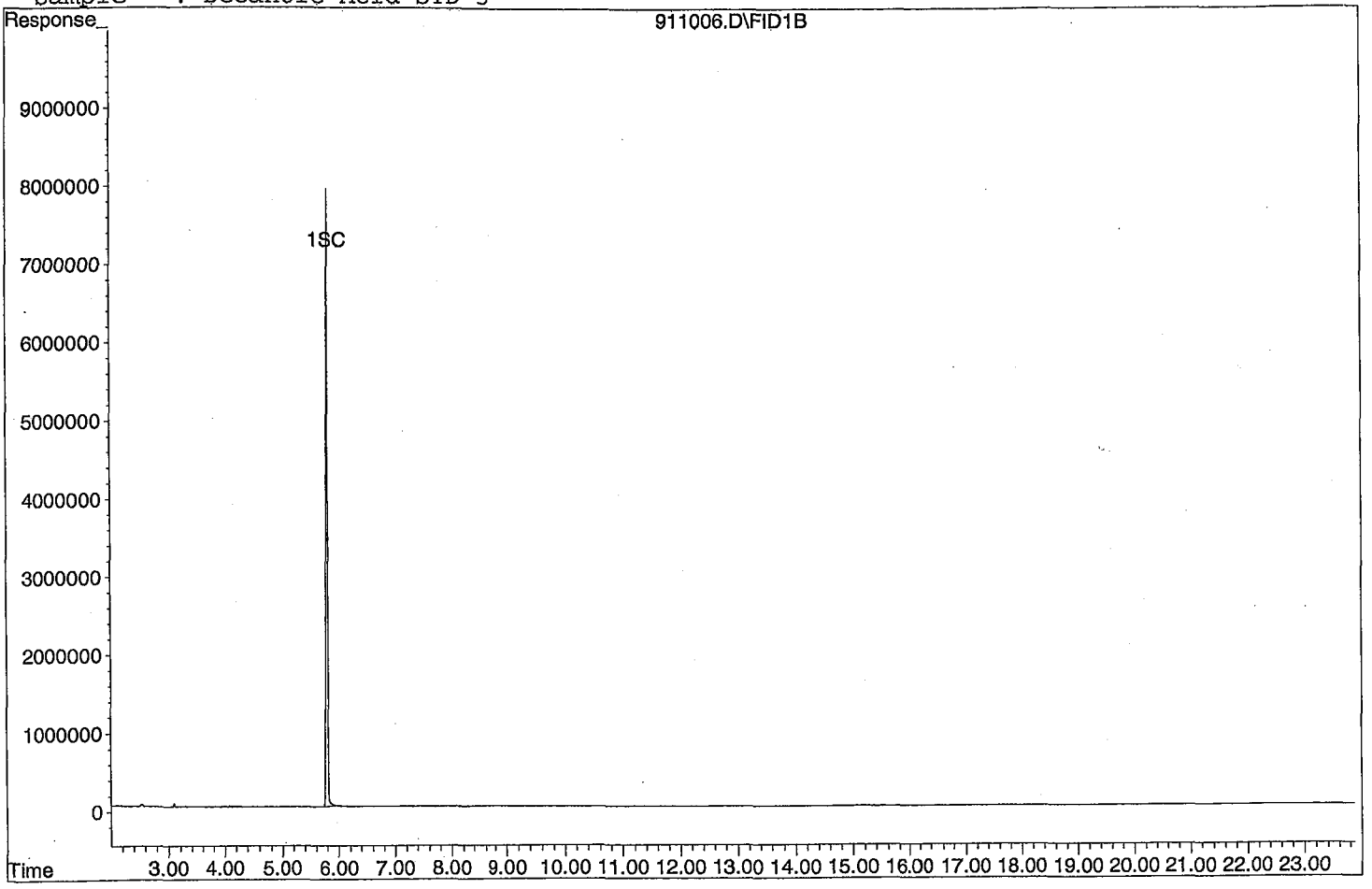
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) SC Decanoic Acid(S)	5.81	146122260	56.942 ppb
Surrogate Spike 24.000	Recovery =		237.26%
Target Compounds			
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File: G:\APOLLO\DATA\210911\911006.D
Sample : Decanoic Acid STD 5



Quantitation Report (Not Reviewed)

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

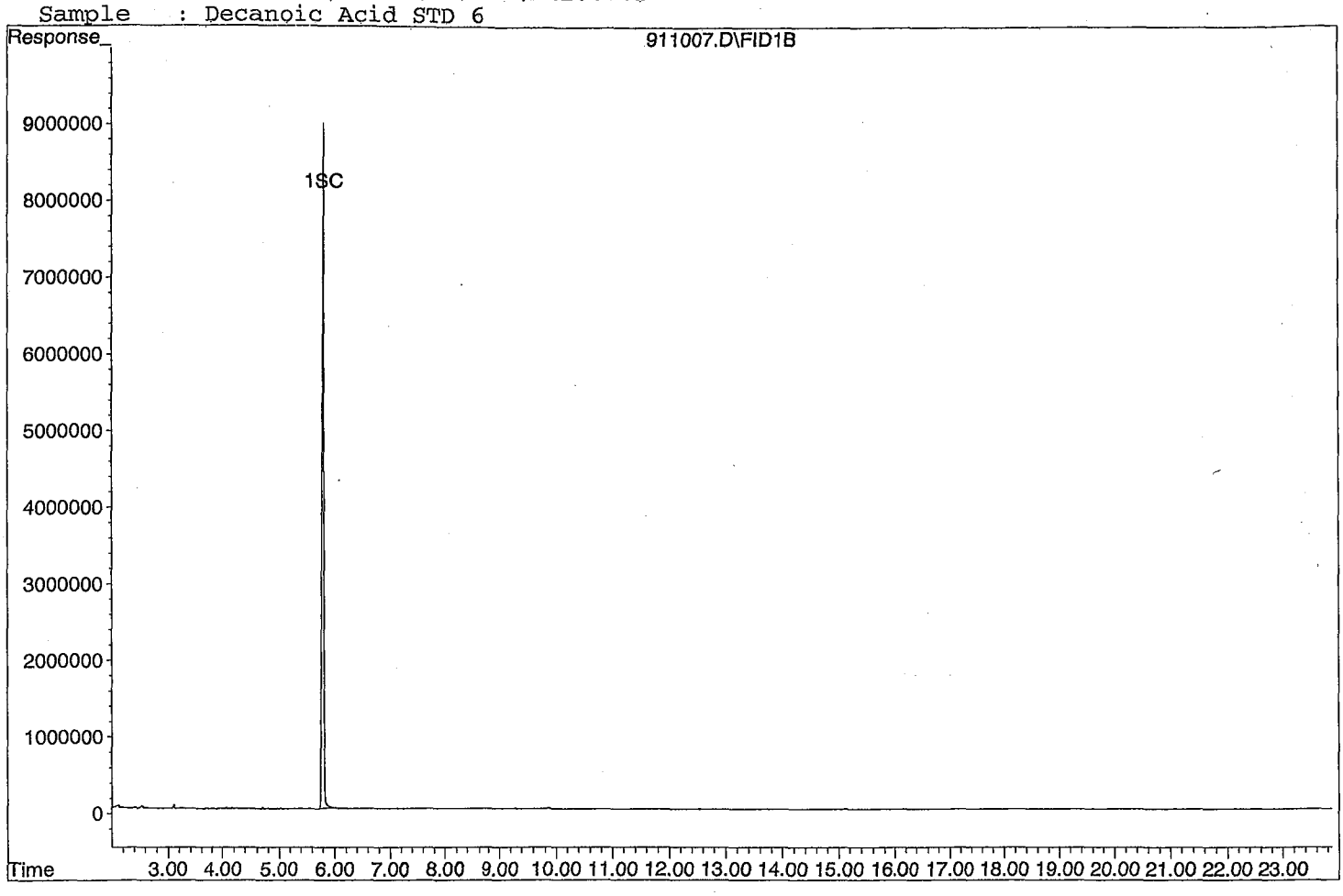
Method : G:\APOLLO\DATA\210808\DEC0911.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Sep 13 09:30:16 2021
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
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: 12/3/2021
Instrument: Apollo
Initial Cal. Date: 8/30/2021
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	
5							
6							
7							
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36							
37							
38							
39							
40							
		Average			12.4		

Quantitation Report (Not Reviewed)

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

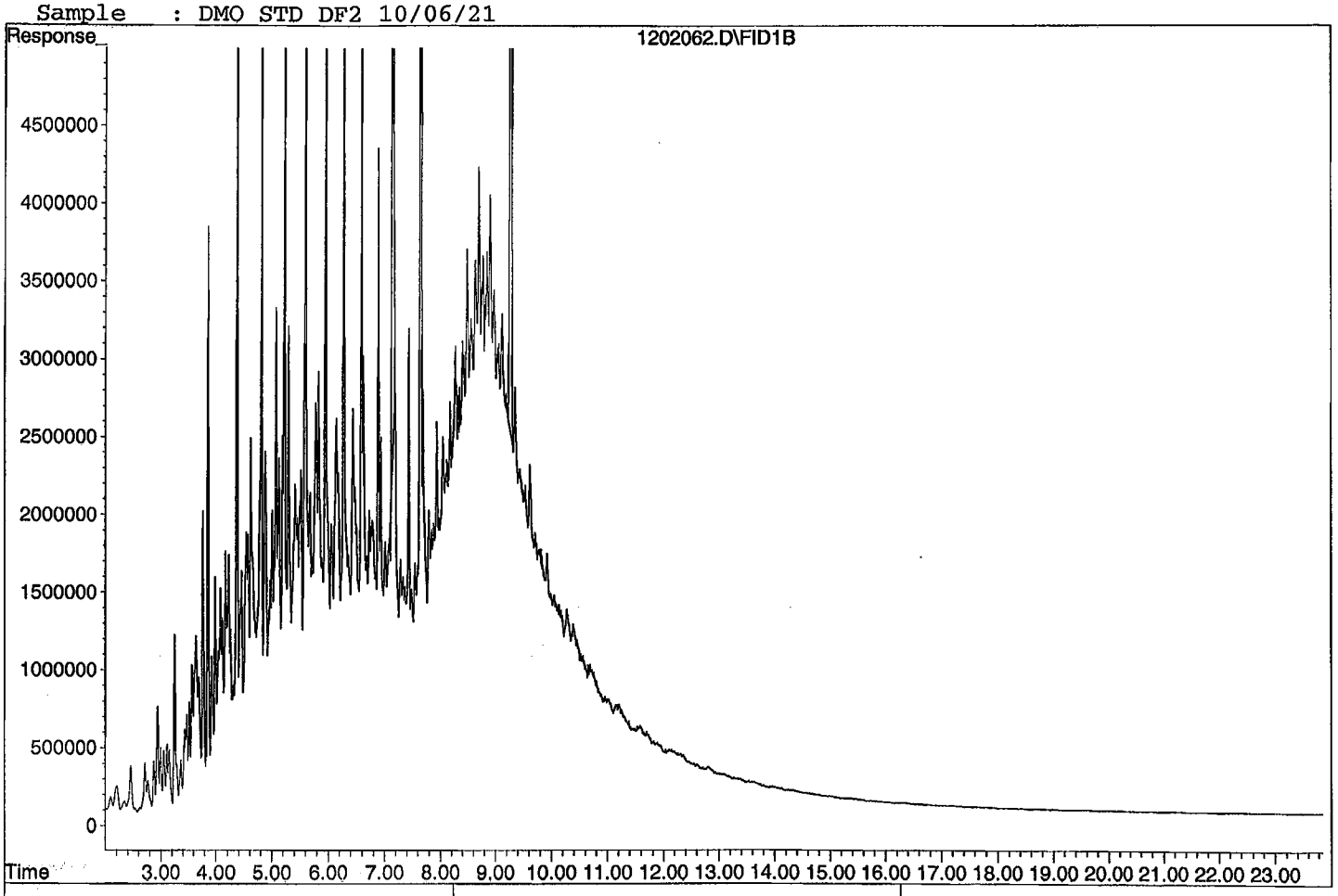
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

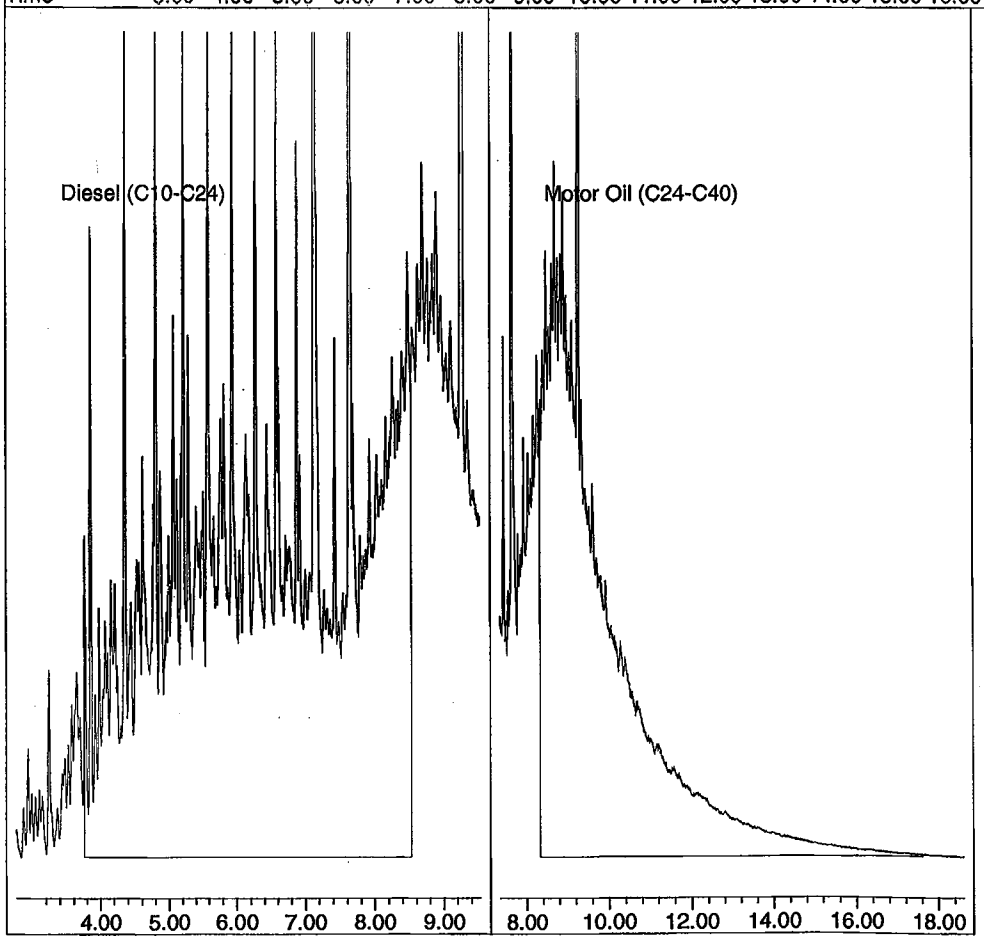
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	7.14	267126791	42.706	ppb
Surrogate Spike 30.000	Recovery =		142.35%	
4) SA Octacosane(S)	9.27	240881383	53.259	ppb
Surrogate Spike 30.000	Recovery =		177.53%	
Target Compounds				
1) HATM Diesel (C10-C24)	6.15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

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\211202\1202062.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: 12/3/2021
Instrument: Apollo
Initial Cal. Date: 9/11/2021
Data File: 1202063.D

		Compound	MEAN	CCRF	%D	%Drift		
1	SC	Decanoic Acid(S)	1283070	1565960	22	SC		*
2								
3								
4								
5								
6								
7								
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37								
38								
39								
40								
		Average			22.0			

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211202\1202063.D Vial: 63
Acq On : 12-3-21 19:23:21 Operator: KA
Sample : Decanoic Acid CCV 11/05/21 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 6 7:48 2021 Quant Results File: DEC0911.RES

Method : G:\APOLLO\DATA\211202\DEC0911.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Nov 24 15:29:56 2021
Response via : Multiple Level Calibration

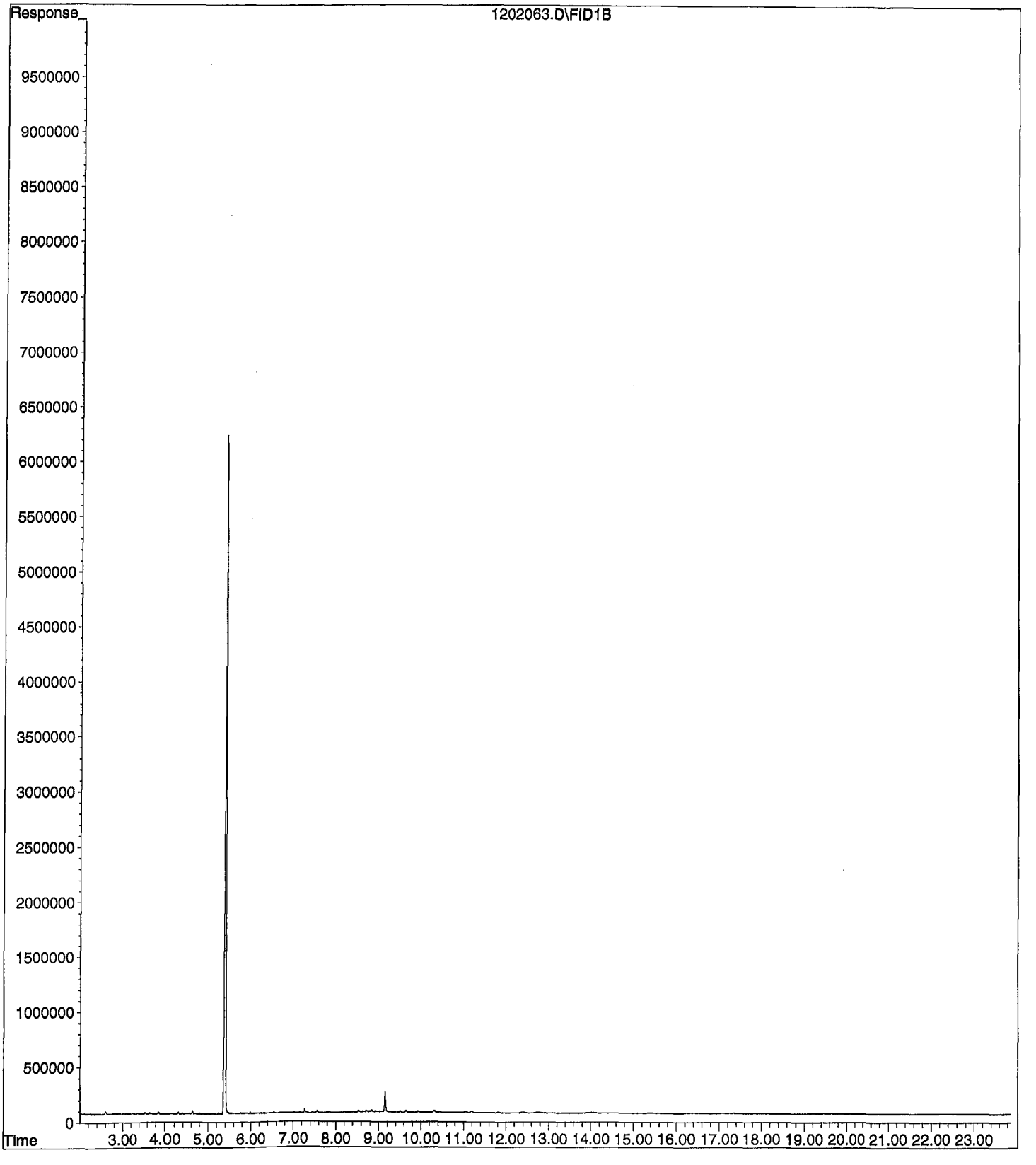
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) SC Decanoic Acid(S)	5.40	112749045	43.937 ppb
Surrogate Spike 24.000		Recovery =	183.07%
Target Compounds			

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

File : G:\APOLLO\DATA\211202\1202063.D
Operator : KA
Acquired : 12-3-21 19:23:21 using AcqMethod TPHSN.M
Instrument : Apollo
Sample Name: Decanoic Acid CCV 11/05/21
Misc Info : water
Vial Number: 63



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								
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40								
		Average			15.1			

Quantitation Report (Not Reviewed)

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

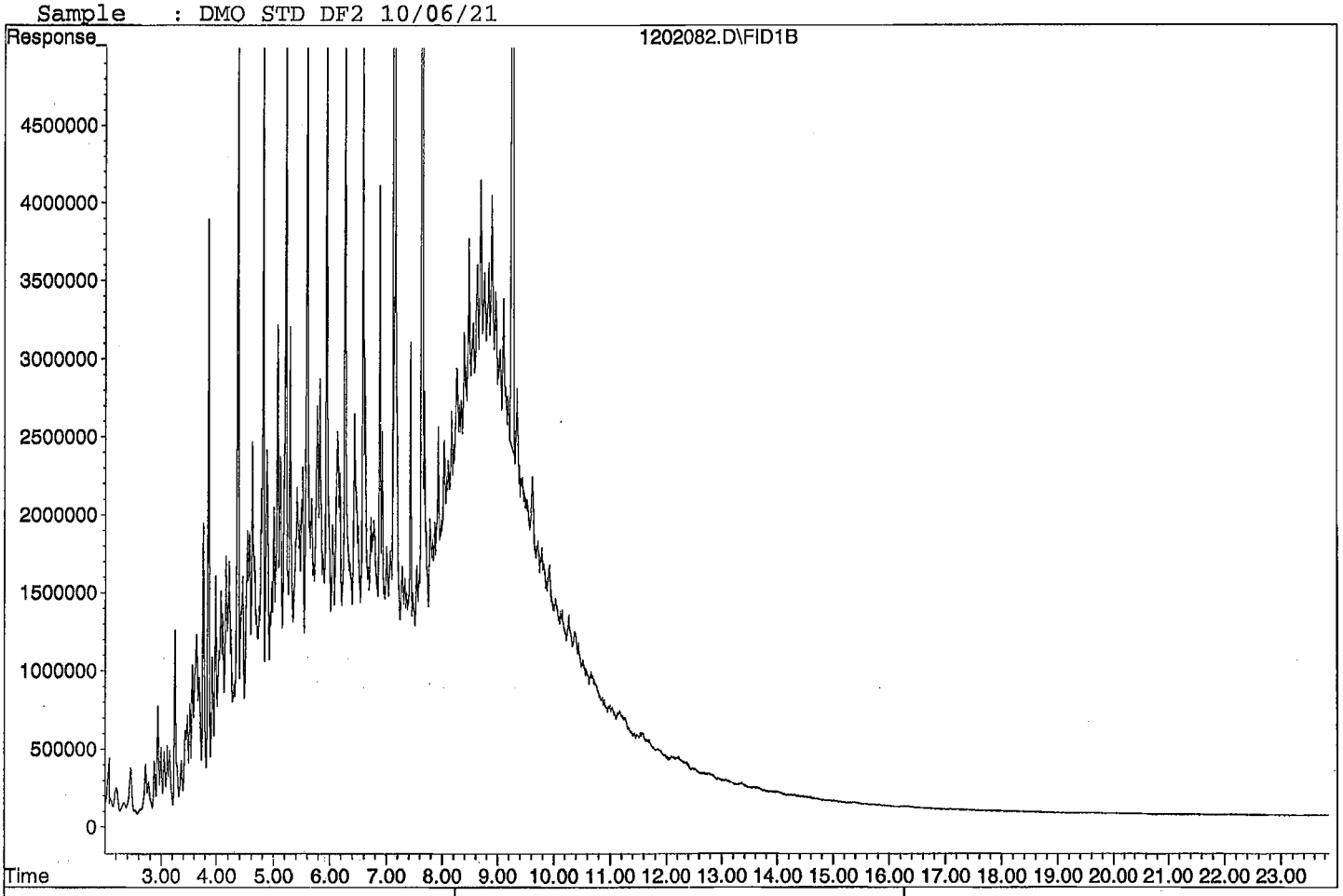
Method : G:\APOLLO\DATA\211202\DOC1028.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Fri Dec 03 08:22:29 2021
Response via : Multiple Level Calibration

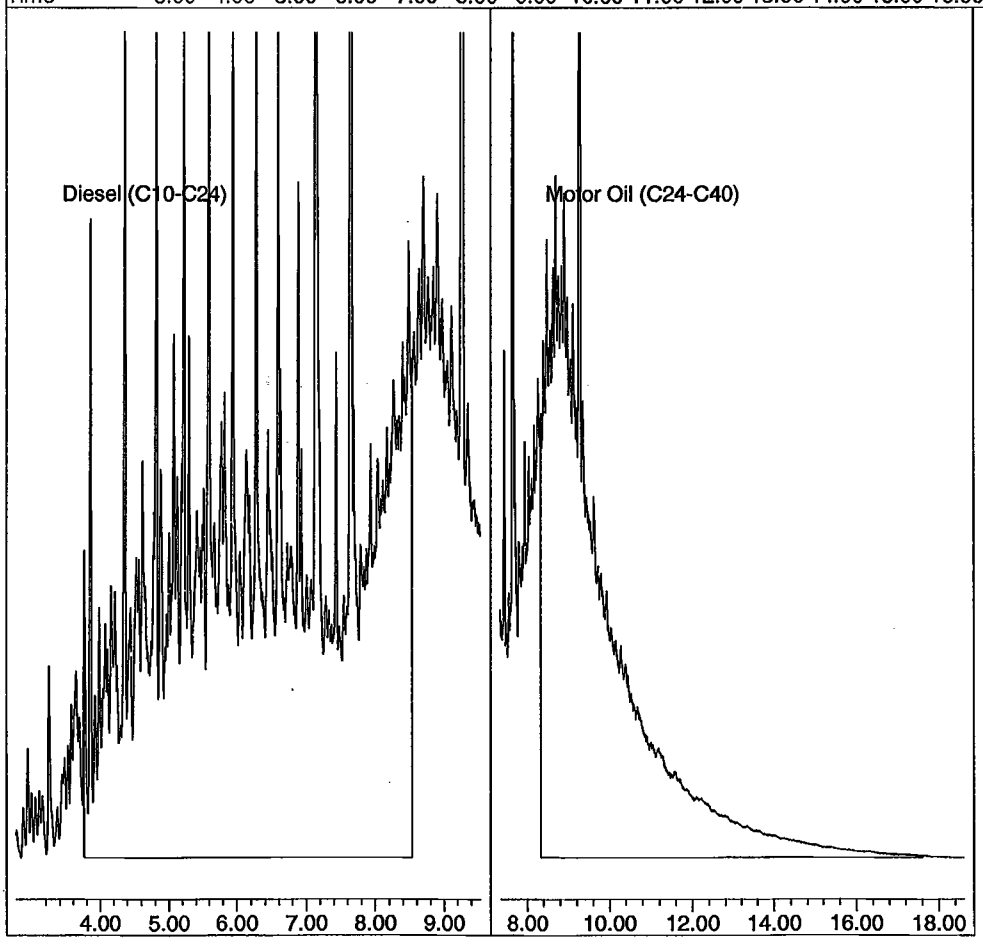
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
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%
Target Compounds			
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			

(f)=RT Delta > 1/2 Window (m)=manual int.

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							
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39							
40							
		Average			5.9		

Quantitation Report (Not Reviewed)

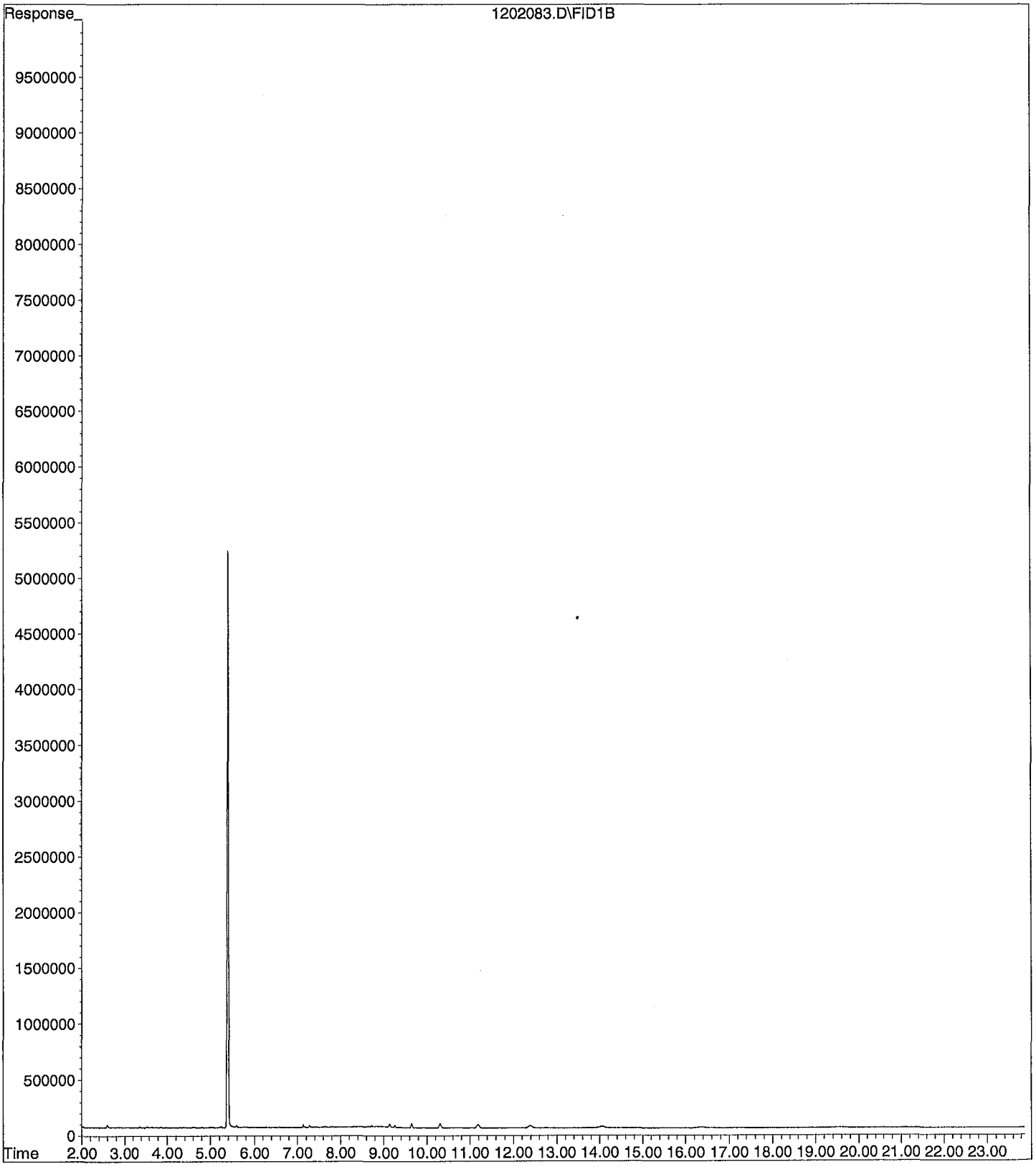
Data File : G:\APOLLO\DATA\211202\1202083.D Vial: 83
Acq On : 12-4-21 4:46:28 Operator: KA
Sample : Decanoic Acid CCV 11/05/21 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 6 7:58 2021 Quant Results File: DEC0911.RES

Method : G:\APOLLO\DATA\211202\DEC0911.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Nov 24 15:29:56 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



ORGANICS
Raw Data

Quantitation Report (QT Reviewed)

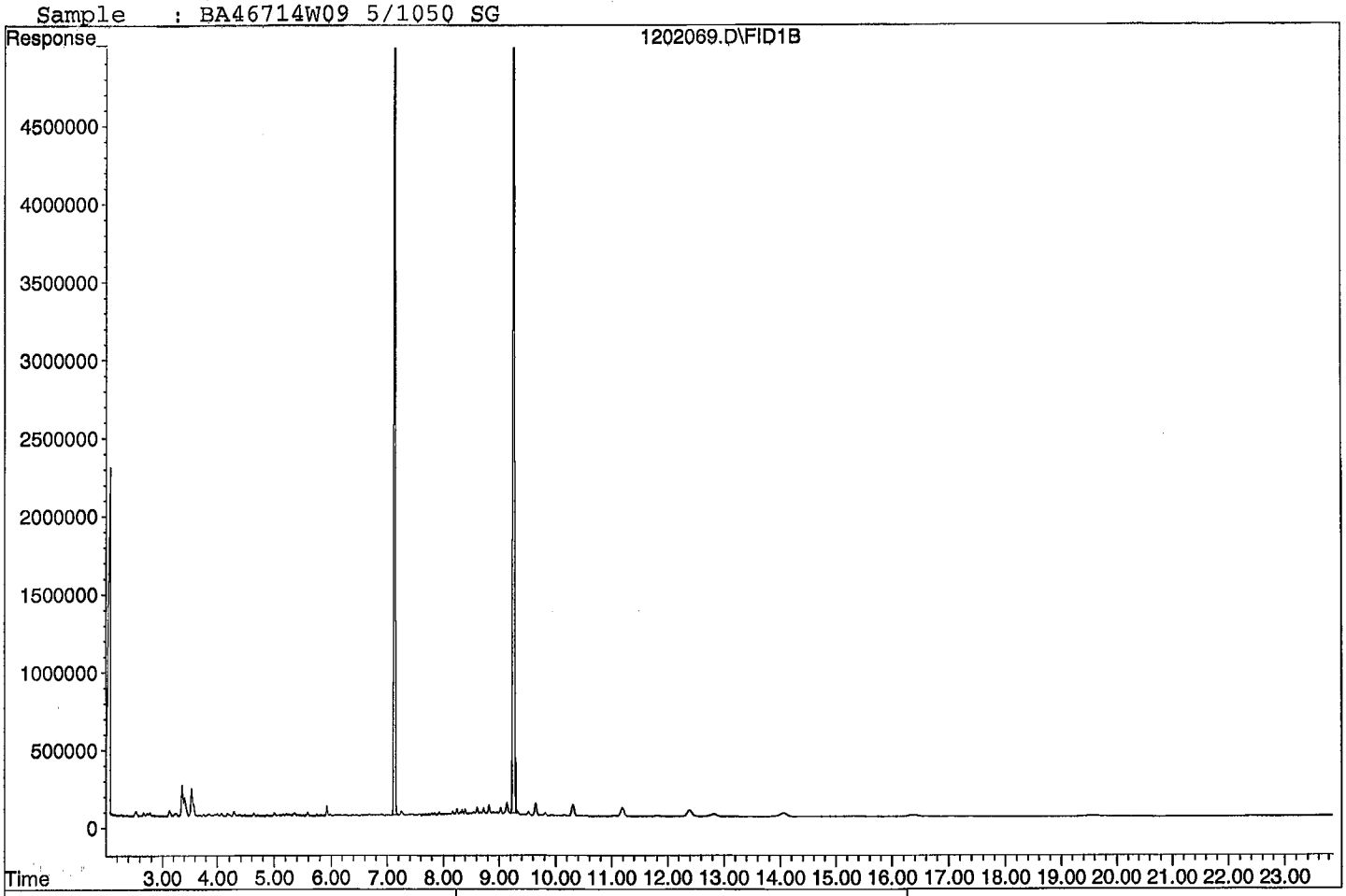
Data File : G:\APOLLO\DATA\211202\1202069.D Vial: 69
Acq On : 12-3-21 22:12:22 Operator: KA
Sample : BA46714W09 5/1050 SG Inst : Apollo
Misc : water Multiplr: 4.76
IntFile : events.e
Quant Time: Dec 6 7:53 2021 Quant Results File: DOC1028.RES

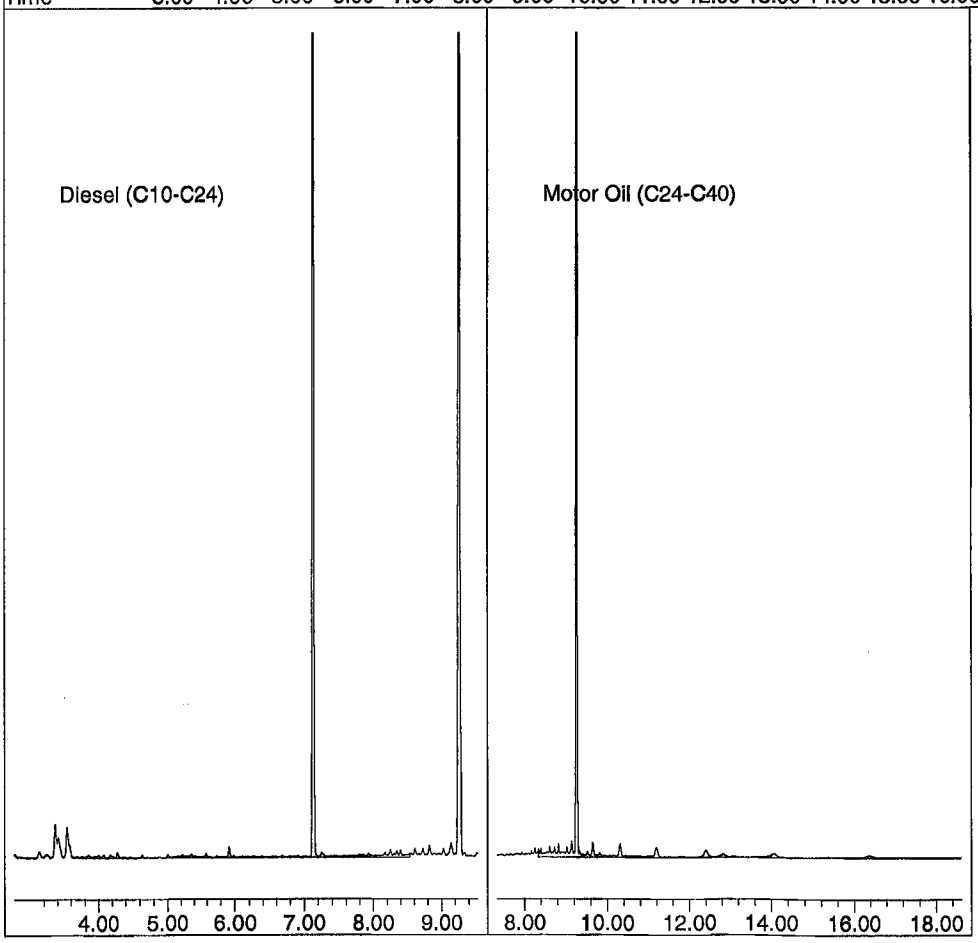
Method : G:\APOLLO\DATA\211202\DOC1028.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Fri Dec 03 08:22:29 2021
Response via : Multiple Level Calibration

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	127184049	96.824 ppb
Surrogate Spike 142.857		Recovery =	67.78%
4) SA Octacosane(S)	9.26	117546458	123.759 ppb
Surrogate Spike 142.857		Recovery =	86.63%
Target Compounds			
1) HATM Diesel (C10-C24)	6.15	22193901	20.997 ppb
2) HBTM Motor Oil (C24-C40)	12.97	56511271	31.364 ppb
Target Compounds			

Data File: G:\APOLLO\DATA\211202\1202069.D
Sample : BA46714W09 5/1050 SG





Quantitation Report (QT Reviewed)

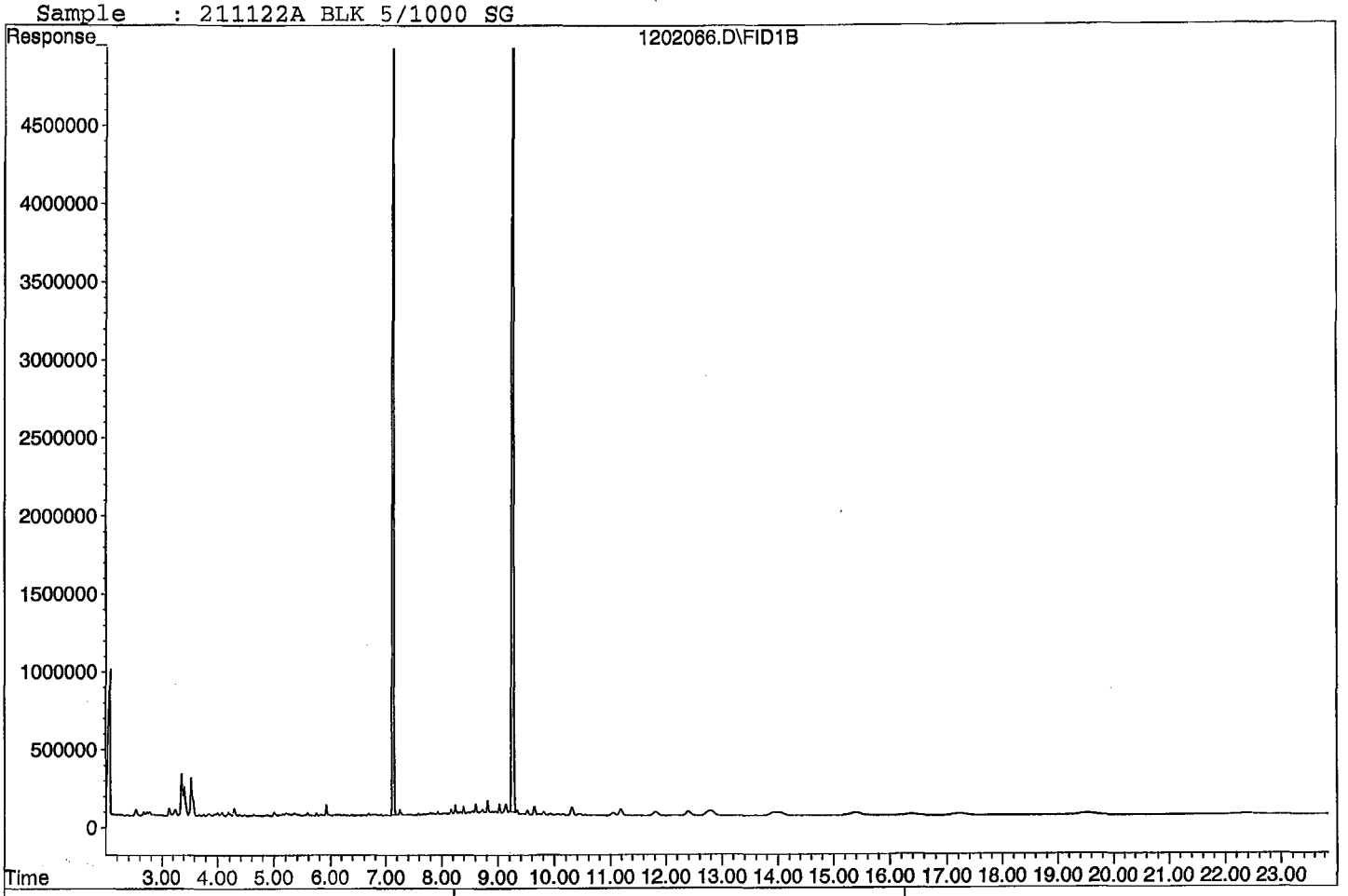
Data File : G:\APOLLO\DATA\211202\1202066.D Vial: 66
Acq On : 12-3-21 20:47:51 Operator: KA
Sample : 211122A BLK 5/1000 SG Inst : Apollo
Misc : water Multiplr: 5.00
IntFile : events.e
Quant Time: Dec 6 7:51 2021 Quant Results File: DOC1028.RES

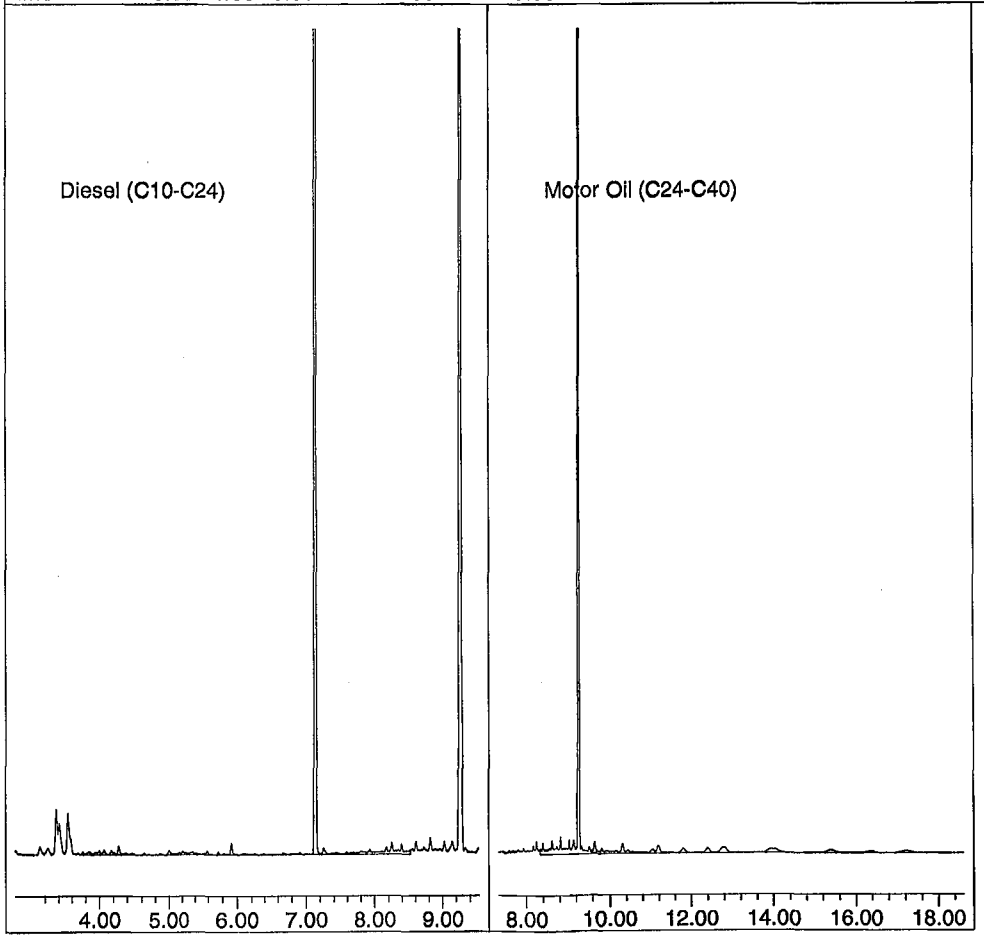
Method : G:\APOLLO\DATA\211202\DOC1028.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Fri Dec 03 08:22:29 2021
Response via : Multiple Level Calibration

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	167937251	134.242 ppb
Surrogate Spike 150.000		Recovery =	89.49%
4) SA Octacosane(S)	9.26	156502886	173.013 ppb
Surrogate Spike 150.000		Recovery =	115.34%
Target Compounds			
1) HATM Diesel (C10-C24)	6.15	27148876	26.969 ppb
2) HBTM Motor Oil (C24-C40)	12.97	66992819	48.383 ppb
Target Compounds			

Data File: G:\APOLLO\DATA\211202\1202066.D
Sample : 211122A BLK 5/1000 SG





Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\211202\1202067.D Vial: 67
Acq On : 12-3-21 21:16:03 Operator: KA
Sample : 211122A LCS-1 5/1000 SG Inst : Apollo
Misc : water Multiplr: 5.00
IntFile : events.e
Quant Time: Dec 6 7:52 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

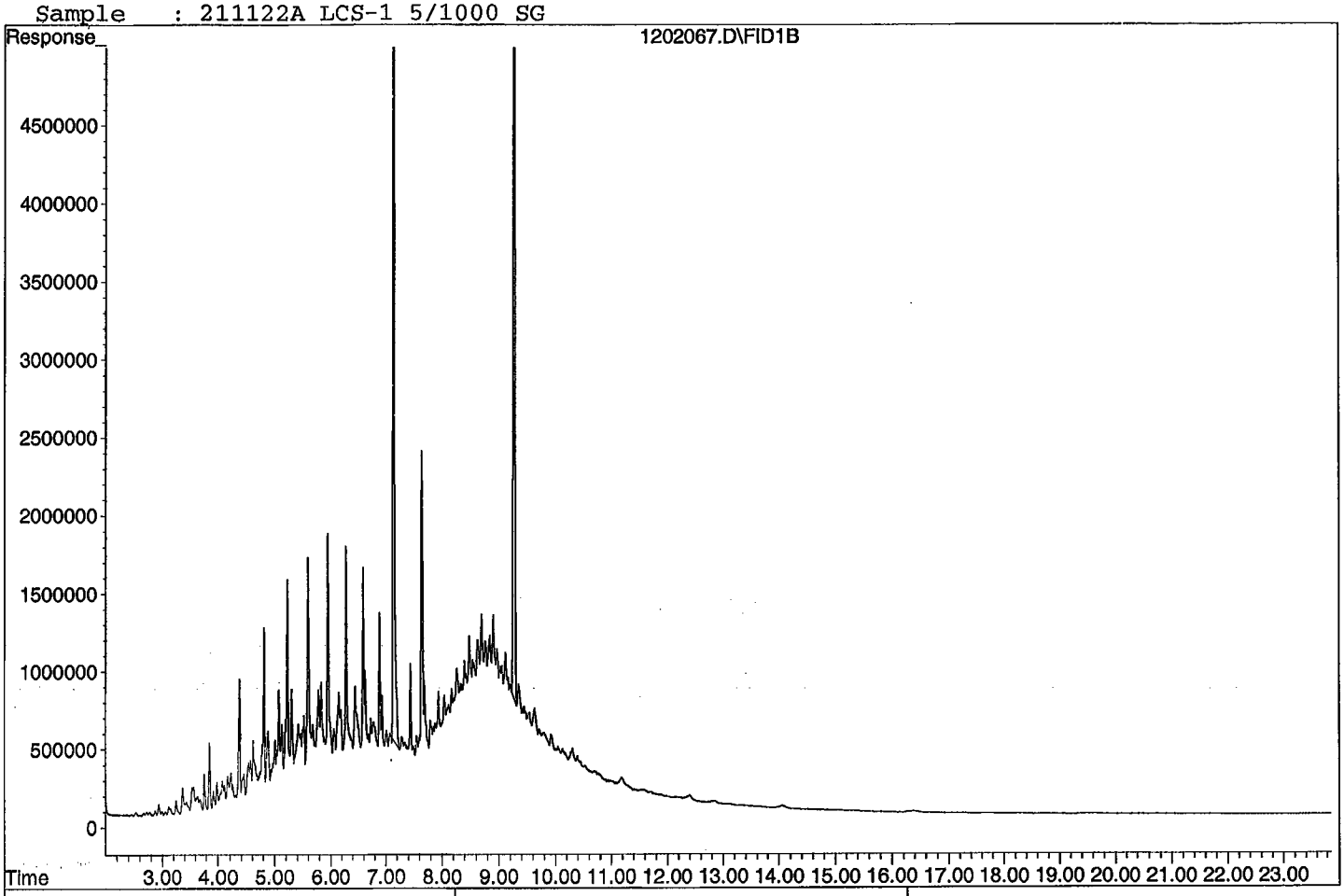
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.13	135837238	108.583 ppb
Surrogate Spike 150.000		Recovery =	72.39%
4) SA Octacosane(S)	9.26	111783569	123.576 ppb
Surrogate Spike 150.000		Recovery =	82.38%
Target Compounds			
1) HATM Diesel (C10-C24)	6.15	1497946358	1488.025 ppb
2) HBTM Motor Oil (C24-C40)	12.97	1221398729	1750.116 ppb
Target Compounds			

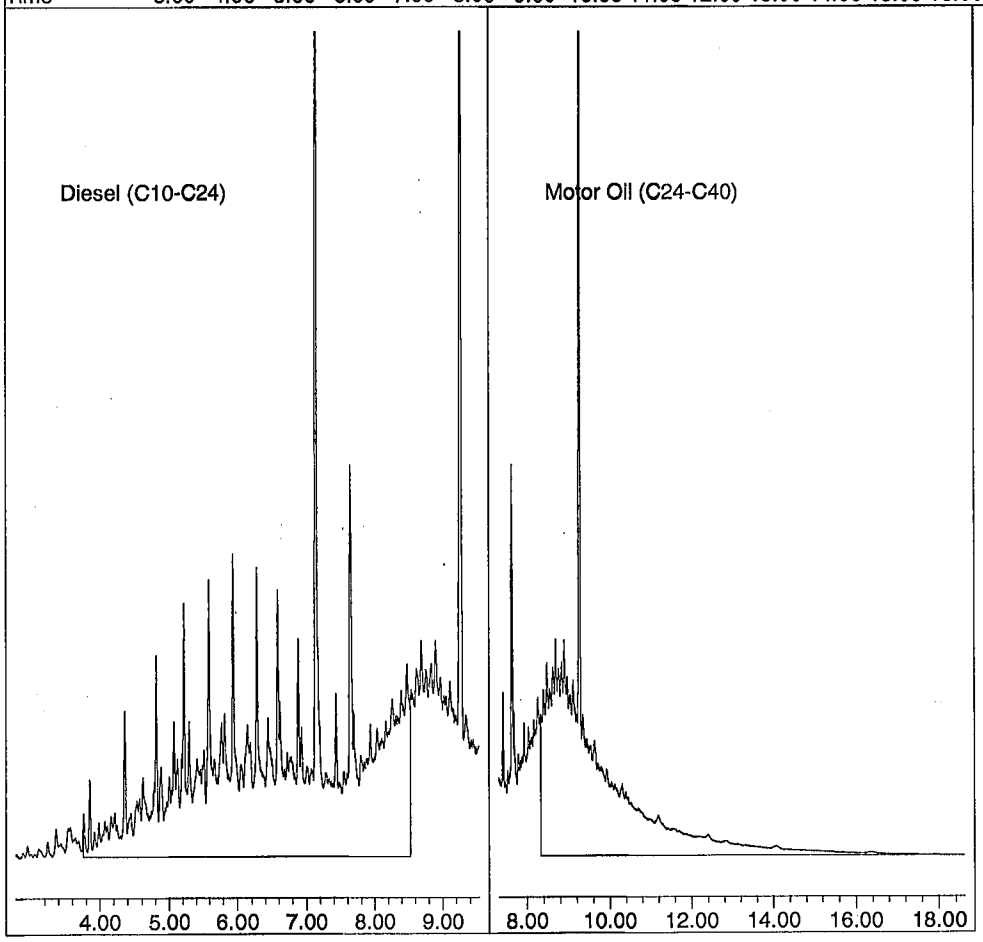
(f)=RT Delta > 1/2 Window (m)=manual int.
1202067.D DOC1028.M Wed Dec 15 10:49:40 2021

Diesel:

$$\frac{(14979463 58)(5)}{(25166669)(2)} = \frac{74897731790}{50333338} = \boxed{1488.025}$$

Data File: G:\APOLLO\DATA\211202\1202067.D
Sample : 211122A LCS-1 5/1000 SG





Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\211202\1202068.D Vial: 68
Acq On : 12-3-21 21:44:13 Operator: KA
Sample : 211122A LCSD-1 5/1000 SG Inst : Apollo
Misc : water Multiplr: 5.00
IntFile : events.e
Quant Time: Dec 6 7:52 2021 Quant Results File: DOC1028.RES

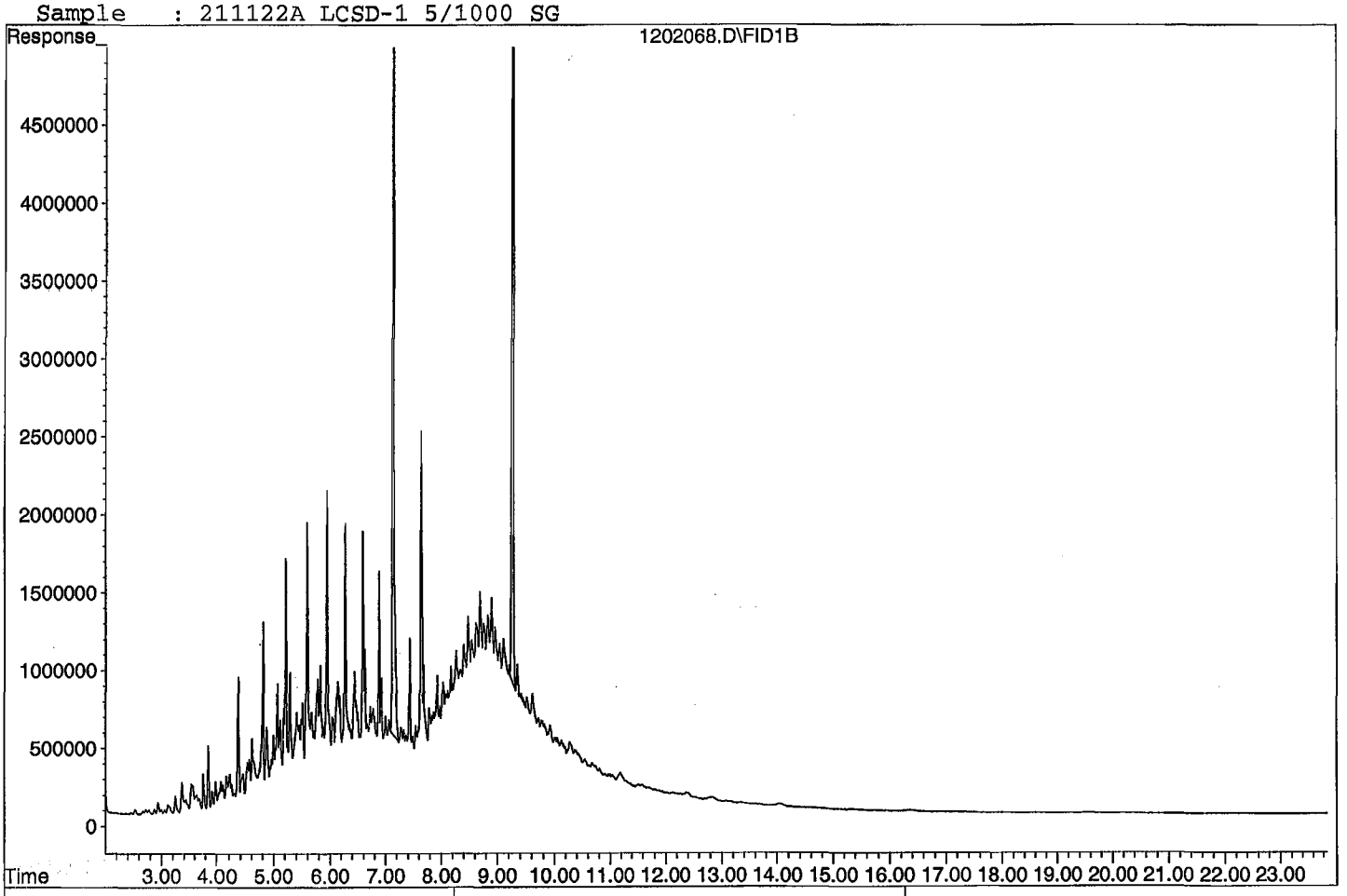
Method : G:\APOLLO\DATA\211202\DOC1028.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Fri Dec 03 08:22:29 2021
Response via : Multiple Level Calibration

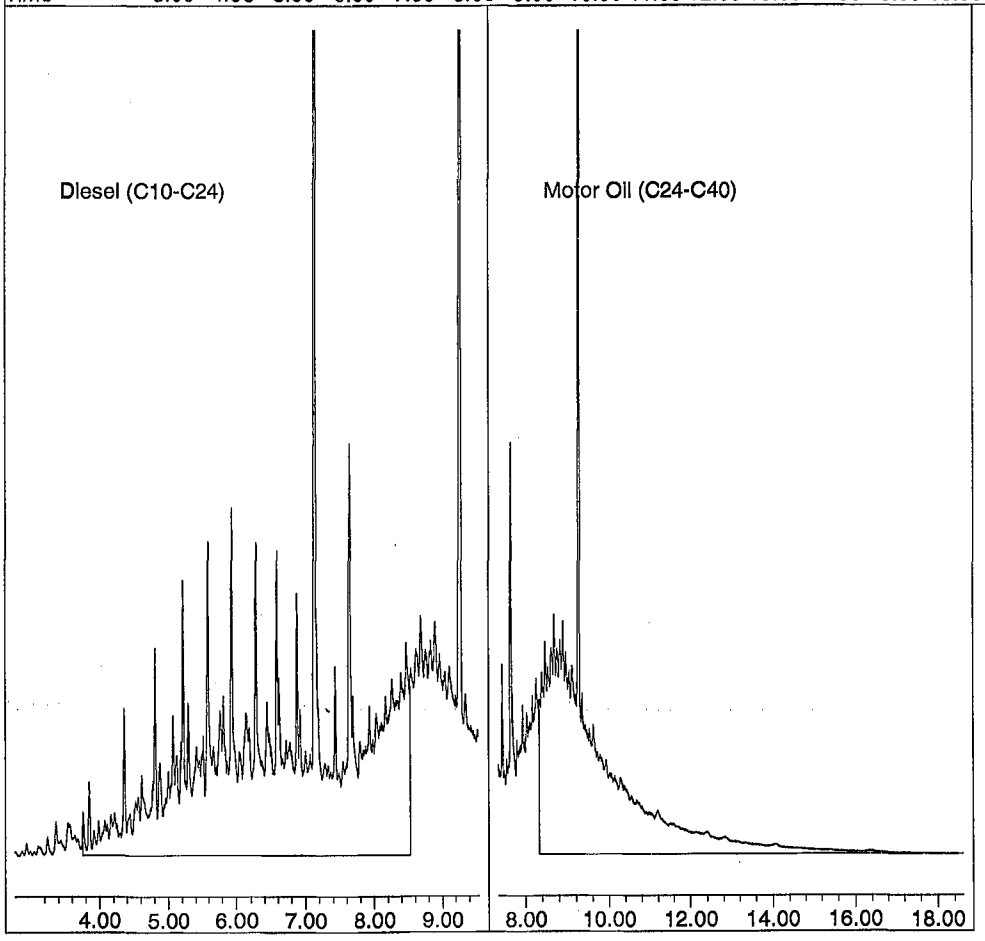
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.13	153385282	122.610 ppb
Surrogate Spike 150.000		Recovery =	81.74%
4) SA Octacosane(S)	9.26	124668173	137.820 ppb
Surrogate Spike 150.000		Recovery =	91.88%
Target Compounds			
1) HATM Diesel (C10-C24)	6.15	1637673875	1626.827 ppb
2) HBTM Motor Oil (C24-C40)	12.97	1361447952	1956.566 ppb
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\211202\1202068.D
Sample : 211122A LCSD-1 5/1000 SG





Diesel / Motor Oil Calibration Curve

Prepared: 10/28/2021
Expires: 5/31/2026
Methylene Chloride Lot No. 61117

Prepared By (Initials): KA

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: 10/6/21 A0164485-52822, A0168842-52620, AO168510-52817 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
Methylene Chloride
Lot No. 61117

Prepared By (Initials): KA

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 Calibration Standard

Prepared: 10/6/2021 **Prepared By (Initials): KA**

Expires: 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	**A0164485-52822**	**9/3/2022**	**10/31/2027**	400uL	10mL	MC	2000
Motor Oil	Restek	31464	50,000	**A0168842-52820 and A0166510-52817**	**10/6/2021**	**12/31/2027**	400uL			2000
THC Surrogate	Phenova	ALO-130161	600	**CL16893-52835**	**10/6/2021**	**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

THC Surrogate

Prepared: 11/3/2021 **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	**CL16893-52840**	**See ma. Date**	**5/31/2026**	N/A	N/A	N/A	600

Decanoic Acid Calibration Curve

Prepared: 9/11/2021 **Prepared By (Initials): KA**

Expires: 7/12/2022

Methylene 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

Decanoic Acid Spike

Prepared: 11/19/2021 **Prepared By (Initials): KA**

Expires: 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	**070821-52698**	**See man. Exp date**	**7/8/2024**	N/A	N/A	N/A	1,000

Decanoic Acid CCV

Prepared: 11/5/2021 **Prepared By (Initials):** KA

Expires: 7/8/2024

Methylene Chloride Lot No. 61117

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date	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

_LIQ005SGC

Organic Extraction Worksheet

Method	Continuous Liq/Liq TPH- 3520C w/SGC	Extraction Set	211122A	Extraction Method	LIQ005SGC	Units	mL

Spiked ID 1	Diesel Motor Oil Mix 10-30-21 10-31-27		Surrogate ID 1	THC Surrogate 11-3-21 11-3-22	
Spiked ID 2	Decanoic 1000ug/mL Acid Solution 11-19-21 11-19-22		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:	11/22/21 13:08	
Spiked ID 8			Ext. End Time:	11/23/21 7:09	
			GC Requires Extract By:		

pH1	2	11/22/21 11:50	Water Bath Temp 1 °C	41/ 40.1 °C
pH2			Water Bath Temp 2 °C	35/ 36.1
pH3			Water Bath Temp 3 °C	34/ 33.5 °C

Spiked By: SR **Date** 11/22/2021 **Witnessed By:** AGM **Date** 11/22/2021

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	211122A Blk		0.050	2	0.250	1	1000	5	2	11/22/21 11:52	*
						equip	E-HP3 E-WB1				
2	211122A LCS-1		0.080,0.050	1,2	0.250	1	1000	5	2	11/22/21 11:52	*
						equip	E-HP4 E-WB2				
3	211122A LCSD-1		0.080,0.050	1,2	0.250	1	1000	5	2	11/22/21 11:52	*
						equip	E-HP6 E-WB3				
4	BA46714	BA46714W09	0.050	2	0.250	1	1050	5	2	11/22/21 11:52	98278 *
						equip	E-HP7 E-WB1				
5	BA46716	BA46716W09	0.050	2	0.250	1	1020	5	2	11/22/21 11:52	98285 *
						equip	E-HP8 E-WB2				
6	BA46717	BA46717W08	0.050	2	0.250	1	1020	5	2	11/22/21 11:52	98285 *
						equip	E-HP9 E-WB3				
7	BA46821	BA46821W09	0.050	2	0.250	1	950	5	2	11/22/21 11:52	98300 *
						equip	E-HP10 E-WB1				
8	BA46823	BA46823W09	0.050	2	0.250	1	1020	5	2	11/22/21 11:52	98300 *
						equip	E-HP11 E-WB2				
9	BA46827	BA46827W09	0.050	2	0.250	1	1030	5	2	11/22/21 11:52	98299 *
						equip	E-HP12 E-WB3				
10	BA46829	BA46829W09	0.050	2	0.250	1	1040	5	2	11/22/21 11:52	98299 *
						equip	E-HP13 E-WB1				

Solvent and Lot#	
1+1 HCL (5mLs)	60282
PH Strips	HC155968
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	
Time	
Refrigerator	Hobart

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

Modified	11/29/2021 6:45:31 AM

Reviewed By: KY **Date** 11/29/2021

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	62	1202062.D	1	DMO STD DF2 10/06/21	water	12-3-21 18:55:09
16	63	1202063.D	1	Decanoic Acid CCV 11/05/21	water	12-3-21 19:23:21
17	66	1202066.D	5	211122A BLK 5/1000 SG	water	12-3-21 20:47:51
18	67	1202067.D	5	211122A LCS-1 5/1000 SG	water	12-3-21 21:16:03
19	68	1202068.D	5	211122A LCSD-1 5/1000 SG	water	12-3-21 21:44:13
20	69	1202069.D	4.7619	BA46714W09 5/1050 SG	water	12-3-21 22:12:22
21	82	1202082.D	1	DMO STD DF2 10/06/21	water	12-4-21 4:18:20
22	83	1202083.D	1	Decanoic Acid CCV 11/05/21	water	12-4-21 4:46:28

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^2	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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7																	
8																	
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2.118919

Quantitation Report (Not Reviewed)

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

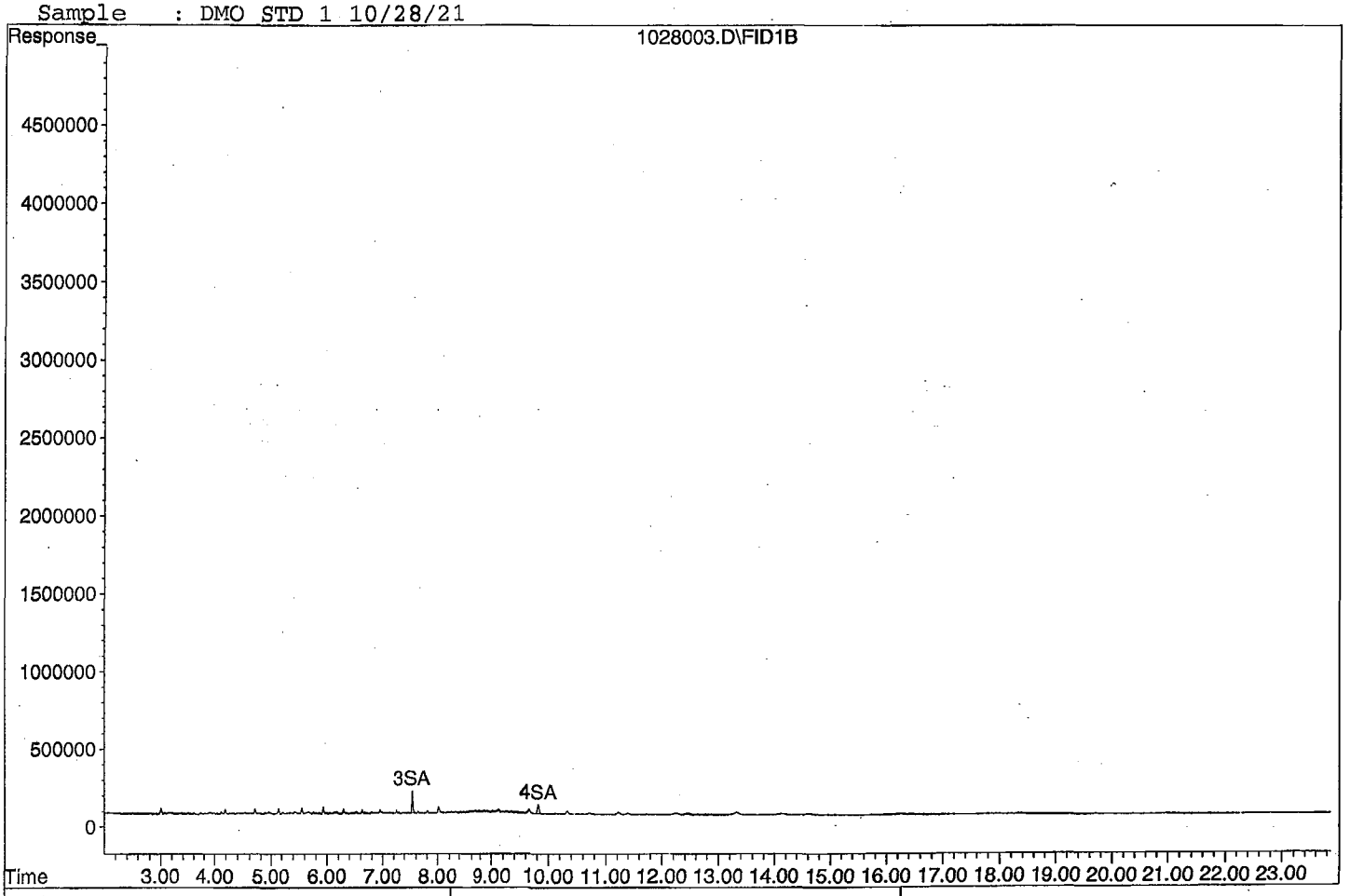
Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Thu Oct 28 15:39:11 2021
Response via : Multiple Level Calibration

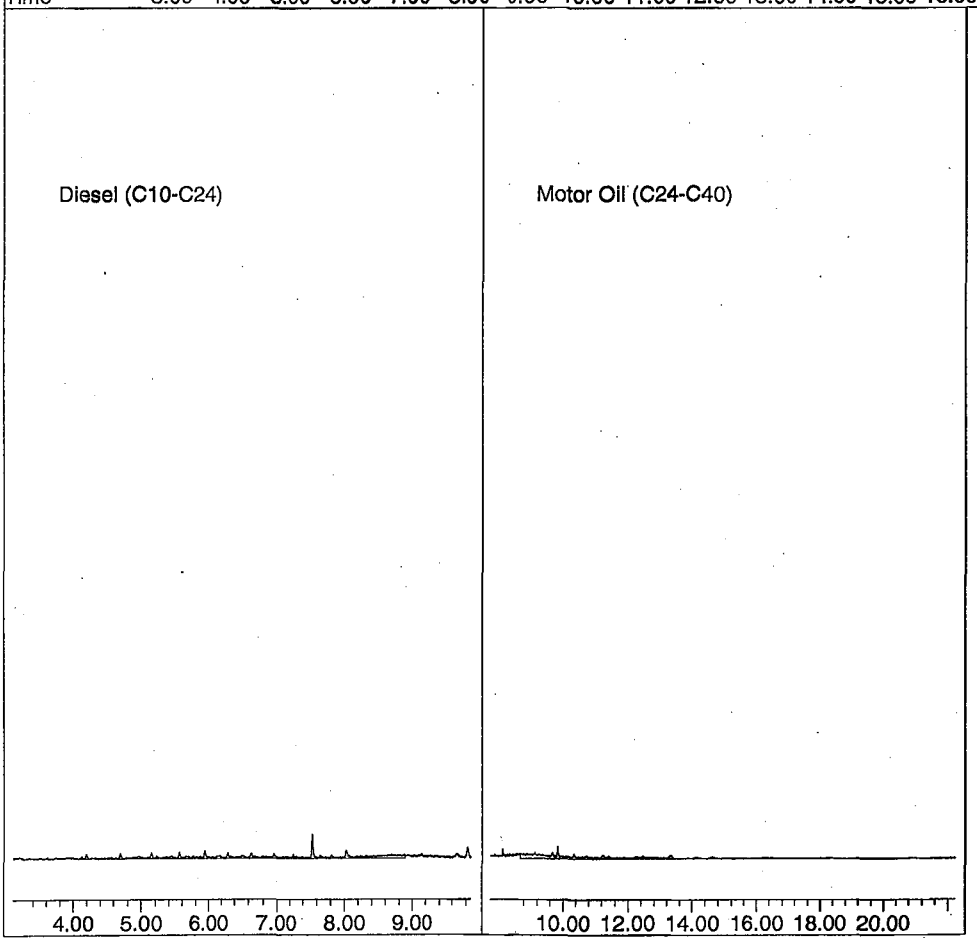
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

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

Data File: G:\APOLLO\DATA\211028\1028003.D
Sample : DMO STD 1 10/28/21





Quantitation Report (Not Reviewed)

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

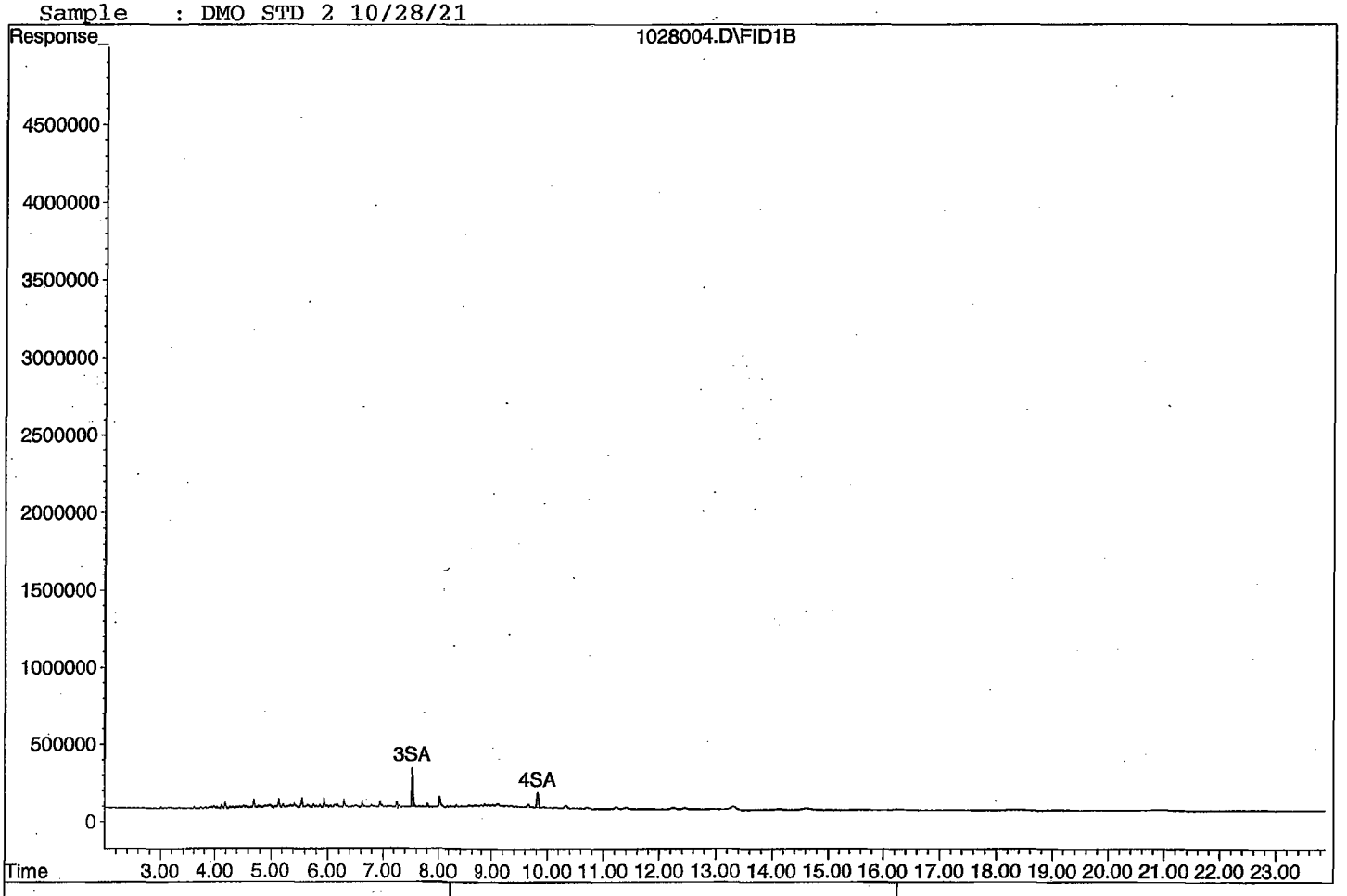
Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Thu Oct 28 15:39:11 2021
Response via : Multiple Level Calibration

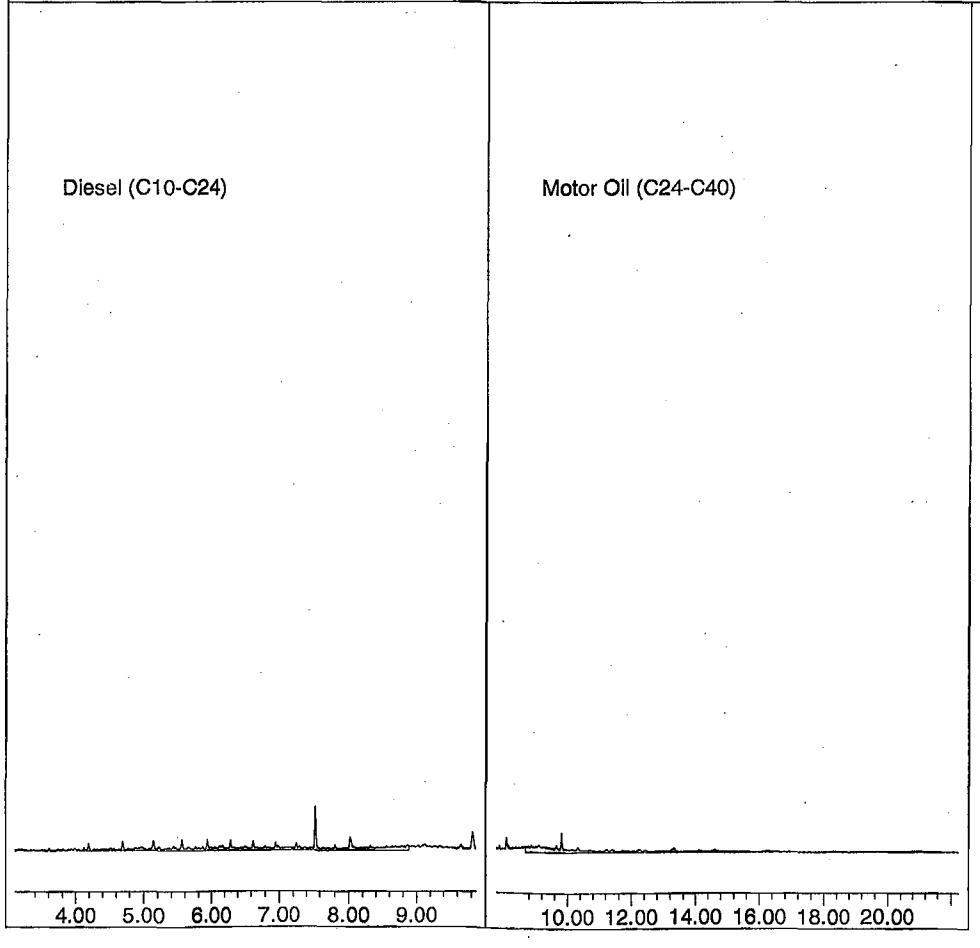
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

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

Data File: G:\APOLLO\DATA\211028\1028004.D
Sample : DMO STD 2 10/28/21





Quantitation Report (Not Reviewed)

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

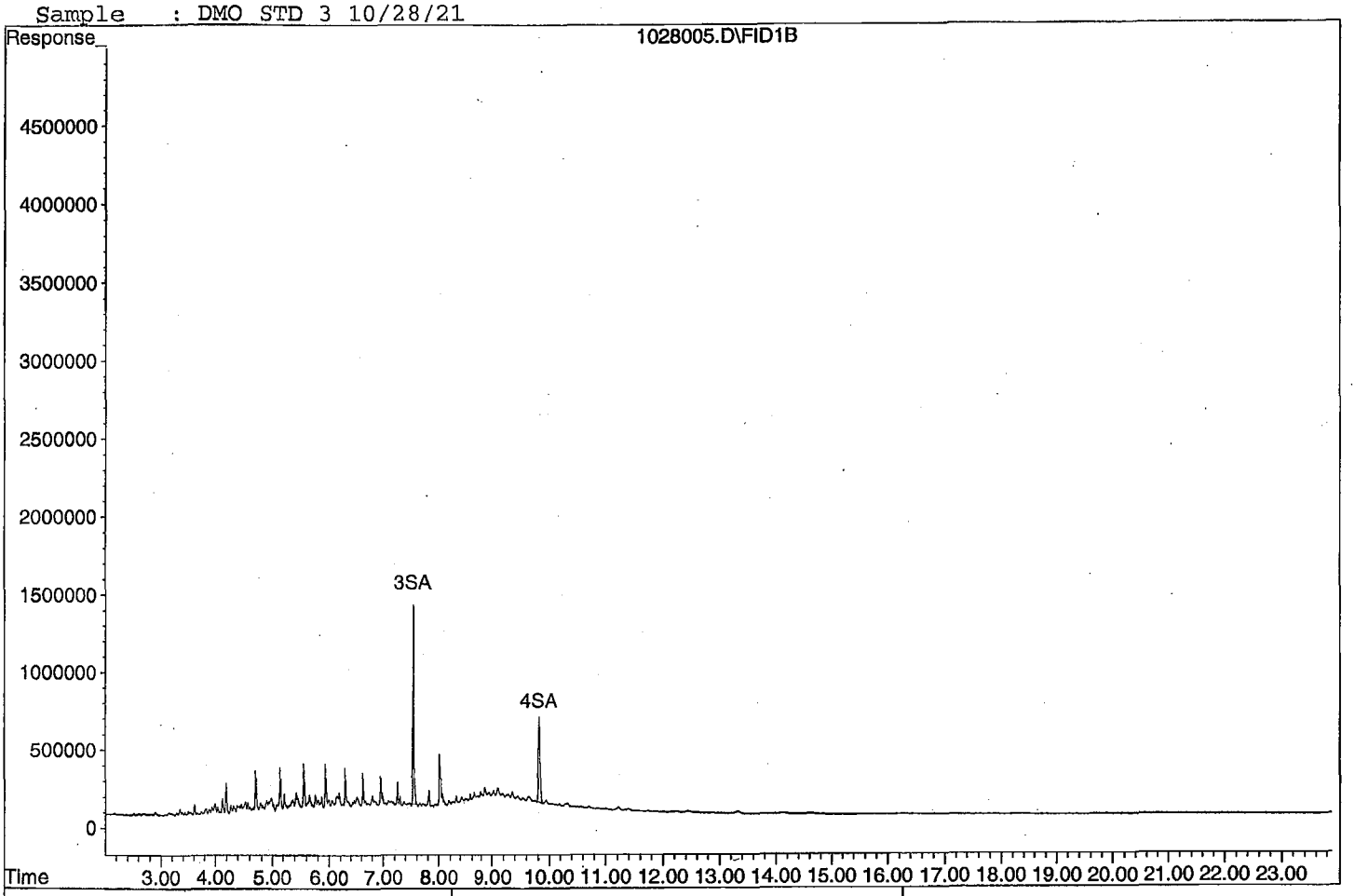
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.53	15599382	2.494 ppb
Surrogate Spike 30.000	Recovery =		8.31%
4) SA Octacosane(S)	9.82	11432050	2.528 ppb
Surrogate Spike 30.000	Recovery =		8.43%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	251787231	50.024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

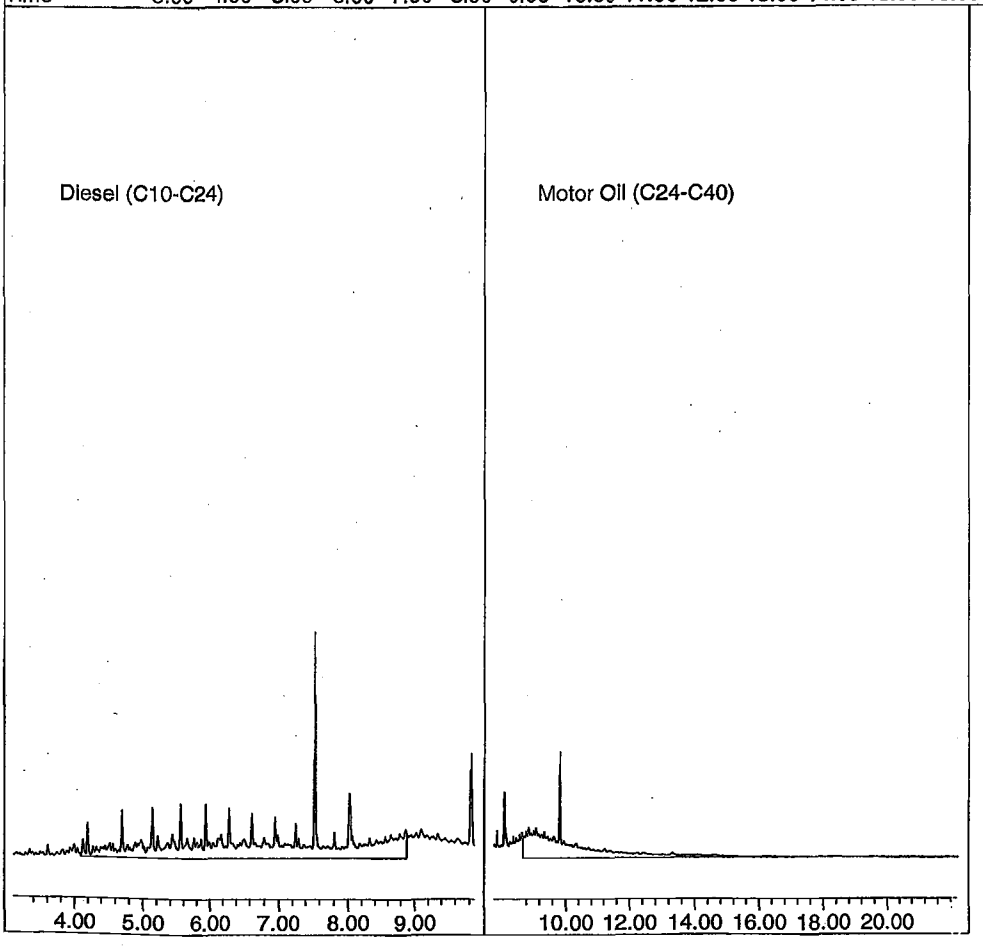
Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

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





Quantitation Report (Not Reviewed)

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

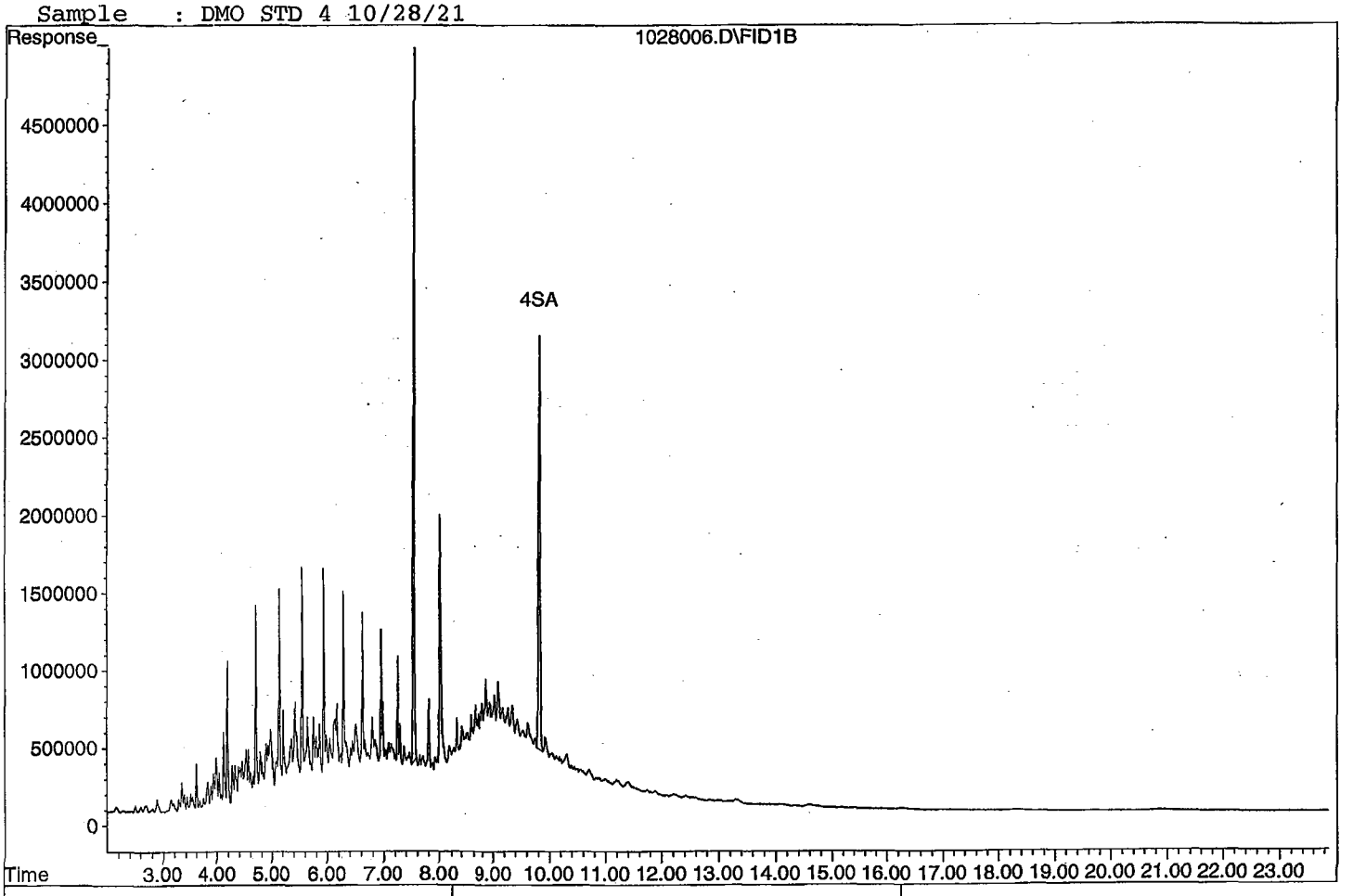
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.53	75891940	12.133 ppb
Surrogate Spike 30.000		Recovery =	40.44%
4) SA Octacosane(S)	9.82	56888797	12.578 ppb
Surrogate Spike 30.000		Recovery =	41.93%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	1209470396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

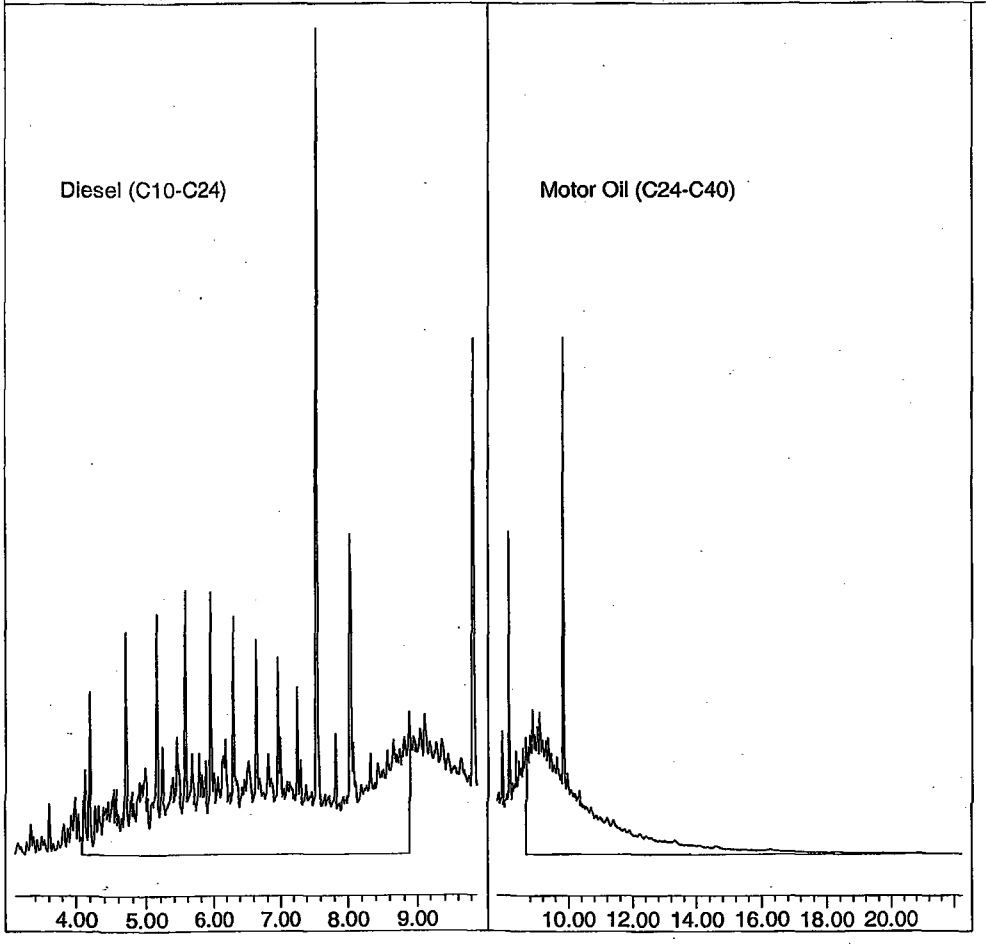
Target Compounds

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data File: G:\APOLLO\DATA\211028\1028006.D
Sample : DMO STD 4 10/28/21





Quantitation Report (Not Reviewed)

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

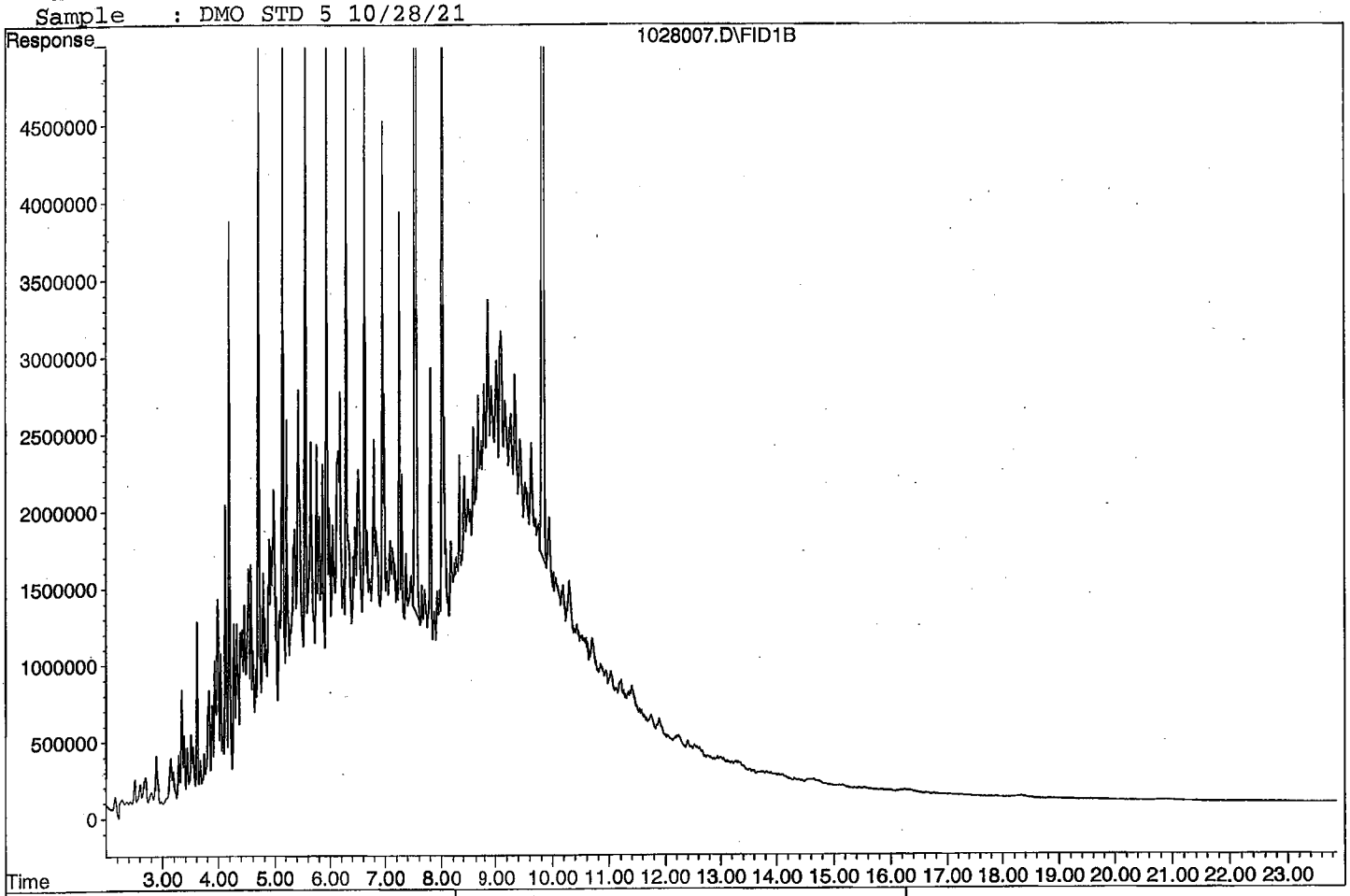
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

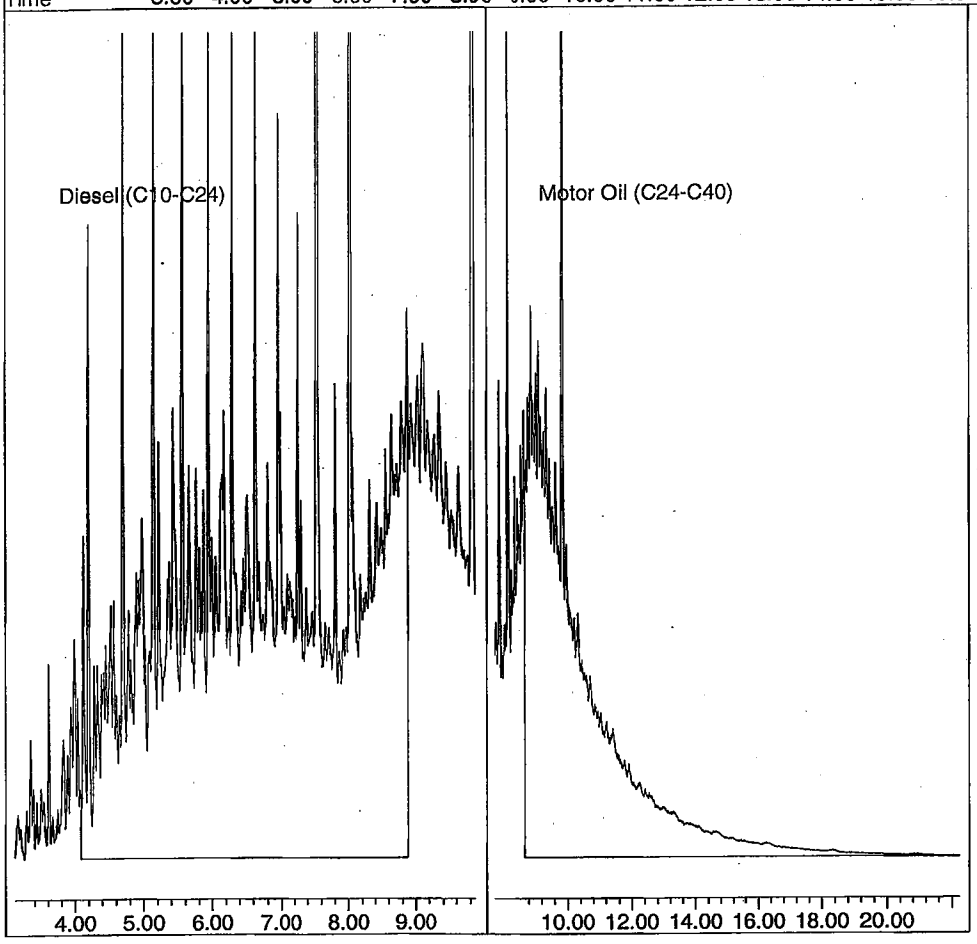
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.54	292696553	46.794 ppb
Surrogate Spike 30.000	Recovery =		155.98%
4) SA Octacosane(S)	9.83	217041298	47.988 ppb
Surrogate Spike 30.000	Recovery =		159.96%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	4675985227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

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\211028\1028007.D
Sample : DMO STD 5 10/28/21





Quantitation Report (Not Reviewed)

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

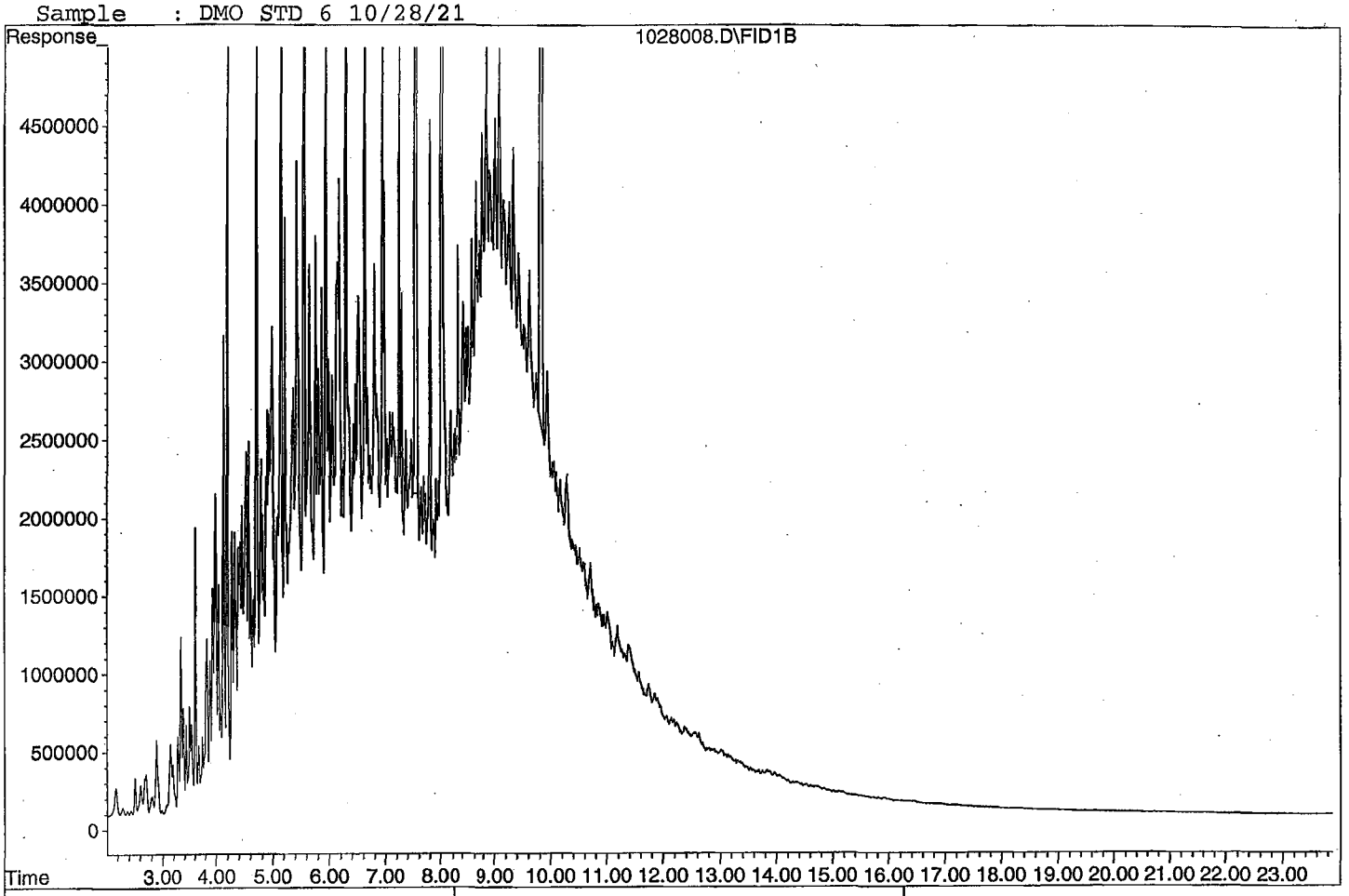
Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Thu Oct 28 15:39:11 2021
Response via : Multiple Level Calibration

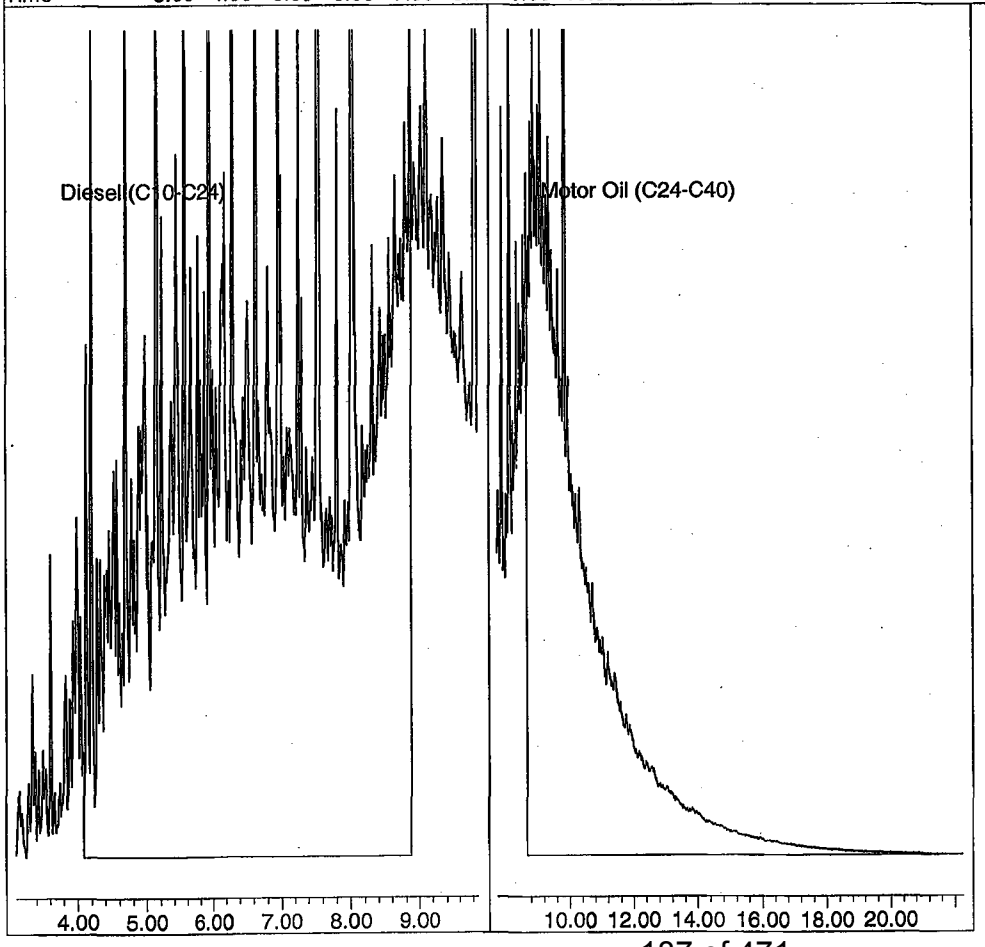
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

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





1028008.D DOC1028.M Thu Oct 28 15:42:39 2021 Page 2

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

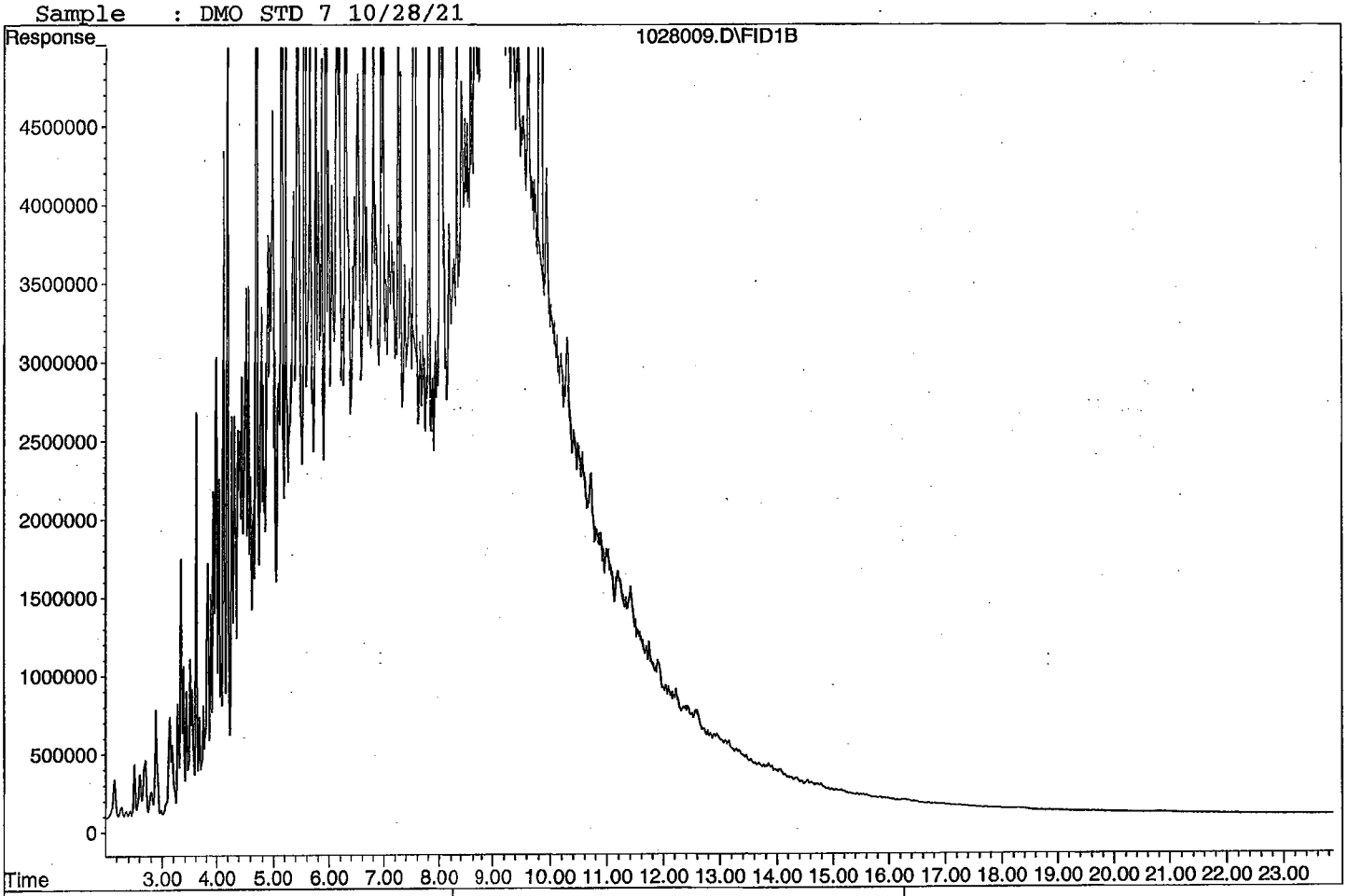
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

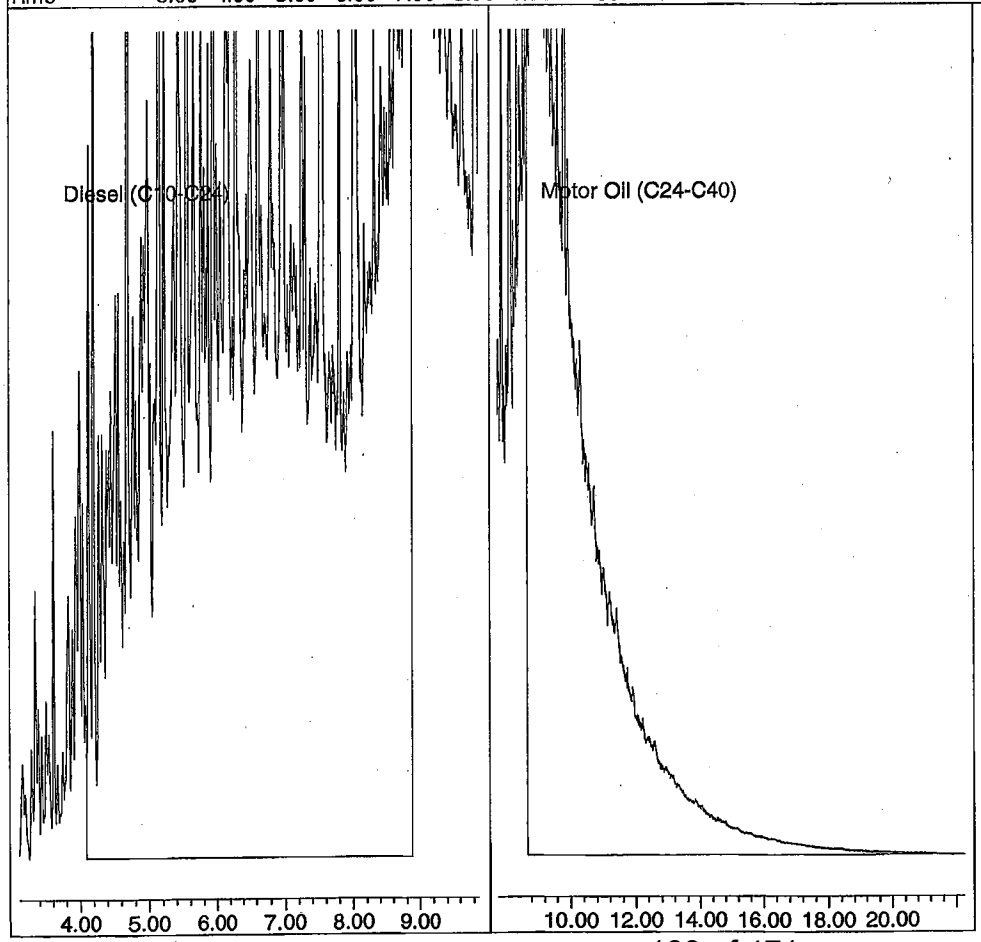
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	7.54	617758709	98.762	ppb
Surrogate Spike 30.000	Recovery =		329.21%	
4) SA Octacosane(S)	9.85	457331573	101.116	ppb
Surrogate Spike 30.000	Recovery =		337.05%	
Target Compounds				
1) HATM Diesel (C10-C24)	6.49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

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.
1028009.D DOC1028.M Thu Oct 28 15:42:40 2021 Page 1

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





1028009.D DOC1028.M Thu Oct 28 15:42:41 2021 Page 2

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
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40							
		Average			21.5		

Quantitation Report (Not Reviewed)

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

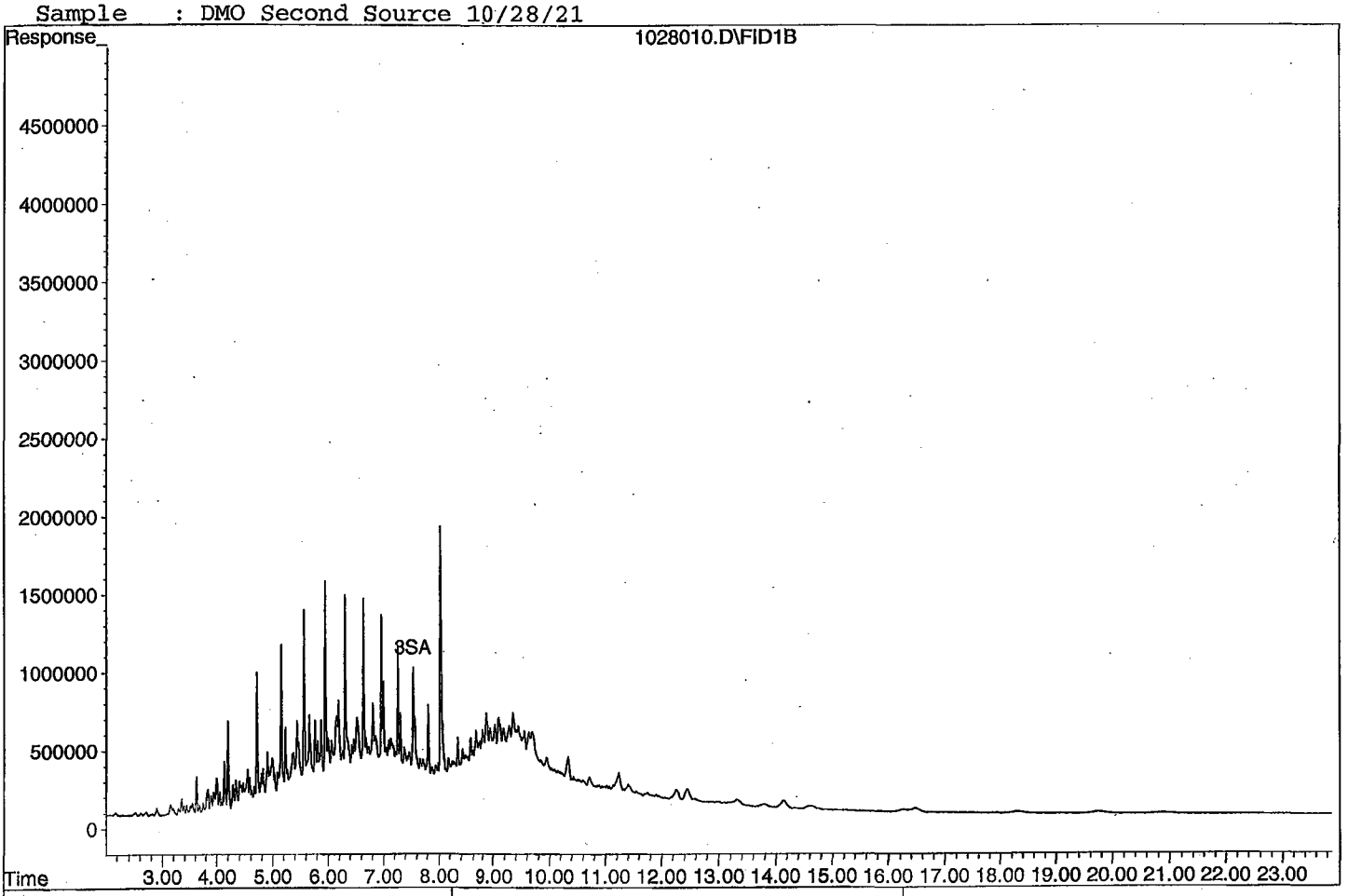
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	7.53	4250105	0.679	ppb
Surrogate Spike 30.000	Recovery =		2.26%	
4) SA Octacosane(S)	9.83	-3553	N.D.	ppb
Surrogate Spike 30.000	Recovery =		0.00%	
Target Compounds				
1) HATM Diesel (C10-C24)	6.49	1133202337	225.139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

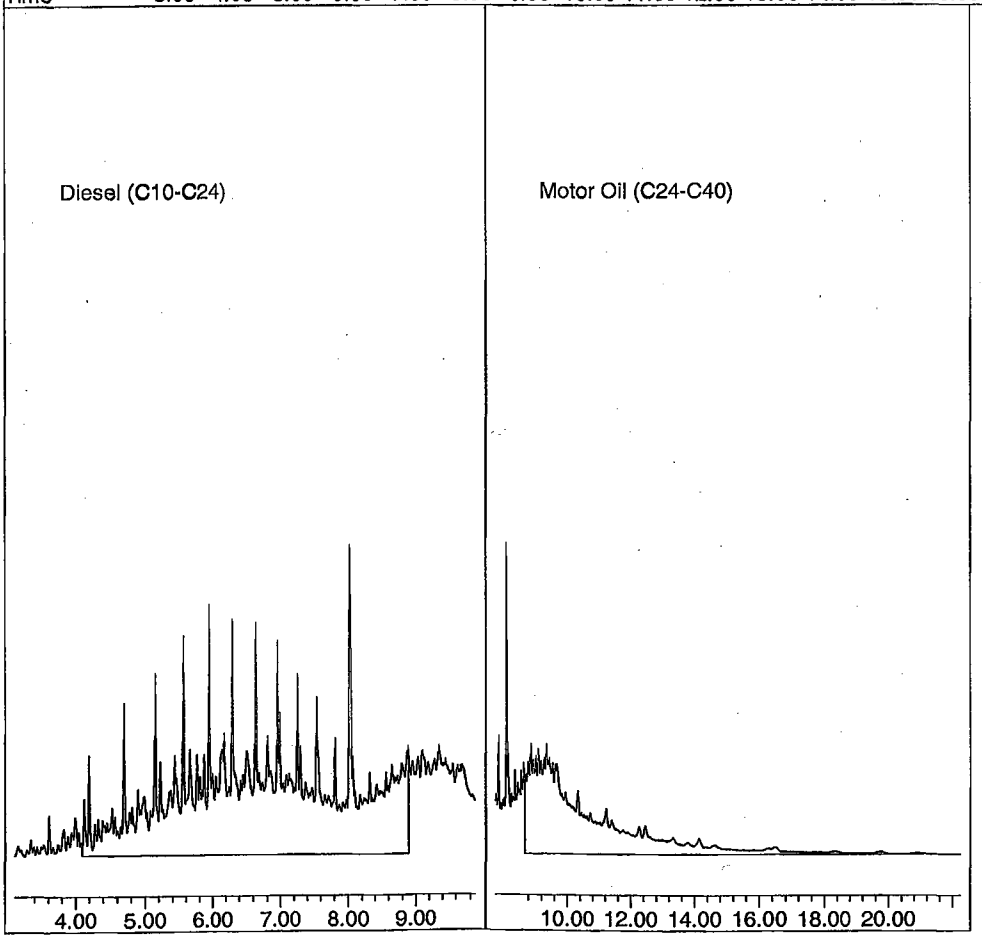
Target Compounds

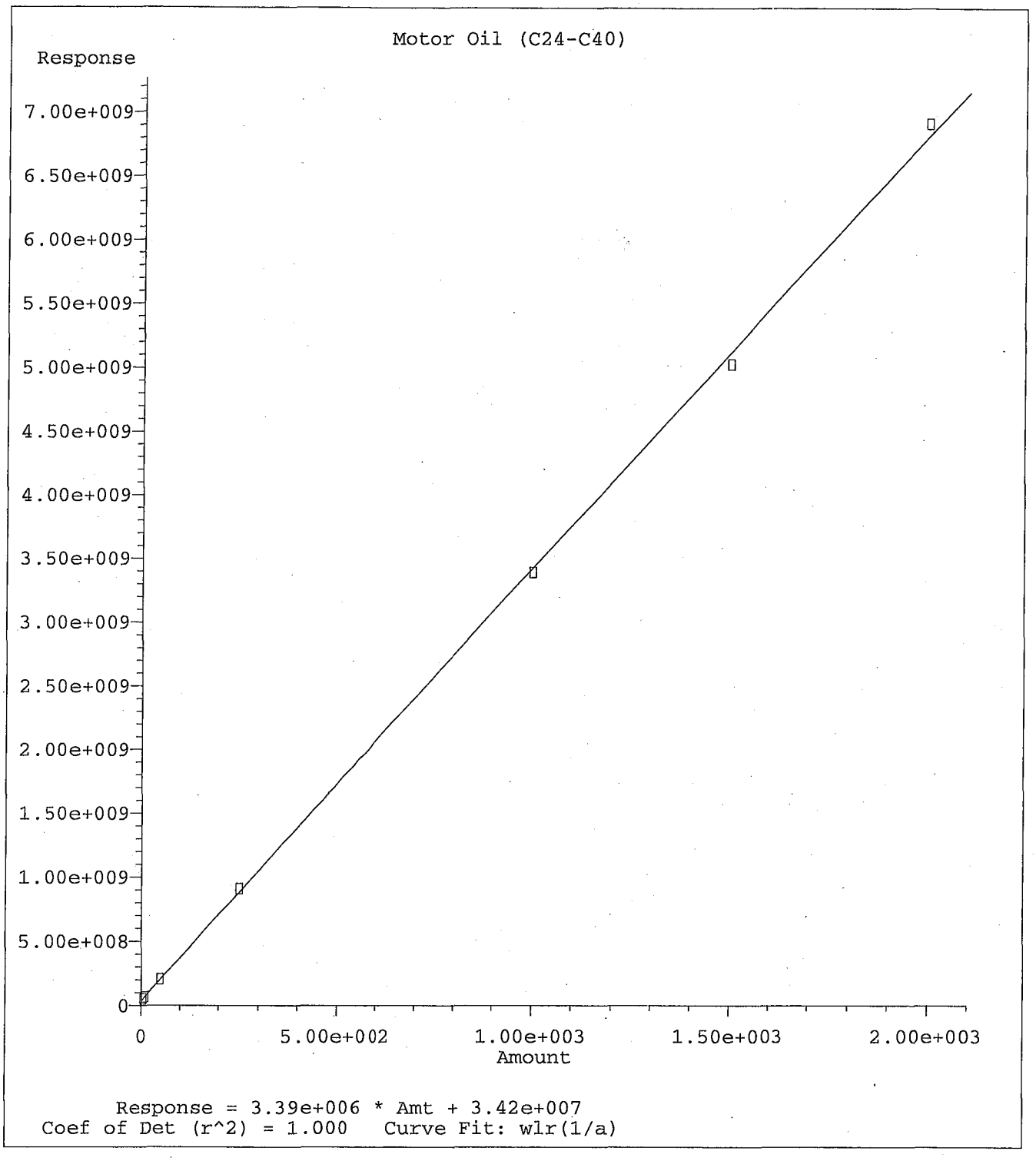
(f)=RT Delta > 1/2 Window (m)=manual int.
1028010.D DOC1028.M Thu Oct 28 15:42:42 2021 Page 1

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
DOC1028

Form 7

Continuing Calibration

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

SDG No:
Date Analyzed: 11/24/2021
Instrument: Apollo
Initial Cal. Date: 10/28/2021
Data File: 1124031.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C24)	2516670	3307500	31	HATM	*
2	HBTM	Motor Oil (C24-C40)	2492040	1945930	22	HBTML	11
3	SA	Ortho-Terphenyl(S)	3127510	2797990	11	SA	
4	SA	Octacosane(S)	2261430	2778020	23	SA	*
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39							
40							
		Average			21.8		

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211124\1124031.D Vial: 31
Acq On : 11-24-21 22:40:14 Operator: KA
Sample : DMO LVL4 CCV 10/27/21 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 29 8:47 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Dec 01 08:12:47 2021
Response via : Multiple Level Calibration

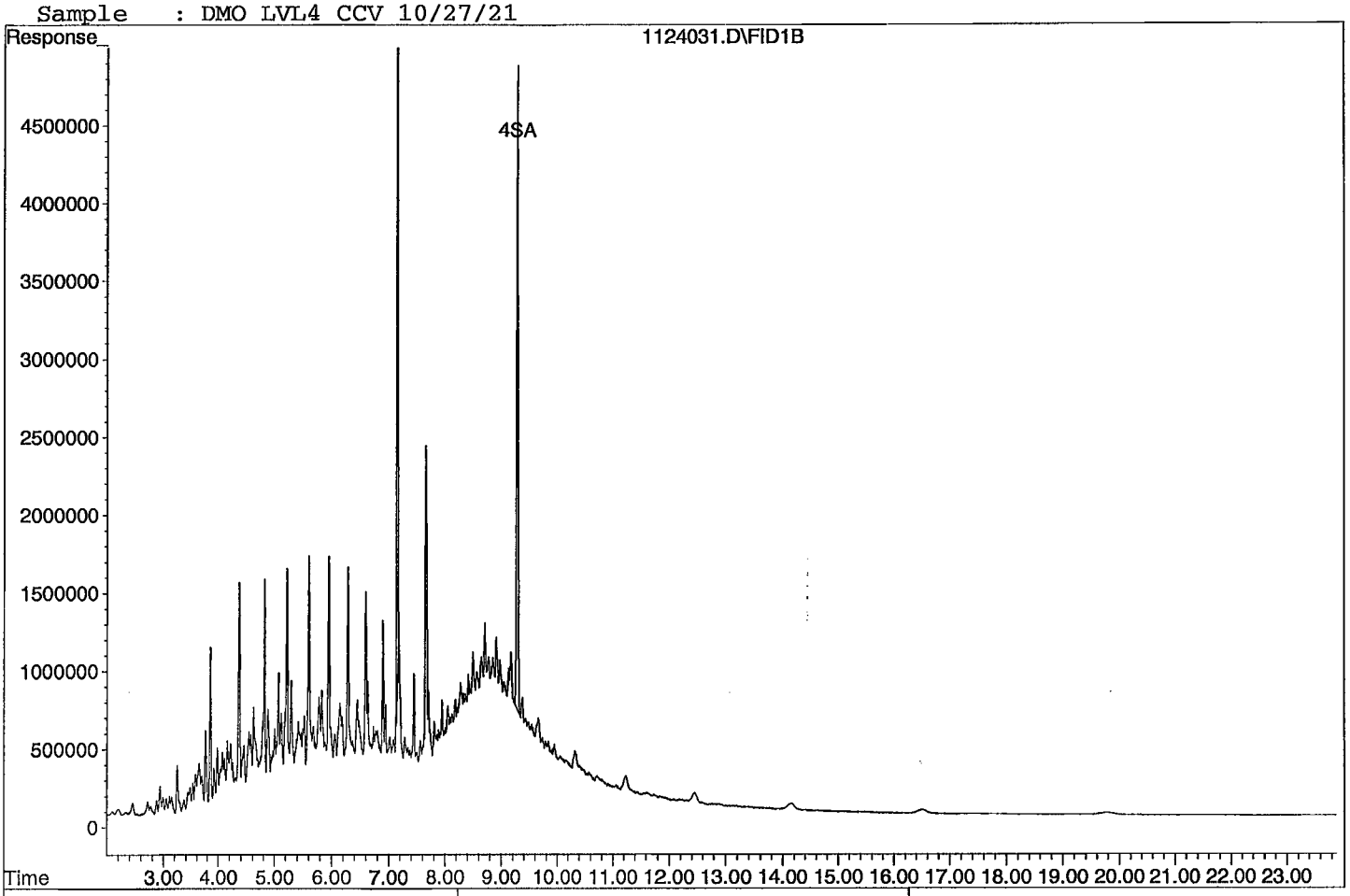
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

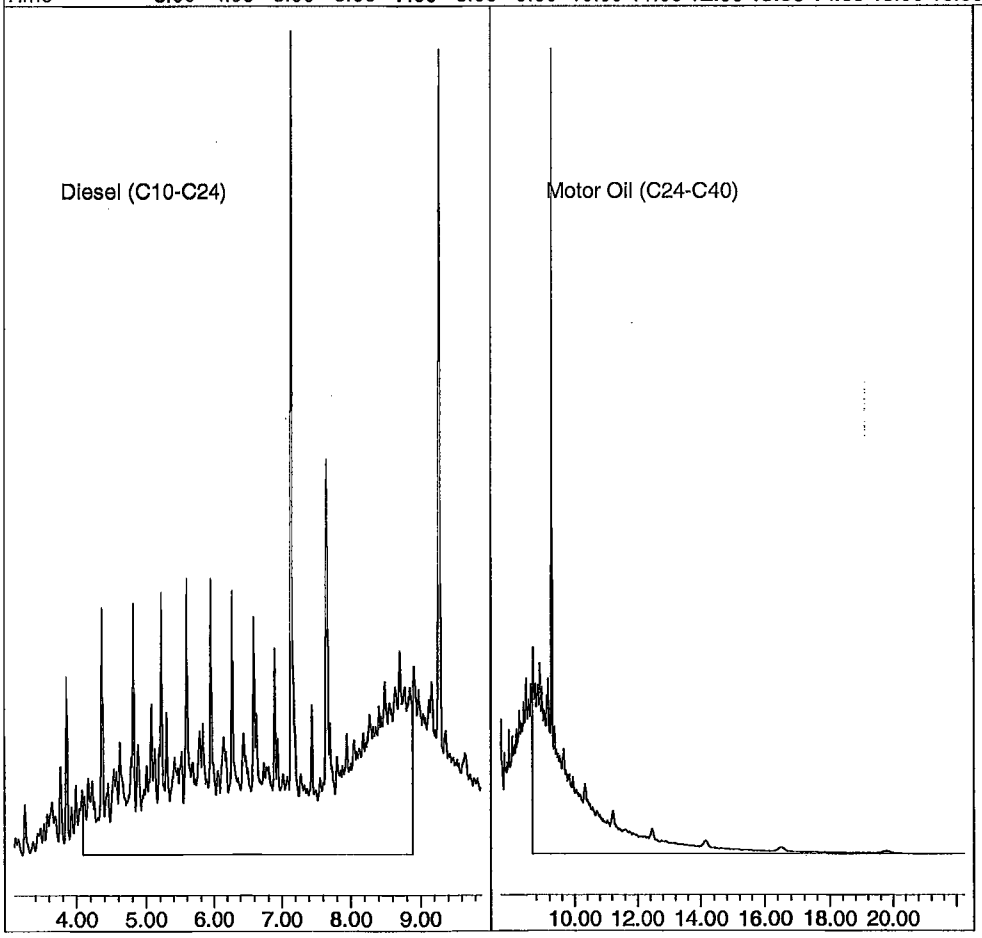
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.14	69949672	11.183 ppb
Surrogate Spike 30.000	Recovery =		37.28%
4) SA Octacosane(S)	9.27	69450553	15.355 ppb
Surrogate Spike 30.000	Recovery =		51.18%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	1653747581	328.559 ppb
2) HBTM Motor Oil (C24-C40)	14.96	972966250	276.779 ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\211124\1124031.D
Sample : DMO LVL4 CCV 10/27/21





TPH Extractables
DOC1028

Form 7

Continuing Calibration

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

SDG No:
Date Analyzed: 11/25/2021
Instrument: Apollo
Initial Cal. Date: 10/28/2021
Data File: 1124047.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C24)	2516670	2955320	17	HATM	
2	HBTM	Motor Oil (C24-C40)	2492040	1770790	29	HBTML	0.38
3	SA	Ortho-Terphenyl(S)	3127510	3459730	11	SA	
4	SA	Octacosane(S)	2261430	2551680	13	SA	
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40							
		Average			17.5		

Quantitation Report (Not Reviewed)

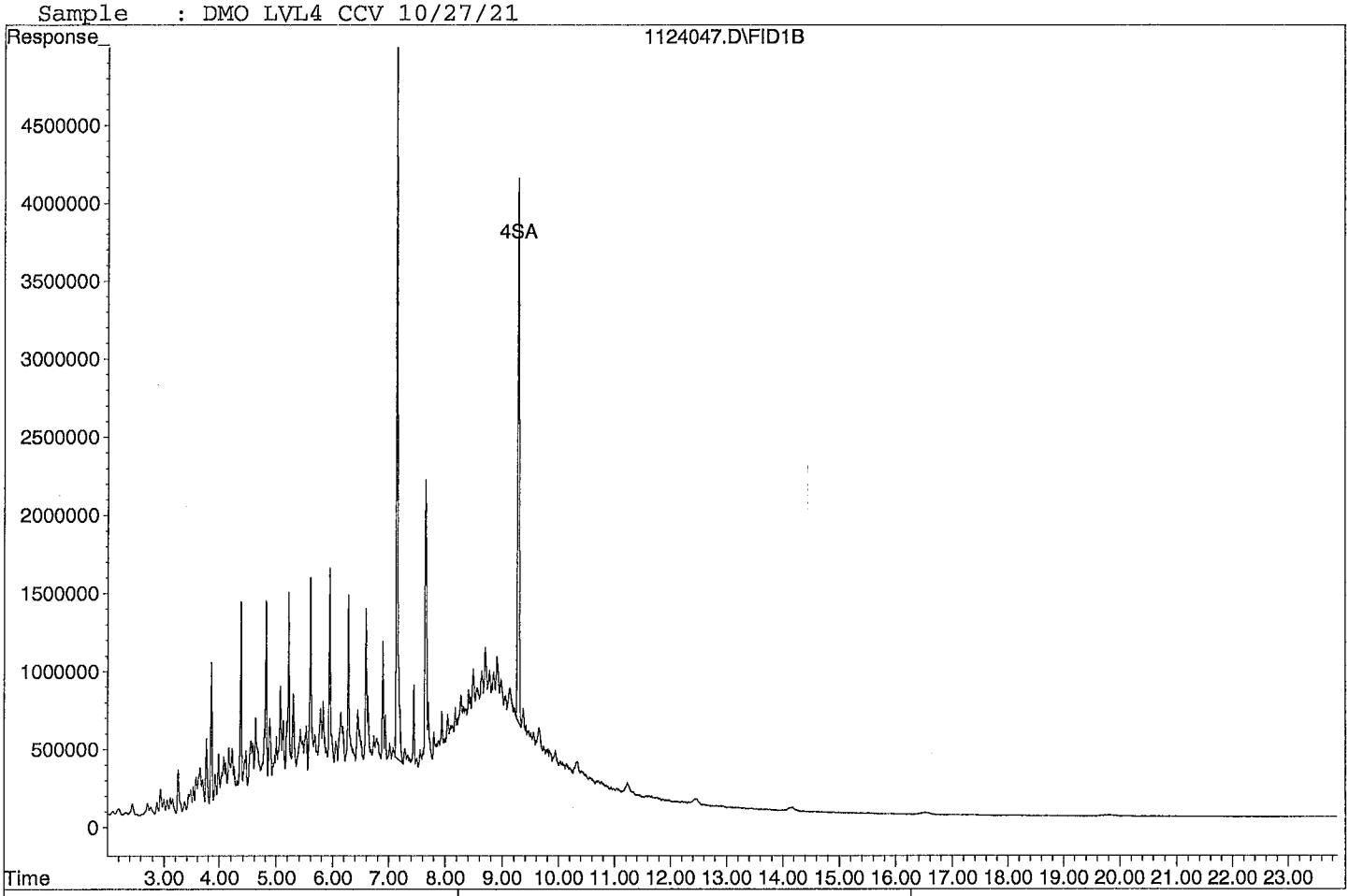
Data File : G:\APOLLO\DATA\211124\1124047.D Vial: 47
Acq On : 11-25-21 6:09:46 Operator: KA
Sample : DMO LVL4 CCV 10/27/21 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 29 9:28 2021 Quant Results File: DOC1028.RES

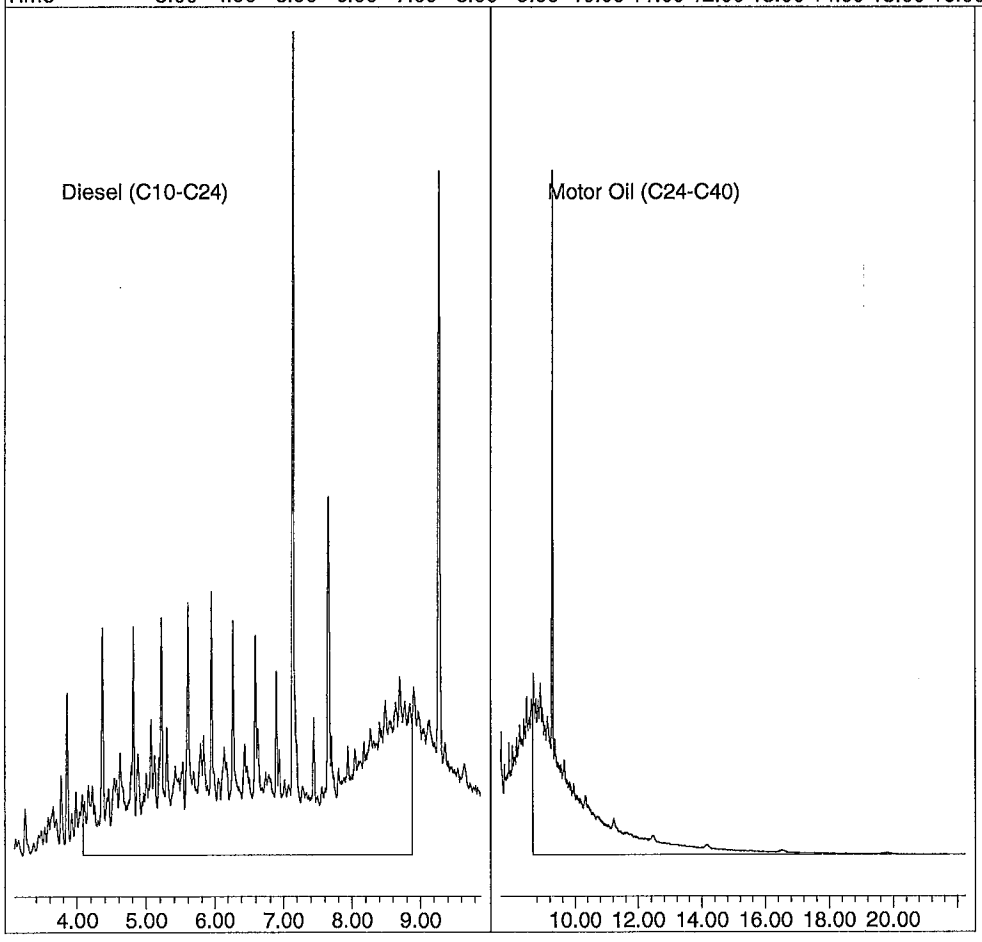
Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Dec 01 08:12:47 2021
Response via : Multiple Level Calibration

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	86493176	13.828 ppb
Surrogate Spike 30.000	Recovery =		46.09%
4) SA Octacosane(S)	9.27	63792007	14.104 ppb
Surrogate Spike 30.000	Recovery =		47.01%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	1477661557	293.575 ppb
2) HBTM Motor Oil (C24-C40)	14.96	885397294	250.962 ppb
Target Compounds			

Data File: G:\APOLLO\DATA\211124\1124047.D
Sample : DMO LVL4 CCV 10/27/21





ORGANICS
Raw Data

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\211124\1124040.D Vial: 40
Acq On : 11-25-21 2:53:06 Operator: KA
Sample : BA46718W01 5/1000 Inst : Apollo
Misc : water Multiplr: 5.00
IntFile : events.e
Quant Time: Nov 29 9:27 2021 Quant Results File: DOC1028.RES

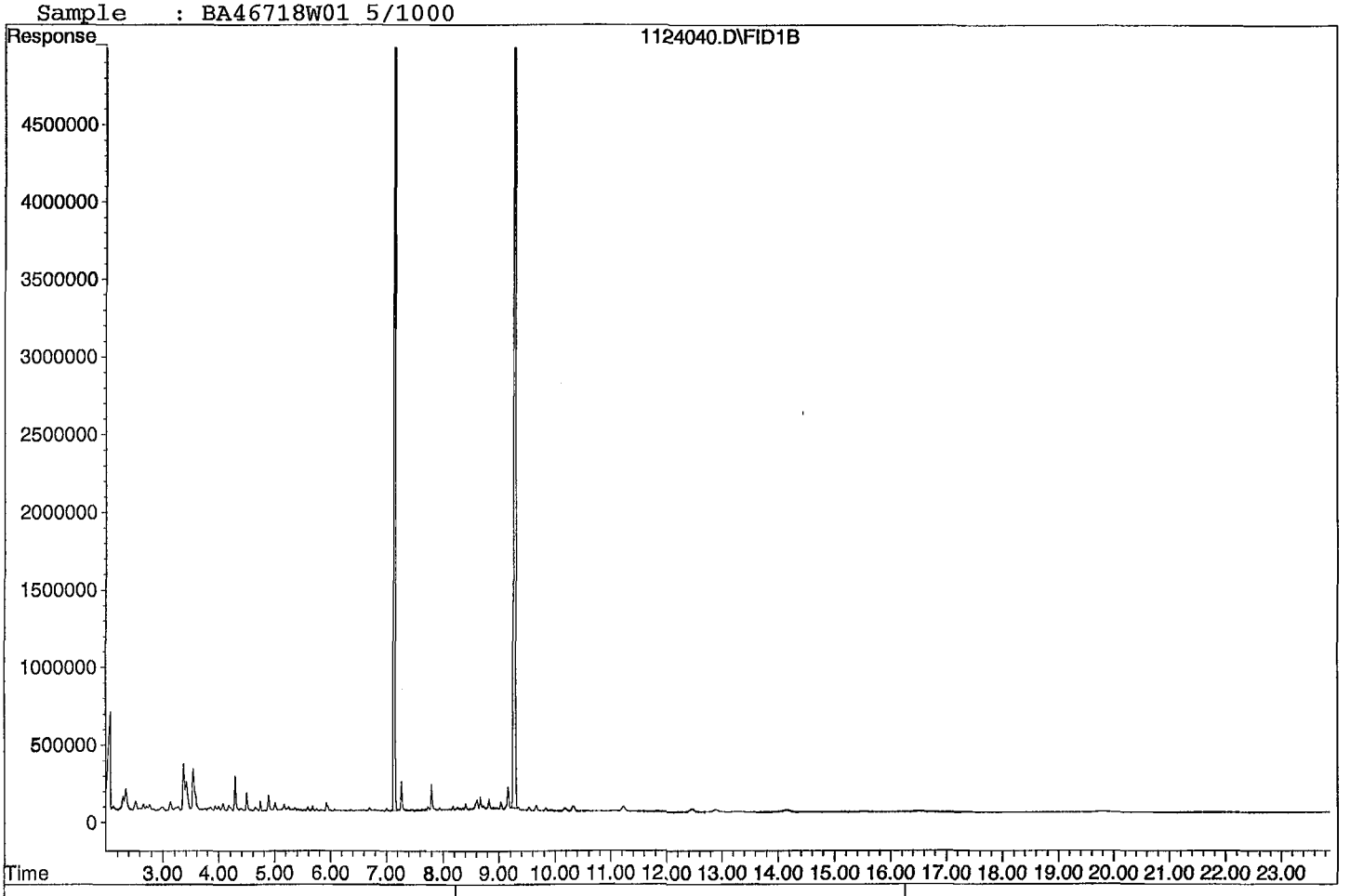
Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Dec 01 08:12:47 2021
Response via : Multiple Level Calibration

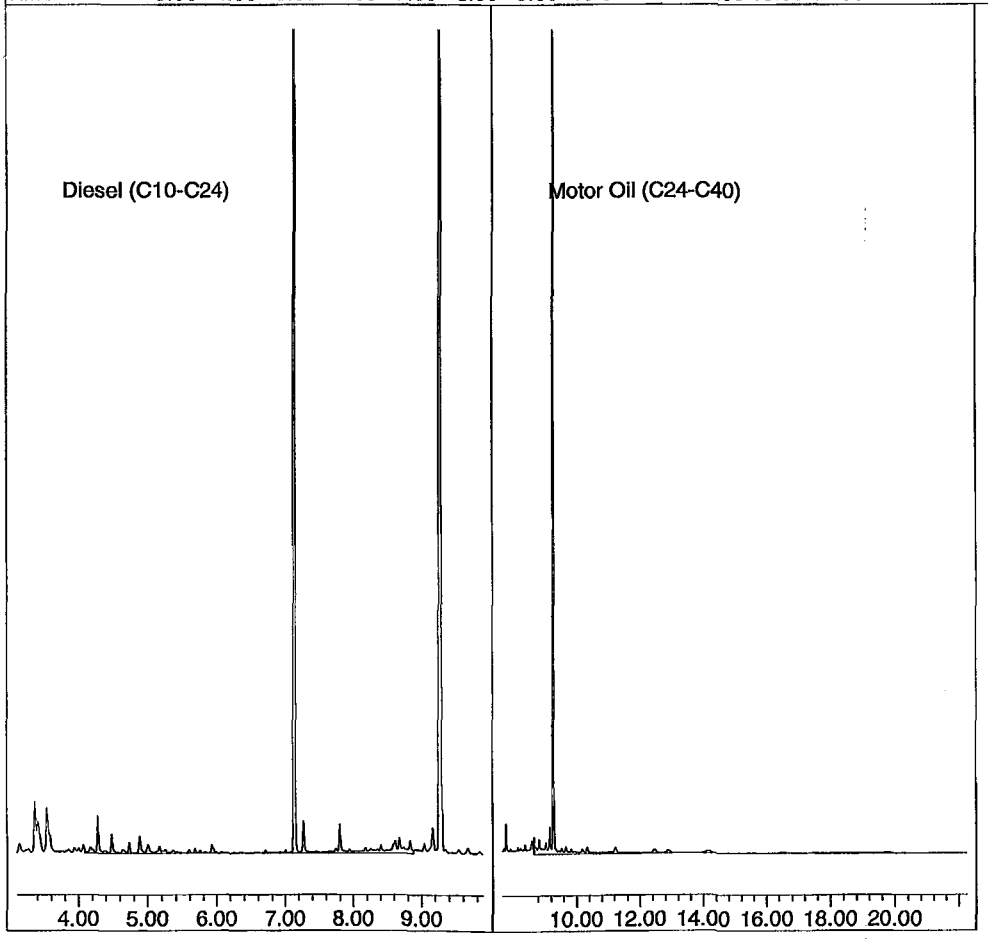
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.14	155157357	124.026 ppb
Surrogate Spike 150.000		Recovery =	82.68%
4) SA Octacosane(S)	9.28	137845773	152.388 ppb
Surrogate Spike 150.000		Recovery =	101.59%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	46563028	46.255 ppb
2) HBTM Motor Oil (C24-C40)	14.96	54323136	29.706 ppb
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\211124\1124040.D
Sample : BA46718W01 5/1000





Quantitation Report (QT Reviewed)

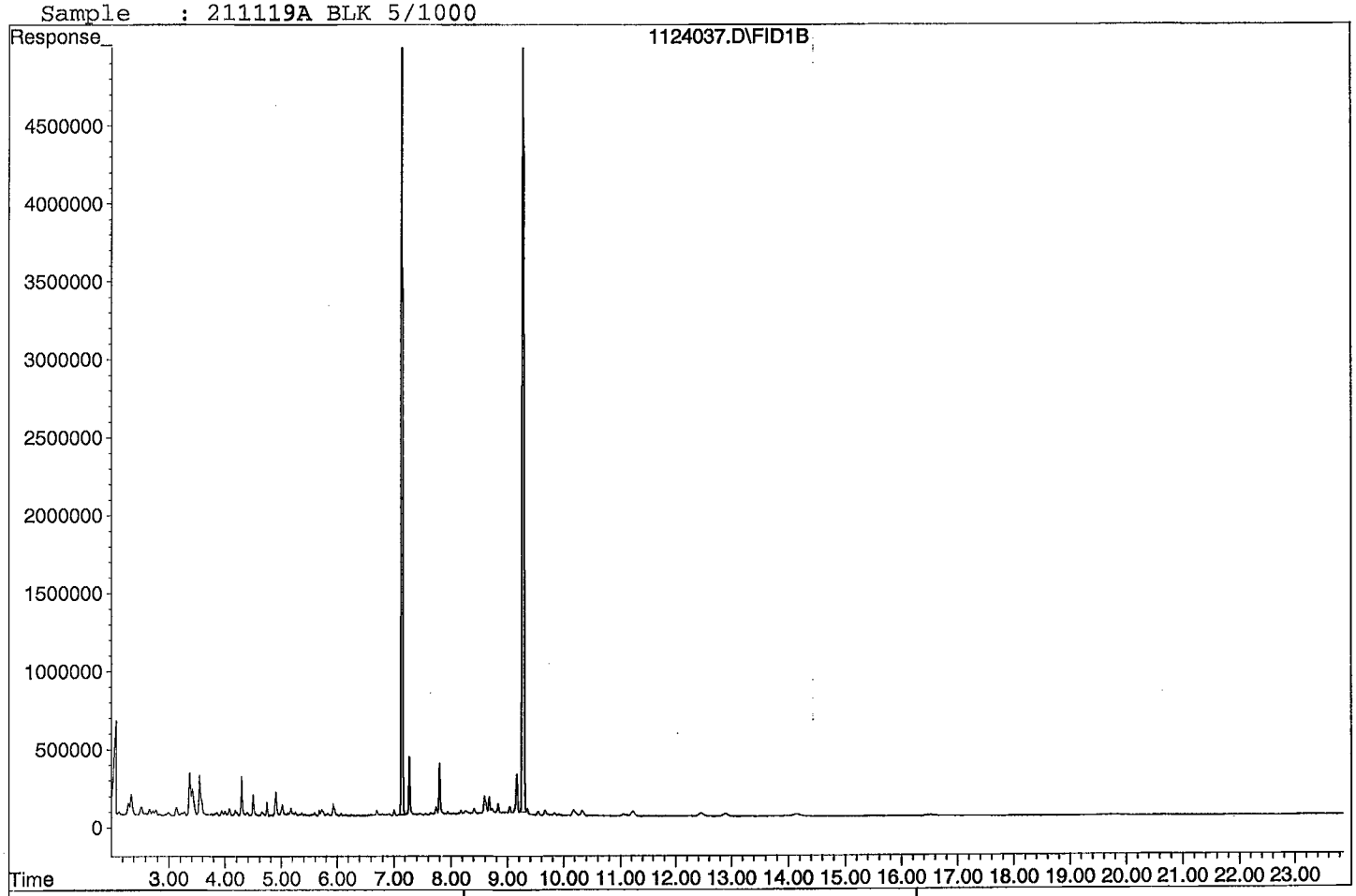
Data File : G:\APOLLO\DATA\211124\1124037.D Vial: 37
Acq On : 11-25-21 1:28:50 Operator: KA
Sample : 211119A BLK 5/1000 Inst : Apollo
Misc : water Multiplr: 5.00
IntFile : events.e
Quant Time: Nov 29 9:25 2021 Quant Results File: DOC1028.RES

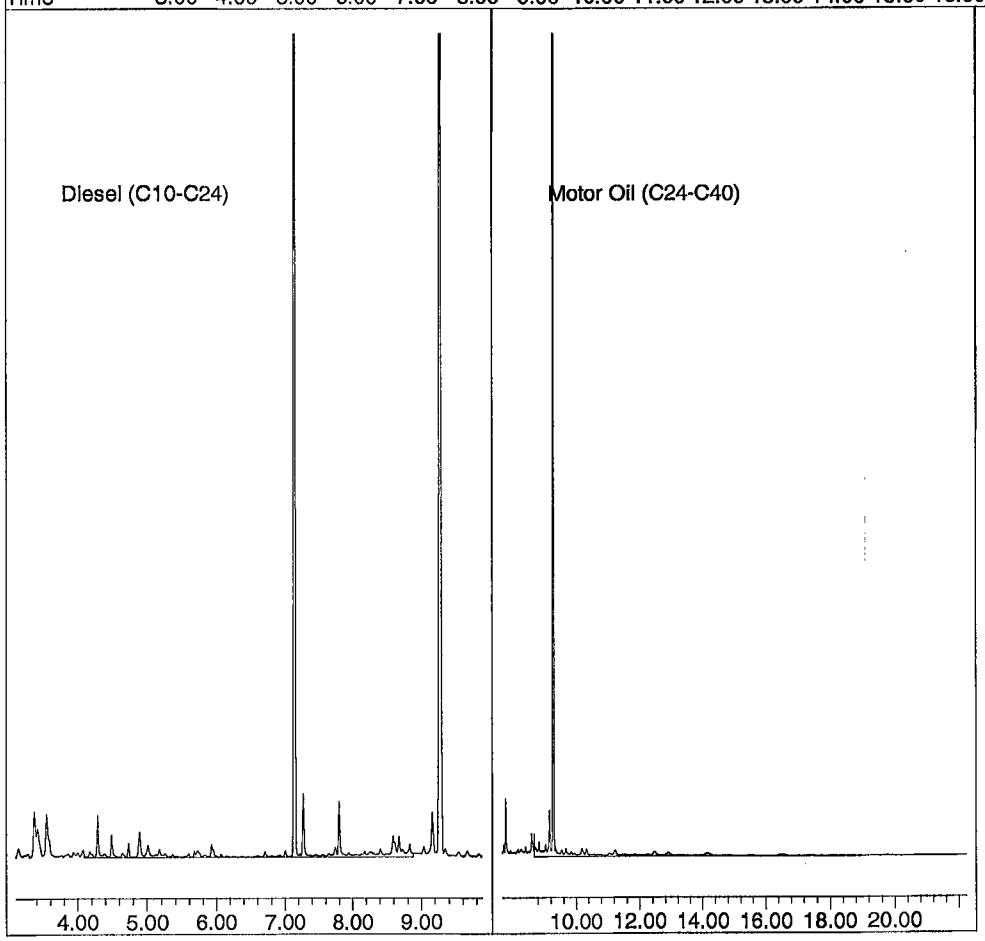
Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Dec 01 08:12:47 2021
Response via : Multiple Level Calibration

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	141177291	112.851 ppb
Surrogate Spike 150.000		Recovery =	75.23%
4) SA Octacosane(S)	9.27	125744856	139.010 ppb
Surrogate Spike 150.000		Recovery =	92.67%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	61656506	61.248 ppb
2) HBTM Motor Oil (C24-C40)	14.96	64623997	44.891 ppb
Target Compounds			

Data File: G:\APOLLO\DATA\211124\1124037.D
Sample : 211119A BLK 5/1000





Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\211124\1124038.D Vial: 38
Acq On : 11-25-21 1:56:56 Operator: KA
Sample : 211119A LCS-1 5/1000 Inst : Apollo
Misc : water Multiplr: 5.00
IntFile : events.e
Quant Time: Nov 29 9:26 2021 Quant Results File: DOC1028.RES

Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Dec 01 08:12:47 2021
Response via : Multiple Level Calibration

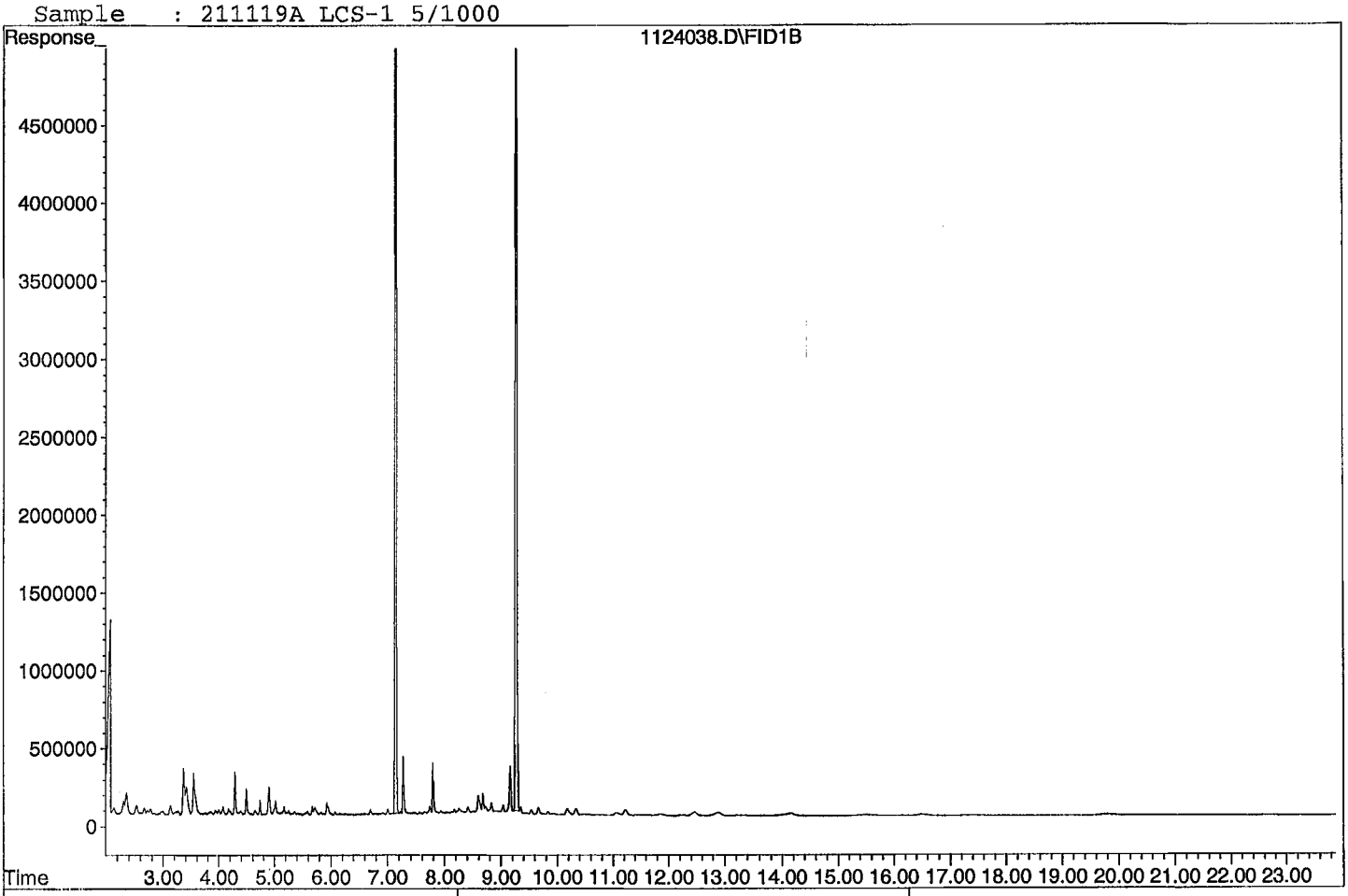
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

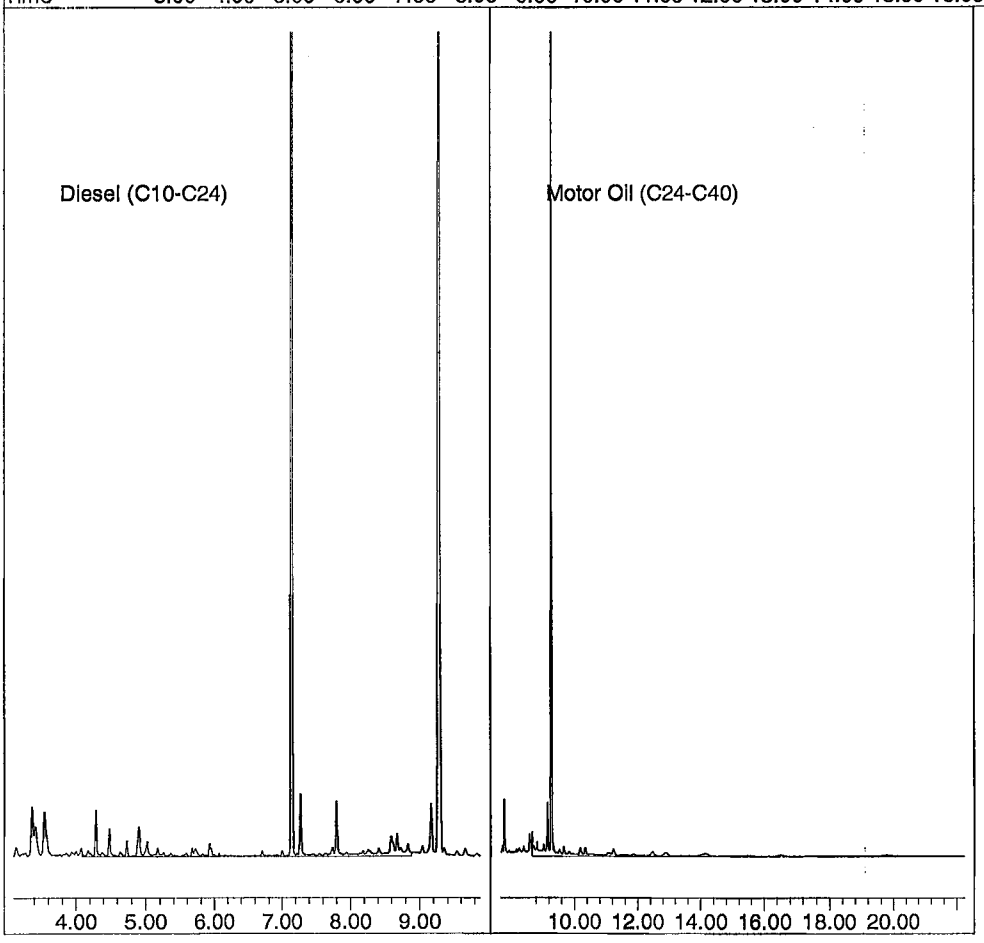
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.14	143783086	114.934 ppb
Surrogate Spike 150.000		Recovery =	76.62%
4) SA Octacosane(S)	9.27	127591994	141.052 ppb
Surrogate Spike 150.000		Recovery =	94.03%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	64612333	64.184 ppb
2) HBTM Motor Oil (C24-C40)	14.96	71829020	55.512 ppb
Target Compounds			

Diesel:

$$\frac{(64612333)(5)}{(25166669)(2)} = \frac{3230616665}{50333338} = \boxed{64.184}$$

Data File: G:\APOLLO\DATA\211124\1124038.D
Sample : 211119A LCS-1 5/1000





Quantitation Report (QT Reviewed)

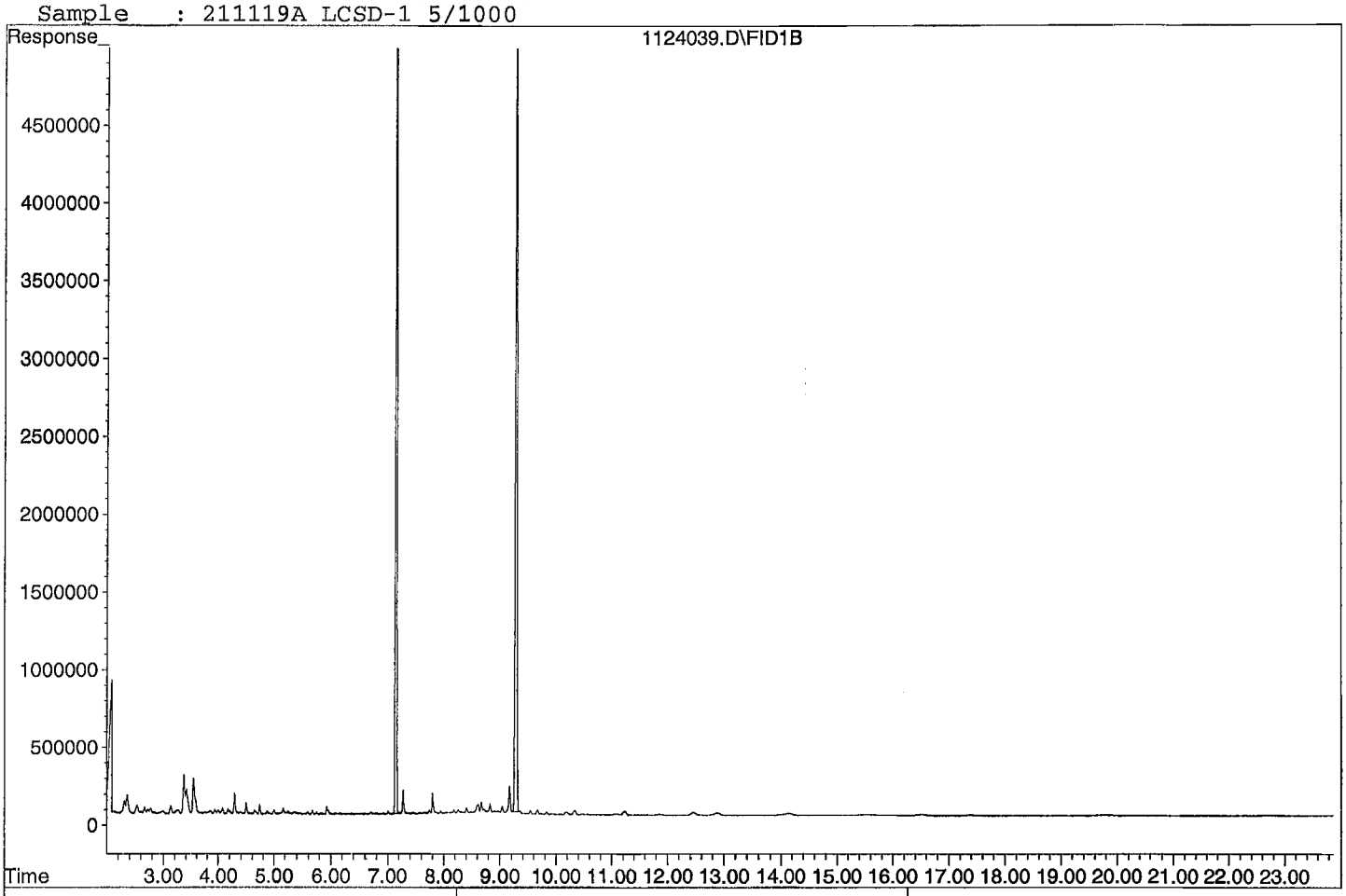
Data File : G:\APOLLO\DATA\211124\1124039.D Vial: 39
Acq On : 11-25-21 2:25:01 Operator: KA
Sample : 211119A LCSD-1 5/1000 Inst : Apollo
Misc : water Multiplr: 5.00
IntFile : events.e
Quant Time: Nov 29 9:26 2021 Quant Results File: DOC1028.RES

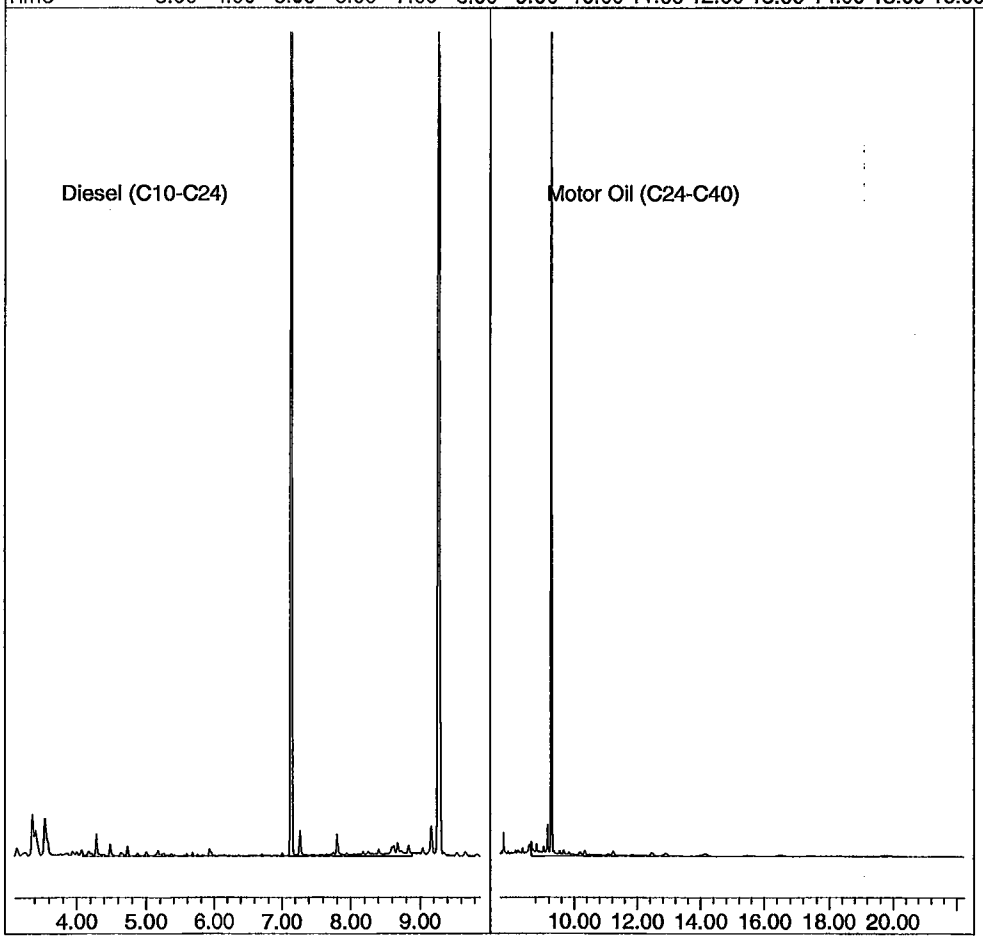
Method : G:\APOLLO\DATA\211028\DOC1028.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Dec 01 08:12:47 2021
Response via : Multiple Level Calibration

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	128726333	102.899 ppb
Surrogate Spike 150.000		Recovery =	68.60%
4) SA Octacosane(S)	9.28	114638494	126.732 ppb
Surrogate Spike 150.000		Recovery =	84.49%
Target Compounds			
1) HATM Diesel (C10-C24)	6.49	35496353	35.261 ppb
2) HBTM Motor Oil (C24-C40)	14.96	49874295	23.148 ppb
Target Compounds			

Data File: G:\APOLLO\DATA\211124\1124039.D
Sample : 211119A LCSD-1 5/1000





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)	Aliquot 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, AO166510-52817 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 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: 10/27/2021
Expires: 5/31/2026
Methylene Chloride Lot No. 61117

Prepared By (Initials): KA

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	**See man. Exp date**	**10/31/2027 12/31/2027 5/31/2026**	1250uL	10mL	MC	250

THC Surrogate

Prepared: 11/3/2021 **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	ALQ-130161	600	**CL16893-52840**	**See ma. Date**	**5/31/2026**	N/A	N/A	N/A	600

Organic Extraction Worksheet

Method	Continuous Liq/Liq TPH-Diesel/MO 3520C	Extraction Set	211119A	Extraction Method	LIQ005	Units	mL

Spiked ID 1		Surrogate ID 1	THC Surrogate 11-3-21 11-3-22		
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:	11/19/21 15:42		
Spiked ID 8		Ext. End Time:	11/20/21 9:51		
		GC Requires Extract By:			

pH1	2	11/19/21 9:22	Water Bath Temp 1 °C	42/41.1 °C
pH2	2	11/19/21 14:22	Water Bath Temp 2 °C	35/36.1
pH3			Water Bath Temp 3 °C	36/35.5 °C

Spiked By: SR,KY **Date** 11/19/2021 **Witnessed By:** AGM,SR **Date** 11/19/2021

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	211119A Blk				0.250	1	1000	5	2	11/19/21 9:25	
						equip	E-HP3 E-WB1				
2	211119A LCS-1				0.250	1	1000	5	2	11/19/21 9:25	
						equip	E-HP4 E-WB2				
3	211119A LCSD-1				0.250	1	1000	5	2	11/19/21 9:25	
						equip	E-HP6 E-WB3				
4	BA46718	BA46718W01			0.250	1	1000	5	2	11/19/21 9:25	98278
						equip	E-HP7 E-WB1				
5	BA46719	BA46719W01			0.250	1	1000	5	2	11/19/21 9:25	98285
						equip	E-HP8 E-WB3				
6	BA46720	BA46720W01			0.250	1	1000	5	2	11/19/21 9:25	98285
						equip	E-HP9 E-WB2				
7	BA46824	BA46824W01			0.250	1	1000	5	2	11/19/21 14:25	98300
						equip	E-HP10 E-WB3				
8	BA46825	BA46825W01			0.250	1	1000	5	2	11/19/21 14:25	98300
						equip	E-HP11 E-WB1				
9	BA46830	BA46830W01			0.250	1	1000	5	2	11/19/21 14:25	98299
						equip	E-HP12 E-WB2				
10	BA46831	BA46831W01			0.250	1	1000	5	2	11/19/21 14:25	98299
						equip	E-HP13 E-WB1				

Solvent and Lot#	
1+1 HCL (5mLs)	60358
PH Strips	HC155968
Dicholormethane	61117
Filter Paper	400189
Sodium Sulfate	2021071206

Extraction COC Transfer	
Extraction lab employee Initials	KY
GC analyst's initials	KA
Date	11/22/21
Time	7:07
Refrigerator	HOBART

	Technician's Initials
Scanned By	SR,KY
Sample Preparation	SR
Extraction	SR
Concentration	AGM

Modified	11/23/2021 7:39:04 AM

Reviewed By: KY **Date** 11/23/2021

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	31	1124031.D	1	DMO LVL4 CCV 10/27/21	water	11-24-21 22:40:14
10	37	1124037.D	5	211119A BLK 5/1000	water	11-25-21 1:28:50
11	38	1124038.D	5	211119A LCS-1 5/1000	water	11-25-21 1:56:56
12	39	1124039.D	5	211119A LCSD-1 5/1000	water	11-25-21 2:25:01
13	40	1124040.D	5	BA46718W01 5/1000	water	11-25-21 2:53:06
14	47	1124047.D	1	DMO LVL4 CCV 10/27/21	water	11-25-21 6:09:46

ORGANICS
Calibration Data

PAH by GCMS SIM
EPA 8270 SIM

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 10/19/2021
Matrix: 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	Napthalene-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																		

Quantitation Report (Not Reviewed)

Data File : M:\KYLO\DATA\211019\1019K002.D Vial: 2
Acq On : 19 Oct 21 14:09 Operator: LS
Sample : 0.1 ug/ml 10/13/21 Inst : KYLO
Misc : 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

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

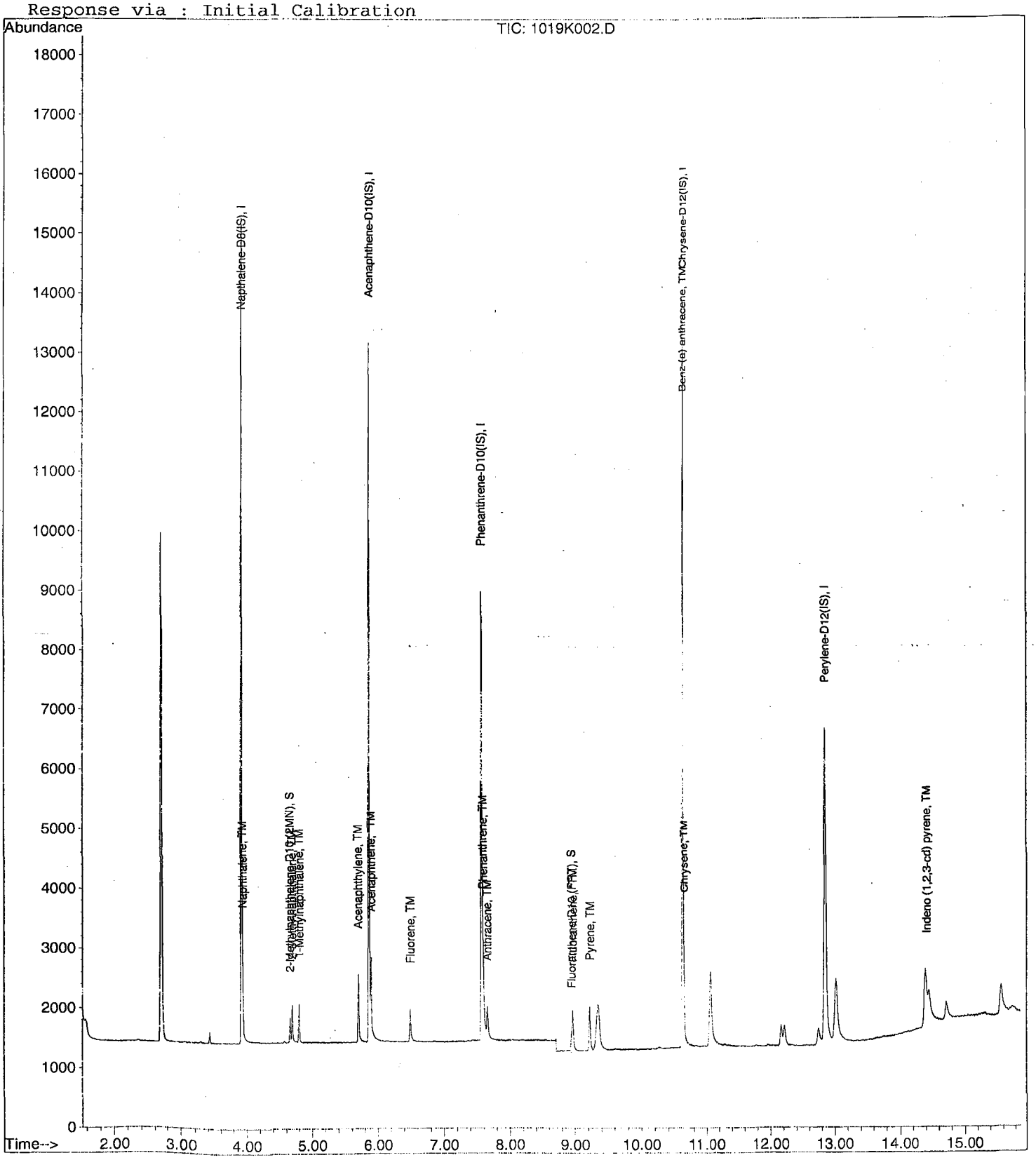
Quantitation Report

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 Vial: 3
Acq On : 19 Oct 21 14:29 Operator: LS
Sample : 0.2 ug/ml 10/13/21 Inst : KYLO
Misc : 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	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

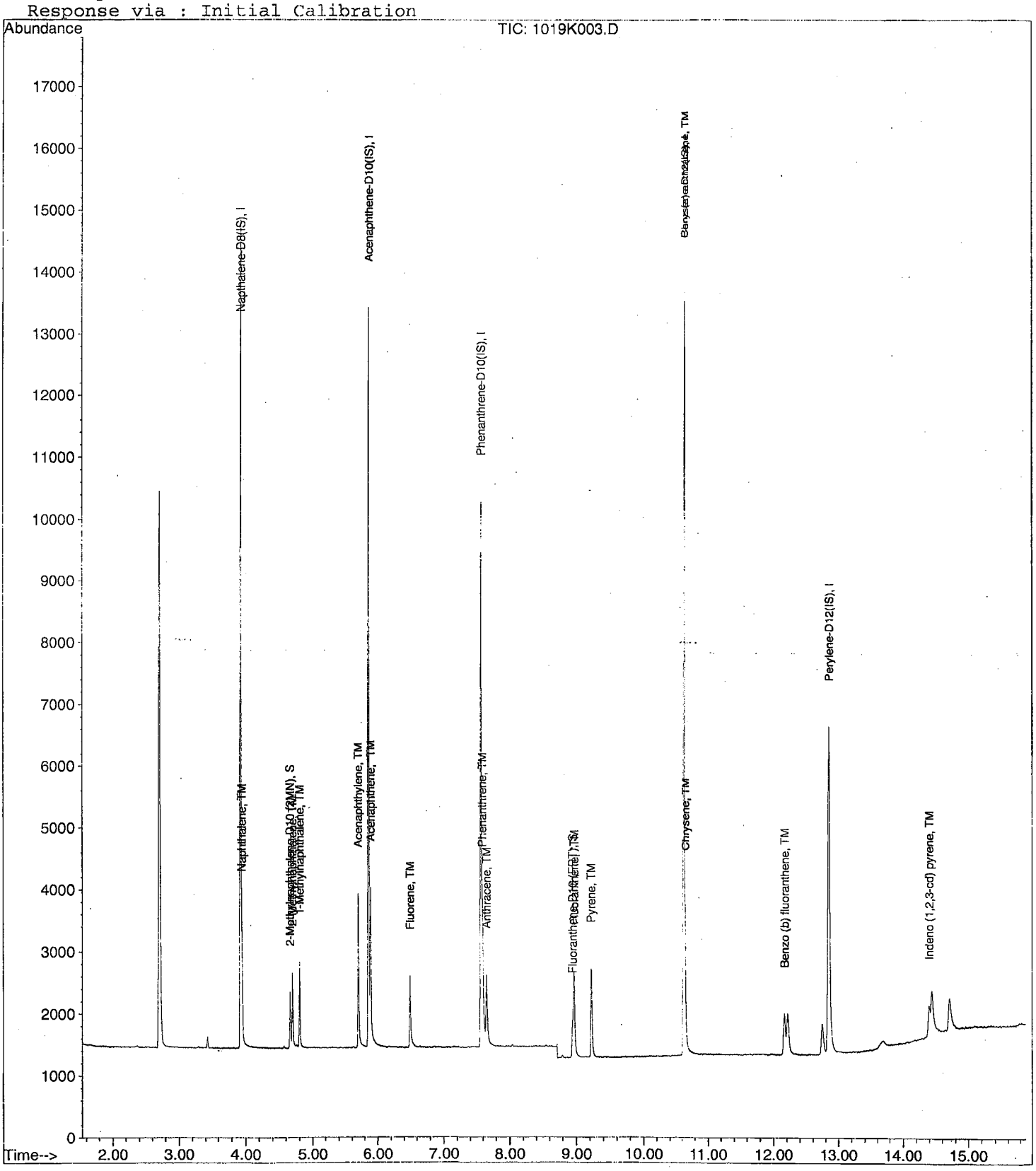
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\KYLO\DATA\211019\1019K003.D Vial: 3
Acq On : 19 Oct 21 14:29 Operator: LS
Sample : 0.2 ug/ml 10/13/21 Inst : KYLO
Misc : 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\1019K004.D Vial: 4
Acq On : 19 Oct 21 14:49 Operator: LS
Sample : 0.5 ug/ml 10/13/21 Inst : KYLO
Misc : 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) Naphthalene	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

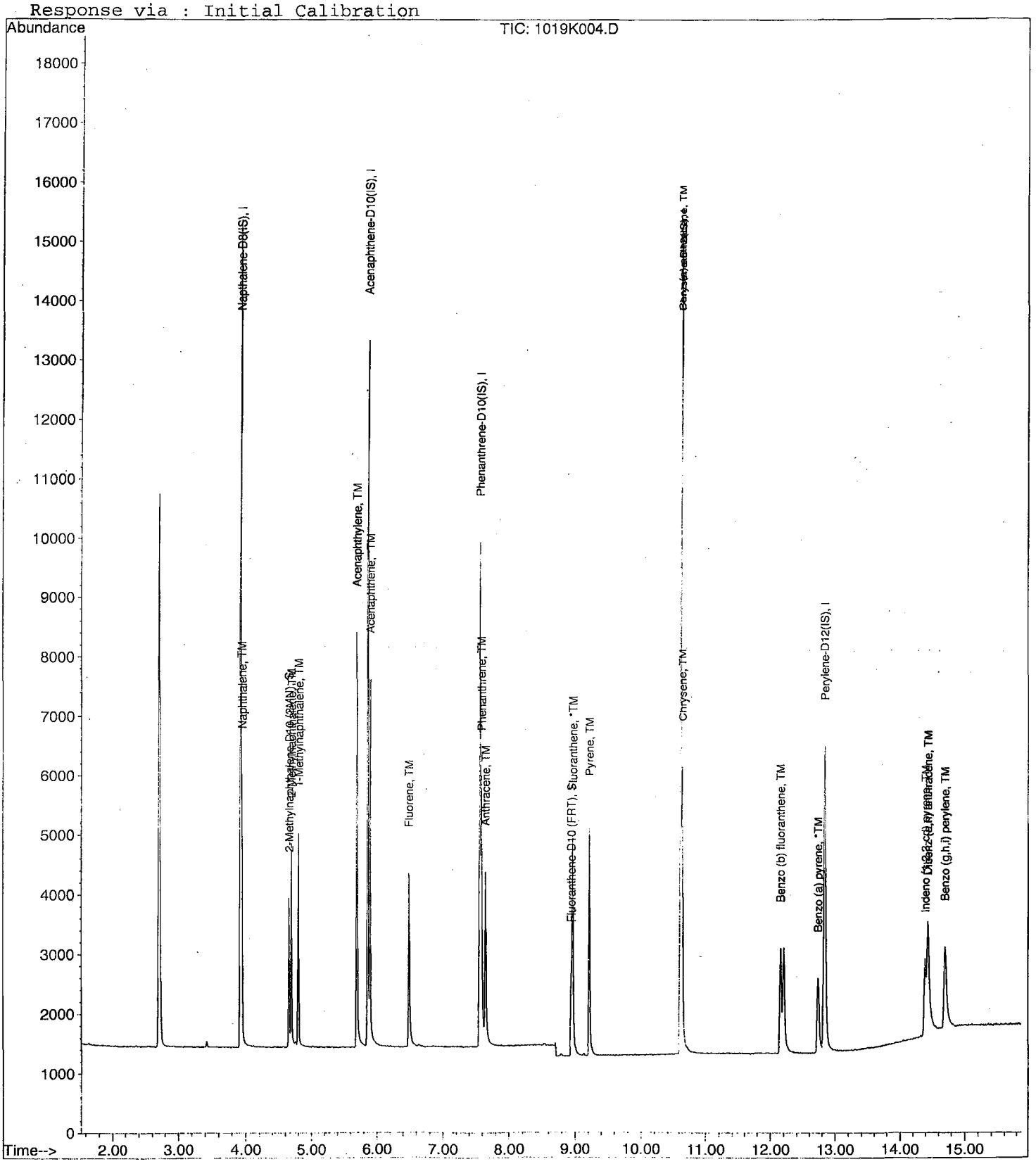
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\KYLO\DATA\211019\1019K004.D Vial: 4
Acq On : 19 Oct 21 14:49 Operator: LS
Sample : 0.5 ug/ml 10/13/21 Inst : KYLO
Misc : 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 Vial: 5
Acq On : 19 Oct 21 15:09 Operator: LS
Sample : 1 ug/ml 10/13/21 Inst : KYLO
Misc : 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

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

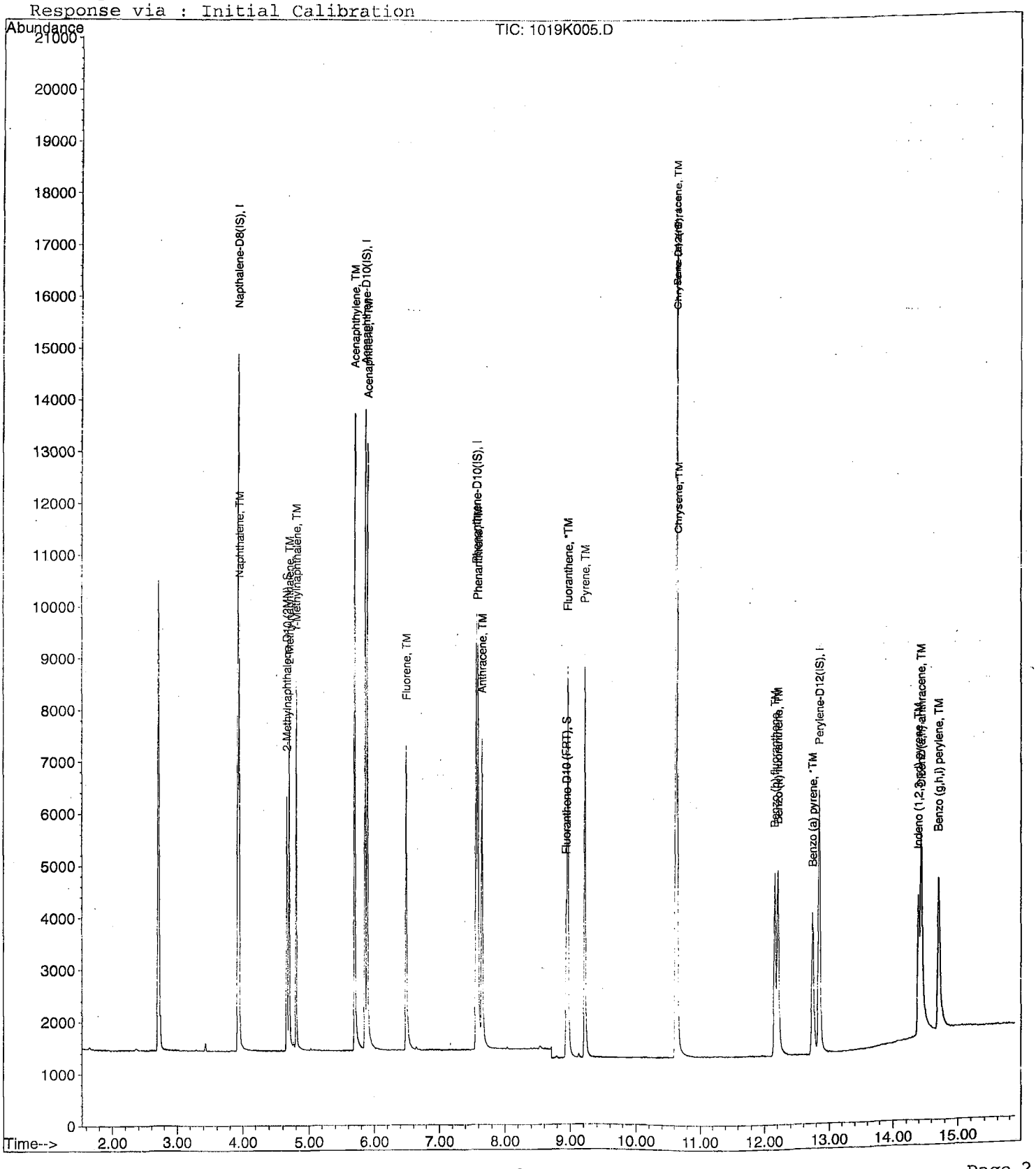
Quantitation Report

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

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 Vial: 6
Acq On : 19 Oct 21 15:29 Operator: LS
Sample : 5 ug/ml 10/13/21 Inst : KYLO
Misc : 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

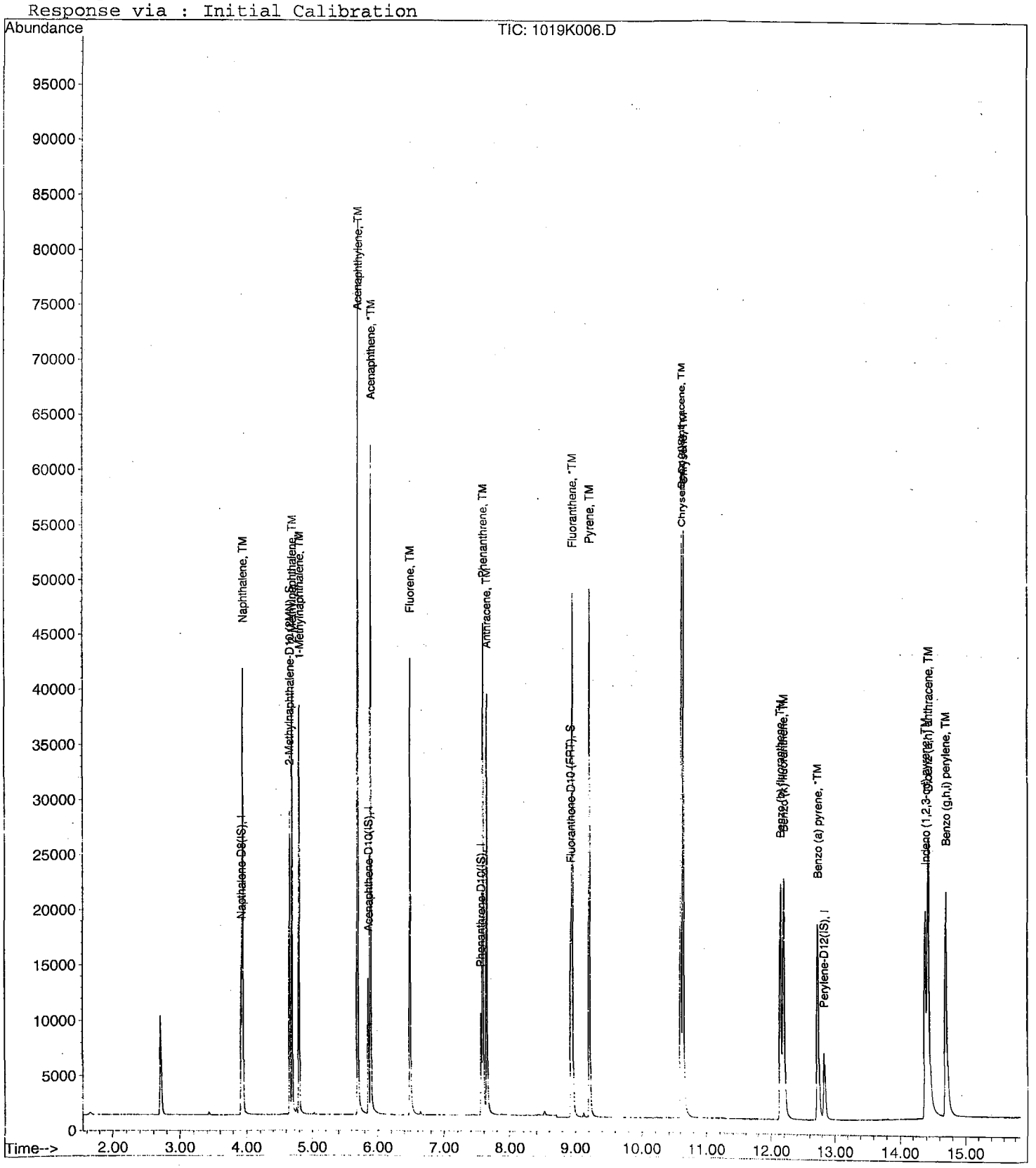
(#) = qualifier out of range (m) = manual integration

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



Quantitation Report (Not Reviewed)

Data File : M:\KYLO\DATA\211019\1019K007.D Vial: 7
Acq On : 19 Oct 21 15:49 Operator: LS
Sample : 10 ug/ml 10/13/21 Inst : KYLO
Misc : 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	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
System Monitoring Compounds						
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%			
Target Compounds						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

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

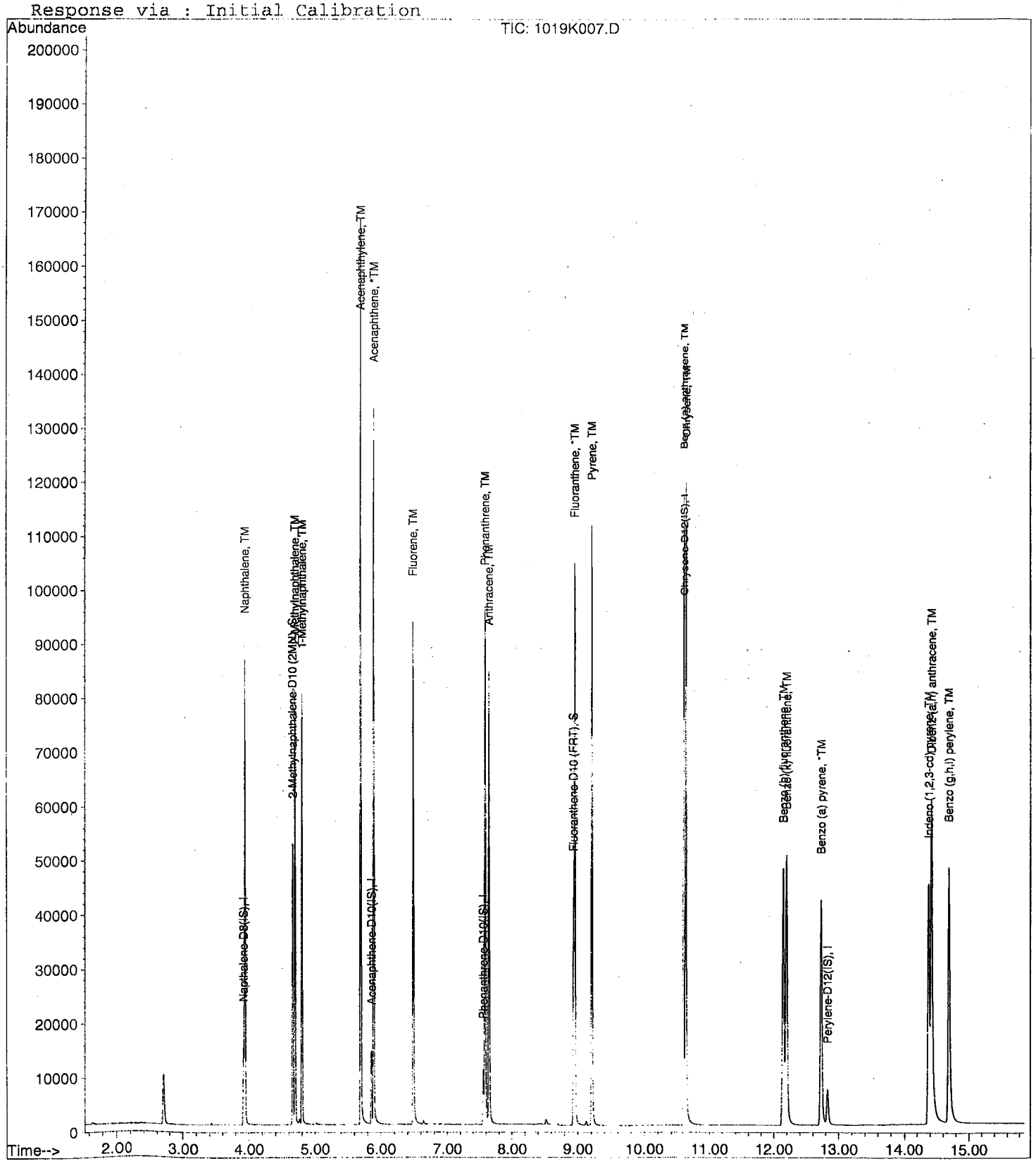
Quantitation Report

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



Quantitation Report (Not Reviewed)

Data File : M:\KYLO\DATA\211019\1019K008.D Vial: 8
Acq On : 19 Oct 21 16:09 Operator: LS
Sample : 50 ug/ml 10/13/21 Inst : KYLO
Misc : 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
System Monitoring Compounds					
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%		
Target Compounds					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

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

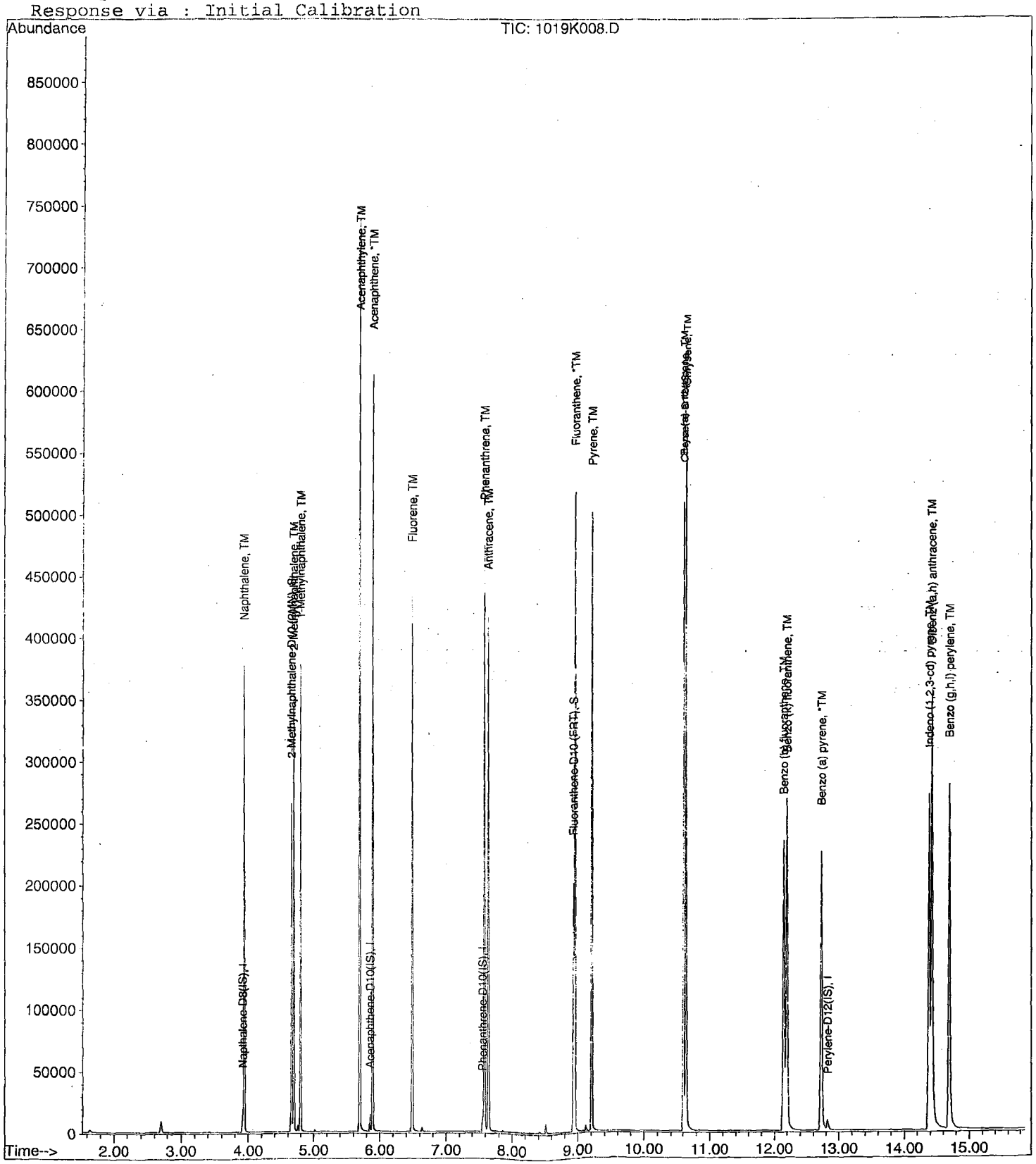
Quantitation Report

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



Quantitation Report (Not Reviewed)

Data File : M:\KYLO\DATA\211019\1019K009.D Vial: 9
Acq On : 19 Oct 21 16:29 Operator: LS
Sample : 100 ug/ml 10/13/21 Inst : KYLO
Misc : 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
System Monitoring Compounds					
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%		
Target Compounds					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

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

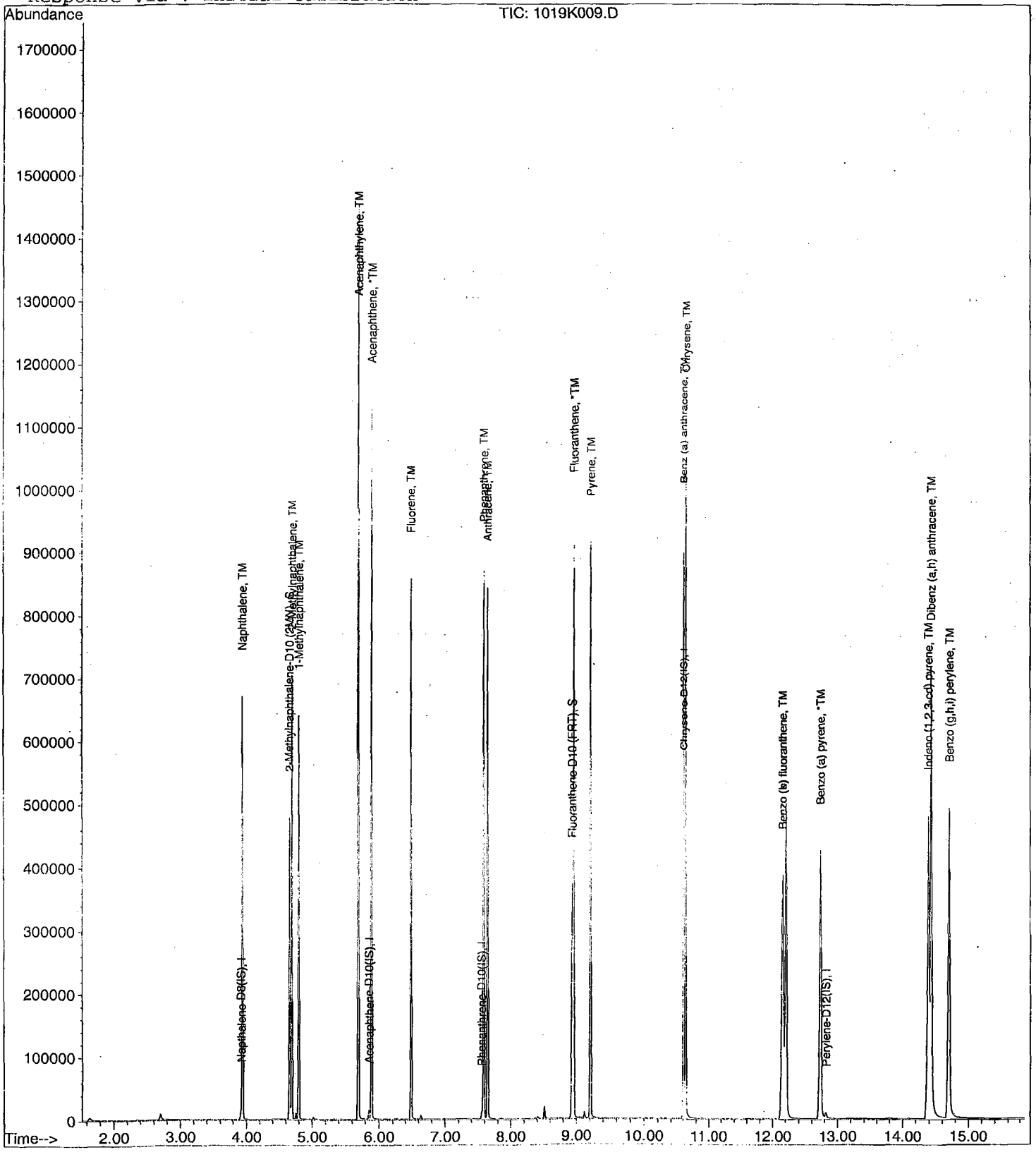
Quantitation Report

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							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
		Average			4.4		

PAH by GCMS SIM
EPA 8270 SIM

Quantitation Report (Not Reviewed)

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

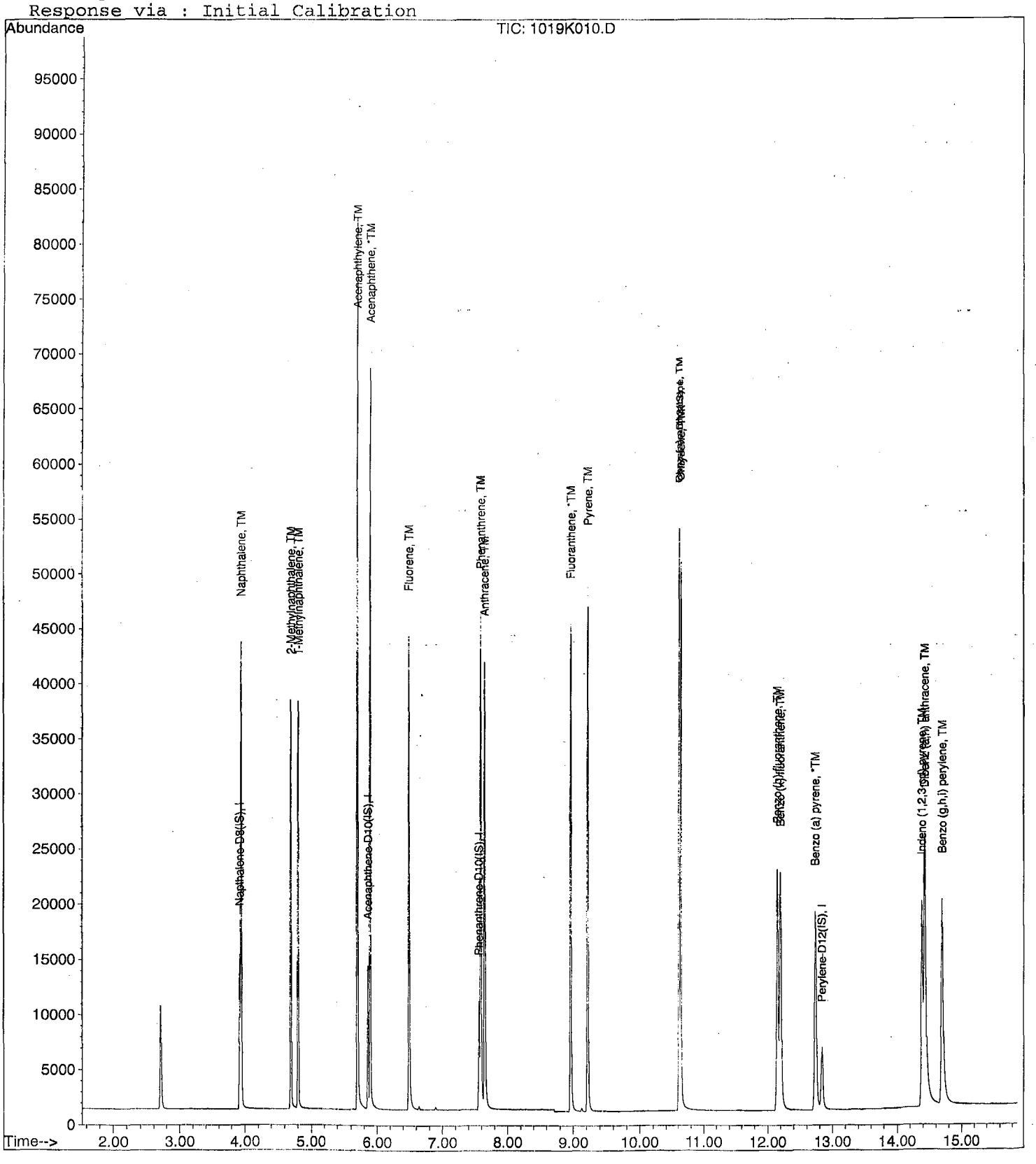
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\KYLO\DATA\211019\1019K010.D Vial: 10
Acq On : 19 Oct 21 16:49 Operator: LS
Sample : SS ug/ml 10/13/21 Inst : KYLO
Misc : 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: 11/24/2021
Instrument: KYLO
Initial Cal. Date: 10/19/2021
Data File: 1124K004.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Napthalene-D8(IS)	ISTD			I	
2	TM	Naphthalene	1.299	1.312	1.1	TM	
3	S	2-Methylnaphthalene-D10 (2MN)	1.277	1.284	0.60	S	
4	TM	2-Methylnaphthalene	0.7611	0.7966	4.7	TM	
5	TM	1-Methylnaphthalene	0.7681	0.8038	4.7	TM	
6	I	Acenaphthene-D10(IS)	ISTD			I	
7	TM	Acenaphthylene	5.176	5.665	9.5	TM	
8	*TM	Acenaphthene	1.371	1.436	4.7	*TM	
9	TM	Fluorene	1.589	1.674	5.4	TM	
10	I	Phenanthrene-D10(IS)	ISTD			I	
11	TM	Phenanthrene	1.376	1.480	7.6	TM	
12	TM	Anthracene	1.299	1.404	8.1	TM	
13	S	Fluoranthene-D10 (FRT)	1.949	2.040	4.7	S	
14	*TM	Fluoranthene	2.137	2.394	12	*TM	
15	I	Chrysene-D12(IS)	ISTD			I	
16	TM	Pyrene	1.914	1.987	3.8	TM	
17	TM	Benz (a) anthracene	1.401	1.481	5.7	TM	
18	TM	Chrysene	1.558	1.557	0.09	TM	
19	TML	Indeno (1,2,3-cd) pyrene	1.272	1.175	7.7	TML	4.2
20	I	Perylene-D12(IS)	ISTD			I	
21	TM	Benzo (b) fluoranthene	1.408	1.535	9.0	TM	
22	TM	Benzo (k) fluoranthene	1.610	1.630	1.2	TM	
23	*TM	Benzo (a) pyrene	1.341	1.498	12	*TM	
24	TM	Dibenz (a,h) anthracene	1.326	1.368	3.2	TM	
25	TM	Benzo (g,h,i) perylene	1.443	1.492	3.4	TM	
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			5.5		

Quantitation Report (Not Reviewed)

Data File : M:\KYLO\DATA\211124\1124K004.D Vial: 4
Acq On : 24 Nov 21 12:51 Operator: LS
Sample : 5 ug/ml 10/19/21 (1) Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Nov 24 13:07 2021 Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Nov 22 09:54:05 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	14328	2.50000 ppb	0.00
6) Acenaphthene-D10(IS)	5.79	164	7074	2.50000 ppb	-0.07
10) Phenanthrene-D10(IS)	7.49	188	10452	2.50000 ppb	-0.06
15) Chrysene-D12(IS)	10.55	240	12916	2.50000 ppb	-0.07
20) Perylene-D12(IS)	12.71	264	11856	2.50000 ppb	-0.12
System Monitoring Compounds					
3) 2-Methylnaphthalene-D10 (2	4.59	152	18402	2.51507 ppb	0.00
Spiked Amount 5.000			Recovery	= 50.300%	
13) Fluoranthene-D10 (FRT)	8.86	212	21327	2.61752 ppb	-0.07
Spiked Amount 5.000			Recovery	= 52.360%	
Target Compounds					Qvalue
2) Naphthalene	3.88	128	37605	5.05257 ppb	100
4) 2-Methylnaphthalene	4.63	142	22826	5.23293 ppb #	65
5) 1-Methylnaphthalene	4.74	142	23035	5.23259 ppb	86
7) Acenaphthylene	5.63	152	80152	5.47298 ppb	99
8) Acenaphthene	5.83	154	20315	5.23717 ppb	99
9) Fluorene	6.42	166	23684	5.26894 ppb	98
11) Phenanthrene	7.52	178	30936	5.37831 ppb	100
12) Anthracene	7.58	178	29352	5.40275 ppb	99
14) Fluoranthene	8.89	202	50053	5.60153 ppb	98
16) Pyrene	9.14	202	51316	5.18911 ppb	98
17) Benz (a) anthracene	10.54	228	38259	5.28487 ppb	99
18) Chrysene	10.58	228	40208	4.99567 ppb	98
19) Indeno (1,2,3-cd) pyrene	14.28	276	30346	5.21144 ppb	92
21) Benzo (b) fluoranthene	12.03	252	36390	5.45004 ppb	98
22) Benzo (k) fluoranthene	12.08	252	38649	5.06178 ppb	99
23) Benzo (a) pyrene	12.60	252	35529	5.58662 ppb	98
24) Dibenz (a,h) anthracene	14.32	278	32444	5.15944 ppb	97
25) Benzo (g,h,i) perylene	14.59	276	35377	5.16953 ppb	98

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

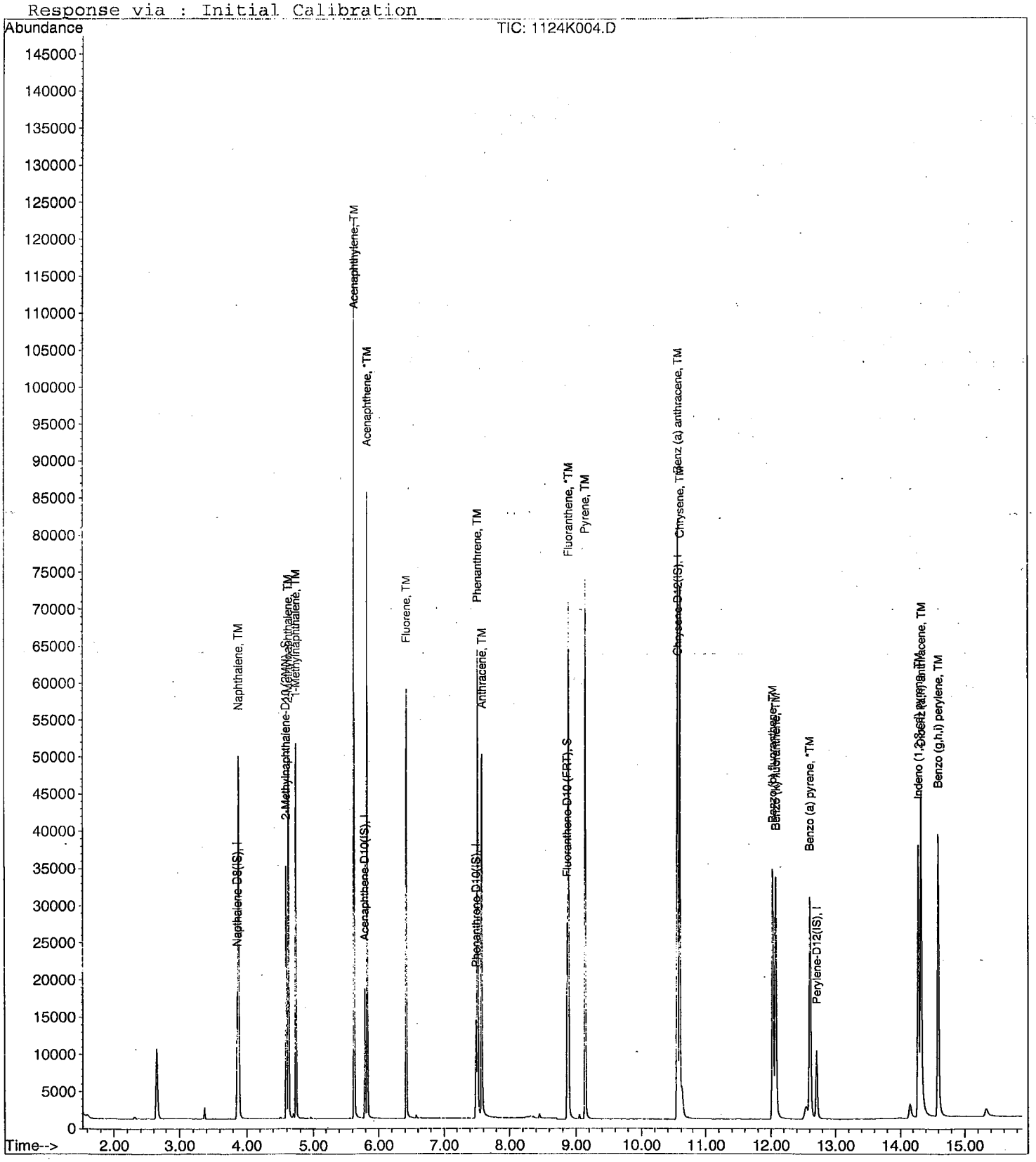
Quantitation Report

Data File : M:\KYLO\DATA\211124\1124K004.D
Acq On : 24 Nov 21 12:51
Sample : 5 ug/ml 10/19/21 (1)
Misc :

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

Quant Time: Nov 24 13:07 2021 Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Nov 22 09:54:05 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: 11/25/2021
Instrument: KYLO
Initial Cal. Date: 10/19/2021
Data File: 1124K040.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Napthalene-D8(IS)	ISTD			I	
2	TM	Naphthalene	1.299	1.290	0.64	TM	
3	S	2-Methylnaphthalene-D10 (2MN)	1.277	1.270	0.52	S	
4	TM	2-Methylnaphthalene	0.7611	0.7863	3.3	TM	
5	TM	1-Methylnaphthalene	0.7681	0.7862	2.4	TM	
6	I	Acenaphthene-D10(IS)	ISTD			I	
7	TM	Acenaphthylene	5.176	5.508	6.4	TM	
8	*TM	Acenaphthene	1.371	1.410	2.9	*TM	
9	TM	Fluorene	1.589	1.686	6.1	TM	
10	I	Phenanthrene-D10(IS)	ISTD			I	
11	TM	Phenanthrene	1.376	1.446	5.1	TM	
12	TM	Anthracene	1.299	1.381	6.3	TM	
13	S	Fluoranthene-D10 (FRT)	1.949	2.123	9.0	S	
14	*TM	Fluoranthene	2.137	2.380	11	*TM	
15	I	Chrysene-D12(IS)	ISTD			I	
16	TM	Pyrene	1.914	1.953	2.0	TM	
17	TM	Benz (a) anthracene	1.401	1.462	4.4	TM	
18	TM	Chrysene	1.558	1.545	0.84	TM	
19	TML	Indeno (1,2,3-cd) pyrene	1.272	1.113	13	TML	1.0
20	I	Perylene-D12(IS)	ISTD			I	
21	TM	Benzo (b) fluoranthene	1.408	1.547	9.8	TM	
22	TM	Benzo (k) fluoranthene	1.610	1.655	2.8	TM	
23	*TM	Benzo (a) pyrene	1.341	1.421	5.9	*TM	
24	TM	Dibenz (a,h) anthracene	1.326	1.360	2.6	TM	
25	TM	Benzo (g,h,i) perylene	1.443	1.463	1.4	TM	
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			4.8		

Quantitation Report (QT Reviewed)

Data File : M:\KYLO\DATA\211124\1124K040.D Vial: 40
Acq On : 25 Nov 21 00:49 Operator: LS
Sample : 5 ug/ml 10/13/21 (2) Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Nov 29 9:02 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

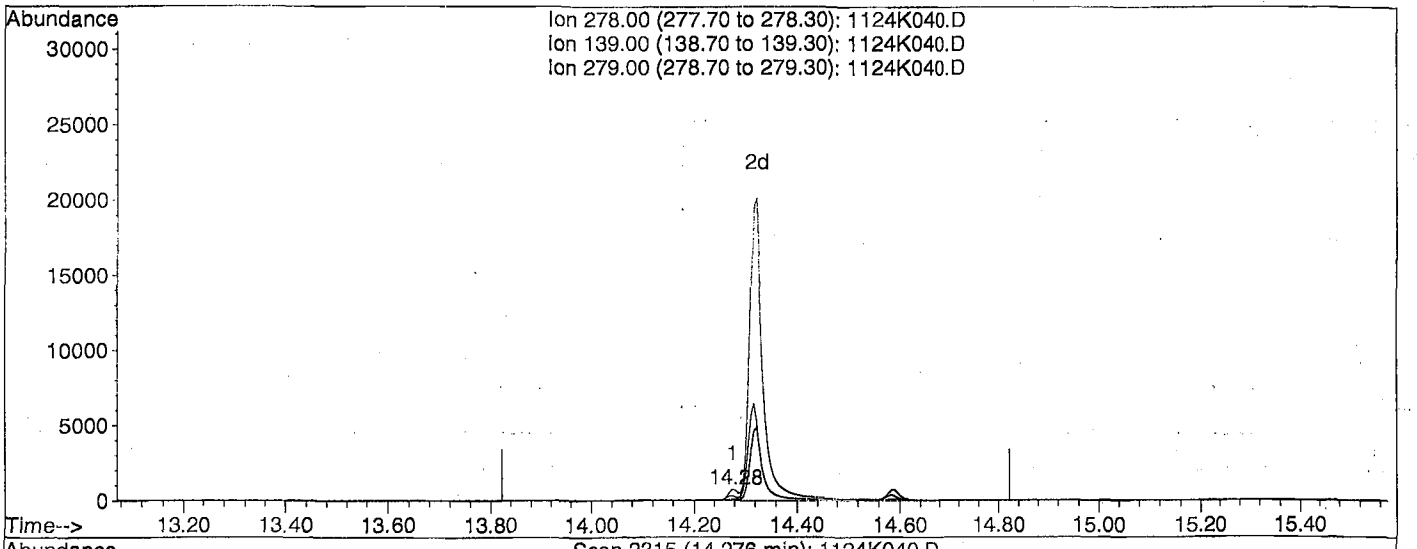
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	3.86	136	15372	2.50000 ppb	0.00
6) Acenaphthene-D10(IS)	5.79	164	7609	2.50000 ppb	-0.07
10) Phenanthrene-D10(IS)	7.49	188	11755	2.50000 ppb	-0.07
15) Chrysene-D12(IS)	10.54	240	14546	2.50000 ppb	-0.07
20) Perylene-D12(IS)	12.71	264	12996	2.50000 ppb	-0.13
System Monitoring Compounds					
3) 2-Methylnaphthalene-D10 (2	4.59	152	19522	2.48694 ppb	0.00
Spiked Amount 5.000			Recovery = 49.740%		
13) Fluoranthene-D10 (FRT)	8.86	212	24961	2.72395 ppb	-0.07
Spiked Amount 5.000			Recovery = 54.480%		
Target Compounds					Qvalue
2) Naphthalene	3.89	128	39671	4.96815 ppb	99
4) 2-Methylnaphthalene	4.63	142	24173	5.16537 ppb #	65
5) 1-Methylnaphthalene	4.74	142	24170	5.11753 ppb	86
7) Acenaphthylene	5.63	152	83820	5.32102 ppb	99
8) Acenaphthene	5.82	154	21461	5.14360 ppb	96
9) Fluorene	6.42	166	25659	5.30696 ppb	100
11) Phenanthrene	7.52	178	33994	5.25486 ppb	99
12) Anthracene	7.57	178	32460	5.31254 ppb	100
14) Fluoranthene	8.89	202	55963	5.56870 ppb	100
16) Pyrene	9.14	202	56816	5.10147 ppb	99
17) Benz (a) anthracene	10.53	228	42543	5.21811 ppb	99
18) Chrysene	10.57	228	44940	4.95791 ppb	99
19) Indeno (1,2,3-cd) pyrene	14.28	276	32381	4.94774 ppb	94
21) Benzo (b) fluoranthene	12.03	252	40197	5.49212 ppb	100
22) Benzo (k) fluoranthene	12.07	252	43010	5.13882 ppb	98
23) Benzo (a) pyrene	12.60	252	36928	5.29725 ppb	98
24) Dibenz (a,h) anthracene	14.32	278	35347m	5.12802 ppb	73
25) Benzo (g,h,i) perylene	14.59	276	38021	5.06853 ppb	98

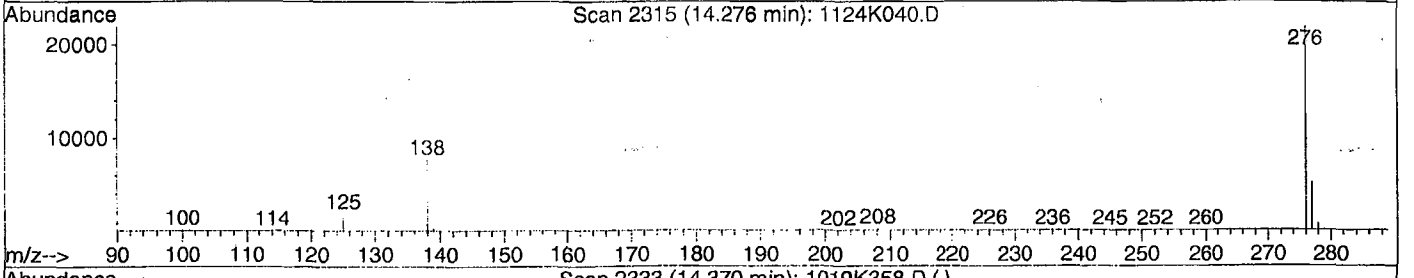
(#) = qualifier out of range (m) = manual integration

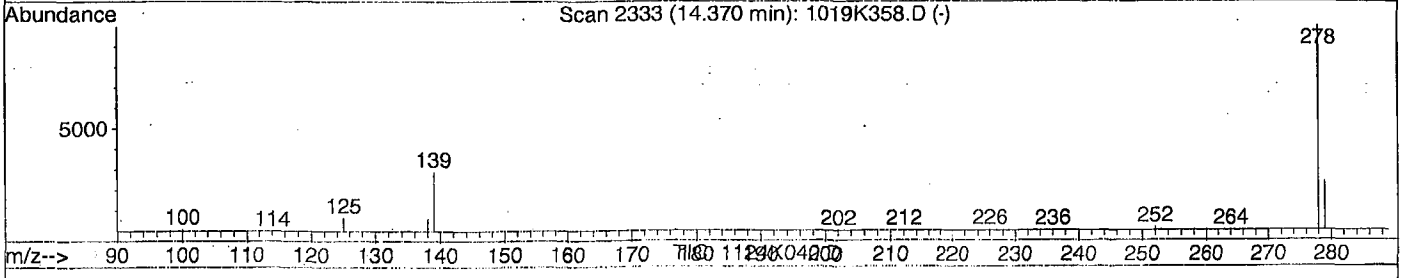
Quantitation Report

Data File : M:\KYLO\DATA\211124\1124K040.D Vial: 40
Acq On : 25 Nov 21 00:49 Operator: LS
Sample : 5 ug/ml 10/13/21 (2) Inst : KYLO
Misc : Multiplr: 1.00
Quant Time: Nov 29 9:02 2021 Quant Results File: temp.res

Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Nov 29 09:02:10 2021
Response via : Multiple Level Calibration







(24) Dibenz (a,h) anthracene (TM)

14.28min 0.1522ppb

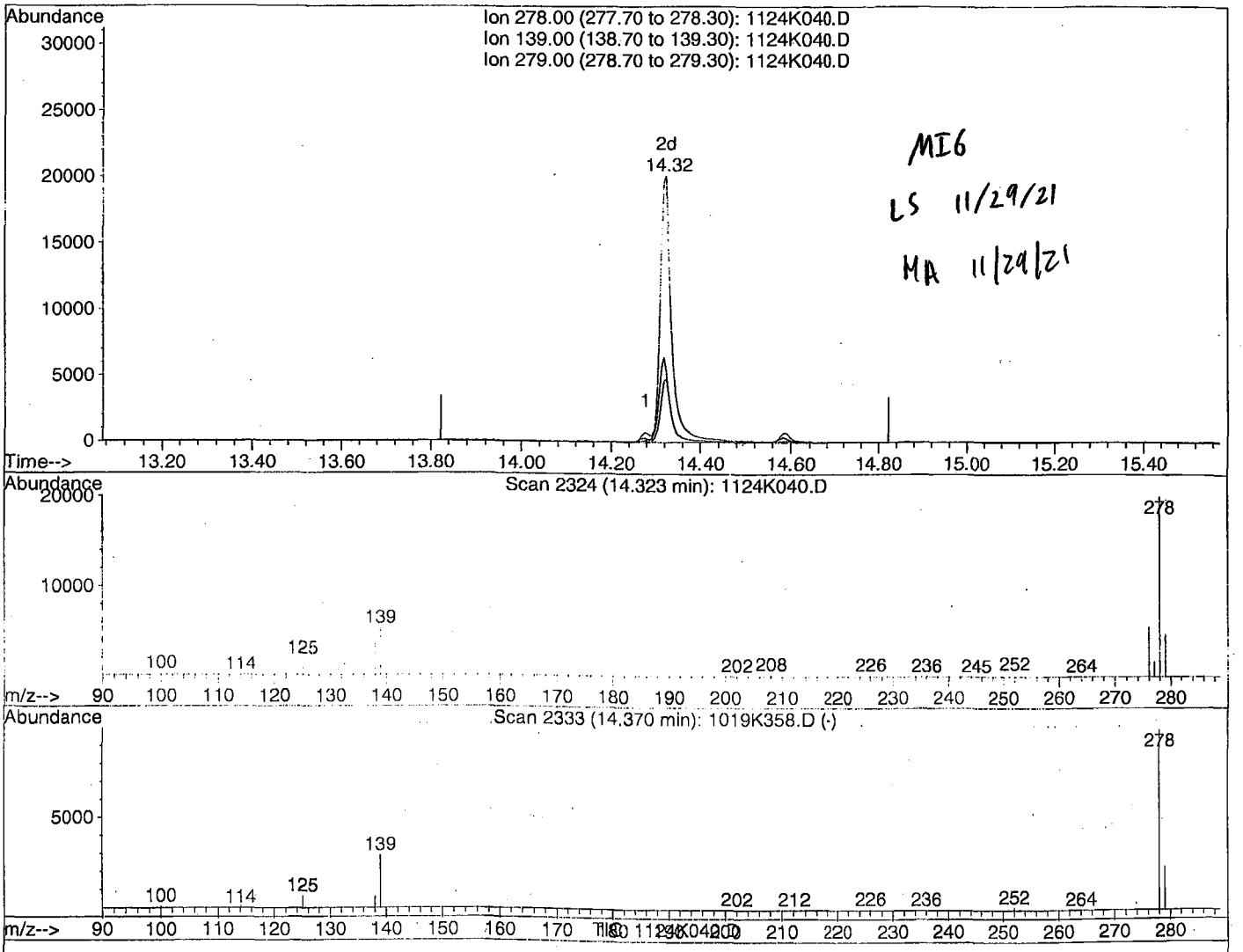
response 1049

Ion	Exp%	Act%
278.00	100	100
139.00	26.30	37.87#
279.00	24.00	8.56#
0.00	0.00	0.00

Quantitation Report

Data File : M:\KYLO\DATA\211124\1124K040.D Vial: 40
Acq On : 25 Nov 21 00:49 Operator: LS
Sample : 5 ug/ml 10/13/21 (2) Inst : KYLO
Misc : Multiplr: 1.00
Quant Time: Nov 29 9:02 2021 Quant Results File: temp.res

Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Mon Nov 29 09:02:10 2021
Response via : Multiple Level Calibration



MI6
LS 11/29/21
MA 11/29/21

(24) Dibenz (a,h) anthracene (TM)

14.32min 5.1280ppb m

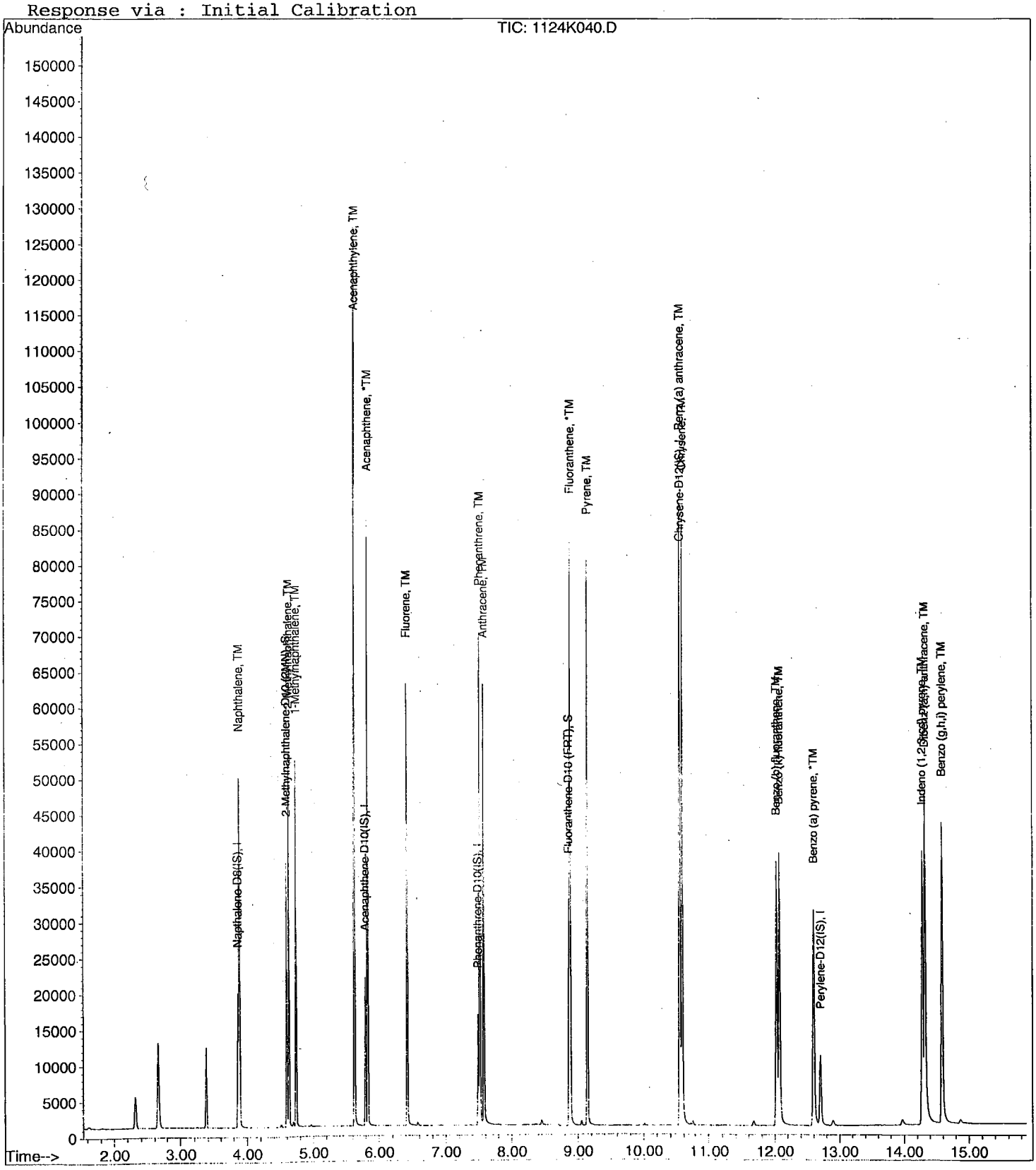
response 35347

Ion	Exp%	Act%
278.00	100	100
139.00	26.30	26.30
279.00	24.00	23.99
0.00	0.00	0.00

Data File : M:\KYLO\DATA\211124\1124K040.D Vial: 40
Acq On : 25 Nov 21 00:49 Operator: LS
Sample : 5 ug/ml 10/13/21 (2) Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Nov 29 9:02 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



ORGANICS
Raw Data

Quantitation Report (QT Reviewed)

Data File : M:\KYLO\DATA\211124\1124K029.D Vial: 29
Acq On : 24 Nov 21 21:10 Operator: LS
Sample : BA46714W08 1/1000 Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Nov 29 9:42 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	13057	2.50	ppb	0.00
6) Acenaphthene-D10(IS)	5.79	164	6274	2.50	ppb	-0.07
10) Phenanthrene-D10(IS)	7.49	188	9276	2.50	ppb	-0.07
15) Chrysene-D12(IS)	10.54	240	11021	2.50	ppb	-0.07
20) Perylene-D12(IS)	12.71	264	10288	2.50	ppb	-0.13
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	4.59	152	24312	3.65	ppb	0.00
Spiked Amount 5.000			Recovery = 72.920%			
13) Fluoranthene-D10 (FRT)	8.86	212	30486	4.22	ppb	-0.07
Spiked Amount 5.000			Recovery = 84.320%			

Target Compounds Qvalue

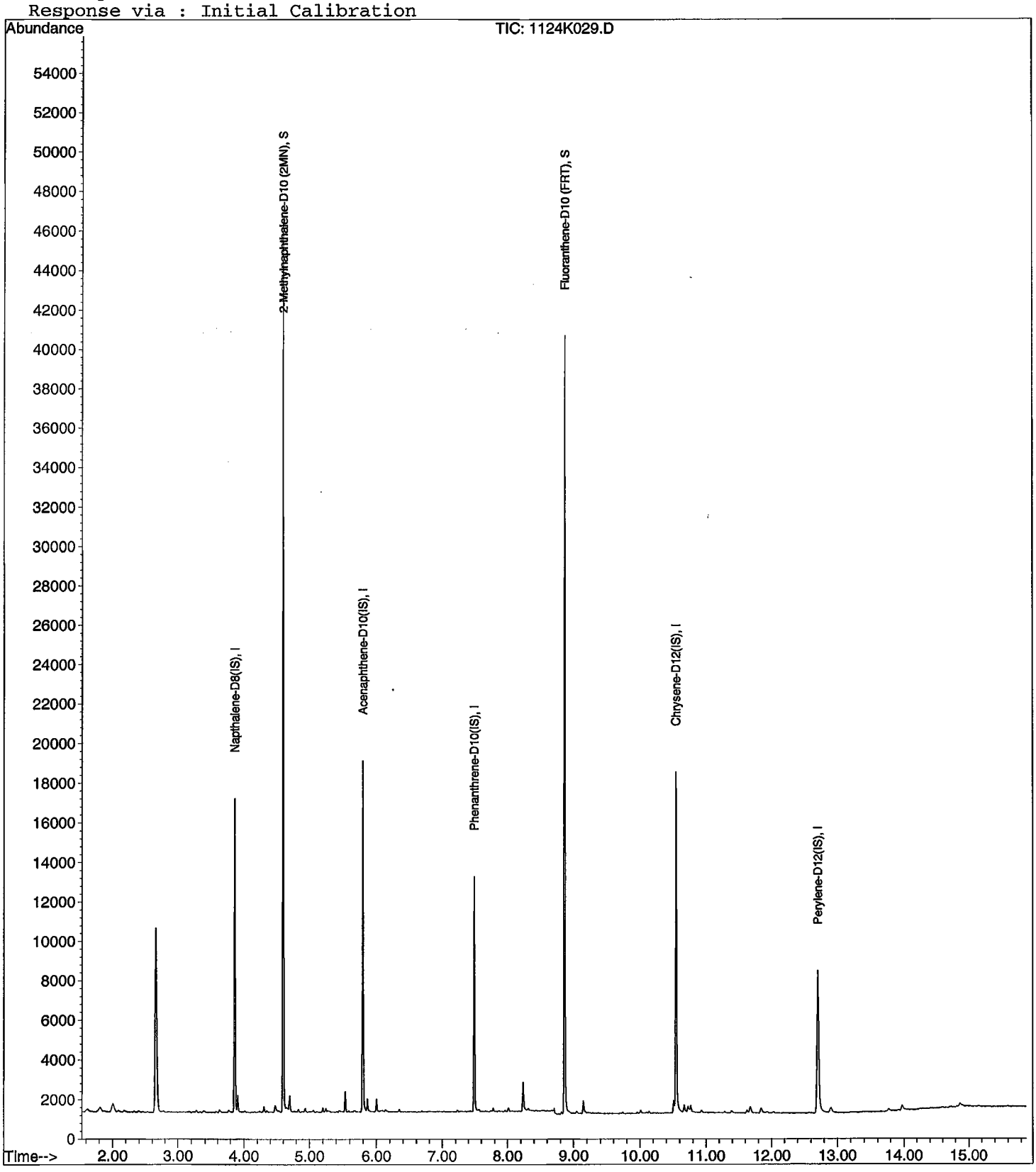
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\KYLO\DATA\211124\1124K029.D Vial: 29
Acq On : 24 Nov 21 21:10 Operator: LS
Sample : BA46714W08 1/1000 Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Nov 29 9:42 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\1124K026.D Vial: 26
Acq On : 24 Nov 21 20:11 Operator: LS
Sample : 211119A BLK 1/1000 Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Nov 29 9:41 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	12524	2.50	ppb	0.00
6) Acenaphthene-D10(IS)	5.79	164	6008	2.50	ppb	-0.07
10) Phenanthrene-D10(IS)	7.49	188	8935	2.50	ppb	-0.07
15) Chrysene-D12(IS)	10.54	240	10406	2.50	ppb	-0.07
20) Perylene-D12(IS)	12.71	264	9578	2.50	ppb	-0.12
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	4.59	152	24346	3.81	ppb	0.00
Spiked Amount 5.000			Recovery = 76.140%			
13) Fluoranthene-D10 (FRT)	8.87	212	29189	4.19	ppb	-0.07
Spiked Amount 5.000			Recovery = 83.820%			
Target Compounds						Qvalue

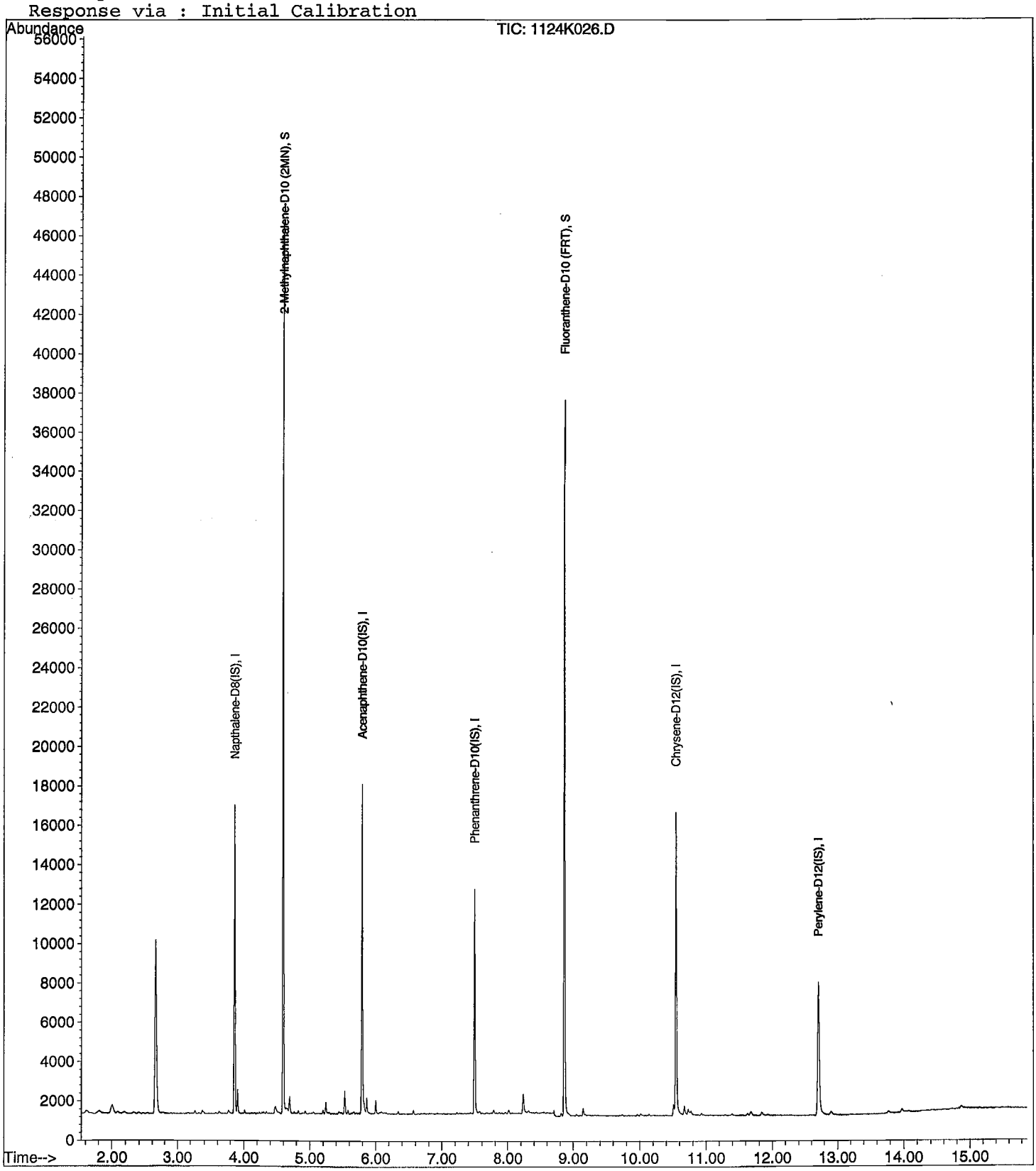
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\KYLO\DATA\211124\1124K026.D Vial: 26
Acq On : 24 Nov 21 20:11 Operator: LS
Sample : 211119A BLK 1/1000 Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Nov 29 9:41 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\1124K027.D Vial: 27
Acq On : 24 Nov 21 20:31 Operator: LS
Sample : 211119A LCS-1 1/1000 Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Nov 29 9:17 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	13002	2.50	ppb		0.00
6) Acenaphthene-D10(IS)	5.79	164	6184	2.50	ppb		-0.07
10) Phenanthrene-D10(IS)	7.49	188	9230	2.50	ppb		-0.07
15) Chrysene-D12(IS)	10.54	240	11071	2.50	ppb		-0.07
20) Perylene-D12(IS)	12.71	264	10270	2.50	ppb		-0.13
System Monitoring Compounds							
3) 2-Methylnaphthalene-D10 (2	4.59	152	25384	3.82	ppb		0.00
Spiked Amount 5.000			Recovery = 76.460%				
13) Fluoranthene-D10 (FRT)	8.86	212	29558	4.11	ppb		-0.07
Spiked Amount 5.000			Recovery = 82.160%				
Target Compounds							Qvalue
2) Naphthalene	3.88	128	25594	3.79	ppb		100
4) 2-Methylnaphthalene	4.63	142	15332	3.87	ppb	#	65
5) 1-Methylnaphthalene	4.74	142	15448	3.87	ppb		86
7) Acenaphthylene	5.63	152	53704	4.19	ppb		99
8) Acenaphthene	5.82	154	13508	3.98	ppb		94
9) Fluorene	6.42	166	15908	4.05	ppb		100
11) Phenanthrene	7.52	178	20879	4.11	ppb		99
12) Anthracene	7.57	178	19474	4.06	ppb		99
14) Fluoranthene	8.89	202	33969	4.30	ppb		99
16) Pyrene	9.14	202	35079	4.14	ppb		99
17) Benz (a) anthracene	10.53	228	26149	4.21	ppb		100
18) Chrysene	10.57	228	27737	4.02	ppb		99
19) Indeno (1,2,3-cd) pyrene	14.28	276	18709	3.80	ppb	#	92
21) Benzo (b) fluoranthene	12.02	252	24249	4.19	ppb		98
22) Benzo (k) fluoranthene	12.08	252	26485	4.00	ppb		99
23) Benzo (a) pyrene	12.60	252	22812	4.14	ppb		99
24) Dibenz (a,h) anthracene	14.32	278	21313	3.91	ppb		98
25) Benzo (g,h,i) perylene	14.59	276	23493	3.96	ppb		97

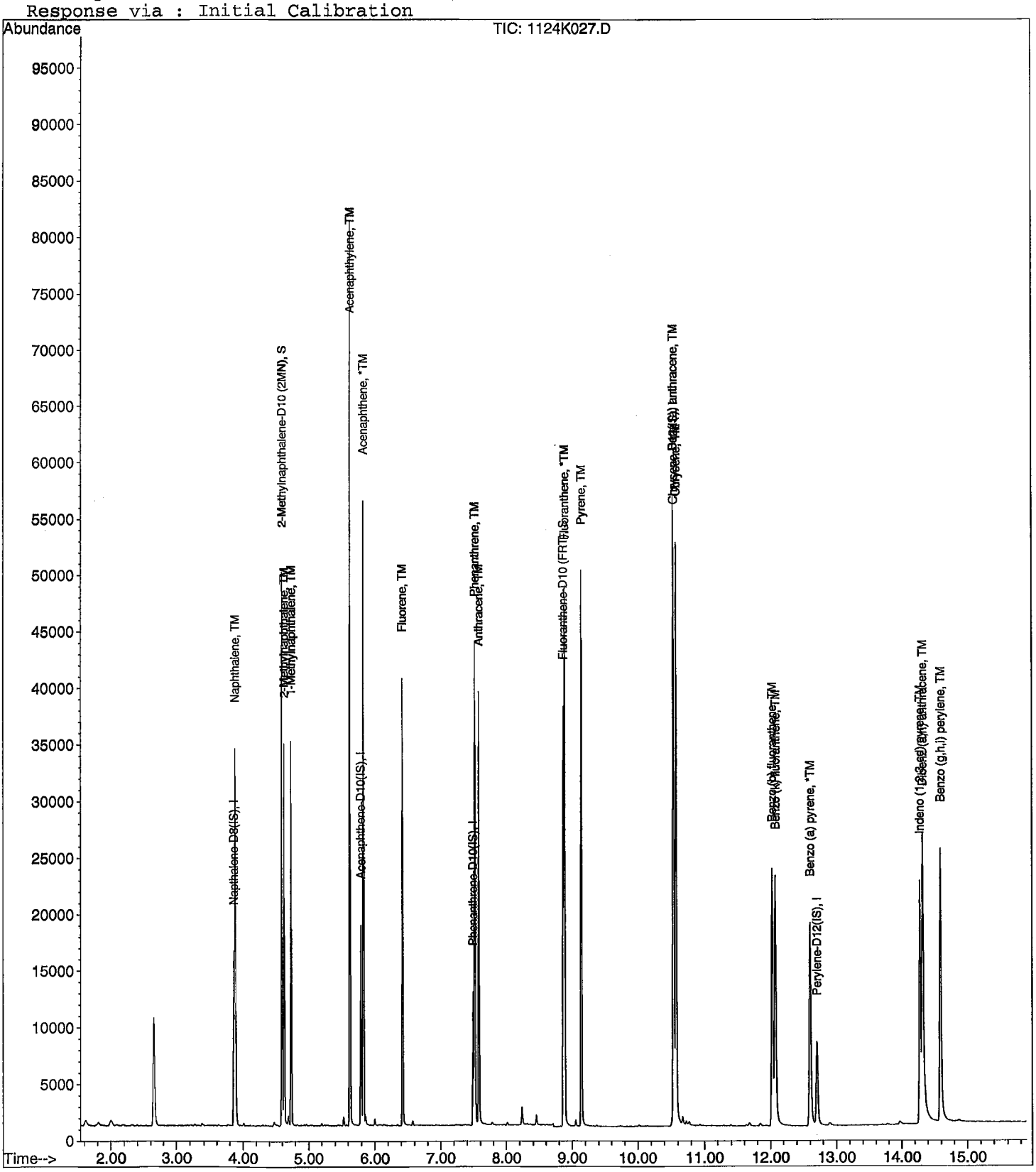
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\KYLO\DATA\211124\1124K027.D Vial: 27
Acq On : 24 Nov 21 20:31 Operator: LS
Sample : 211119A LCS-1 1/1000 Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Nov 29 9:17 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\1124K028.D Vial: 28
Acq On : 24 Nov 21 20:50 Operator: LS
Sample : 211119A LCSD-1 1/1000 Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Nov 29 9:17 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	12647	2.50	ppb		0.00
6) Acenaphthene-D10(IS)	5.79	164	6140	2.50	ppb		-0.07
10) Phenanthrene-D10(IS)	7.49	188	9097	2.50	ppb		-0.07
15) Chrysene-D12(IS)	10.54	240	10781	2.50	ppb		-0.07
20) Perylene-D12(IS)	12.71	264	10037	2.50	ppb		-0.13
System Monitoring Compounds							
3) 2-Methylnaphthalene-D10 (2	4.59	152	21224	3.29	ppb		0.00
Spiked Amount 5.000			Recovery =	65.720%			
13) Fluoranthene-D10 (FRT)	8.86	212	26245	3.70	ppb		-0.07
Spiked Amount 5.000			Recovery =	74.020%			
Target Compounds							Qvalue
2) Naphthalene	3.88	128	20891	3.18	ppb		100
4) 2-Methylnaphthalene	4.63	142	12810	3.33	ppb	#	66
5) 1-Methylnaphthalene	4.74	142	12944	3.33	ppb		85
7) Acenaphthylene	5.63	152	45275	3.56	ppb		99
8) Acenaphthene	5.82	154	11532	3.43	ppb		97
9) Fluorene	6.42	166	13883	3.56	ppb		99
11) Phenanthrene	7.52	178	18358	3.67	ppb		99
12) Anthracene	7.57	178	17368	3.67	ppb		99
14) Fluoranthene	8.89	202	30237	3.89	ppb		99
16) Pyrene	9.14	202	31026	3.76	ppb		100
17) Benz (a) anthracene	10.53	228	23163	3.83	ppb		99
18) Chrysene	10.57	228	24639	3.67	ppb		99
19) Indeno (1,2,3-cd) pyrene	14.28	276	17110	3.58	ppb		91
21) Benzo (b) fluoranthene	12.03	252	21364	3.78	ppb		100
22) Benzo (k) fluoranthene	12.08	252	23691	3.67	ppb		99
23) Benzo (a) pyrene	12.60	252	20347	3.78	ppb		100
24) Dibenz (a,h) anthracene	14.32	278	18419	3.46	ppb		98
25) Benzo (g,h,i) perylene	14.59	276	20665	3.57	ppb		100

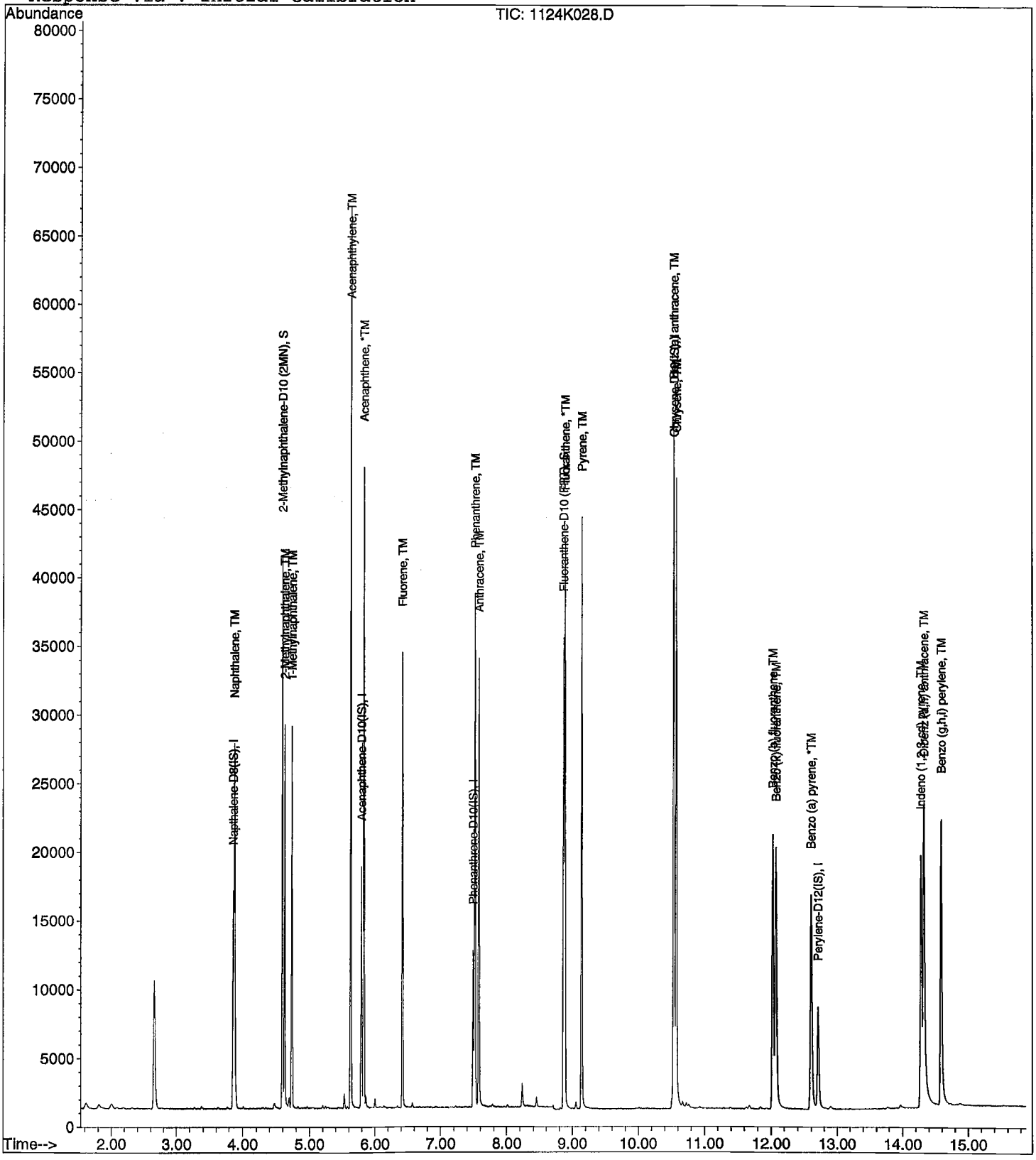
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\KYLO\DATA\211124\1124K028.D Vial: 28
Acq On : 24 Nov 21 20:50 Operator: LS
Sample : 211119A LCSD-1 1/1000 Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Nov 29 9:17 2021 Quant Results File: K1019.RES

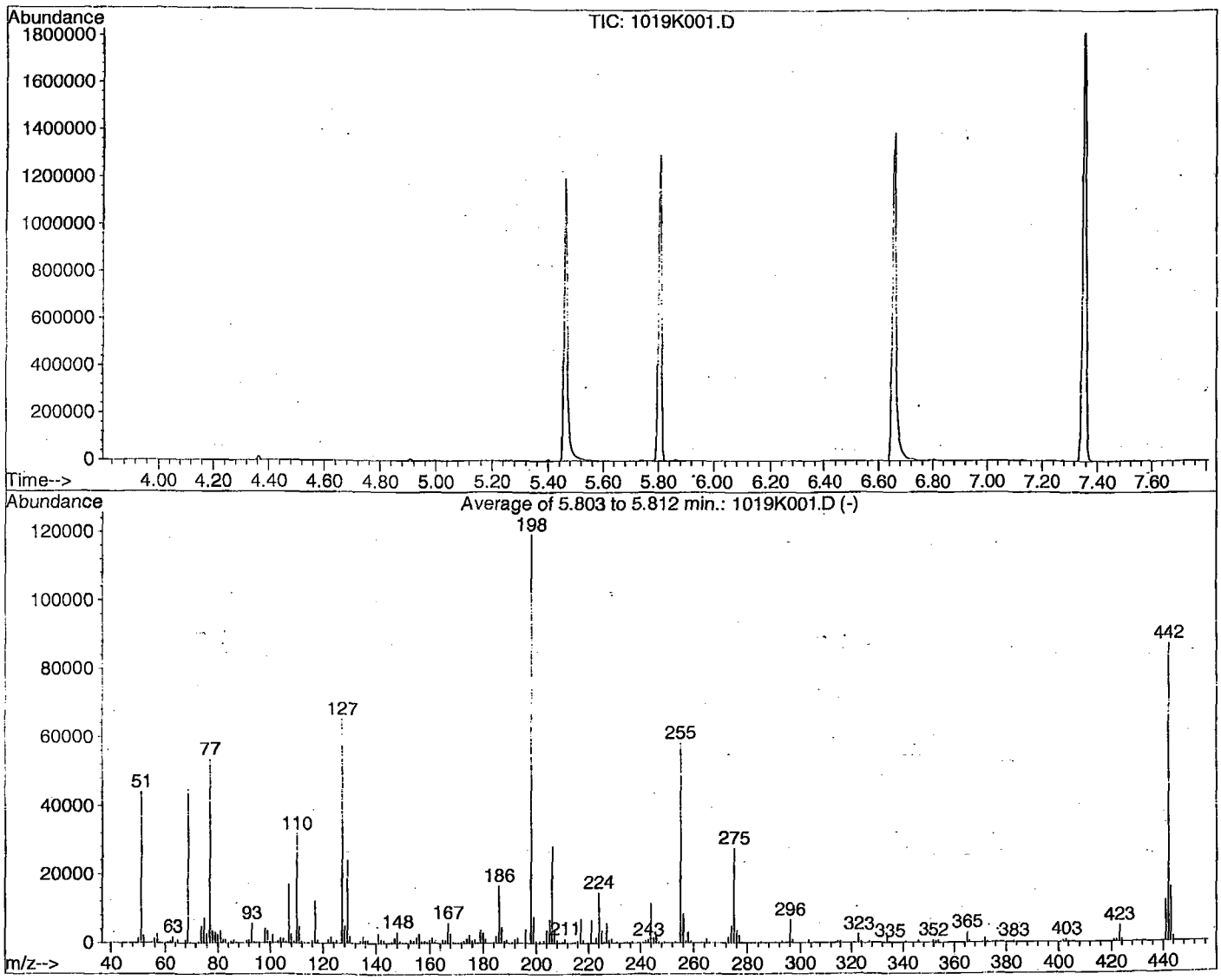
Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Dec 01 13:13:21 2021
Response via : Initial Calibration



Data File : M:\KYLO\DATA\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**

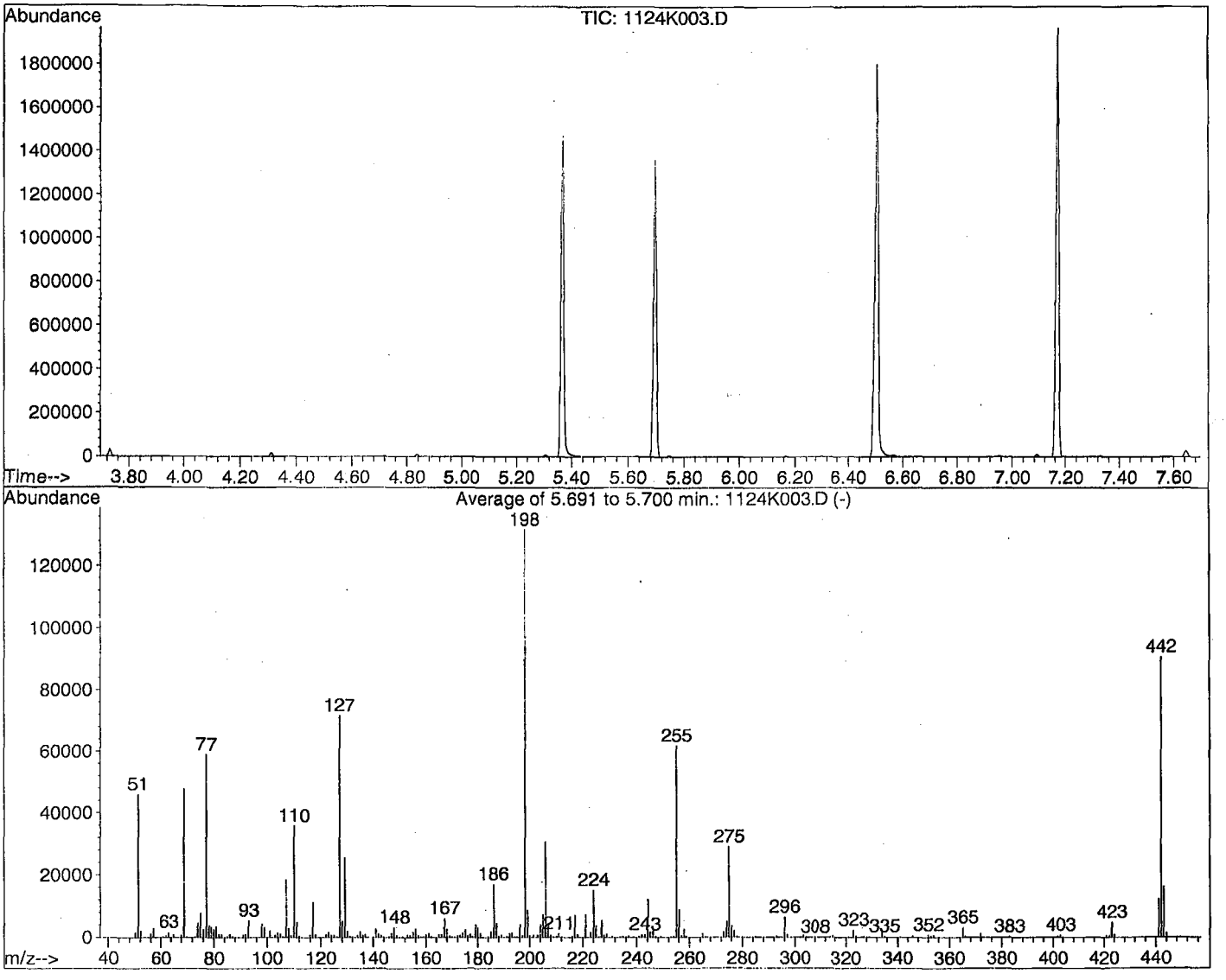
#	Name	Ret Time	Target Response
1)	DDT	7.36	16763500
2)	DDD	7.13	0
3)	DDE	6.80	0

Breakdown **0.00**

Data File : M:\KYLO\DATA\211124\1124K003.D
Acq On : 24 Nov 21 12:40
Sample : SV TUNE 7/2/21
Misc :

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

Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)
Title : EPA 8270



AutoFind: Scans 452, 453, 454; Background Corrected with Scan 447

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.9	46109	PASS
68	69	0.00	2	1.8	871	PASS
70	69	0.00	2	0.4	187	PASS
127	198	10	80	54.4	71768	PASS
197	198	0.00	2	0.4	588	PASS
198	198	100	100	100.0	132043	PASS
199	198	5	9	6.7	8857	PASS
275	198	10	60	22.1	29147	PASS
365	198	1	100	2.4	3162	PASS
441	442	0.01	24	13.7	12494	PASS
442	198	50	500	68.9	90931	PASS
443	442	15	24	18.0	16356	PASS

Data File Name:	**1124K003.D**
Data File Path:	**M:\KYLO\DATA\211124**
Operator:	**LS**
Date Acquired:	**24 Nov 2021 12:40**
Method File:	**DFTPP2.M**
Sample Name:	**SV TUNE 7/2/21**
Vial Number:	**3**
Instrument Name:	**KYLO**

#	Name	Ret Time	Target Response
1)	DDT	7.17	15939000
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 SIM Curve **Prep'd By (Initials)** LS

Prep Date 9/9/2021

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 9/9/2021

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'd By (Initials)**	**LS**
Prep Date	**6/17/2021**		
Exp Date	**6/17/2022**		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer 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'd By (Initials)**	**LS**
Prep Date	**6/17/2021**		
Exp Date	**6/17/2022**		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer 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'd By (Initials)**	**LS**
Prep Date	**6/17/2021**		
Exp Date	**6/17/2022**		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer 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'd By**	**LS**
Prep Date	**6/17/2021**		
Exp Date	**6/17/2022**		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer 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'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 Spike**	**Prep'd By (Initials)**	**IC**
Prep Date	**10/21/2021**		
Exp Date	**10/21/2022**		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer 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- 52446,52447**	**10/21/2022**	2 mL	10 mL	**Acetone 0246130**	40 ug/mL

Name of Final Standard	SIM Surrogate	Prep'd By (Initials)	LS
Prep Date	11/10/2021		
Exp Date	11/10/2022		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer 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	A0173323-52637,52638	5/31/2027	1.5 mL	30 mL	Acetone 281133	100 ug/mL

Organic Extraction Worksheet

Method	Continuous Liquid/Liquid SVOC 3520C	Extraction Set	211119A	Extraction Method	LIQ003	Units	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:	11/19/21 15:42	
Spiked ID 8			Ext. End Time:	11/20/21 9:51	
			GC Requires Extract By:		

pH1	14	11/19/21 14:35	Water Bath Temp 1 °C	75/74.5 E-WB5 °
pH2	14	11/19/21 14:58	Water Bath Temp 2 °C	
pH3			Water Bath Temp 3 °C	

Spiked By: KY **Date** 11/19/2021 **Witnessed By:** SR **Date** 11/19/2021

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	211119A Blk				0.050	1 equip	1000 E-HP14 E-WB5	1	14	11/19/21 14:29	
2	211119A LCS-1		0.125	1	0.050	1 equip	1000 E-HP15 E-WB5	1	14	11/19/21 14:29	
3	211119A LCSD-1		0.125	1	0.050	1 equip	1000 E-HP16 E-WB5	1	14	11/19/21 14:29	
4	BA46714	BA46714W08			0.050	1 equip	1000 E-HP17 E-WB5	1	14	11/19/21 14:29	98278
5	BA46716	BA46716W07			0.050	1 equip	1000 E-HP19 E-WB5	1	14	11/19/21 14:29	98285
6	BA46717	BA46717W06			0.050	1 equip	1000 E-HP20 E-WB5	1	14	11/19/21 14:29	98285
7	BA46721	BA46721W07			0.050	1 equip	1010 E-HP21 E-WB5	1	14	11/19/21 14:29	98279
8	BA46722	BA46722W03			0.050	1 equip	1030 E-HP22 E-WB5	1	14	11/19/21 14:29	98279
9	BA46723	BA46723W03			0.050	1 equip	1020 E-HP23 E-WB5	1	14	11/19/21 14:29	98279
10	BA46819	BA46819W10			0.050	1 equip	900 E-HP24 E-WB5	1	14	11/19/21 14:55	98301
11	BA46821	BA46821W07			0.050	1 equip	900 E-HP30 E-WB5	1	14	11/19/21 14:55	98300
12	BA46823	BA46823W07			0.050	1 equip	910 E-HP29 E-WB5	1	14	11/19/21 14:55	98300
13	BA46827	BA46827W07			0.050	1 equip	910 E-HP28 E-WB5	1	14	11/19/21 14:55	98299
14	BA46829	BA46829W07			0.050	1 equip	950 E-HP27 E-WB5	1	14	11/19/21 14:55	98299

Solvent and Lot#	
PH Strips	HC155968
Dichloromethane (DCM)	61117
10N NaOH (10mLs)	10-27-21
Filter Paper	400189
Na2SO4	2021071206

Extraction COC Transfer	
Extraction lab employee Initials	KY
GC analyst's initials	LS
Date	11/24/21
Time	1239
Refrigerator	GC-C

	Technician's Initials
Scanned By	SR,KY
Sample Preparation	SR,KY
Extraction	SR
Concentration	SR

Modified	11/23/2021 7:53:28 AM

Reviewed By: KY **Date** 11/23/2021

Injection Log

Directory: M:\KYLO\DATA\211124\

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
1	3	1124K003.D	1	SV TUNE 7/2/21		24 Nov 21 12:40
2	4	1124K004.D	1	5 ug/ml 10/19/21 (1)		24 Nov 21 12:51
3	26	1124K026.D	1	211119A BLK 1/1000		24 Nov 21 20:11
4	27	1124K027.D	1	211119A LCS-1 1/1000		24 Nov 21 20:31
5	28	1124K028.D	1	211119A LCSD-1 1/1000		24 Nov 21 20:50
6	29	1124K029.D	1	BA46714W08 1/1000		24 Nov 21 21:10
17	40	1124K040.D	1	5 ug/ml 10/13/21 (2)		25 Nov 21 00:49

ORGANICS
Calibration Data

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 11/29/2021
Matrix: Water Instrument: Loki
Initials: EO

		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	r^2	Q	MRF
			1129L06.D	1129L07.D	1129L08.D	1129L09.D	1129L10.D	1129L11.D	1129L12.D	1129L13.D	1129L14.D							
1	I	Fluorobenzene (IS)																
2	TMCL	Dichlorodifluoromethane	0.9525	0.0789	0.1343	0.1625	0.1453	0.1623	0.1597	0.1531	0.1518		0.23	116	TMC	1.000		
3	TM	Freon 114		0.0789	0.1123	0.0885	0.1015	0.1120	0.1106	0.1006	0.1040		0.10	12	TM			
4	TMC**L	Chloromethane	0.2259	0.2881	0.1892	0.2195	0.1732	0.1735	0.1466	0.1490	0.1397		0.19	25	TMC**	0.995		
5	TMC*L	Vinyl chloride	0.0273	0.1021	0.1284	0.1322	0.1257	0.1348	0.1254	0.1233	0.1178		0.11	30	TMC*	0.998		
6	TMCL	Bromomethane	0.0590	0.1154	0.1250	0.1332	0.1720	0.1485	0.2534	0.2426	0.2282		0.16	40	TMC	0.997		
7	TMC	Chloroethane		0.0540	0.0929	0.0931	0.0814	0.0902	0.0788	0.0802	0.0850		0.08	15	TMC		*	
8	TM	Dichlorofluoromethane	0.1928	0.2192	0.2796	0.2609	0.2662	0.2545	0.2320	0.2331	0.2185		0.24	12	TM			
9	TMC	Trichlorofluoromethane	0.1698	0.2142	0.2010	0.1855	0.1710	0.1675	0.1530	0.1502	0.1450		0.17	14	TMC			
10	TM	Acrolein	0.0090	0.0110	0.0108	0.0102	0.0112	0.0104	0.0099	0.0099	0.0097		0.01	6.9	TM			
11	TMC	Acetone	0.0386	0.0389	0.0386	0.0372	0.0366	0.0365	0.0344	0.0346	0.0326		0.04	6.0	TMC			
12	TMC	Freon-113			0.0853	0.1215	0.1230	0.1415	0.1194	0.1207	0.1159		0.12	14	TMC			
13	TMC*	1,1-DCE			0.1761	0.1719	0.1794	0.1785	0.1701	0.1590	0.1621		0.17	4.6	TMC*			
14	TMQ	t-Butanol			0.0015	0.0016	0.0031	0.0042	0.0049				0.00	49	TM	0.994		
15	TM	Acetonitrile	0.0120	0.0165	0.0180	0.0165	0.0166	0.0170	0.0146	0.0151	0.0157		0.02	11	TM			
16	TMC	Methyl Acetate			0.0904	0.0857	0.0925	0.0896	0.0852	0.0877	0.0864		0.09	3.1	TMC			
17	TML	Iodomethane				0.0402	0.0636	0.0800	0.0887	0.0996	0.1145		0.08	33	TM	0.998		
18	TM	Acrylonitrile					0.0367	0.0329	0.0375	0.0374	0.0391		0.04	6.3	TM			
19	TMCL	Methylene chloride		0.0681	0.1356	0.1485	0.1479	0.1524	0.1339	0.1340	0.1316		0.13	20	TMC	1.000		
20	TMC	Carbon disulfide	0.2101	0.1859	0.2348	0.2187	0.2285	0.2131	0.1892	0.1894	0.1887		0.21	9.1	TMC			
21	TMCL	Methyl t-butyl ether (MtBE)					0.0256	0.0394	0.0397	0.0454	0.0537		0.04	25	TMC	0.997		
22	TMCL	Trans-1,2-DCE		0.0357	0.1698	0.1528	0.1453	0.1535	0.1412	0.1411	0.1414		0.14	31	TMC	1.000		
23	TML	Diisopropyl Ether		0.0789	0.2314	0.1913	0.2216	0.2314	0.2425	0.2498	0.2754		0.22	28	TM	0.999		
24	TMC**L	1,1-DCA		0.0789	0.1208	0.1660	0.2005	0.2015	0.1907	0.1867	0.1814		0.17	26	TMC**	1.000		
25	TML	Vinyl Acetate		0.0921	0.0862	0.0490	0.0585	0.0567	0.0511	0.0533	0.0550		0.06	27	TM	1.000		
####	TMC	MEK (2-Butanone)	0.0268	0.0335	0.0311	0.0349	0.0340	0.0361	0.0369	0.0399	0.0384		0.03	11	TMC			
####	TMCL	Cis-1,2-DCE		0.0672	0.1229	0.1445	0.1603	0.1576	0.1464	0.1537	0.1575		0.14	23	TMC	1.000		
####	TM	2,2-Dichloropropane			0.0980	0.1518	0.1494	0.1523	0.1451	0.1476	0.1473		0.14	14	TM			
####	TMC*L	Chloroform	0.0590	0.1478	0.2217	0.2788	0.2284	0.2426	0.2393	0.2361	0.2302		0.21	32	TMC*	1.000		
####	TM	Bromochloromethane			0.0883	0.0951	0.1167	0.1080	0.1066	0.1002	0.0961		0.10	9.4	TM			
####	S	Dibromofluoromethane(S)	0.3810	0.3408	0.2991	0.2973	0.3093	0.3078	0.2975	0.2934	0.2688		0.31	10	S			
####	TMCL	1,1,1-TCA		0.0631	0.2226	0.1968	0.2242	0.2433	0.2126	0.2138	0.2126		0.20	28	TMC	1.000		
####	TMCL	Cyclohexane		0.0166	0.0557	0.1023	0.1044	0.1081	0.1216	0.1327	0.1487		0.10	43	TMC	0.998		
####	TML	1,1-Dichloropropene			0.0777	0.1106	0.1116	0.1253	0.1305	0.1408	0.1464		0.12	19	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: 11/29/2021
Instrument: Loki

Initials: EO

		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type		Q	MRF
####	TM	2,2,4-Trimethylpentane		0.0888	0.1102	0.0896	0.0942	0.0983	0.1028	0.1097	0.1178		0.10	10	TM			
####	S	1,2-DCA-D4(S)	0.3827	0.3619	0.3201	0.3092	0.3273	0.3229	0.3039	0.3018	0.2698		0.32	10	S			
####	TMCL	Carbon Tetrachloride		0.0556	0.1934	0.2187	0.2063	0.2101	0.2002	0.1907	0.1979		0.18	29	TMC	1.000		
####	TMCL	1,2-DCA		0.0913	0.1656	0.1771	0.1992	0.1995	0.1815	0.1799	0.1748		0.17	20	TMC	1.000		
####	TMC	Benzene	0.3309	0.3935	0.4063	0.4480	0.4371	0.4650	0.4482	0.4635	0.4564		0.43	10	TMC			
####	TMCL	TCE		0.0797	0.1453	0.1452	0.1669	0.1716	0.1580	0.1597	0.1615		0.15	20	TMC	1.000		
####	TM	2-Pentanone	0.0412	0.0482	0.0531	0.0518	0.0567	0.0607	0.0612	0.0648	0.0660		0.06	15	TM			
####	TMC*L	1,2-Dichloropropane			0.0566	0.0943	0.1183	0.1238	0.1079	0.1194	0.1193		0.11	23	TMC*	1.000		
####	TMC	Bromodichloromethane		0.1652	0.1651	0.1744	0.1898	0.1931	0.1822	0.1908	0.1912		0.18	6.5	TMC			
####	TMCL	Methyl Cyclohexane				0.0511	0.0629	0.0731	0.0761	0.0875	0.0965		0.07	22	TMC	0.999		
####	TM	Dibromomethane			0.1035	0.1235	0.1454	0.1353	0.1294	0.1335	0.1324		0.13	10	TM			
####	TMC	MIBK (methyl isobutyl ketone)	0.0444	0.0649	0.0610	0.0658	0.0696	0.0720	0.0701	0.0777			0.07	15	TMC			
####	TML	1-Bromo-2-chloroethane		0.1328	0.1001	0.0960	0.0871	0.0903	0.0811	0.0839	0.0862		0.09	18	TM	1.000		
####	TMCL	Cis-1,3-Dichloropropene		0.0332	0.1318	0.1491	0.1667	0.1561	0.1639	0.1715	0.1898		0.15	33	TMC	0.998		
####	TMC*	Toluene	0.3424	0.4200	0.4827	0.4894	0.5322	0.5400	0.5349	0.5670	0.5808		0.50	15	TMC*			
####	TMC	Trans-1,3-Dichloropropene		0.0963	0.0862	0.0951	0.0822	0.0886	0.0868	0.0874	0.1026		0.09	7.4	TMC			
####	TMCL	1,1,2-TCA		0.0166	0.0988	0.1406	0.1440	0.1389	0.1344	0.1341	0.1414		0.12	37	TMC	1.000		
####	TMCL	2-Hexanone	0.0077	0.0181	0.0322	0.0318	0.0372	0.0396	0.0410	0.0450			0.03	40	TMC	0.993		
####	I	Chlorobenzene-D5 (IS)																
####	S	Toluene-D8(S)	1.099	1.130	0.9590	0.9826	1.097	1.114	1.159	1.181	1.058		1.1	6.9	S			
####	TMCL	1,2-EDB			0.1149	0.1657	0.1549	0.1640	0.1633	0.1694	0.1656		0.16	12	TMC	1.000		
####	TMC	Tetrachloroethene		0.1465	0.1031	0.1214	0.1300	0.1201	0.1204	0.1278	0.1331		0.13	10.0	TMC			
####	TML	1-Chlorohexane	0.3226	0.5232	0.0833	0.1127	0.1271	0.1429	0.1391	0.1477	0.1713		0.20	71	TM	0.996		
####	TML	1,1,1,2-Tetrachloroethane		0.1046	0.1859	0.1934	0.1864	0.2011	0.1893	0.1829	0.1965		0.18	17	TM	0.999		
####	TMCL	m&p-Xylene	0.3395	0.3443	0.3734	0.3121	0.4260	0.4937	0.5293	0.5785	0.6032		0.44	25	TMC	0.999		
####	TMCL	o-Xylene	0.1027	0.3263	0.4120	0.4227	0.3950	0.5109	0.5249	0.5689	0.6190		0.43	36	TMC	0.999		
####	TMCL	Styrene		0.0809	0.2124	0.2545	0.3067	0.3809	0.4037	0.4670	0.5080		0.33	43	TMC	0.998		
####	S	4-Bromofluorobenzene(S)	0.4590	0.4110	0.3756	0.3460	0.4192	0.4452	0.4734	0.4843	0.4834		0.43	11	S			
####	TM	1,3-Dichloropropane		0.1712	0.2152	0.2087	0.2173	0.2253	0.2194	0.2281	0.2329		0.21	8.9	TM			
####	TMCL	Dibromochloromethane		0.0732	0.1490	0.1895	0.1978	0.1936	0.1928	0.1972	0.2027		0.17	25	TMC	1.000		
####	TMC**	Chlorobenzene	0.4960	0.3624	0.4465	0.4675	0.4749	0.4751	0.4817	0.4757	0.4898		0.46	8.7	TMC**			
####	TMC*	Ethylbenzene	0.2777	0.3348	0.3302	0.2945	0.3164	0.3463	0.3631	0.4165	0.4407		0.35	15	TMC*		*	
####	TMC**L	Bromoform		0.0190	0.1088	0.1340	0.1438	0.1540	0.1515	0.1530	0.1615		0.13	37	TMC**	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: 11/29/2021
Instrument: Loki

Initials: EO

		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type		Q	MRF
####	I	1,4-Dichlorobenzene-D4 (IS)																
####	TMCL	Isopropylbenzene	0.4312	0.6065	0.7813	0.8391	0.7975	0.8634	0.8759	0.9642	1.052		0.80	23	TMC	0.998		
####	TMC**L	1,1,2,2-Tetrachloroethane		0.2066	0.3899	0.3462	0.3287	0.3259	0.2897	0.2961	0.2935		0.31	17	TMC**	1.000		
####	TML	1,2,3-Trichloropropane			0.0514	0.0921	0.1157	0.1151	0.1118	0.1068	0.1080		0.10	23	TM	1.000		
####	TML	t-1,4-Dichloro-2-Butene					0.0062	0.0212	0.0235	0.0292	0.0347		0.02	47	TM	0.998		
####	TM	Bromobenzene		0.2772	0.2974	0.3478	0.3176	0.3302	0.3223	0.3195	0.3356		0.32	7.0	TM			
####	TM	n-Propylbenzene	0.7429	0.7426	0.8392	0.9143	0.9618	1.019	1.047				0.90	14	TM			
####	TML	4-Ethyltoluene	0.6031	0.4418	0.7202	0.6534	0.7495	0.8502	0.9271	1.050	1.084		0.79	27	TM	0.999		
####	TML	2-Chlorotoluene	0.3380	0.5040	0.6109	0.7058	0.6961	0.7171	0.8849	0.8990	0.7513		0.68	26	TM	0.993		
####	TML	1,3,5-Trimethylbenzene	0.1981	0.5023	0.5715	0.6916	0.7334	0.8140	0.8775	0.9559	0.9615		0.70	35	TM	1.000		
####	TML	4-Chlorotoluene	0.2156	0.5998	0.6439	0.7211	0.7443	0.8787	0.9075	0.9370	0.9083		0.73	31	TM	1.000		
####	TML	Tert-Butylbenzene	0.3059	0.3360	0.5096	0.6090	0.6315	0.7411	0.7138	0.7988	0.8542		0.61	32	TM	0.999		
####	TML	1,2,4-Trimethylbenzene	0.1253	0.4334	0.5836	0.7042	0.6722	0.7842	0.8606	0.9640	0.9870		0.68	40	TM	0.999		
####	TML	Sec-Butylbenzene	0.5739	0.5124	0.7403	0.8179	0.8630	0.9260	1.012	1.127	1.169		0.86	26	TM	0.999		
####	TML	p-Isopropyltoluene		0.3713	0.5972	0.7101	0.6863	0.8339	0.8754	0.9894	1.054		0.76	29	TM	0.999		
####	TML	Benzyl Chloride				0.0157	0.0774	0.0923	0.0965	0.1112	0.1333		0.09	46	TM	0.996		
####	TMCL	1,3-DCB	0.2826	0.4788	0.6149	0.6094	0.6294	0.6788	0.6595	0.6803	0.6822		0.59	22	TMC	1.00		
####	TMC	1,4-DCB	0.5069	0.5914	0.7082	0.7038	0.6573	0.7116	0.6900	0.6774	0.6993		0.66	10	TMC			
####	TML	n-Butylbenzene		0.3696	0.5490	0.5205	0.5445	0.6307	0.6638	0.7960	0.8390		0.61	25	TM	0.998		
####	TMC	1,2-DCB	0.4807	0.5443	0.6117	0.6786	0.5893	0.6616	0.6743	0.6663	0.7004		0.62	12	TMC			
####	TM	Hexachloroethane			0.2580	0.2356	0.1967	0.2121	0.2020	0.2014	0.1997		0.22	11	TM			
####	TMCL	1,2-Dibromo-3-chloropropane				0.0153	0.0459	0.0650	0.0735	0.0716	0.0675		0.06	40	TMC	0.998		
####	TMC	1,2,4-Trichlorobenzene			0.1535	0.1668	0.1382	0.1526	0.1669	0.1873	0.1954		0.17	12	TMC			
####	TM	Hexachlorobutadiene			0.1125	0.1113	0.1050	0.1007	0.0902	0.1024	0.1009		0.10	7.3	TM			
####	TML	Naphthalene			0.1133	0.1479	0.1255	0.2028	0.2191	0.3021	0.3596		0.21	44	TM	0.994		
####	TML	1,2,3-Trichlorobenzene			0.1479	0.1027	0.1172	0.1357	0.1435	0.1750	0.1697		0.14	18	TM	0.999		
####																		
####																		
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####																		

Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L06.D Vial: 4
Acq On : 29 Nov 21 15:11 Operator:
Sample : 0.3ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 09:57:34 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	6.30	96	57920	25.00	ppb		0.00
56) Chlorobenzene-D5 (IS)	9.77	117	51918	25.00	ppb		0.00
71) 1,4-Dichlorobenzene-D4 (IS	12.36	152	28603	25.00	ppb		0.00
System Monitoring Compounds							
32) Dibromofluoromethane(S)	5.45	113	4413	6.04	ppb		0.00
Spiked Amount 25.000			Recovery = 24.168%				
37) 1,2-DCA-D4(S)	5.87	65	4433	5.65	ppb		0.00
Spiked Amount 25.000			Recovery = 22.592%				
57) Toluene-D8(S)	8.18	98	11410	4.67	ppb		0.00
Spiked Amount 25.000			Recovery = 18.692%				
65) 4-Bromofluorobenzene(S)	11.07	174	4766	5.21	ppb		0.00
Spiked Amount 25.000			Recovery = 20.820%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	0.92	85	662	2.02	ppb	#	71
4) Chloromethane	1.22	50	157	0.47	ppb	#	44
8) Dichlorofluoromethane	1.84	67	134	0.24	ppb	#	42
9) Trichlorofluoromethane	1.88	101	118	0.30	ppb	#	16
10) Acrolein	2.28	56	208	7.29	ppb		84
11) Acetone	2.46	43	447	5.01	ppb	#	47
15) Acetonitrile	2.75	41	279	7.51	ppb	#	63
20) Carbon disulfide	2.57	76	146	0.34	ppb	#	76
27) MEK (2-Butanone)	4.86	43	311	3.25	ppb	#	50
39) Tert Amyl Methyl Ether	6.30	73	664	10.57	ppb		100
41) Benzene	5.93	78	230	0.21	ppb	#	51
43) 2-Pentanone	7.04	43	954	6.08	ppb		94
49) MIBK (methyl isobutyl ket	8.10	43	514	2.72	ppb	#	83
52) Toluene	8.24	91	238	0.18	ppb	#	22
55) 2-Hexanone	9.04	43	89	0.78	ppb	#	22
60) 1-Chlorohexane	9.94	91	201	2.14	ppb	#	20
62) m&p-Xylene	10.07	91	423	2.54	ppb		94
63) o-Xylene	10.50	91	64	1.27	ppb	#	29
68) Chlorobenzene	9.80	112	309	0.32	ppb	#	34
69) Ethylbenzene	9.94	91	173	0.22	ppb	#	41
72) Isopropylbenzene	10.91	105	148	0.13	ppb	#	48
77) n-Propylbenzene	11.37	91	255	0.20	ppb	#	47
78) 4-Ethyltoluene	11.50	105	207	1.28	ppb	#	44
79) 2-Chlorotoluene	11.44	91	116	0.12	ppb	#	34
82) Tert-Butylbenzene	11.92	119	105	0.12	ppb	#	23
83) 1,2,4-Trimethylbenzene	11.98	105	43	1.31	ppb	#	31
84) Sec-Butylbenzene	12.17	105	197	0.17	ppb	#	52

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

Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L06.D Vial: 4
Acq On : 29 Nov 21 15:11 Operator:
Sample : 0.3ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 09:57:34 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
87) 1,3-DCB	12.29	146	97	0.13 ppb	#	26
88) 1,4-DCB	12.38	146	174	0.22 ppb	#	28
90) 1,2-DCB	12.80	146	165	0.60 ppb	#	24

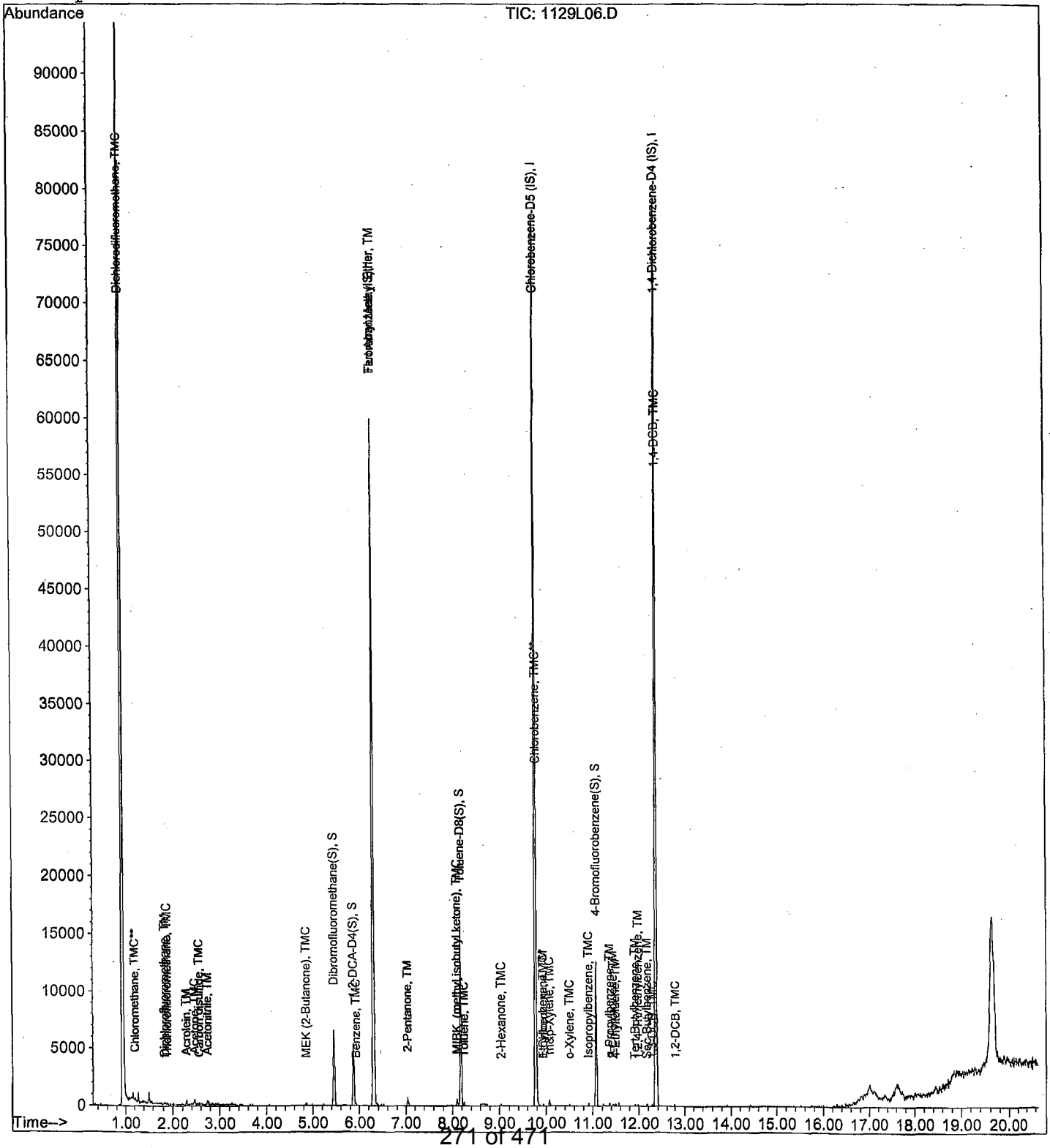
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LOKI\DATA\211129\1129L06.D Vial: 4
Acq On : 29 Nov 21 15:11 Operator:
Sample : 0.3ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L07.D Vial: 5
Acq On : 29 Nov 21 15:39 Operator:
Sample : 0.5ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 09:57:34 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	6.30	96	60232	25.00	ppb		0.00
56) Chlorobenzene-D5 (IS)	9.78	117	52563	25.00	ppb		0.00
71) 1,4-Dichlorobenzene-D4 (IS	12.36	152	29762	25.00	ppb		0.00
System Monitoring Compounds							
32) Dibromofluoromethane(S)	5.45	113	4105	5.40	ppb		0.00
Spiked Amount 25.000			Recovery =	21.616%			
37) 1,2-DCA-D4(S)	5.87	65	4359	5.34	ppb		0.00
Spiked Amount 25.000			Recovery =	21.360%			
57) Toluene-D8(S)	8.18	98	11880	4.81	ppb		0.00
Spiked Amount 25.000			Recovery =	19.224%			
65) 4-Bromofluorobenzene(S)	11.07	174	4321	4.66	ppb		0.00
Spiked Amount 25.000			Recovery =	18.644%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.08	85	95	0.28	ppb	#	41
3) Freon 114	1.08	85	95	0.43	ppb	#	9
4) Chloromethane	1.22	50	347	1.00	ppb		94
5) Vinyl chloride	1.30	62	123	0.38	ppb	#	43
6) Bromomethane	1.57	96	139	0.24	ppb		95
7) Chloroethane	1.66	64	65	0.31	ppb	#	44
8) Dichlorofluoromethane	1.84	67	264	0.45	ppb	#	42
9) Trichlorofluoromethane	1.88	101	258	0.62	ppb		77
10) Acrolein	2.28	56	661	22.27	ppb		95
11) Acetone	2.45	43	937	10.10	ppb		100
15) Acetonitrile	2.75	41	994	25.72	ppb	#	49
19) Methylene chloride	2.92	84	82	-0.65	ppb	#	57
20) Carbon disulfide	2.57	76	224	0.51	ppb	#	76
22) Trans-1,2-DCE	3.26	61	43	0.12	ppb	#	14
23) Diisopropyl Ether	4.09	45	95	0.16	ppb	#	43
24) 1,1-DCA	3.87	63	95	0.20	ppb	#	65
25) Vinyl Acetate	4.09	43	111	0.72	ppb		100
27) MEK (2-Butanone)	4.85	43	806	8.10	ppb	#	50
28) Cis-1,2-DCE	4.76	61	81	0.21	ppb	#	12
30) Chloroform	5.25	83	178	0.31	ppb	#	18
33) 1,1,1-TCA	5.44	97	76	0.14	ppb	#	37
34) Cyclohexane	5.51	56	20	1.66	ppb	#	3
36) 2,2,4-Trimethylpentane	6.08	57	107	0.44	ppb	#	42
38) Carbon Tetrachloride	5.65	119	67	0.43	ppb		94
39) Tert Amyl Methyl Ether	6.31	73	752	11.51	ppb		100
40) 1,2-DCA	5.97	62	110	0.24	ppb	#	44
41) Benzene	5.92	78	474	0.41	ppb	#	78

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

Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L07.D Vial: 5
Acq On : 29 Nov 21 15:39 Operator:
Sample : 0.5ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 09:57:34 2021
Response via : Initial Calibration
DataAcq Meth : L8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
42)	TCE	6.75	130	96	0.26	ppb	#	42
43)	2-Pentanone	7.04	43	2901	17.78	ppb		94
45)	Bromodichloromethane	7.36	83	199	0.42	ppb	#	21
49)	MIBK (methyl isobutyl ket	8.10	43	1563	7.94	ppb	#	88
50)	1-Bromo-2-chloroethane	7.69	63	160	0.69	ppb	#	41
52)	Toluene	8.25	91	506	0.37	ppb		95
53)	Trans-1,3-Dichloropropene	8.52	75	116	0.45	ppb	#	36
55)	2-Hexanone	9.03	43	436	3.67	ppb		86
59)	Tetrachloroethene	8.86	166	154	0.53	ppb	#	53
60)	1-Chlorohexane	9.94	91	550	3.14	ppb	#	20
61)	1,1,1,2-Tetrachloroethane	9.90	131	110	0.29	ppb	#	1
62)	m&p-Xylene	10.07	91	724	2.76	ppb	#	84
63)	o-Xylene	10.50	91	343	1.48	ppb	#	29
64)	Styrene	10.52	104	85	1.93	ppb	#	34
66)	1,3-Dichloropropane	8.90	76	180	0.37	ppb	#	42
67)	Dibromochloromethane	9.14	129	77	0.20	ppb	#	8
68)	Chlorobenzene	9.81	112	381	0.39	ppb		97
69)	Ethylbenzene	9.94	91	352	0.45	ppb		93
70)	Bromoform	10.71	173	20	1.37	ppb	#	26
72)	Isopropylbenzene	10.92	105	361	0.31	ppb	#	48
73)	1,1,2,2-Tetrachloroethane	11.24	83	123	0.31	ppb	#	18
76)	Bromobenzene	11.23	158	165	0.40	ppb		97
77)	n-Propylbenzene	11.37	91	442	0.33	ppb	#	47
78)	4-Ethyltoluene	11.49	105	263	1.31	ppb	#	44
79)	2-Chlorotoluene	11.45	91	300	0.31	ppb		97
80)	1,3,5-Trimethylbenzene	11.57	105	299	0.27	ppb	#	23
81)	4-Chlorotoluene	11.57	91	357	0.33	ppb	#	42
82)	Tert-Butylbenzene	11.93	119	200	0.22	ppb		78
83)	1,2,4-Trimethylbenzene	11.98	105	258	1.47	ppb		96
84)	Sec-Butylbenzene	12.18	105	305	0.25	ppb	#	52
85)	p-Isopropyltoluene	12.35	119	221	1.34	ppb	#	50
87)	1,3-DCB	12.29	146	285	0.35	ppb	#	26
88)	1,4-DCB	12.38	146	352	0.44	ppb	#	64
89)	n-Butylbenzene	12.80	91	220	1.78	ppb	#	27
90)	1,2-DCB	12.80	146	324	0.78	ppb	#	24

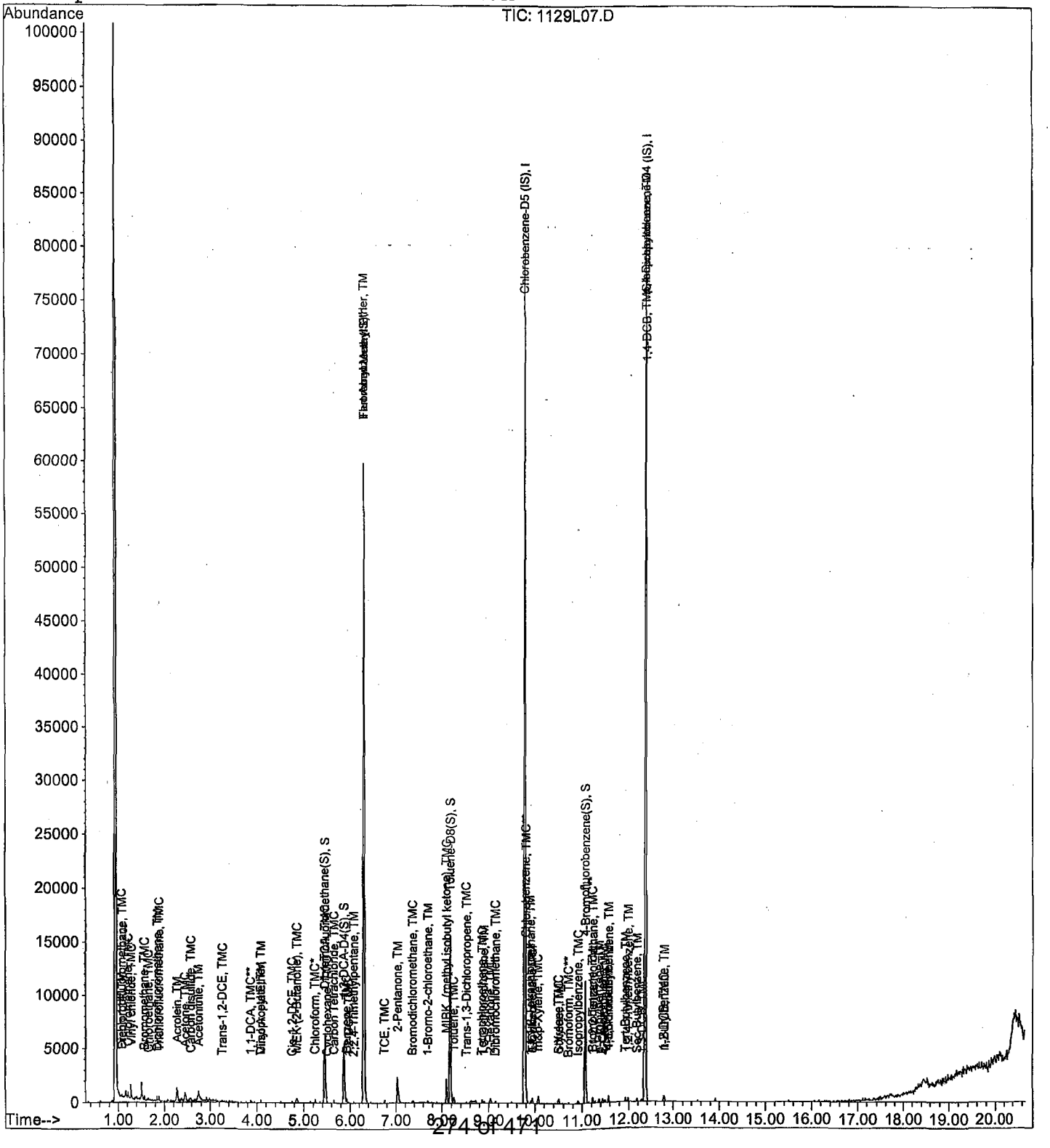
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LOKI\DATA\211129\1129L07.D Vial: 5
Acq On : 29 Nov 21 15:39 Operator:
Sample : 0.5ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L08.D Vial: 6
Acq On : 29 Nov 21 16:07 Operator:
Sample : 1ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 09:57:34 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	6.31	96	59195	25.00	ppb		0.00
56) Chlorobenzene-D5 (IS)	9.78	117	52852	25.00	ppb		0.00
71) 1,4-Dichlorobenzene-D4 (IS	12.36	152	31101	25.00	ppb		0.00
System Monitoring Compounds							
32) Dibromofluoromethane(S)	5.45	113	7083	9.49	ppb		0.00
Spiked Amount 25.000			Recovery = 37.952%				
37) 1,2-DCA-D4(S)	5.87	65	7580	9.45	ppb		0.00
Spiked Amount 25.000			Recovery = 37.796%				
57) Toluene-D8(S)	8.17	98	20275	8.16	ppb		0.00
Spiked Amount 25.000			Recovery = 32.632%				
65) 4-Bromofluorobenzene(S)	11.07	174	7940	8.52	ppb		0.00
Spiked Amount 25.000			Recovery = 34.076%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.08	85	318	0.95	ppb		95
3) Freon 114	1.18	85	266	1.22	ppb		84
4) Chloromethane	1.22	50	448	1.31	ppb		91
5) Vinyl chloride	1.31	62	304	0.95	ppb		92
6) Bromomethane	1.57	96	296	0.55	ppb		97
7) Chloroethane	1.66	64	220	1.06	ppb	#	44
8) Dichlorofluoromethane	1.84	67	662	1.15	ppb	#	81
9) Trichlorofluoromethane	1.88	101	476	1.17	ppb		80
10) Acrolein	2.29	56	1278	43.81	ppb		91
11) Acetone	2.46	43	1829	20.07	ppb		94
12) Freon-113	2.39	101	202	0.49	ppb	#	57
13) 1,1-DCE	2.37	61	417	1.09	ppb	#	93
14) t-Butanol	3.16	59	176	7.92	ppb	#	45
15) Acetonitrile	2.75	41	2131	56.11	ppb		85
16) Methyl Acetate	2.84	43	214	0.86	ppb	#	50
19) Methylene chloride	2.91	84	321	0.12	ppb	#	79
20) Carbon disulfide	2.57	76	556	1.28	ppb	#	76
22) Trans-1,2-DCE	3.27	61	402	1.15	ppb		95
23) Diisopropyl Ether	4.07	45	548	0.92	ppb	#	43
24) 1,1-DCA	3.86	63	286	0.60	ppb	#	65
25) Vinyl Acetate	4.08	43	204	1.34	ppb		100
27) MEK (2-Butanone)	4.86	43	1474	15.07	ppb		97
28) Cis-1,2-DCE	4.77	61	291	0.77	ppb	#	56
29) 2,2-Dichloropropane	4.75	77	232	0.60	ppb	#	51
30) Chloroform	5.24	83	525	0.94	ppb		95
31) Bromochloromethane	5.08	130	209	0.45	ppb	#	39
33) 1,1,1-TCA	5.43	97	527	1.00	ppb		95

(#) = qualifier out of range (m) = manual integration
1129L08.D L1129W.M Tue Nov 30 13:12:26 2021 Page 1

Data File : M:\LOKI\DATA\211129\1129L08.D Vial: 6
Acq On : 29 Nov 21 16:07 Operator:
Sample : 1ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 09:57:34 2021
Response via : Initial Calibration
DataAcq Meth : L8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
34)	Cyclohexane	5.49	56	132	1.99	ppb	#	16
35)	1,1-Dichloropropene	5.67	75	184	1.62	ppb	#	34
36)	2,2,4-Trimethylpentane	6.07	57	261	1.09	ppb	#	84
38)	Carbon Tetrachloride	5.66	119	458	1.26	ppb	#	79
39)	Tert Amyl Methyl Ether	6.30	73	748	11.65	ppb		100
40)	1,2-DCA	5.97	62	392	0.87	ppb	#	44
41)	Benzene	5.93	78	962	0.85	ppb	#	78
42)	TCE	6.76	130	344	0.94	ppb		87
43)	2-Pentanone	7.04	43	6289	39.23	ppb		98
44)	1,2-Dichloropropane	7.01	63	134	0.44	ppb	#	21
45)	Bromodichloromethane	7.35	83	391	0.85	ppb		90
47)	Dibromomethane	7.15	174	245	0.86	ppb	#	50
49)	MIBK (methyl isobutyl ket	8.10	43	2890	14.95	ppb		96
50)	1-Bromo-2-chloroethane	7.69	63	237	1.04	ppb	#	41
51)	Cis-1,3-Dichloropropene	7.89	75	312	0.74	ppb	#	79
52)	Toluene	8.24	91	1143	0.85	ppb		95
53)	Trans-1,3-Dichloropropene	8.52	75	204	0.81	ppb	#	36
54)	1,1,2-TCA	8.72	97	234	0.66	ppb	#	63
55)	2-Hexanone	9.04	43	1526	13.06	ppb		95
58)	1,2-EDB	9.25	107	243	1.10	ppb		82
59)	Tetrachloroethene	8.86	166	218	0.75	ppb		88
60)	1-Chlorohexane	9.82	91	176	2.06	ppb	#	33
61)	1,1,1,2-Tetrachloroethane	9.90	131	393	1.02	ppb		78
62)	m&p-Xylene	10.07	91	1579	3.39	ppb		86
63)	o-Xylene	10.50	91	871	1.85	ppb		97
64)	Styrene	10.52	104	449	2.24	ppb		84
66)	1,3-Dichloropropane	8.89	76	455	0.94	ppb	#	42
67)	Dibromochloromethane	9.14	129	315	0.81	ppb		84
68)	Chlorobenzene	9.80	112	944	0.95	ppb		92
69)	Ethylbenzene	9.94	91	698	0.89	ppb		99
70)	Bromoform	10.71	173	230	1.99	ppb		95
72)	Isopropylbenzene	10.91	105	972	0.79	ppb		96
73)	1,1,2,2-Tetrachloroethane	11.24	83	485	1.17	ppb		87
74)	1,2,3-Trichloropropane	11.28	110	64	0.96	ppb	#	27
76)	Bromobenzene	11.23	158	370	0.87	ppb		99
77)	n-Propylbenzene	11.36	91	1044	0.74	ppb	#	82
78)	4-Ethyltoluene	11.50	105	896	1.74	ppb		96
79)	2-Chlorotoluene	11.45	91	760	0.74	ppb		94
80)	1,3,5-Trimethylbenzene	11.57	105	711	0.62	ppb		99
81)	4-Chlorotoluene	11.57	91	801	0.71	ppb		97
82)	Tert-Butylbenzene	11.93	119	634	0.67	ppb		82
83)	1,2,4-Trimethylbenzene	11.98	105	726	1.81	ppb		86

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

Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L08.D Vial: 6
Acq On : 29 Nov 21 16:07 Operator:
Sample : 1ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 09:57:34 2021
Response via : Initial Calibration
DataAcq Meth : L8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
84)	Sec-Butylbenzene	12.18	105	921	0.71	ppb		93
85)	p-Isopropyltoluene	12.35	119	743	1.69	ppb	#	68
87)	1,3-DCB	12.29	146	765	0.91	ppb	#	93
88)	1,4-DCB	12.38	146	881	1.04	ppb		85
89)	n-Butylbenzene	12.81	91	683	2.16	ppb		84
90)	1,2-DCB	12.80	146	761	1.27	ppb		86
91)	Hexachloroethane	13.09	117	321	1.16	ppb	#	70
93)	1,2,4-Trichlorobenzene	14.61	180	191	3.11	ppb	#	57
94)	Hexachlorobutadiene	14.82	225	140	1.11	ppb	#	21
95)	Naphthalene	14.88	128	141	0.98	ppb	#	80
96)	1,2,3-Trichlorobenzene	15.15	182	184	2.78	ppb		79

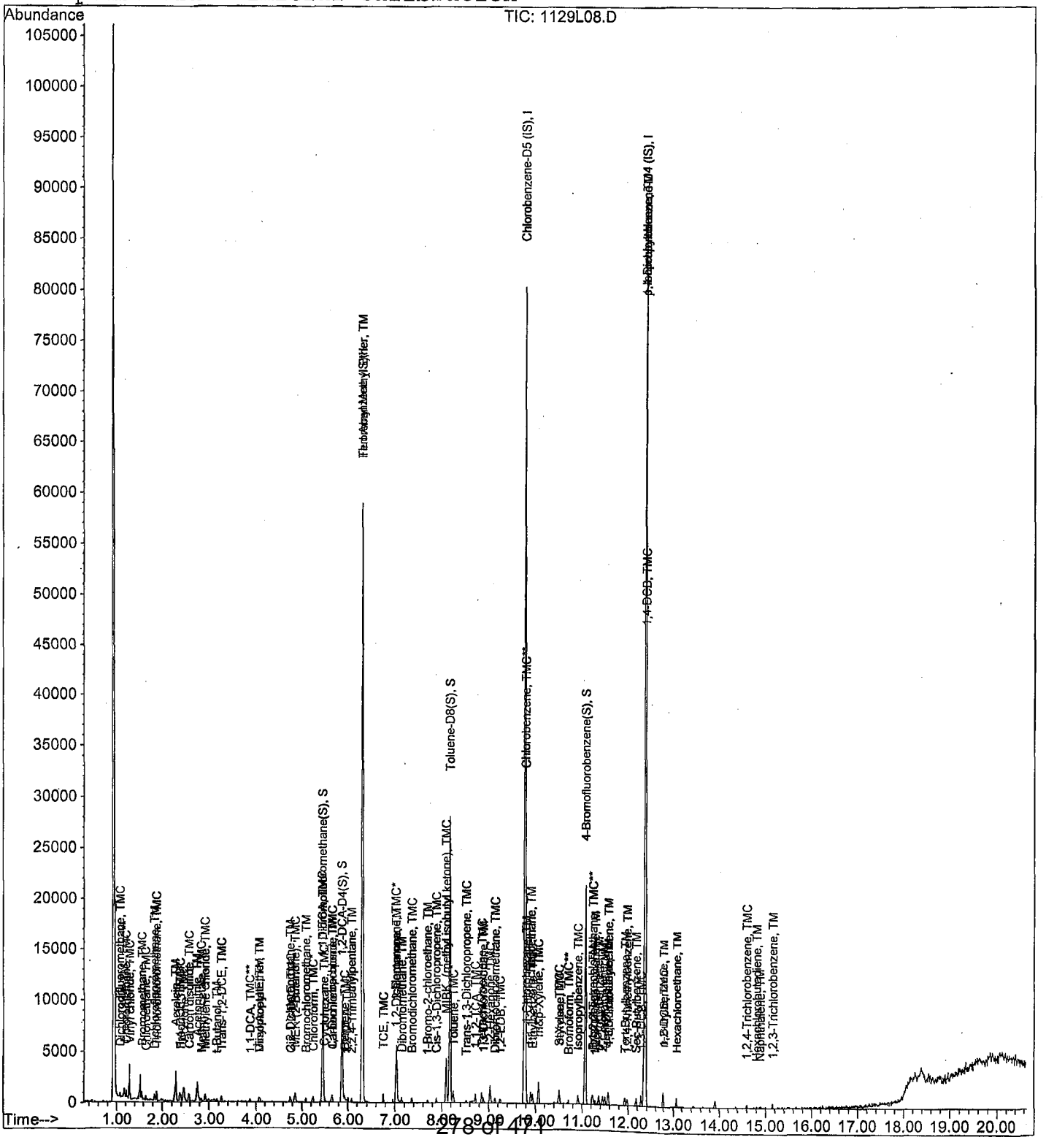
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LOKI\DATA\211129\1129L08.D Vial: 6
Acq On : 29 Nov 21 16:07 Operator:
Sample : 1ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L09.D Vial: 7
Acq On : 29 Nov 21 16:34 Operator:
Sample : 2ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 09:57:34 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	6.31	96	60708	25.00	ppb		0.00
56) Chlorobenzene-D5 (IS)	9.78	117	54676	25.00	ppb		0.00
71) 1,4-Dichlorobenzene-D4 (IS	12.36	152	31774	25.00	ppb		0.00
System Monitoring Compounds							
32) Dibromofluoromethane(S)	5.45	113	7220	9.43	ppb		0.00
Spiked Amount 25.000			Recovery = 37.724%				
37) 1,2-DCA-D4(S)	5.87	65	7509	9.13	ppb		0.00
Spiked Amount 25.000			Recovery = 36.508%				
57) Toluene-D8(S)	8.17	98	21489	8.36	ppb		0.00
Spiked Amount 25.000			Recovery = 33.432%				
65) 4-Bromofluorobenzene(S)	11.07	174	7567	7.85	ppb		0.00
Spiked Amount 25.000			Recovery = 31.392%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.08	85	789	2.29	ppb		98
3) Freon 114	1.18	85	430	1.92	ppb		75
4) Chloromethane	1.22	50	1066	3.04	ppb		94
5) Vinyl chloride	1.31	62	642	1.95	ppb		96
6) Bromomethane	1.56	96	647	1.22	ppb		81
7) Chloroethane	1.66	64	452	2.13	ppb		90
8) Dichlorofluoromethane	1.84	67	1267	2.15	ppb		90
9) Trichlorofluoromethane	1.88	101	901	2.16	ppb		83
10) Acrolein	2.29	56	1853	61.93	ppb		96
11) Acetone	2.45	43	2713	29.03	ppb		93
12) Freon-113	2.40	101	590	1.90	ppb		97
13) 1,1-DCE	2.37	61	835	2.13	ppb	#	93
14) t-Butanol	3.17	59	298	13.07	ppb	#	45
15) Acetonitrile	2.75	41	3013	77.36	ppb		89
16) Methyl Acetate	2.83	43	416	1.81	ppb	#	50
17) Iodomethane	2.51	142	195	4.24	ppb	#	33
19) Methylene chloride	2.92	84	721	1.34	ppb	#	85
20) Carbon disulfide	2.57	76	1062	2.38	ppb	#	86
22) Trans-1,2-DCE	3.27	61	742	2.06	ppb		94
23) Diisopropyl Ether	4.07	45	929	1.51	ppb		94
24) 1,1-DCA	3.87	63	806	1.66	ppb	#	65
25) Vinyl Acetate	4.04	43	238	1.53	ppb		100
27) MEK (2-Butanone)	4.85	43	2540	25.33	ppb		96
28) Cis-1,2-DCE	4.77	61	702	1.82	ppb	#	85
29) 2,2-Dichloropropane	4.75	77	737	1.85	ppb	#	81
30) Chloroform	5.24	83	1354	2.37	ppb		86
31) Bromochloromethane	5.09	130	462	1.47	ppb		88

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

Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L09.D Vial: 7
Acq On : 29 Nov 21 16:34 Operator:
Sample : 2ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 09:57:34 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
33) 1,1,1-TCA	5.43	97	956	1.77	ppb	#	81
34) Cyclohexane	5.50	56	497	3.02	ppb	#	72
35) 1,1-Dichloropropene	5.67	75	537	2.55	ppb		89
36) 2,2,4-Trimethylpentane	6.08	57	435	1.77	ppb	#	84
38) Carbon Tetrachloride	5.66	119	1062	2.50	ppb		89
39) Tert Amyl Methyl Ether	6.30	73	679	10.31	ppb		100
40) 1,2-DCA	5.97	62	860	1.87	ppb		97
41) Benzene	5.93	78	2176	1.87	ppb		92
42) TCE	6.76	130	705	1.88	ppb		93
43) 2-Pentanone	7.03	43	9442	57.43	ppb		99
44) 1,2-Dichloropropane	7.01	63	458	1.45	ppb		93
45) Bromodichloromethane	7.36	83	847	1.79	ppb		95
46) Methyl Cyclohexane	6.96	98	248	3.79	ppb		87
47) Dibromomethane	7.15	174	600	2.05	ppb		99
49) MIBK (methyl isobutyl ket	8.10	43	4792	24.16	ppb		93
50) 1-Bromo-2-chloroethane	7.69	63	466	2.00	ppb	#	79
51) Cis-1,3-Dichloropropene	7.88	75	724	1.67	ppb	#	87
52) Toluene	8.25	91	2377	1.73	ppb		98
53) Trans-1,3-Dichloropropene	8.52	75	462	1.78	ppb		94
54) 1,1,2-TCA	8.71	97	683	1.88	ppb		86
55) 2-Hexanone	9.03	43	2313	19.31	ppb		94
58) 1,2-EDB	9.25	107	725	2.31	ppb		94
59) Tetrachloroethene	8.86	166	531	1.77	ppb	#	83
60) 1-Chlorohexane	9.81	91	493	2.92	ppb	#	83
61) 1,1,1,2-Tetrachloroethane	9.91	131	846	2.12	ppb		80
62) m&p-Xylene	10.07	91	3413	4.66	ppb		99
63) o-Xylene	10.50	91	1849	2.51	ppb		96
64) Styrene	10.52	104	1113	2.78	ppb		88
66) 1,3-Dichloropropane	8.90	76	913	1.82	ppb		97
67) Dibromochloromethane	9.14	129	829	2.06	ppb		97
68) Chlorobenzene	9.80	112	2045	1.99	ppb		90
69) Ethylbenzene	9.94	91	1288	1.58	ppb		98
70) Bromoform	10.70	173	586	2.98	ppb	#	73
72) Isopropylbenzene	10.92	105	2133	1.70	ppb	#	87
73) 1,1,2,2-Tetrachloroethane	11.24	83	880	2.07	ppb		84
74) 1,2,3-Trichloropropane	11.29	110	234	2.06	ppb		87
76) Bromobenzene	11.23	158	884	2.03	ppb		93
77) n-Propylbenzene	11.37	91	2324	1.61	ppb		87
78) 4-Ethyltoluene	11.50	105	1661	2.25	ppb		97
79) 2-Chlorotoluene	11.44	91	1794	1.72	ppb		95
80) 1,3,5-Trimethylbenzene	11.57	105	1758	1.51	ppb		87
81) 4-Chlorotoluene	11.57	91	1833	1.60	ppb		91

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

Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L09.D Vial: 7
Acq On : 29 Nov 21 16:34 Operator:
Sample : 2ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 09:57:34 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
82) Tert-Butylbenzene	11.93	119	1548	1.60 ppb	#	76
83) 1,2,4-Trimethylbenzene	11.98	105	1790	2.57 ppb		98
84) Sec-Butylbenzene	12.18	105	2079	1.57 ppb		100
85) p-Isopropyltoluene	12.35	119	1805	2.40 ppb	#	83
86) Benzyl Chloride	12.54	91	40	0.14 ppb	#	42
87) 1,3-DCB	12.28	146	1549	1.80 ppb		96
88) 1,4-DCB	12.38	146	1789	2.07 ppb		97
89) n-Butylbenzene	12.80	91	1323	2.67 ppb		88
90) 1,2-DCB	12.80	146	1725	2.34 ppb	#	86
91) Hexachloroethane	13.08	117	599	2.40 ppb		82
92) 1,2-Dibromo-3-chloropropan	13.67	157	39	3.91 ppb	#	15
93) 1,2,4-Trichlorobenzene	14.60	180	424	3.88 ppb		73
94) Hexachlorobutadiene	14.81	225	283	2.20 ppb		92
95) Naphthalene	14.88	128	376	1.70 ppb	#	80
96) 1,2,3-Trichlorobenzene	15.15	182	261	3.06 ppb		92

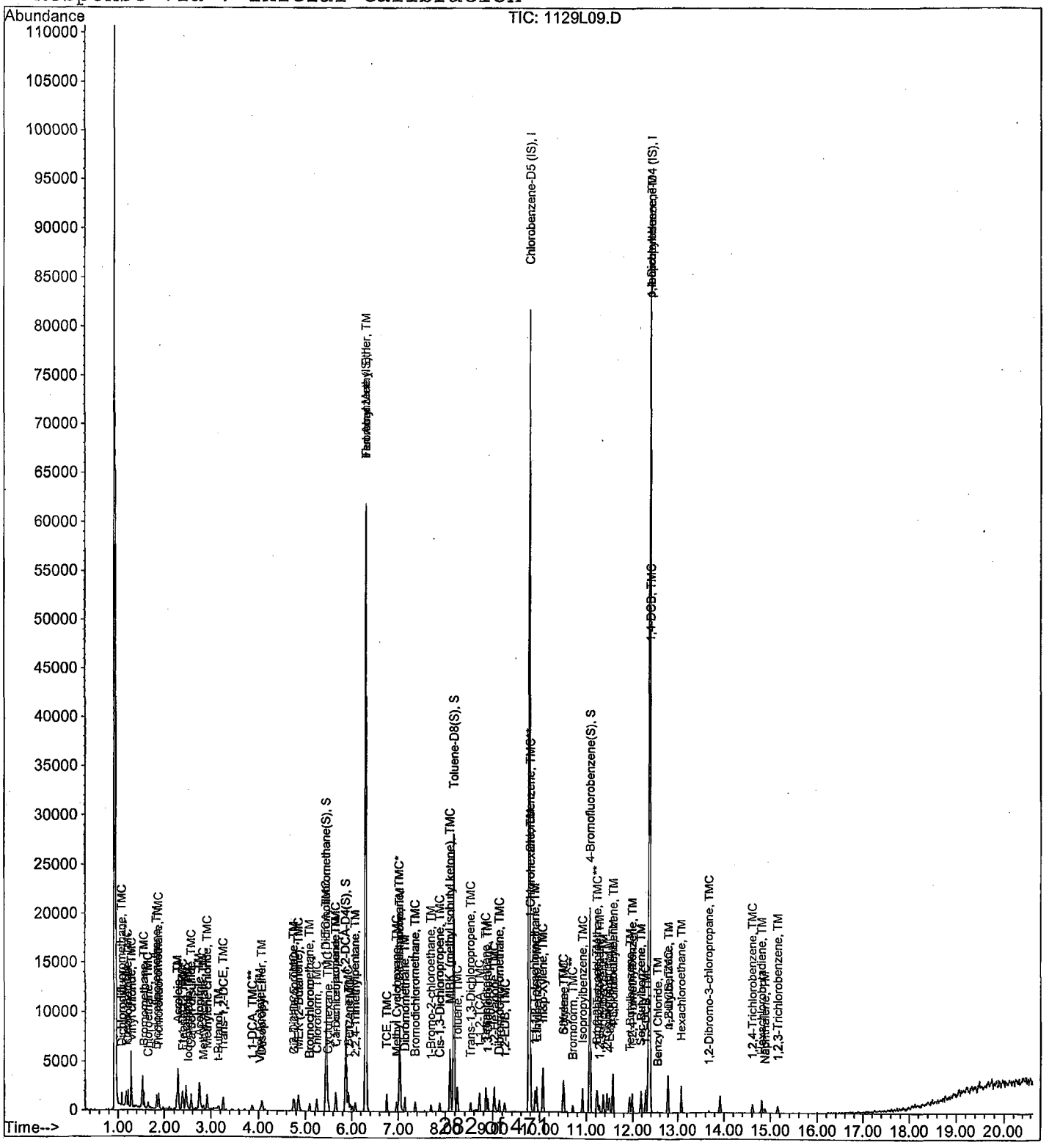
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LOKI\DATA\211129\1129L09.D Vial: 7
Acq On : 29 Nov 21 16:34 Operator:
Sample : 2ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L10.D Vial: 8
Acq On : 29 Nov 21 17:02 Operator:
Sample : 5ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 09:57:34 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	6.30	96	61476	25.00	ppb		0.00
56) Chlorobenzene-D5 (IS)	9.77	117	55788	25.00	ppb		0.00
71) 1,4-Dichlorobenzene-D4 (IS	12.36	152	36826	25.00	ppb		0.00
System Monitoring Compounds							
32) Dibromofluoromethane(S)	5.45	113	19012	24.52	ppb		0.00
Spiked Amount 25.000			Recovery =	98.092%			
37) 1,2-DCA-D4(S)	5.87	65	20121	24.15	ppb		0.00
Spiked Amount 25.000			Recovery =	96.604%			
57) Toluene-D8(S)	8.17	98	61199	23.33	ppb		0.00
Spiked Amount 25.000			Recovery =	93.312%			
65) 4-Bromofluorobenzene(S)	11.07	174	23387	23.77	ppb		0.00
Spiked Amount 25.000			Recovery =	95.084%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.08	85	1786	5.13	ppb		100
3) Freon 114	1.18	85	1248	5.51	ppb		91
4) Chloromethane	1.22	50	2129	6.00	ppb		97
5) Vinyl chloride	1.31	62	1546	4.64	ppb		93
6) Bromomethane	1.56	96	2115	3.99	ppb	#	75
7) Chloroethane	1.65	64	1001	4.65	ppb		98
8) Dichlorofluoromethane	1.84	67	3273	5.49	ppb		96
9) Trichlorofluoromethane	1.88	101	2102	4.98	ppb		86
10) Acrolein	2.28	56	2761	91.13	ppb		94
11) Acetone	2.45	43	3596	37.99	ppb		100
12) Freon-113	2.40	101	1512	5.23	ppb		92
13) 1,1-DCE	2.37	61	2206	5.55	ppb		98
14) t-Butanol	3.16	59	763	33.05	ppb	#	45
15) Acetonitrile	2.75	41	4084	103.55	ppb		92
16) Methyl Acetate	2.84	43	1137	5.22	ppb		92
17) Iodomethane	2.51	142	782	6.27	ppb		96
18) Acrylonitrile	3.25	53	451	5.31	ppb	#	65
19) Methylene chloride	2.92	84	1819	4.68	ppb		92
20) Carbon disulfide	2.57	76	2810	6.22	ppb	#	94
21) Methyl t-butyl ether (MtBE	3.30	73	315	0.52	ppb		100
22) Trans-1,2-DCE	3.26	61	1787	4.90	ppb		87
23) Diisopropyl Ether	4.08	45	2725	4.38	ppb		94
24) 1,1-DCA	3.87	63	2465	5.00	ppb		100
25) Vinyl Acetate	4.07	43	719	4.55	ppb		100
27) MEK (2-Butanone)	4.85	43	3345	32.94	ppb	#	84
28) Cis-1,2-DCE	4.76	61	1971	5.05	ppb		95
29) 2,2-Dichloropropane	4.75	77	1837	4.54	ppb		99

(#) = qualifier out of range (m) = manual integration
1129L10.D L1129W.M Tue Nov 30 13:12:30 2021 Page 1

Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L10.D Vial: 8
Acq On : 29 Nov 21 17:02 Operator:
Sample : 5ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 09:57:34 2021
Response via : Initial Calibration
DataAcq Meth : L8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
30)	Chloroform	5.24	83	2808	4.86	ppb		93
31)	Bromochloromethane	5.09	130	1435	5.41	ppb		98
33)	1,1,1-TCA	5.44	97	2757	5.05	ppb		99
34)	Cyclohexane	5.50	56	1283	5.21	ppb	#	81
35)	1,1-Dichloropropene	5.67	75	1372	4.74	ppb		95
36)	2,2,4-Trimethylpentane	6.08	57	1158	4.64	ppb		99
38)	Carbon Tetrachloride	5.66	119	2537	5.50	ppb	#	80
39)	Tert Amyl Methyl Ether	6.30	73	766	11.49	ppb		100
40)	1,2-DCA	5.97	62	2449	5.25	ppb		99
41)	Benzene	5.93	78	5374	4.56	ppb		97
42)	TCE	6.75	130	2052	5.39	ppb		95
43)	2-Pentanone	7.03	43	13950	83.79	ppb		100
44)	1,2-Dichloropropane	7.02	63	1455	4.56	ppb		98
45)	Bromodichloromethane	7.36	83	2334	4.86	ppb		93
46)	Methyl Cyclohexane	6.97	98	773	6.00	ppb		83
47)	Dibromomethane	7.15	174	1788	6.04	ppb		92
49)	MIBK (methyl isobutyl ket	8.10	43	6845	34.08	ppb		97
50)	1-Bromo-2-chloroethane	7.69	63	1071	4.54	ppb		98
51)	Cis-1,3-Dichloropropene	7.88	75	2049	4.66	ppb		88
52)	Toluene	8.25	91	6544	4.71	ppb		98
53)	Trans-1,3-Dichloropropene	8.53	75	1011	3.84	ppb		92
54)	1,1,2-TCA	8.72	97	1771	4.82	ppb		97
55)	2-Hexanone	9.03	43	3662	30.18	ppb	#	75
58)	1,2-EDB	9.25	107	1728	4.78	ppb		89
59)	Tetrachloroethene	8.86	166	1451	4.75	ppb		92
60)	1-Chlorohexane	9.81	91	1418	5.41	ppb		93
61)	1,1,1,2-Tetrachloroethane	9.91	131	2080	5.12	ppb		88
62)	m&p-Xylene	10.07	91	9506	8.88	ppb		97
63)	o-Xylene	10.51	91	4407	4.23	ppb		89
64)	Styrene	10.52	104	3422	4.62	ppb		96
66)	1,3-Dichloropropane	8.90	76	2424	4.74	ppb		91
67)	Dibromochloromethane	9.14	129	2207	5.37	ppb		100
68)	Chlorobenzene	9.80	112	5299	5.06	ppb		88
69)	Ethylbenzene	9.94	91	3530	4.25	ppb		95
70)	Bromoform	10.70	173	1605	5.78	ppb		86
72)	Isopropylbenzene	10.91	105	5874	4.05	ppb		99
73)	1,1,2,2-Tetrachloroethane	11.24	83	2421	4.92	ppb		87
74)	1,2,3-Trichloropropane	11.29	110	852	5.34	ppb	#	64
75)	t-1,4-Dichloro-2-Butene	11.30	53	46	4.98	ppb	#	15
76)	Bromobenzene	11.22	158	2339	4.64	ppb		77
77)	n-Propylbenzene	11.37	91	7084	4.24	ppb		89
78)	4-Ethyltoluene	11.50	105	5520	4.35	ppb		98

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

Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L10.D Vial: 8
Acq On : 29 Nov 21 17:02 Operator:
Sample : 5ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 09:57:34 2021
Response via : Initial Calibration
DataAcq Meth : L8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
79)	2-Chlorotoluene	11.45	91	5127	4.23	ppb		97
80)	1,3,5-Trimethylbenzene	11.57	105	5402	4.00	ppb		85
81)	4-Chlorotoluene	11.57	91	5482	4.12	ppb		94
82)	Tert-Butylbenzene	11.93	119	4651	4.14	ppb		91
83)	1,2,4-Trimethylbenzene	11.98	105	4951	4.37	ppb		94
84)	Sec-Butylbenzene	12.17	105	6356	4.14	ppb		94
85)	p-Isopropyltoluene	12.34	119	5055	4.13	ppb		91
86)	Benzyl Chloride	12.55	91	570	1.77	ppb	#	42
87)	1,3-DCB	12.28	146	4636	4.65	ppb		96
88)	1,4-DCB	12.38	146	4841	4.84	ppb		95
89)	n-Butylbenzene	12.80	91	4010	4.42	ppb		98
90)	1,2-DCB	12.79	146	4340	4.61	ppb		93
91)	Hexachloroethane	13.09	117	1449	5.39	ppb		83
92)	1,2-Dibromo-3-chloropropan	13.67	157	338	6.28	ppb	#	81
93)	1,2,4-Trichlorobenzene	14.61	180	1018	5.41	ppb		95
94)	Hexachlorobutadiene	14.81	225	773	5.18	ppb		90
95)	Naphthalene	14.88	128	924	2.98	ppb	#	80
96)	1,2,3-Trichlorobenzene	15.15	182	863	4.90	ppb		86

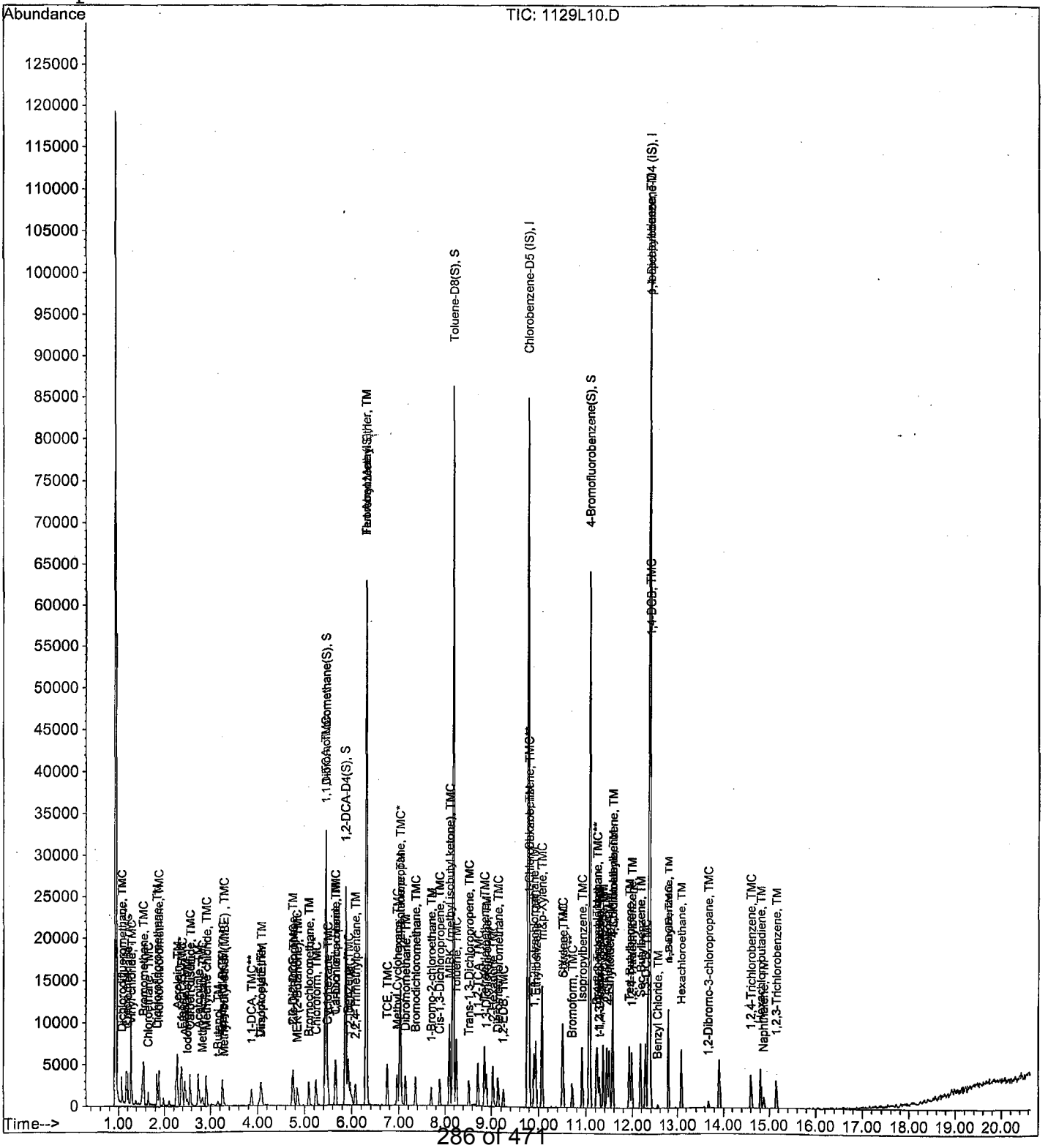
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LOKI\DATA\211129\1129L10.D Vial: 8
Acq On : 29 Nov 21 17:02 Operator:
Sample : 5ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L11.D Vial: 9
Acq On : 29 Nov 21 17:30 Operator:
Sample : 10ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 09:57:34 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	63065	25.00	ppb	0.00
56) Chlorobenzene-D5 (IS)	9.78	117	55999	25.00	ppb	0.00
71) 1,4-Dichlorobenzene-D4 (IS	12.36	152	38835	25.00	ppb	0.00
System Monitoring Compounds						
32) Dibromofluoromethane(S)	5.45	113	19414	24.41	ppb	0.00
Spiked Amount 25.000			Recovery =	97.644%		
37) 1,2-DCA-D4(S)	5.87	65	20363	23.83	ppb	0.00
Spiked Amount 25.000			Recovery =	95.304%		
57) Toluene-D8(S)	8.18	98	62355	23.68	ppb	0.00
Spiked Amount 25.000			Recovery =	94.716%		
65) 4-Bromofluorobenzene(S)	11.07	174	24933	25.25	ppb	0.00
Spiked Amount 25.000			Recovery =	100.988%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.08	85	4095	11.46	ppb	100
3) Freon 114	1.18	85	2825	12.15	ppb	100
4) Chloromethane	1.22	50	4376	12.03	ppb	100
5) Vinyl chloride	1.31	62	3400	9.95	ppb	100
6) Bromomethane	1.56	96	3747	6.91	ppb	100
7) Chloroethane	1.65	64	2275	10.31	ppb	100
8) Dichlorofluoromethane	1.84	67	6419	10.49	ppb	100
9) Trichlorofluoromethane	1.88	101	4226	9.75	ppb	100
10) Acrolein	2.28	56	3286	105.72	ppb	100
11) Acetone	2.45	43	4608	47.46	ppb	100
12) Freon-113	2.39	101	3569	12.41	ppb	100
13) 1,1-DCE	2.37	61	4502	11.05	ppb	100
14) t-Butanol	3.17	59	1314	55.49	ppb	100
15) Acetonitrile	2.75	41	5364	132.57	ppb	100
16) Methyl Acetate	2.83	43	2260	10.30	ppb	100
17) Iodomethane	2.51	142	2018	10.38	ppb	100
18) Acrylonitrile	3.25	53	829	8.58	ppb	100
19) Methylene chloride	2.92	84	3845	10.61	ppb	100
20) Carbon disulfide	2.57	76	5376	11.61	ppb	100
21) Methyl t-butyl ether (MtBE	3.31	73	994	1.60	ppb	100
22) Trans-1,2-DCE	3.26	61	3873	10.36	ppb	100
23) Diisopropyl Ether	4.07	45	5838	9.16	ppb	100
24) 1,1-DCA	3.87	63	5084	10.05	ppb	100
25) Vinyl Acetate	4.08	43	1430	8.82	ppb	100
27) MEK (2-Butanone)	4.85	43	4547	43.64	ppb	100
28) Cis-1,2-DCE	4.76	61	3976	9.93	ppb	100
29) 2,2-Dichloropropane	4.75	77	3841	9.26	ppb	100

(#) = qualifier out of range (m) = manual integration
1129L11.D L1129W.M Tue Nov 30 13:15:22 2021 Page 1

Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L11.D Vial: 9
Acq On : 29 Nov 21 17:30 Operator:
Sample : 10ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 09:57:34 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30) Chloroform	5.24	83	6120	10.33 ppb	100
31) Bromochloromethane	5.09	130	2724	10.38 ppb	100
33) 1,1,1-TCA	5.44	97	6138	10.96 ppb	100
34) Cyclohexane	5.50	56	2728	9.08 ppb	100
35) 1,1-Dichloropropene	5.67	75	3160	9.24 ppb	100
36) 2,2,4-Trimethylpentane	6.07	57	2480	9.69 ppb	100
38) Carbon Tetrachloride	5.66	119	5301	10.91 ppb	100
39) Tert Amyl Methyl Ether	6.31	73	684	10.00 ppb	100
40) 1,2-DCA	5.97	62	5032	10.51 ppb	100
41) Benzene	5.93	78	11730	9.71 ppb	100
42) TCE	6.76	130	4328	11.08 ppb	100
43) 2-Pentanone	7.03	43	19134	112.03 ppb	100
44) 1,2-Dichloropropane	7.02	63	3124	9.54 ppb	100
45) Bromodichloromethane	7.36	83	4871	9.89 ppb	100
46) Methyl Cyclohexane	6.97	98	1845	10.33 ppb	100
47) Dibromomethane	7.14	174	3412	11.24 ppb	100
49) MIBK (methyl isobutyl ket	8.10	43	9083	44.09 ppb	100
50) 1-Bromo-2-chloroethane	7.69	63	2277	9.40 ppb	100
51) Cis-1,3-Dichloropropene	7.88	75	3937	8.73 ppb	100
52) Toluene	8.25	91	13621	9.55 ppb	100
53) Trans-1,3-Dichloropropene	8.52	75	2234	8.28 ppb	100
54) 1,1,2-TCA	8.72	97	3504	9.30 ppb	100
55) 2-Hexanone	9.03	43	4990	40.09 ppb	100
58) 1,2-EDB	9.25	107	3673	9.62 ppb	100
59) Tetrachloroethene	8.86	166	2691	8.77 ppb	100
60) 1-Chlorohexane	9.81	91	3202	10.23 ppb	100
61) 1,1,1,2-Tetrachloroethane	9.90	131	4504	11.04 ppb	100
62) m&p-Xylene	10.07	91	22117	17.65 ppb	100
63) o-Xylene	10.50	91	11445	8.99 ppb	100
64) Styrene	10.52	104	8533	8.73 ppb	100
66) 1,3-Dichloropropane	8.90	76	5046	9.82 ppb	100
67) Dibromochloromethane	9.14	129	4337	10.52 ppb	100
68) Chlorobenzene	9.81	112	10641	10.11 ppb	100
69) Ethylbenzene	9.94	91	7758	9.31 ppb	100
70) Bromoform	10.71	173	3449	10.88 ppb	100
72) Isopropylbenzene	10.92	105	13412	8.76 ppb	100
73) 1,1,2,2-Tetrachloroethane	11.24	83	5063	9.75 ppb	100
74) 1,2,3-Trichloropropane	11.28	110	1788	10.09 ppb	100
75) t-1,4-Dichloro-2-Butene	11.31	53	330	8.49 ppb	100
76) Bromobenzene	11.23	158	5129	9.65 ppb	100
77) n-Propylbenzene	11.37	91	15824	8.99 ppb	100
78) 4-Ethyltoluene	11.50	105	13207	8.45 ppb	100

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

Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L11.D Vial: 9
Acq On : 29 Nov 21 17:30 Operator:
Sample : 10ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 09:57:34 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
79) 2-Chlorotoluene	11.45	91	11139	8.72	ppb	100
80) 1,3,5-Trimethylbenzene	11.57	105	12644	8.88	ppb	100
81) 4-Chlorotoluene	11.57	91	13649	9.72	ppb	100
82) Tert-Butylbenzene	11.93	119	11512	9.71	ppb	100
83) 1,2,4-Trimethylbenzene	11.98	105	12181	8.50	ppb	100
84) Sec-Butylbenzene	12.17	105	14384	8.89	ppb	100
85) p-Isopropyltoluene	12.34	119	12954	8.36	ppb	100
86) Benzyl Chloride	12.54	91	1434	4.22	ppb	100
87) 1,3-DCB	12.28	146	10545	10.03	ppb	100
88) 1,4-DCB	12.38	146	11054	10.47	ppb	100
89) n-Butylbenzene	12.80	91	9797	8.13	ppb	100
90) 1,2-DCB	12.79	146	10278	9.87	ppb	100
91) Hexachloroethane	13.08	117	3294	12.02	ppb	100
92) 1,2-Dibromo-3-chloropropan	13.67	157	1010	11.27	ppb	100
93) 1,2,4-Trichlorobenzene	14.61	180	2371	8.99	ppb	100
94) Hexachlorobutadiene	14.82	225	1564	9.94	ppb	100
95) Naphthalene	14.87	128	3150	8.11	ppb	100
96) 1,2,3-Trichlorobenzene	15.15	182	2108	8.63	ppb	100

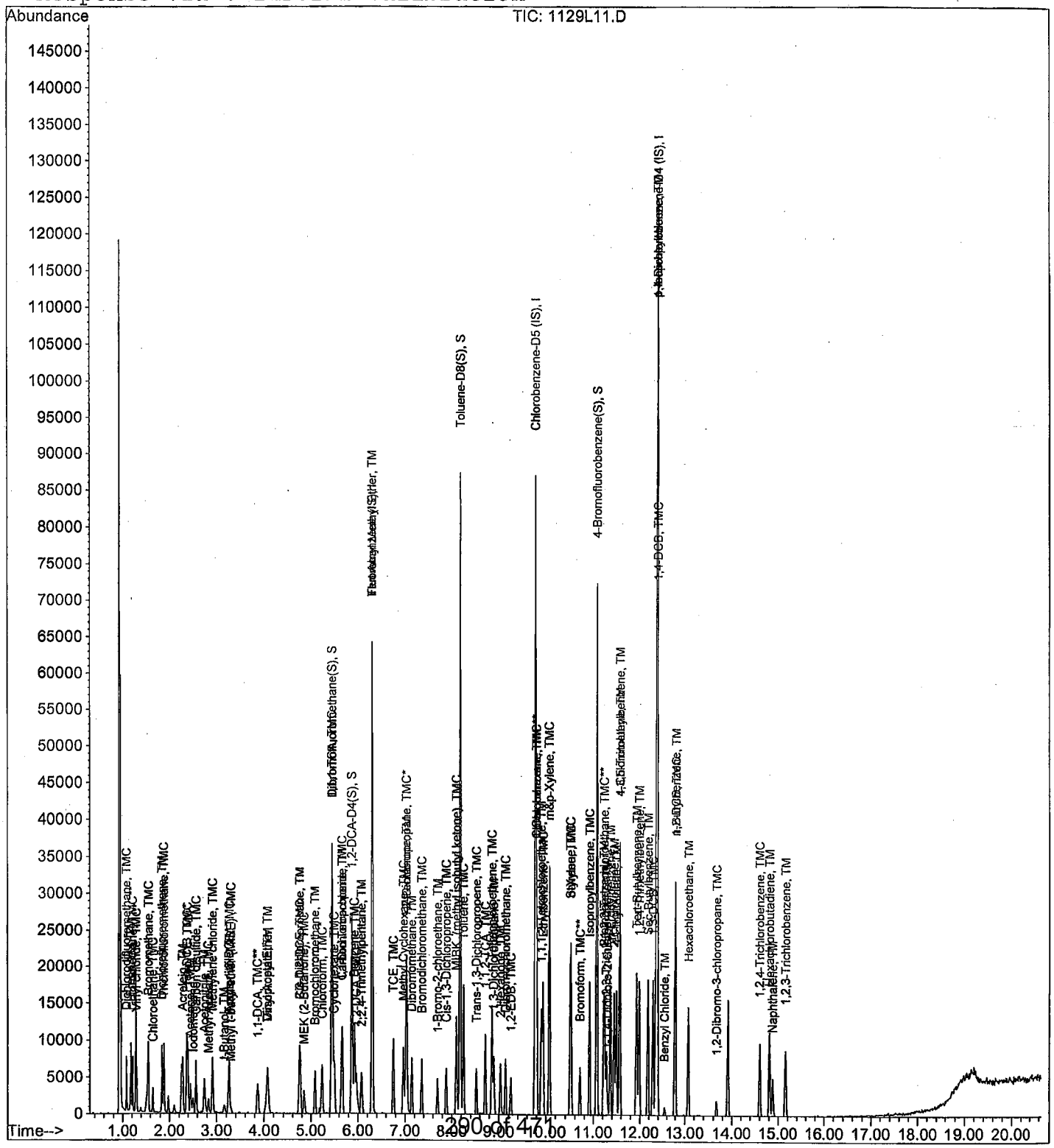
(#) = qualifier out of range (m) = manual integration
1129L11.D L1129W.M Tue Nov 30 12:15:22 2021

Quantitation Report

Data File : M:\LOKI\DATA\211129\1129L11.D Vial: 9
Acq On : 29 Nov 21 17:30 Operator:
Sample : 10ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L12.D Vial: 10
Acq On : 29 Nov 21 17:57 Operator:
Sample : 20ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 09:57:34 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	6.30	96	70045	25.00	ppb		0.00
56) Chlorobenzene-D5 (IS)	9.77	117	60915	25.00	ppb		0.00
71) 1,4-Dichlorobenzene-D4 (IS	12.36	152	44236	25.00	ppb		0.00
System Monitoring Compounds							
32) Dibromofluoromethane(S)	5.45	113	41670	47.17	ppb		0.00
Spiked Amount 25.000			Recovery = 188.692%				
37) 1,2-DCA-D4(S)	5.87	65	42579	44.86	ppb		0.00
Spiked Amount 25.000			Recovery = 179.420%				
57) Toluene-D8(S)	8.18	98	141241	49.31	ppb		0.00
Spiked Amount 25.000			Recovery = 197.224%				
65) 4-Bromofluorobenzene(S)	11.07	174	57671	53.68	ppb		0.00
Spiked Amount 25.000			Recovery = 214.740%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.08	85	8950	22.55	ppb		99
3) Freon 114	1.18	85	6200	24.02	ppb		98
4) Chloromethane	1.22	50	8213	20.33	ppb		95
5) Vinyl chloride	1.31	62	7029	18.53	ppb		98
6) Bromomethane	1.56	96	14201	23.64	ppb		85
7) Chloroethane	1.65	64	4418	18.03	ppb		99
8) Dichlorofluoromethane	1.84	67	13003	19.14	ppb		99
9) Trichlorofluoromethane	1.88	101	8576	17.81	ppb		95
10) Acrolein	2.28	56	4165	120.65	ppb		97
11) Acetone	2.45	43	5784	53.64	ppb		94
12) Freon-113	2.39	101	6692	21.14	ppb		95
13) 1,1-DCE	2.37	61	9530	21.05	ppb		97
14) t-Butanol	3.16	59	2058	78.24	ppb		91
15) Acetonitrile	2.75	41	6155	136.96	ppb		92
16) Methyl Acetate	2.83	43	4777	19.79	ppb		99
17) Iodomethane	2.51	142	4971	18.68	ppb		99
18) Acrylonitrile	3.25	53	2100	18.06	ppb	#	94
19) Methylene chloride	2.92	84	7502	19.32	ppb		97
20) Carbon disulfide	2.57	76	10602	20.61	ppb		99
21) Methyl t-butyl ether (MtBE	3.30	73	2222	3.23	ppb	#	100
22) Trans-1,2-DCE	3.26	61	7911	19.05	ppb		95
23) Diisopropyl Ether	4.07	45	13586	19.18	ppb		98
24) 1,1-DCA	3.87	63	10686	19.02	ppb		98
25) Vinyl Acetate	4.08	43	2863	15.91	ppb		100
27) MEK (2-Butanone)	4.85	43	6200	53.58	ppb		89
28) Cis-1,2-DCE	4.76	61	8204	18.45	ppb		94
29) 2,2-Dichloropropane	4.75	77	8132	17.64	ppb		98

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

Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L12.D Vial: 10
Acq On : 29 Nov 21 17:57 Operator:
Sample : 20ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 09:57:34 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30) Chloroform	5.24	83	13408	20.37 ppb	96
31) Bromochloromethane	5.09	130	5971	20.92 ppb	92
33) 1,1,1-TCA	5.44	97	11916	19.16 ppb	100
34) Cyclohexane	5.50	56	6815	18.41 ppb	92
35) 1,1-Dichloropropene	5.67	75	7310	18.05 ppb	90
36) 2,2,4-Trimethylpentane	6.08	57	5758	20.26 ppb	98
38) Carbon Tetrachloride	5.66	119	11219	20.53 ppb	96
39) Tert Amyl Methyl Ether	6.31	73	819	10.78 ppb	100
40) 1,2-DCA	5.97	62	10173	19.14 ppb	91
41) Benzene	5.93	78	25118	18.72 ppb	97
42) TCE	6.75	130	8853	20.41 ppb	82
43) 2-Pentanone	7.03	43	25732	135.64 ppb	100
44) 1,2-Dichloropropane	7.01	63	6048	16.64 ppb	97
45) Bromodichloromethane	7.36	83	10209	18.66 ppb	98
46) Methyl Cyclohexane	6.97	98	4267	18.56 ppb	94
47) Dibromomethane	7.15	174	7252	21.50 ppb	93
49) MIBK (methyl isobutyl ket	8.10	43	11780	51.48 ppb	97
50) 1-Bromo-2-chloroethane	7.70	63	4543	16.89 ppb	99
51) Cis-1,3-Dichloropropene	7.88	75	9183	18.33 ppb	93
52) Toluene	8.25	91	29974	18.93 ppb	94
53) Trans-1,3-Dichloropropene	8.52	75	4862	16.22 ppb	95
54) 1,1,2-TCA	8.71	97	7534	18.00 ppb	94
55) 2-Hexanone	9.03	43	6891	49.85 ppb	93
58) 1,2-EDB	9.25	107	7956	18.71 ppb	95
59) Tetrachloroethene	8.86	166	5868	17.59 ppb	92
60) 1-Chlorohexane	9.81	91	6778	18.45 ppb	97
61) 1,1,1,2-Tetrachloroethane	9.90	131	9224	20.79 ppb	92
62) m&p-Xylene	10.07	91	51586	35.29 ppb	97
63) o-Xylene	10.50	91	25580	17.17 ppb	96
64) Styrene	10.52	104	19675	16.41 ppb	93
66) 1,3-Dichloropropane	8.90	76	10694	19.14 ppb	98
67) Dibromochloromethane	9.14	129	9395	20.94 ppb	96
68) Chlorobenzene	9.80	112	23476	20.51 ppb	97
69) Ethylbenzene	9.94	91	17696	19.53 ppb	99
70) Bromoform	10.70	173	7382	20.14 ppb	96
72) Isopropylbenzene	10.91	105	30996	17.77 ppb	93
73) 1,1,2,2-Tetrachloroethane	11.25	83	10251	17.34 ppb	98
74) 1,2,3-Trichloropropane	11.28	110	3956	19.10 ppb	87
75) t-1,4-Dichloro-2-Butene	11.31	53	831	13.46 ppb	97
76) Bromobenzene	11.23	158	11407	18.83 ppb	97
77) n-Propylbenzene	11.36	91	37043	18.47 ppb	98
78) 4-Ethyltoluene	11.50	105	32808	17.10 ppb	99

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

Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L12.D Vial: 10
Acq On : 29 Nov 21 17:57 Operator:
Sample : 20ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 09:57:34 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
79) 2-Chlorotoluene	11.44	91	31316	21.53	ppb		92
80) 1,3,5-Trimethylbenzene	11.57	105	31055	19.15	ppb		94
81) 4-Chlorotoluene	11.57	91	32115	20.08	ppb		97
82) Tert-Butylbenzene	11.93	119	25260	18.70	ppb		88
83) 1,2,4-Trimethylbenzene	11.98	105	30455	17.15	ppb		95
84) Sec-Butylbenzene	12.17	105	35823	19.43	ppb		99
85) p-Isopropyltoluene	12.34	119	30981	16.26	ppb		95
86) Benzyl Chloride	12.54	91	3416	8.83	ppb	#	80
87) 1,3-DCB	12.28	146	23340	19.49	ppb		96
88) 1,4-DCB	12.38	146	24417	20.31	ppb		96
89) n-Butylbenzene	12.80	91	23491	15.36	ppb		95
90) 1,2-DCB	12.80	146	23861	19.71	ppb		96
91) Hexachloroethane	13.08	117	7148	23.21	ppb		98
92) 1,2-Dibromo-3-chloropropan	13.68	157	2601	21.01	ppb		92
93) 1,2,4-Trichlorobenzene	14.60	180	5907	16.75	ppb		98
94) Hexachlorobutadiene	14.81	225	3193	17.81	ppb		90
95) Naphthalene	14.88	128	7755	15.88	ppb		95
96) 1,2,3-Trichlorobenzene	15.16	182	5078	15.94	ppb		89

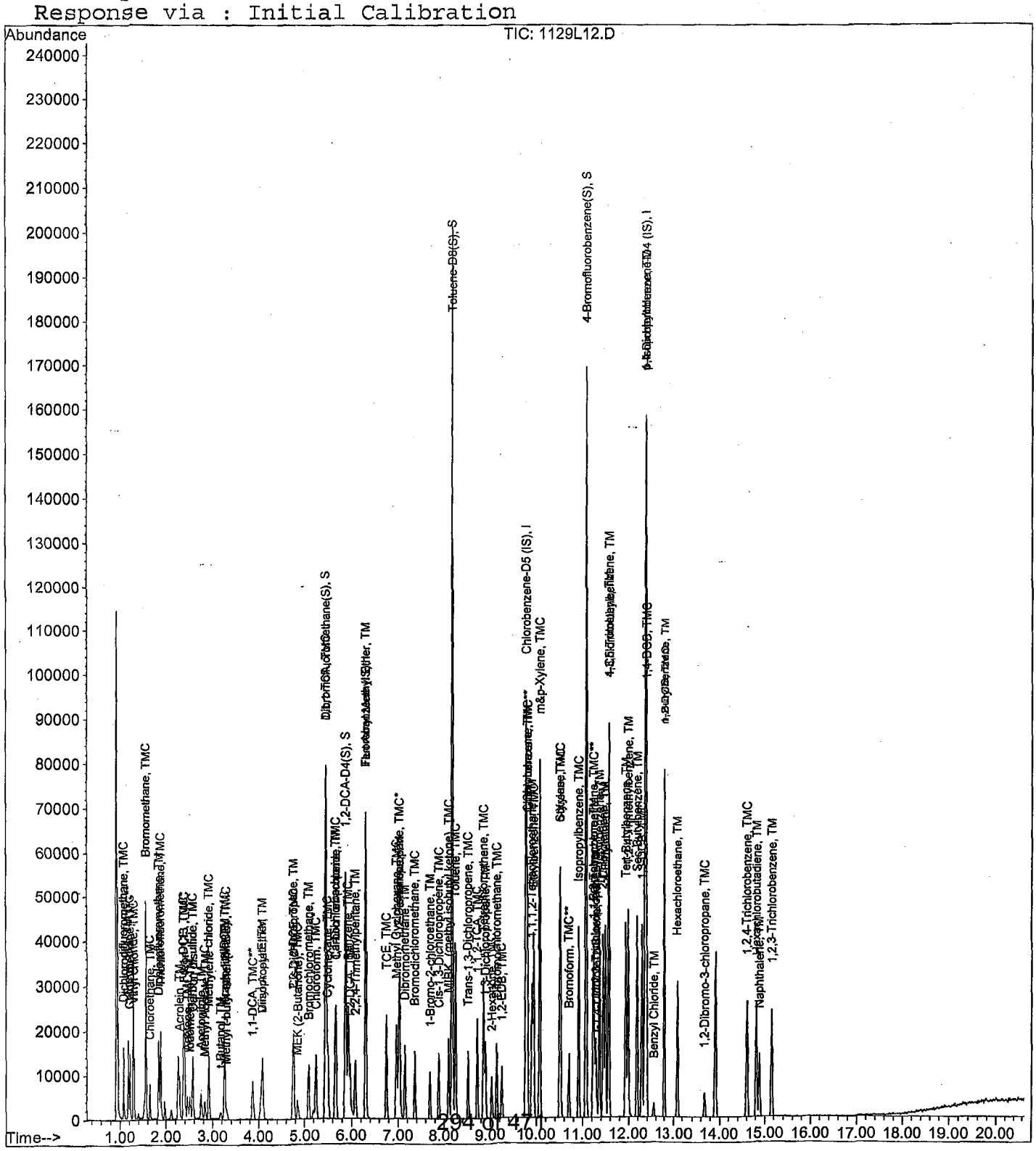
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LOKI\DATA\211129\1129L12.D Vial: 10
Acq On : 29 Nov 21 17:57 Operator:
Sample : 20ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L13.D Vial: 11
Acq On : 29 Nov 21 18:25 Operator:
Sample : 40ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 09:57:34 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	6.30	96	71155	25.00	ppb		0.00
56) Chlorobenzene-D5 (IS)	9.78	117	62470	25.00	ppb		0.00
71) 1,4-Dichlorobenzene-D4 (IS	12.36	152	44449	25.00	ppb		0.00
System Monitoring Compounds							
32) Dibromofluoromethane(S)	5.45	113	41752	46.53	ppb		0.00
Spiked Amount 25.000			Recovery =	186.116%			
37) 1,2-DCA-D4(S)	5.87	65	42955	44.55	ppb		0.00
Spiked Amount 25.000			Recovery =	178.180%			
57) Toluene-D8(S)	8.18	98	147548	50.23	ppb		0.00
Spiked Amount 25.000			Recovery =	200.904%			
65) 4-Bromofluorobenzene(S)	11.07	174	60504	54.92	ppb		0.00
Spiked Amount 25.000			Recovery =	219.680%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.08	85	17428	43.22	ppb		96
3) Freon 114	1.18	85	11452	43.67	ppb		94
4) Chloromethane	1.22	50	16962	41.33	ppb		93
5) Vinyl chloride	1.31	62	14040	36.43	ppb		98
6) Bromomethane	1.56	96	27622	45.30	ppb		85
7) Chloroethane	1.65	64	9133	36.69	ppb		99
8) Dichlorofluoromethane	1.84	67	26538	38.44	ppb		100
9) Trichlorofluoromethane	1.88	101	17096	34.96	ppb		98
10) Acrolein	2.29	56	4934	140.69	ppb		97
11) Acetone	2.45	43	7887	72.00	ppb		93
12) Freon-113	2.39	101	13743	43.02	ppb		97
13) 1,1-DCE	2.37	61	18106	39.37	ppb		97
14) t-Butanol	3.18	59	4122	154.27	ppb		93
15) Acetonitrile	2.75	41	7527	164.88	ppb		95
16) Methyl Acetate	2.83	43	9986	40.95	ppb		97
17) Iodomethane	2.51	142	11340	37.51	ppb		94
18) Acrylonitrile	3.24	53	4257	34.86	ppb		91
19) Methylene chloride	2.92	84	15252	39.56	ppb		96
20) Carbon disulfide	2.57	76	21560	41.26	ppb		97
21) Methyl t-butyl ether (MtBE	3.31	73	5168	7.39	ppb	#	100
22) Trans-1,2-DCE	3.26	61	16066	38.07	ppb		98
23) Diisopropyl Ether	4.07	45	28434	39.52	ppb		94
24) 1,1-DCA	3.87	63	21252	37.24	ppb		98
25) Vinyl Acetate	4.07	43	6070	33.20	ppb		100
26) Ethyl tert Butyl Ether	4.76	59	264	0.51	ppb	#	41
27) MEK (2-Butanone)	4.85	43	9091	77.34	ppb		96
28) Cis-1,2-DCE	4.76	61	17494	38.73	ppb		98

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

Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L13.D Vial: 11
Acq On : 29 Nov 21 18:25 Operator:
Sample : 40ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 09:57:34 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) 2,2-Dichloropropane	4.75	77	16808	35.90 ppb	98
30) Chloroform	5.24	83	26883	40.20 ppb	97
31) Bromochloromethane	5.09	130	11408	39.73 ppb	94
33) 1,1,1-TCA	5.44	97	24344	38.53 ppb	100
34) Cyclohexane	5.50	56	15113	38.29 ppb	91
35) 1,1-Dichloropropene	5.67	75	16027	37.66 ppb	91
36) 2,2,4-Trimethylpentane	6.08	57	12491	43.26 ppb	96
38) Carbon Tetrachloride	5.66	119	21716	38.87 ppb	92
39) Tert Amyl Methyl Ether	6.30	73	891	11.55 ppb	100
40) 1,2-DCA	5.97	62	20480	37.93 ppb	95
41) Benzene	5.93	78	52766	38.71 ppb	98
42) TCE	6.75	130	18179	41.25 ppb	95
43) 2-Pentanone	7.04	43	32270	167.46 ppb	95
44) 1,2-Dichloropropane	7.01	63	13595	36.81 ppb	92
45) Bromodichloromethane	7.36	83	21720	39.08 ppb	92
46) Methyl Cyclohexane	6.96	98	9964	39.12 ppb	86
47) Dibromomethane	7.15	174	15204	44.37 ppb	94
49) MIBK (methyl isobutyl ket	8.10	43	17701	76.15 ppb	98
50) 1-Bromo-2-chloroethane	7.69	63	9553	34.96 ppb	97
51) Cis-1,3-Dichloropropene	7.88	75	19528	38.37 ppb	95
52) Toluene	8.25	91	64547	40.12 ppb	97
53) Trans-1,3-Dichloropropene	8.52	75	9949	32.68 ppb	99
54) 1,1,2-TCA	8.72	97	15271	35.91 ppb	95
55) 2-Hexanone	9.03	43	10249	72.98 ppb	97
58) 1,2-EDB	9.25	107	16928	38.34 ppb	96
59) Tetrachloroethene	8.86	166	12769	37.32 ppb	87
60) 1-Chlorohexane	9.81	91	14767	37.45 ppb	95
61) 1,1,1,2-Tetrachloroethane	9.90	131	18278	40.16 ppb	93
62) m&p-Xylene	10.07	91	115643	74.52 ppb	97
63) o-Xylene	10.50	91	56865	35.78 ppb	97
64) Styrene	10.52	104	46678	35.53 ppb	97
66) 1,3-Dichloropropane	8.90	76	22796	39.78 ppb	99
67) Dibromochloromethane	9.14	129	19712	42.85 ppb	92
68) Chlorobenzene	9.80	112	47548	40.52 ppb	97
69) Ethylbenzene	9.94	91	41632	44.79 ppb	99
70) Bromoform	10.71	173	15288	39.34 ppb	98
72) Isopropylbenzene	10.92	105	68574	39.14 ppb	97
73) 1,1,2,2-Tetrachloroethane	11.25	83	21060	35.45 ppb	93
74) 1,2,3-Trichloropropane	11.28	110	7596	36.01 ppb	79
75) t-1,4-Dichloro-2-Butene	11.31	53	2077	26.97 ppb	98
76) Bromobenzene	11.23	158	22724	37.34 ppb	93
77) n-Propylbenzene	11.37	91	82280	40.83 ppb	94

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

Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L13.D Vial: 11
Acq On : 29 Nov 21 18:25 Operator:
Sample : 40ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 09:57:34 2021
Response via : Initial Calibration
DataAcq Meth : L8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
78)	4-Ethyltoluene	11.50	105	74690	37.33	ppb		97
79)	2-Chlorotoluene	11.45	91	63936	43.74	ppb		95
80)	1,3,5-Trimethylbenzene	11.57	105	67984	41.72	ppb		94
81)	4-Chlorotoluene	11.57	91	66636	41.47	ppb		98
82)	Tert-Butylbenzene	11.93	119	56811	41.85	ppb		95
83)	1,2,4-Trimethylbenzene	11.98	105	68561	36.84	ppb		95
84)	Sec-Butylbenzene	12.18	105	80166	43.28	ppb		97
85)	p-Isopropyltoluene	12.34	119	70368	35.26	ppb		96
86)	Benzyl Chloride	12.54	91	7909	20.34	ppb	#	81
87)	1,3-DCB	12.28	146	48384	40.22	ppb		99
88)	1,4-DCB	12.38	146	48176	39.88	ppb		95
89)	n-Butylbenzene	12.80	91	56612	34.62	ppb		98
90)	1,2-DCB	12.80	146	47387	38.58	ppb		95
91)	Hexachloroethane	13.08	117	14324	46.63	ppb		98
92)	1,2-Dibromo-3-chloropropan	13.67	157	5092	37.58	ppb	#	84
93)	1,2,4-Trichlorobenzene	14.61	180	13317	34.54	ppb		100
94)	Hexachlorobutadiene	14.81	225	7285	40.44	ppb		89
95)	Naphthalene	14.88	128	21488	36.70	ppb		95
96)	1,2,3-Trichlorobenzene	15.16	182	12446	35.91	ppb		90

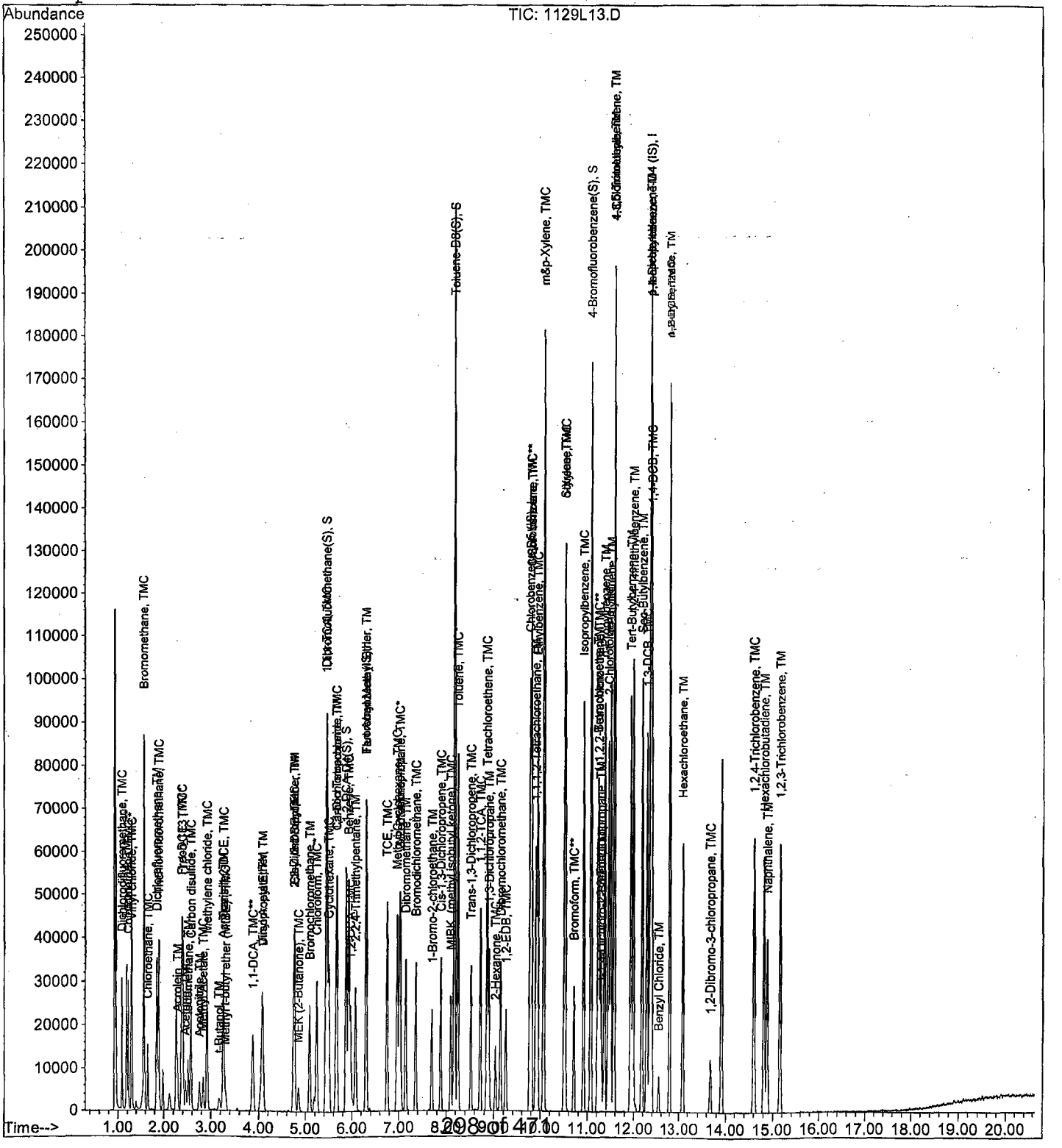
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LOKI\DATA\211129\1129L13.D Vial: 11
Acq On : 29 Nov 21 18:25 Operator:
Sample : 40ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L14.D Vial: 12
Acq On : 29 Nov 21 18:53 Operator:
Sample : 100ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 09:57:34 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	6.30	96	74637	25.00	ppb		0.00
56) Chlorobenzene-D5 (IS)	9.78	117	70009	25.00	ppb		0.00
71) 1,4-Dichlorobenzene-D4 (IS	12.36	152	51004	25.00	ppb		0.00
System Monitoring Compounds							
32) Dibromofluoromethane(S)	5.45	113	80251	85.26	ppb		0.00
Spiked Amount 25.000			Recovery = 341.040%				
37) 1,2-DCA-D4(S)	5.87	65	80562	79.65	ppb		0.00
Spiked Amount 25.000			Recovery = 318.588%				
57) Toluene-D8(S)	8.17	98	296195	89.97	ppb		0.00
Spiked Amount 25.000			Recovery = 359.872%				
65) 4-Bromofluorobenzene(S)	11.07	174	135366	109.64	ppb		0.00
Spiked Amount 25.000			Recovery = 438.564%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.08	85	45306	107.11	ppb		97
3) Freon 114	1.18	85	31055	112.90	ppb		99
4) Chloromethane	1.22	50	41712	96.90	ppb		97
5) Vinyl chloride	1.31	62	35179	87.02	ppb		98
6) Bromomethane	1.56	96	68129	106.56	ppb		85
7) Chloroethane	1.64	64	25363	97.13	ppb		96
8) Dichlorofluoromethane	1.84	67	65227	90.08	ppb		99
9) Trichlorofluoromethane	1.88	101	43288	84.39	ppb		97
10) Acrolein	2.28	56	5773	156.94	ppb		89
11) Acetone	2.45	43	9741	84.77	ppb		93
12) Freon-113	2.39	101	34595	103.64	ppb		96
13) 1,1-DCE	2.37	61	48382	100.31	ppb		96
14) t-Butanol	3.20	59	11484	409.74	ppb		94
15) Acetonitrile	2.75	41	9382	195.93	ppb		95
16) Methyl Acetate	2.83	43	25795	101.13	ppb		100
17) Iodomethane	2.51	142	34177	101.12	ppb		99
18) Acrylonitrile	3.25	53	11663	89.15	ppb		92
19) Methylene chloride	2.92	84	39288	98.47	ppb		94
20) Carbon disulfide	2.57	76	56344	102.80	ppb		99
21) Methyl t-butyl ether (MtBE	3.31	73	16017	21.84	ppb	#	100
22) Trans-1,2-DCE	3.26	61	42217	95.38	ppb		95
23) Diisopropyl Ether	4.07	45	82228	108.97	ppb		97
24) 1,1-DCA	3.87	63	54166	90.50	ppb		100
25) Vinyl Acetate	4.07	43	16424	85.64	ppb	#	100
26) Ethyl tert Butyl Ether	4.63	59	1336	2.44	ppb		97
27) MEK (2-Butanone)	4.85	43	11452	92.88	ppb		90
28) Cis-1,2-DCE	4.76	61	47013	99.22	ppb		97

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

Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L14.D Vial: 12
Acq On : 29 Nov 21 18:53 Operator:
Sample : 100ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 09:57:34 2021
Response via : Initial Calibration
DataAcq Meth : L8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	2,2-Dichloropropane	4.75	77	43979	89.55	ppb		97
30)	Chloroform	5.24	83	68711	97.97	ppb		98
31)	Bromochloromethane	5.09	130	28695	95.87	ppb		91
33)	1,1,1-TCA	5.44	97	63466	95.76	ppb		98
34)	Cyclohexane	5.50	56	44408	104.38	ppb		91
35)	1,1-Dichloropropene	5.67	75	43711	96.14	ppb		93
36)	2,2,4-Trimethylpentane	6.07	57	35176	116.15	ppb		96
38)	Carbon Tetrachloride	5.65	119	59082	100.35	ppb		96
39)	Tert Amyl Methyl Ether	6.31	73	1048	12.95	ppb		100
40)	1,2-DCA	5.97	62	52189	92.14	ppb		95
41)	Benzene	5.93	78	136261	95.29	ppb		100
42)	TCE	6.75	130	48212	104.30	ppb		92
43)	2-Pentanone	7.03	43	39415	194.99	ppb		99
44)	1,2-Dichloropropane	7.01	63	35628	91.97	ppb		92
45)	Bromodichloromethane	7.36	83	57093	97.93	ppb		97
46)	Methyl Cyclohexane	6.96	98	28803	103.03	ppb		85
47)	Dibromomethane	7.15	174	39522	109.97	ppb		92
49)	MIBK (methyl isobutyl ket	8.10	43	25433	104.31	ppb	#	96
50)	1-Bromo-2-chloroethane	7.69	63	25744	89.81	ppb		99
51)	Cis-1,3-Dichloropropene	7.88	75	56653	106.12	ppb		95
52)	Toluene	8.25	91	173389	102.75	ppb		98
53)	Trans-1,3-Dichloropropene	8.52	75	30640	95.94	ppb		96
54)	1,1,2-TCA	8.72	97	42205	94.61	ppb		96
55)	2-Hexanone	9.03	43	15550	105.56	ppb		97
58)	1,2-EDB	9.25	107	46370	93.05	ppb		99
59)	Tetrachloroethene	8.86	166	37280	97.22	ppb		91
60)	1-Chlorohexane	9.81	91	47981	105.65	ppb		86
61)	1,1,1,2-Tetrachloroethane	9.90	131	55036	107.91	ppb		90
62)	m&p-Xylene	10.07	91	337826	190.67	ppb		98
63)	o-Xylene	10.51	91	173342	95.21	ppb		95
64)	Styrene	10.52	104	142264	93.43	ppb		97
66)	1,3-Dichloropropane	8.90	76	65219	101.56	ppb		96
67)	Dibromochloromethane	9.14	129	56769	110.11	ppb		96
68)	Chlorobenzene	9.80	112	137164	104.29	ppb		98
69)	Ethylbenzene	9.94	91	123408	118.48	ppb		98
70)	Bromoform	10.70	173	45236	101.72	ppb		99
72)	Isopropylbenzene	10.92	105	214594	106.73	ppb		96
73)	1,1,2,2-Tetrachloroethane	11.25	83	59881	87.83	ppb		99
74)	1,2,3-Trichloropropane	11.28	110	22038	90.23	ppb	#	78
75)	t-1,4-Dichloro-2-Butene	11.31	53	7075	71.44	ppb		96
76)	Bromobenzene	11.23	158	68463	98.04	ppb		97
77)	n-Propylbenzene	11.37	91	247317	106.95	ppb		98

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

Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L14.D Vial: 12
Acq On : 29 Nov 21 18:53 Operator:
Sample : 100ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 09:57:34 2021
Response via : Initial Calibration
DataAcq Meth : L8260

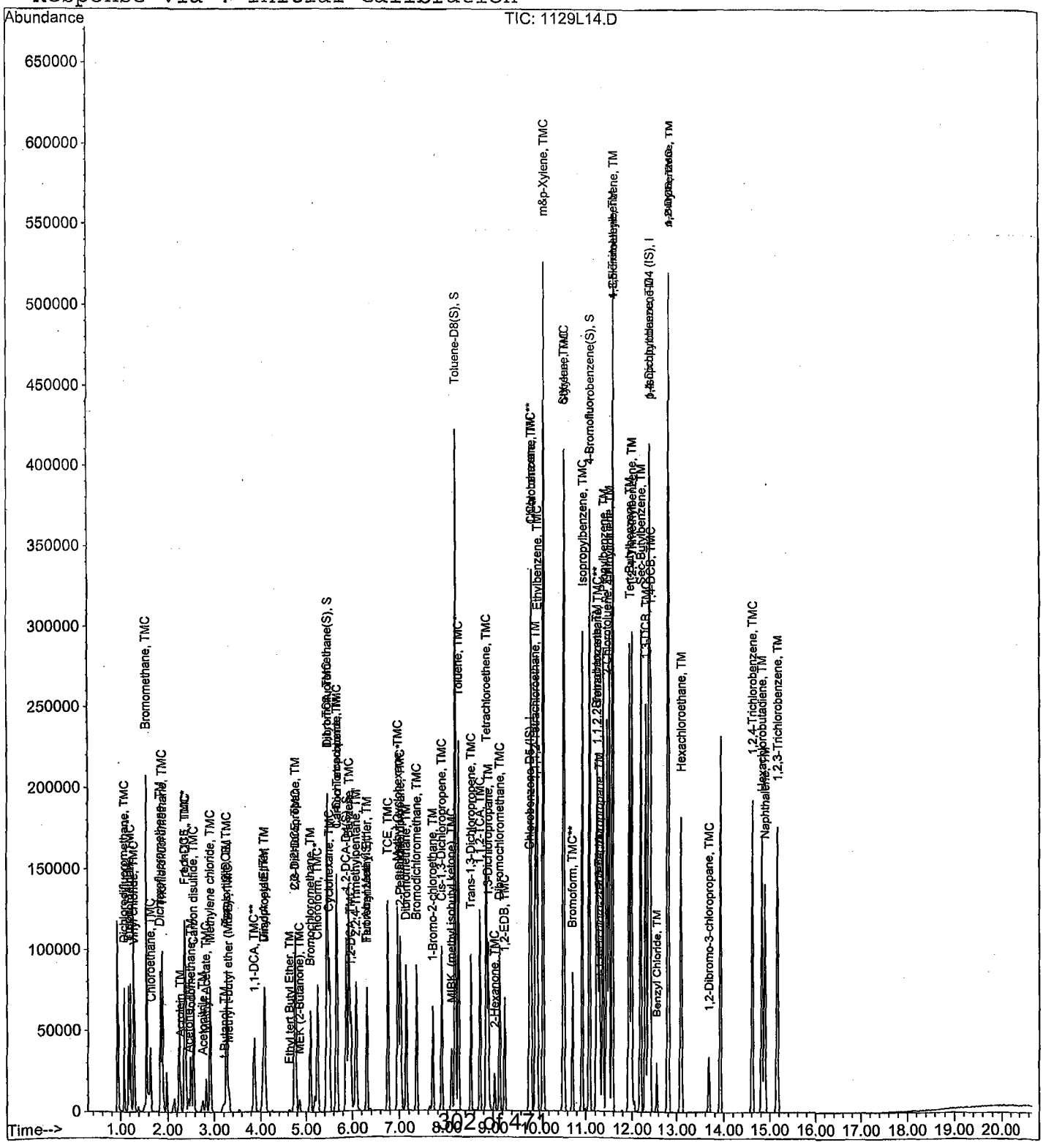
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
78)	4-Ethyltoluene	11.50	105	221176	94.56	ppb		95
79)	2-Chlorotoluene	11.45	91	153277	91.39	ppb		97
80)	1,3,5-Trimethylbenzene	11.57	105	196153	104.90	ppb		94
81)	4-Chlorotoluene	11.57	91	185312	100.50	ppb		97
82)	Tert-Butylbenzene	11.93	119	174269	111.88	ppb		94
83)	1,2,4-Trimethylbenzene	11.98	105	201365	92.30	ppb		97
84)	Sec-Butylbenzene	12.18	105	238502	112.22	ppb		99
85)	p-Isopropyltoluene	12.35	119	215132	91.98	ppb		94
86)	Benzyl Chloride	12.54	91	27201	60.98	ppb		87
87)	1,3-DCB	12.28	146	139174	100.82	ppb		96
88)	1,4-DCB	12.38	146	142663	102.92	ppb		96
89)	n-Butylbenzene	12.80	91	171161	88.63	ppb		95
90)	1,2-DCB	12.80	146	142897	100.75	ppb		96
91)	Hexachloroethane	13.09	117	40734	116.06	ppb		88
92)	1,2-Dibromo-3-chloropropan	13.68	157	13773	83.76	ppb	#	89
93)	1,2,4-Trichlorobenzene	14.61	180	39864	86.16	ppb		99
94)	Hexachlorobutadiene	14.81	225	20592	99.62	ppb		94
95)	Naphthalene	14.88	128	73360	82.14	ppb		95
96)	1,2,3-Trichlorobenzene	15.16	182	34616	84.09	ppb		93

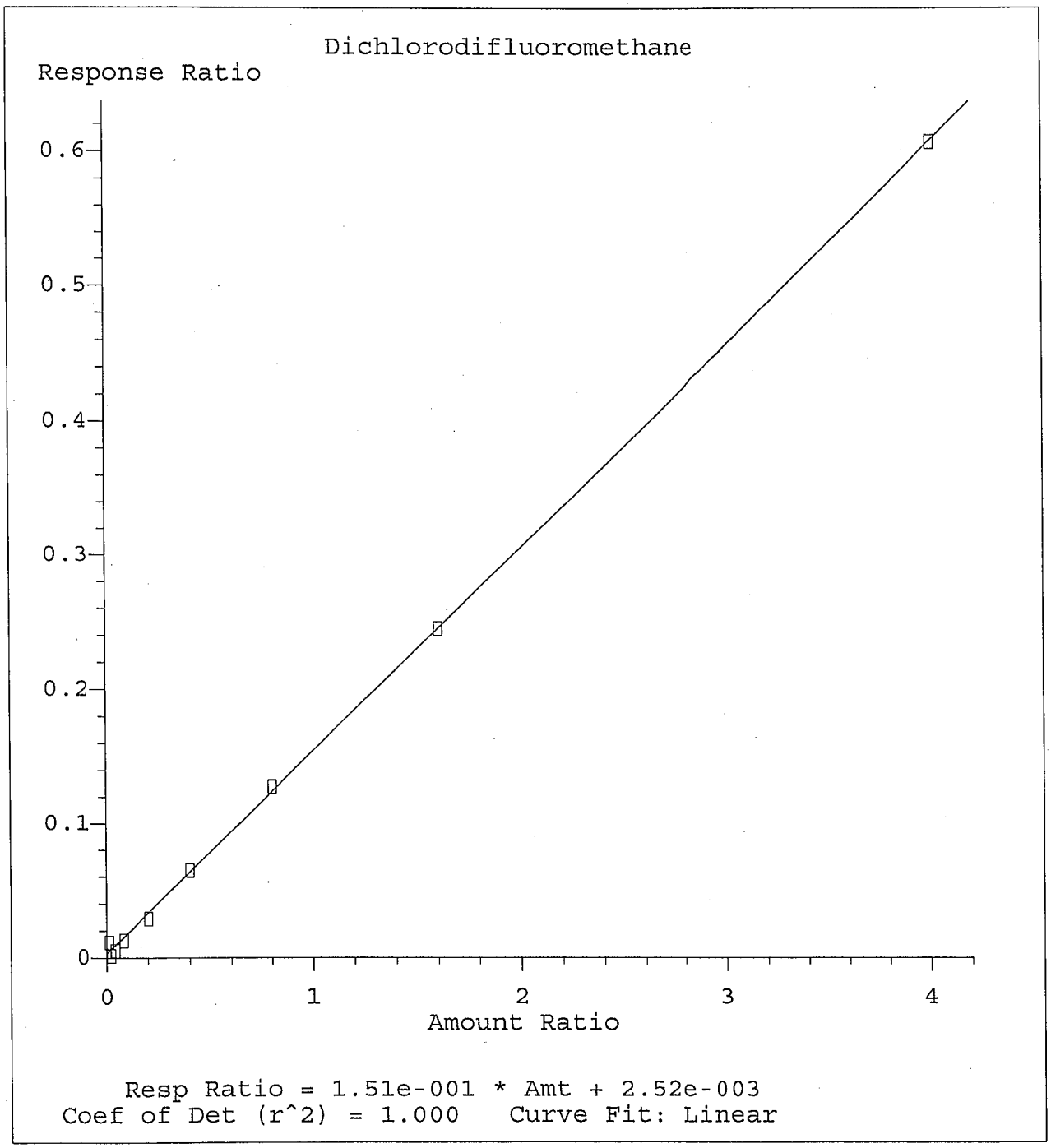
Quantitation Report

Data File : M:\LOKI\DATA\211129\1129L14.D Vial: 12
Acq On : 29 Nov 21 18:53 Operator:
Sample : 100ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

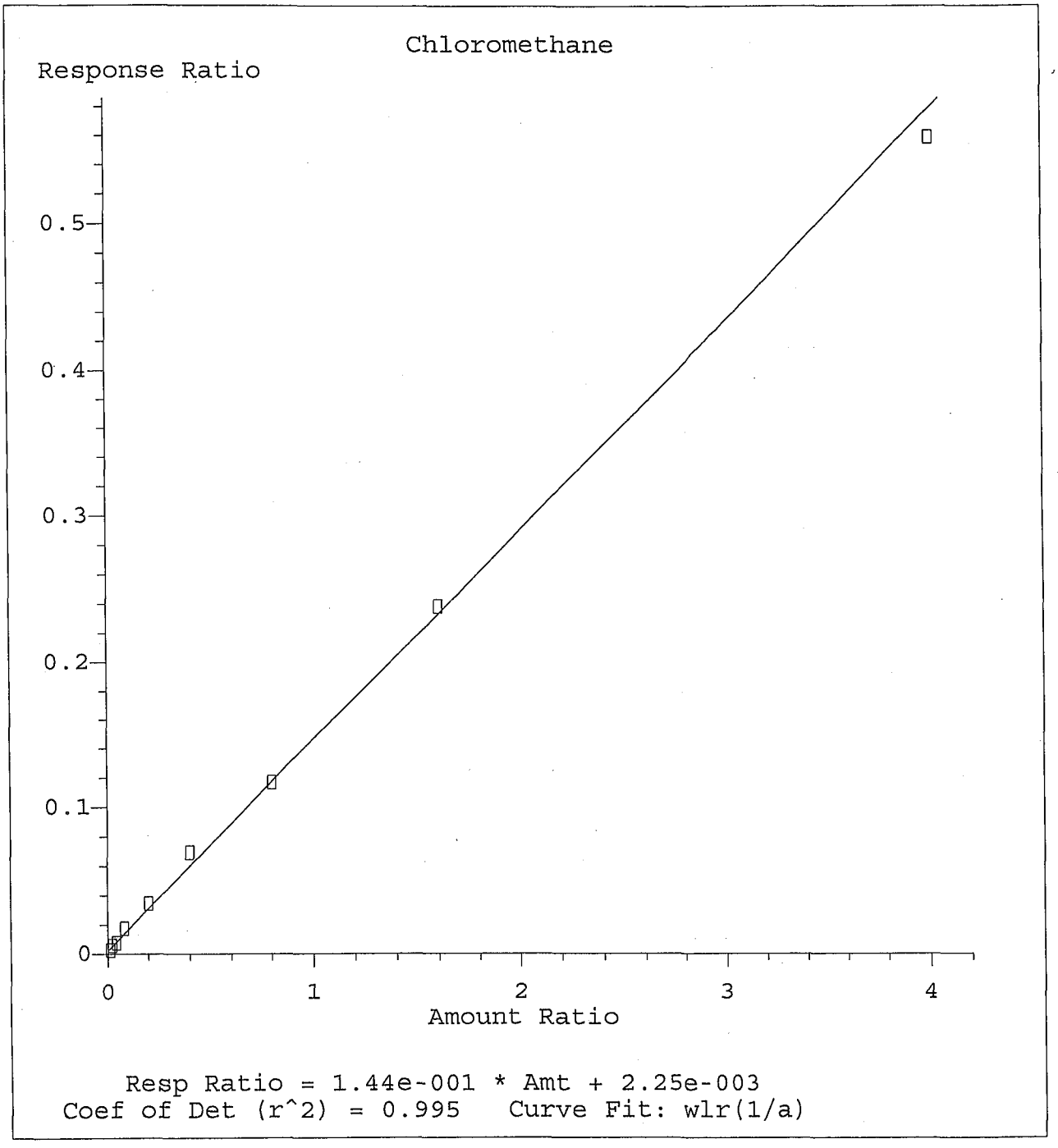
Quant Time: Nov 30 9:58 2021 Quant Results File: L1129W.RES

Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration





Method Name: M:\LOKI\DATA\211129\L1129W.M
Calibration Table Last Updated: Tue Nov 30 10:12:54 2021



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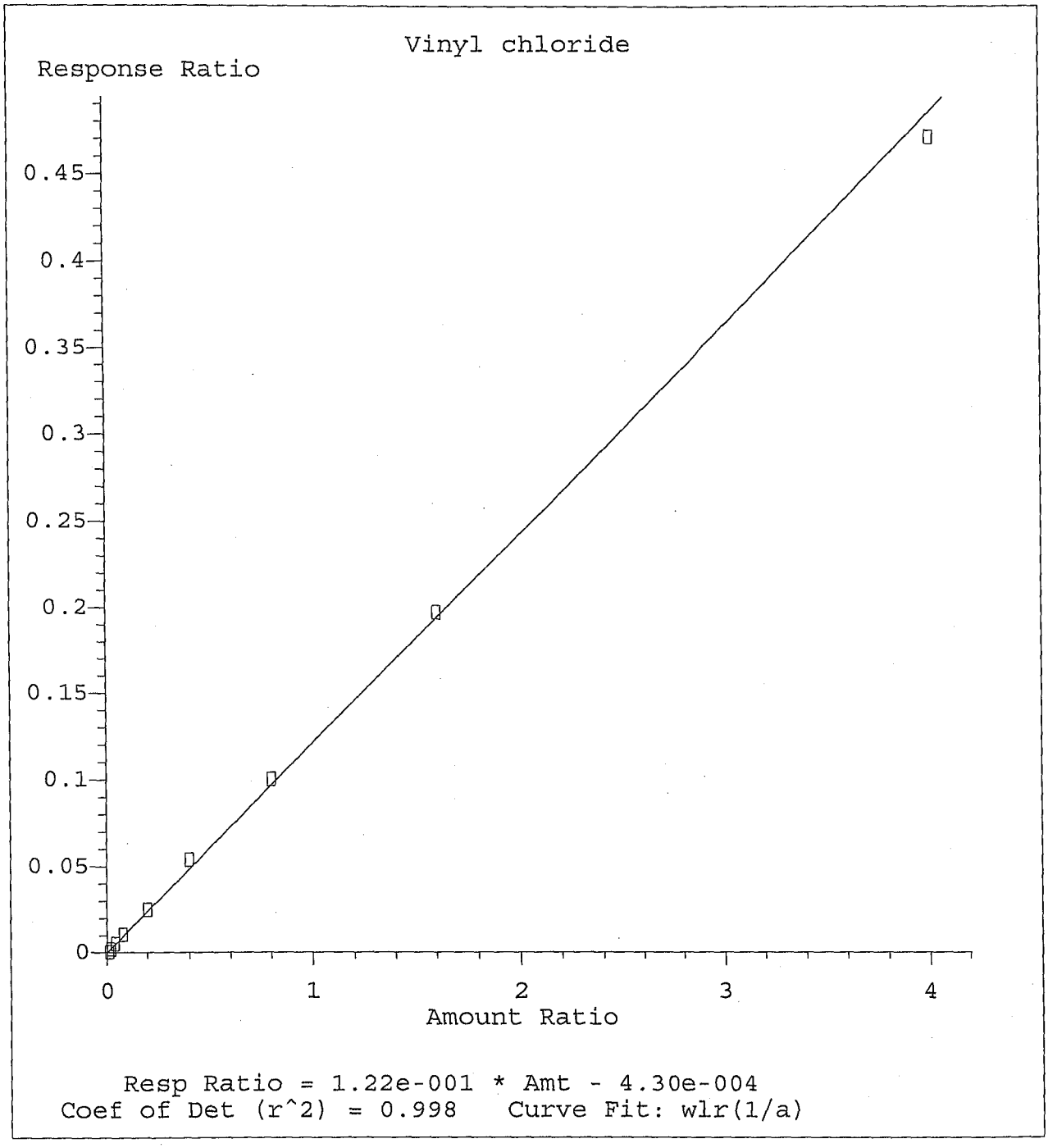
Calibration Table Last Updated: Tue Nov 30 10:12:54 2021



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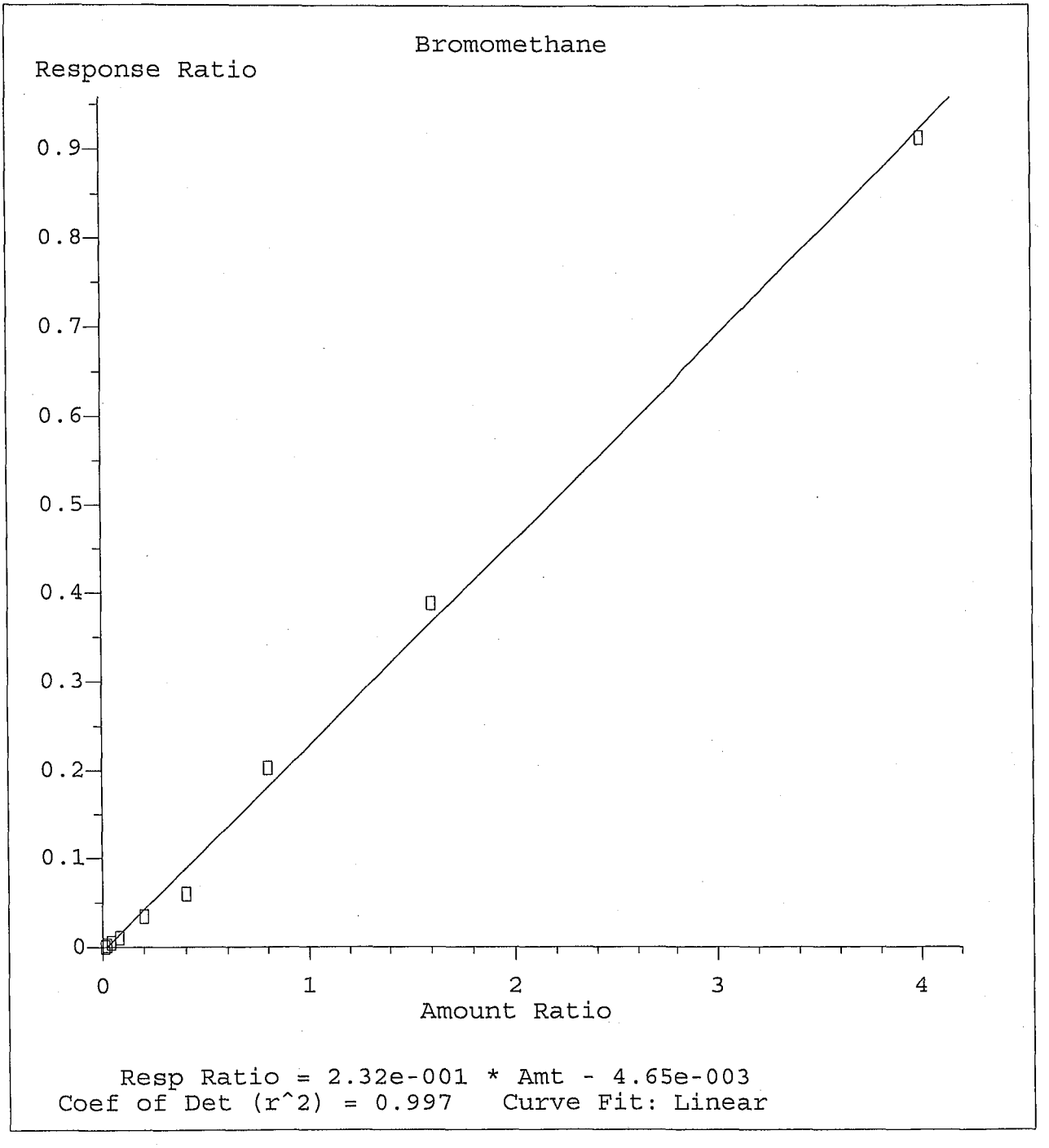
Calibration Table Last Updated: Tue Nov 30 10:12:54 2021



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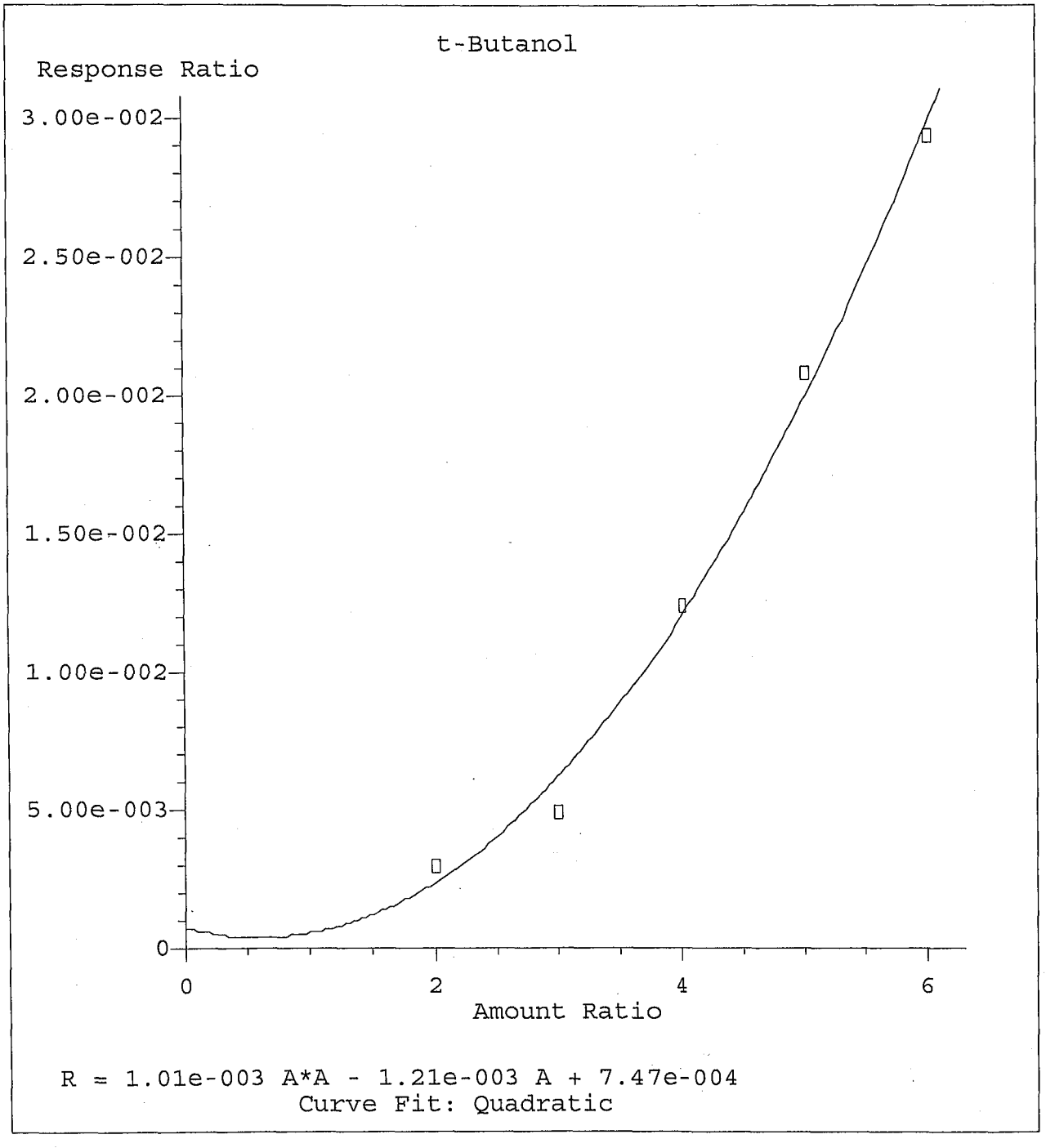
Calibration Table Last Updated: Tue Nov 30 10:12:54 2021



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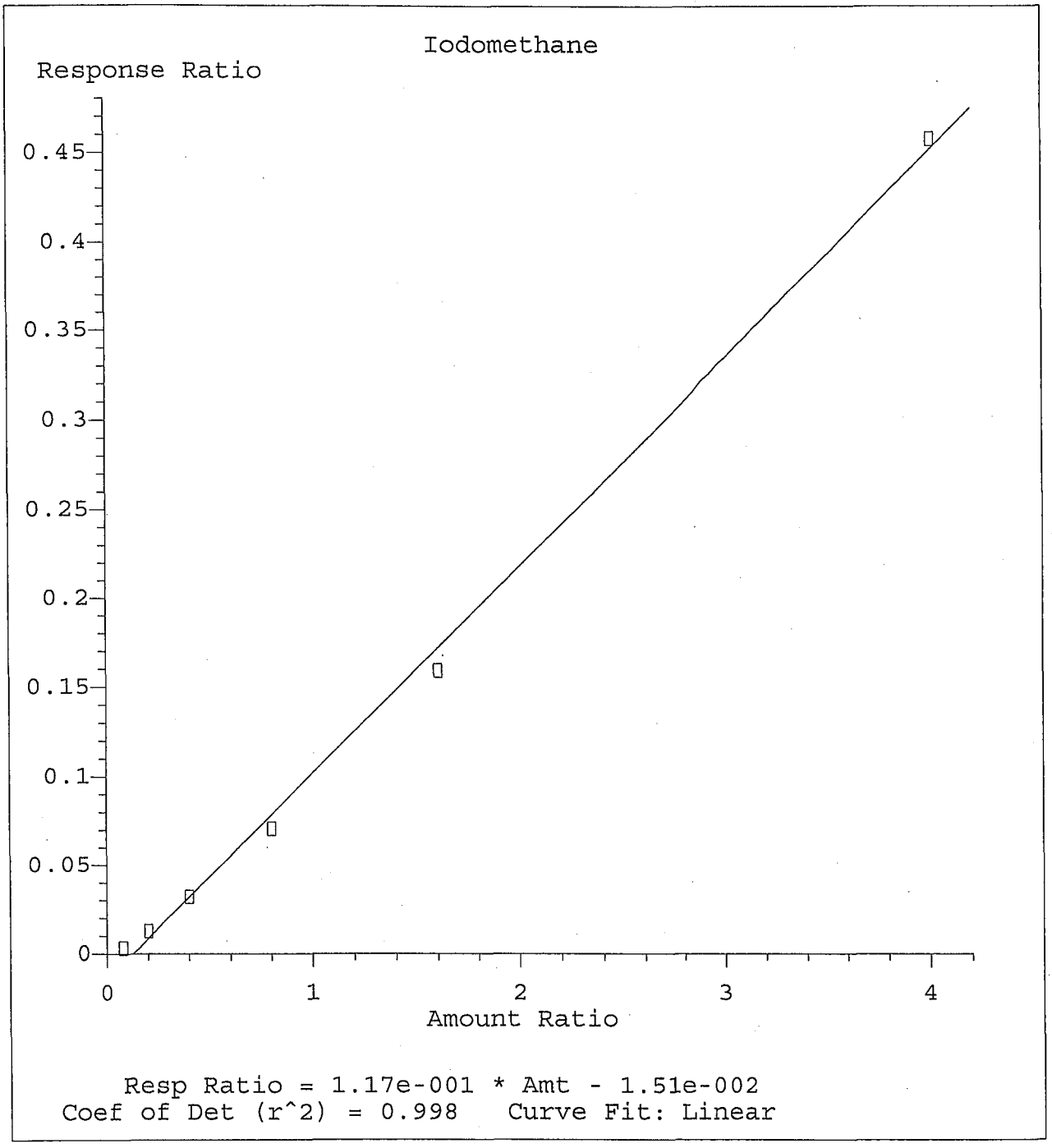

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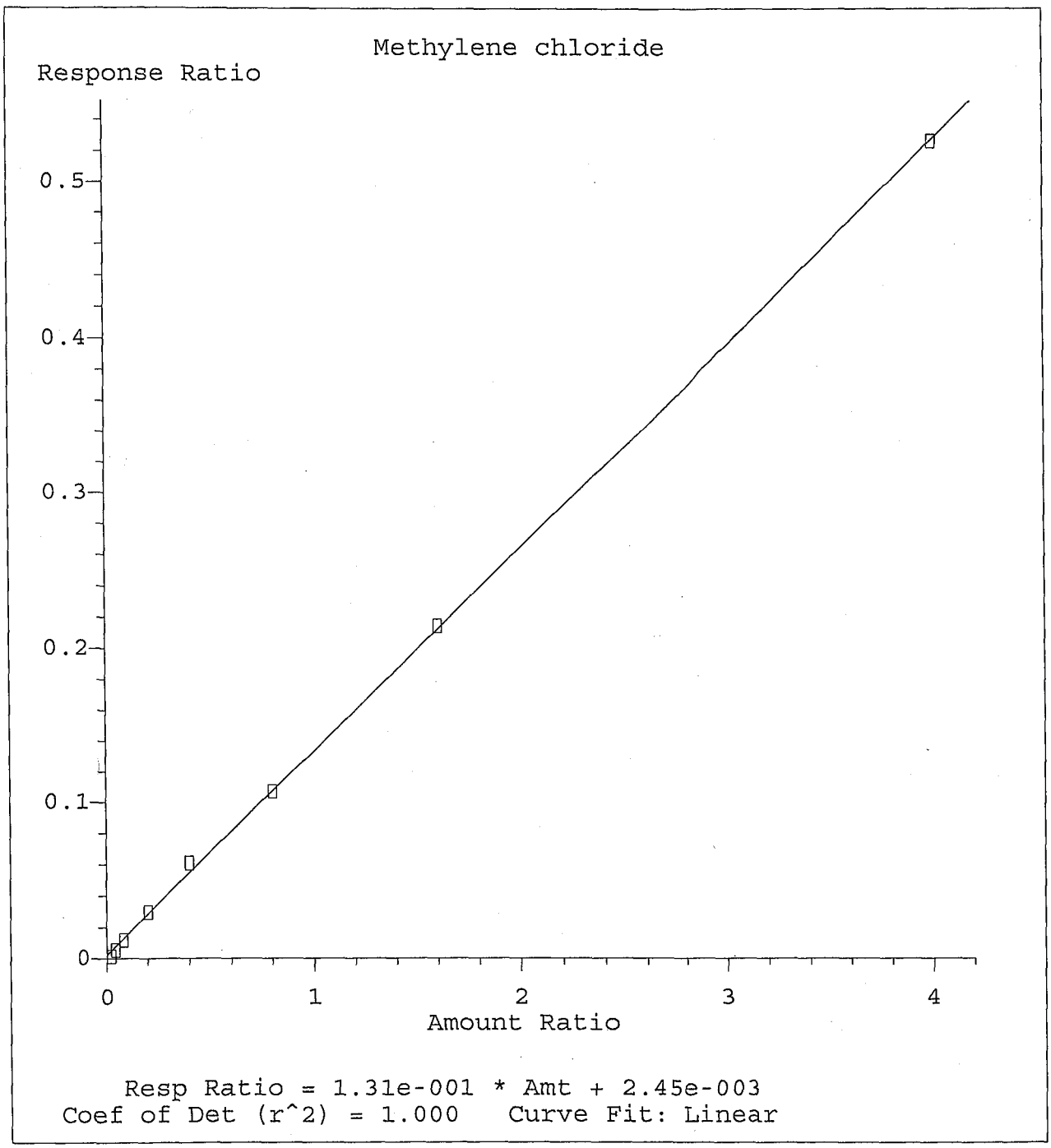

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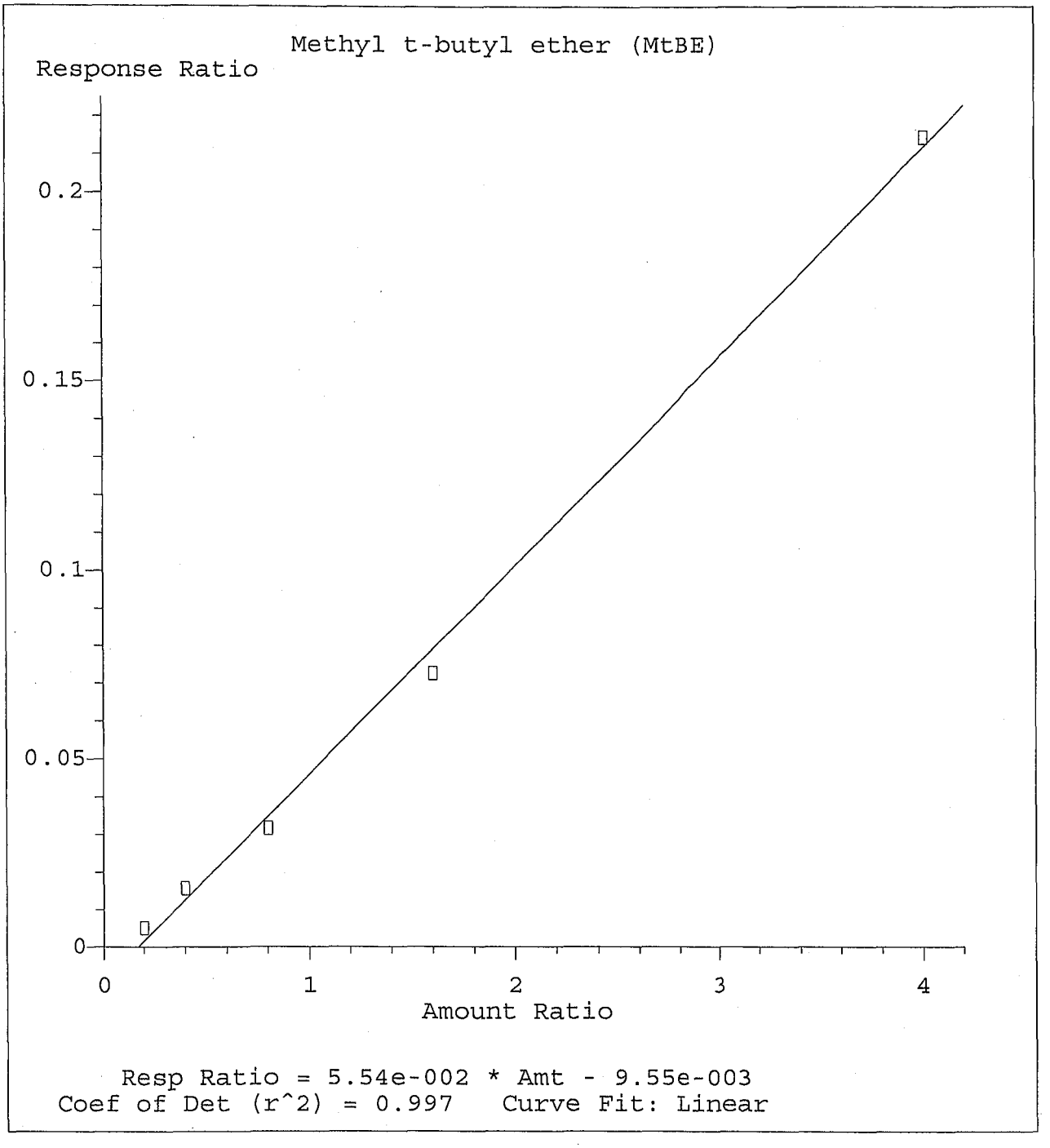
Calibration Table Last Updated: Tue Nov 30 10:12:54 2021



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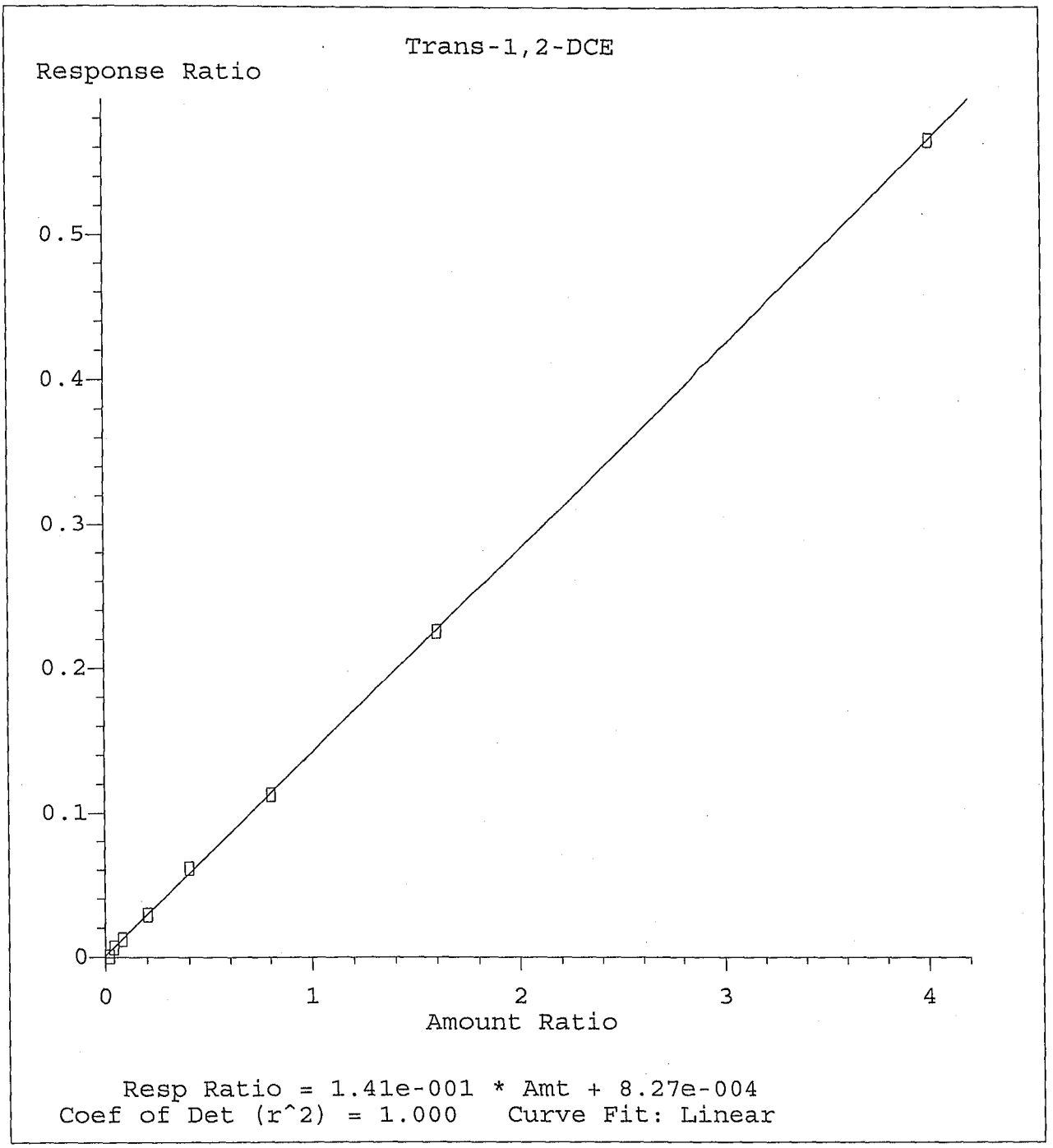

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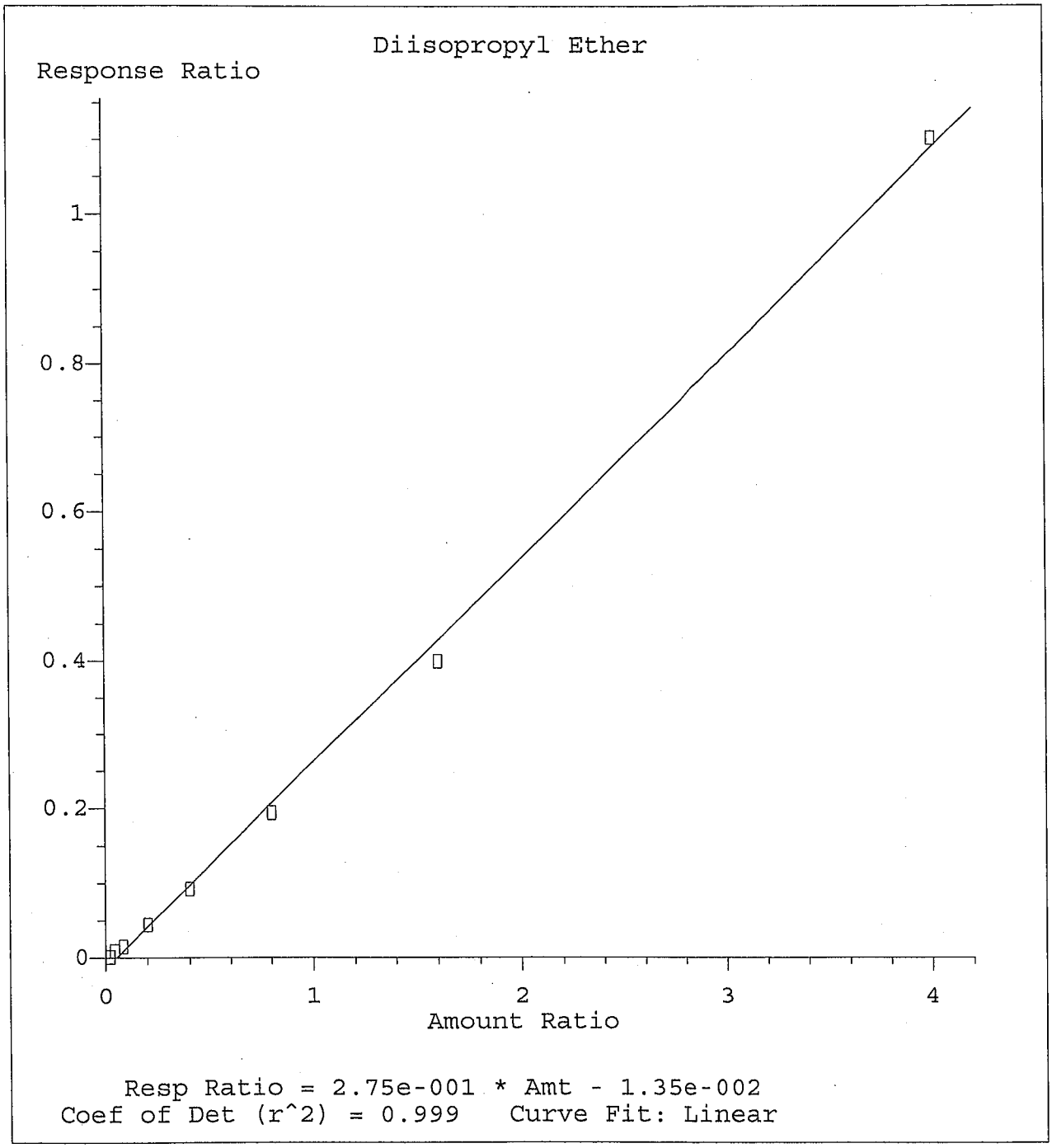

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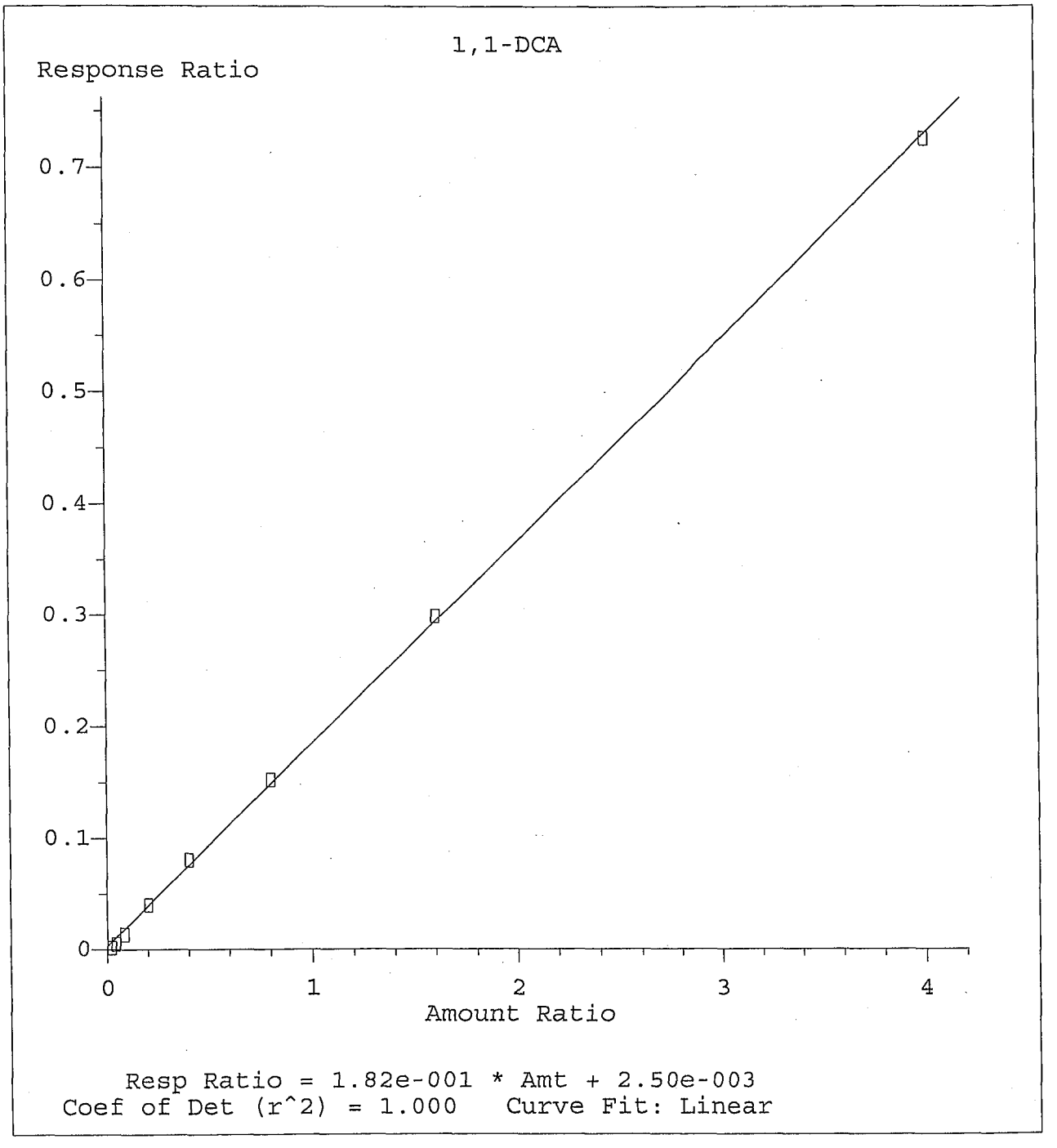

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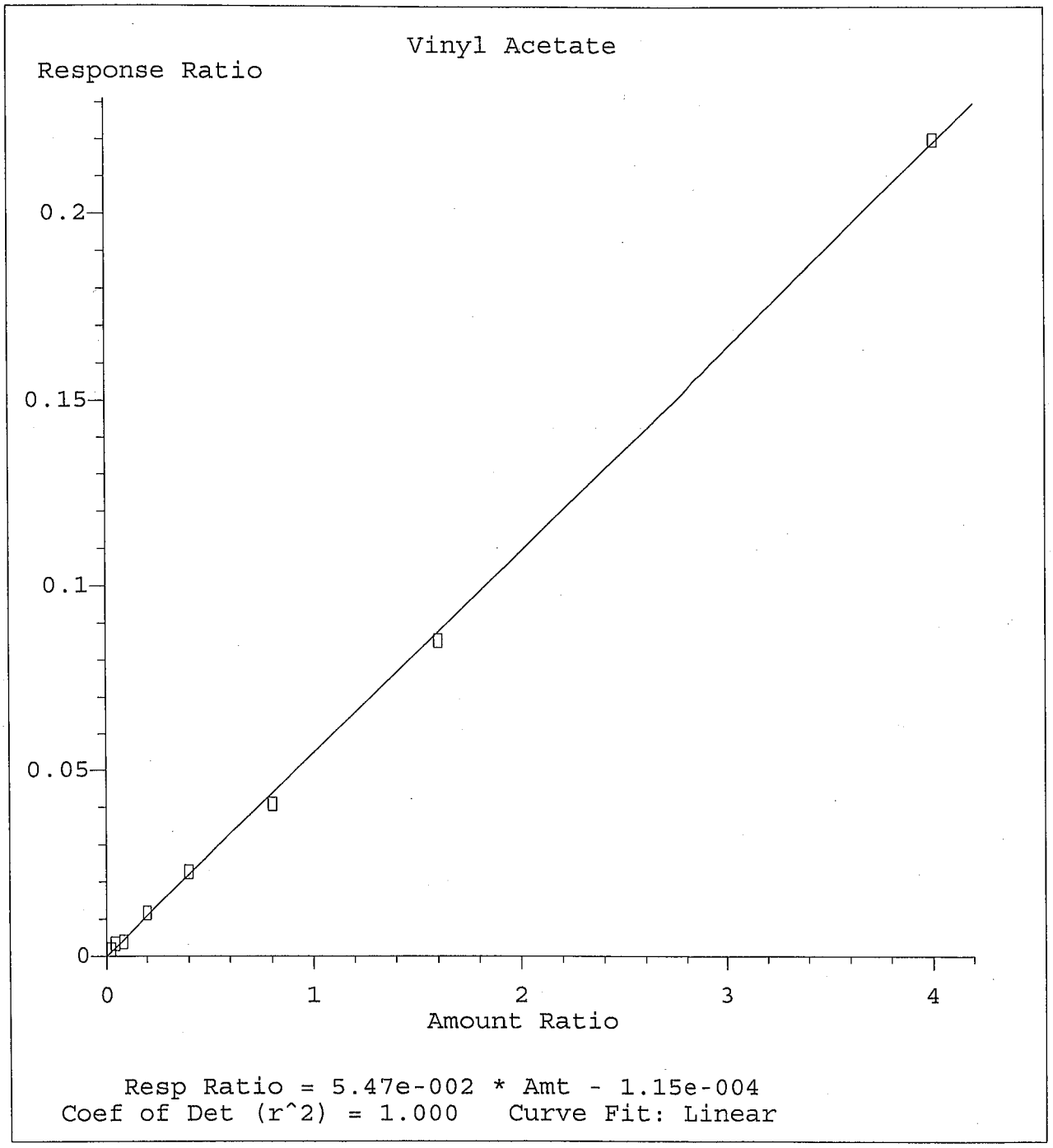

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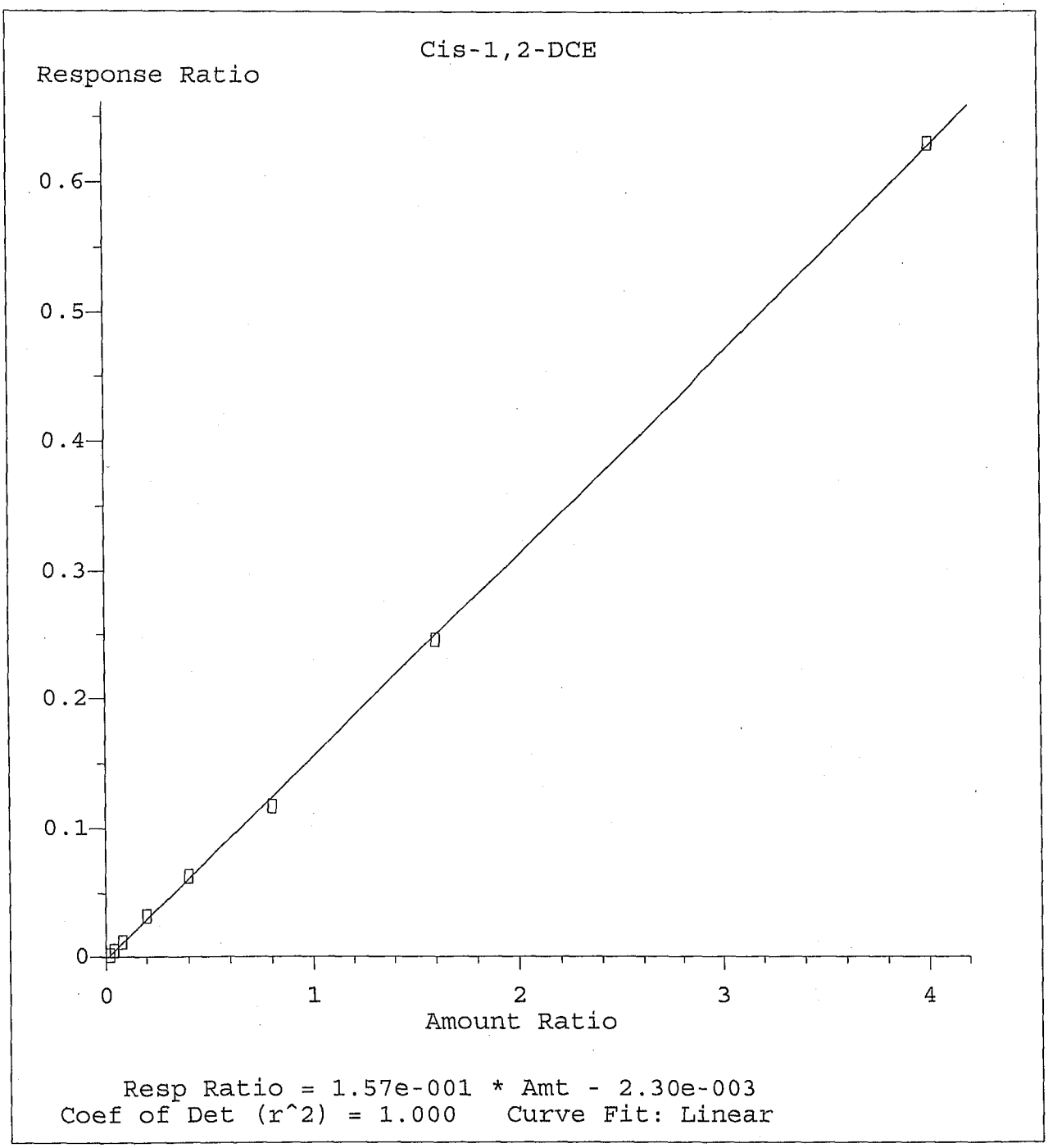

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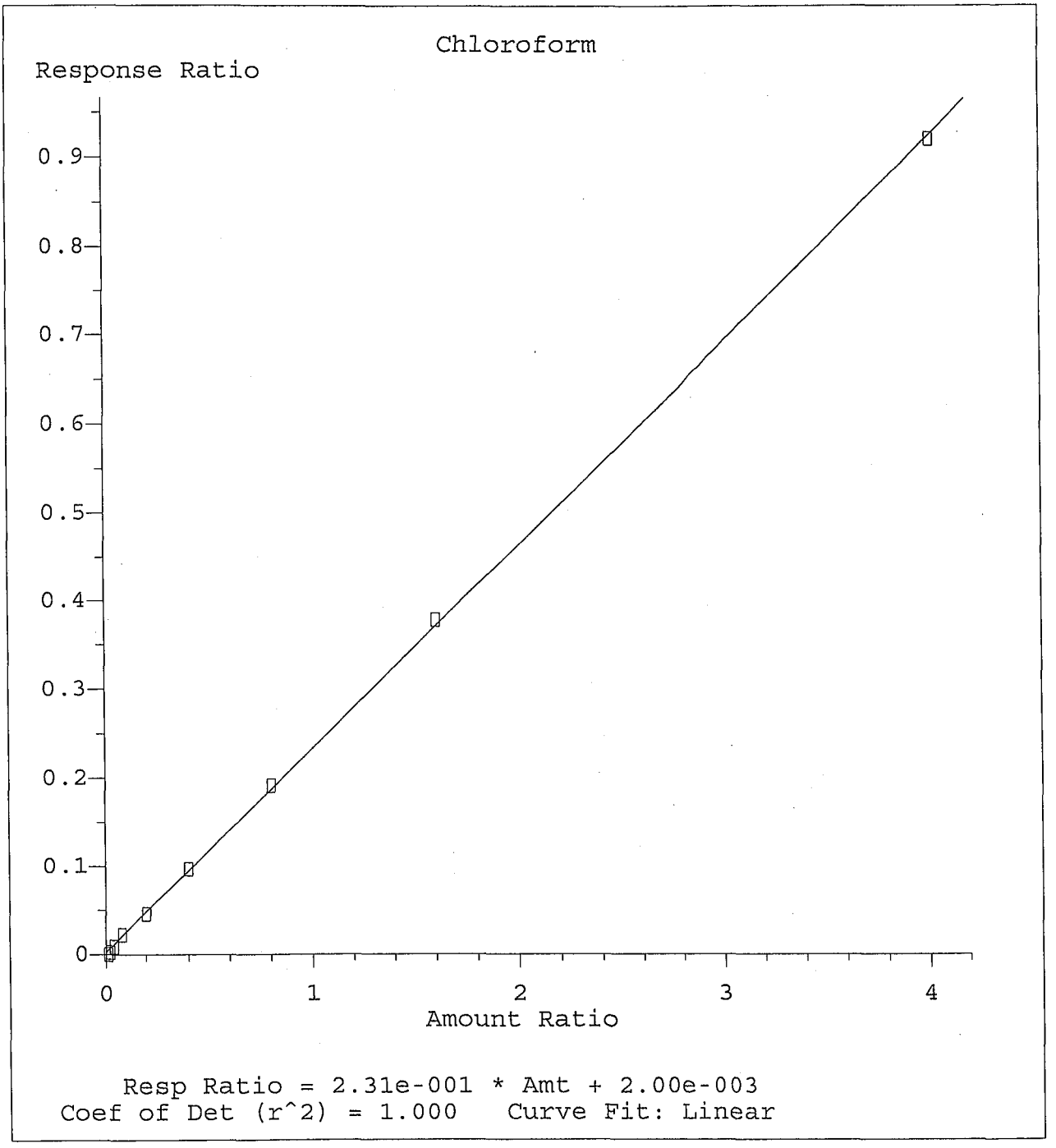

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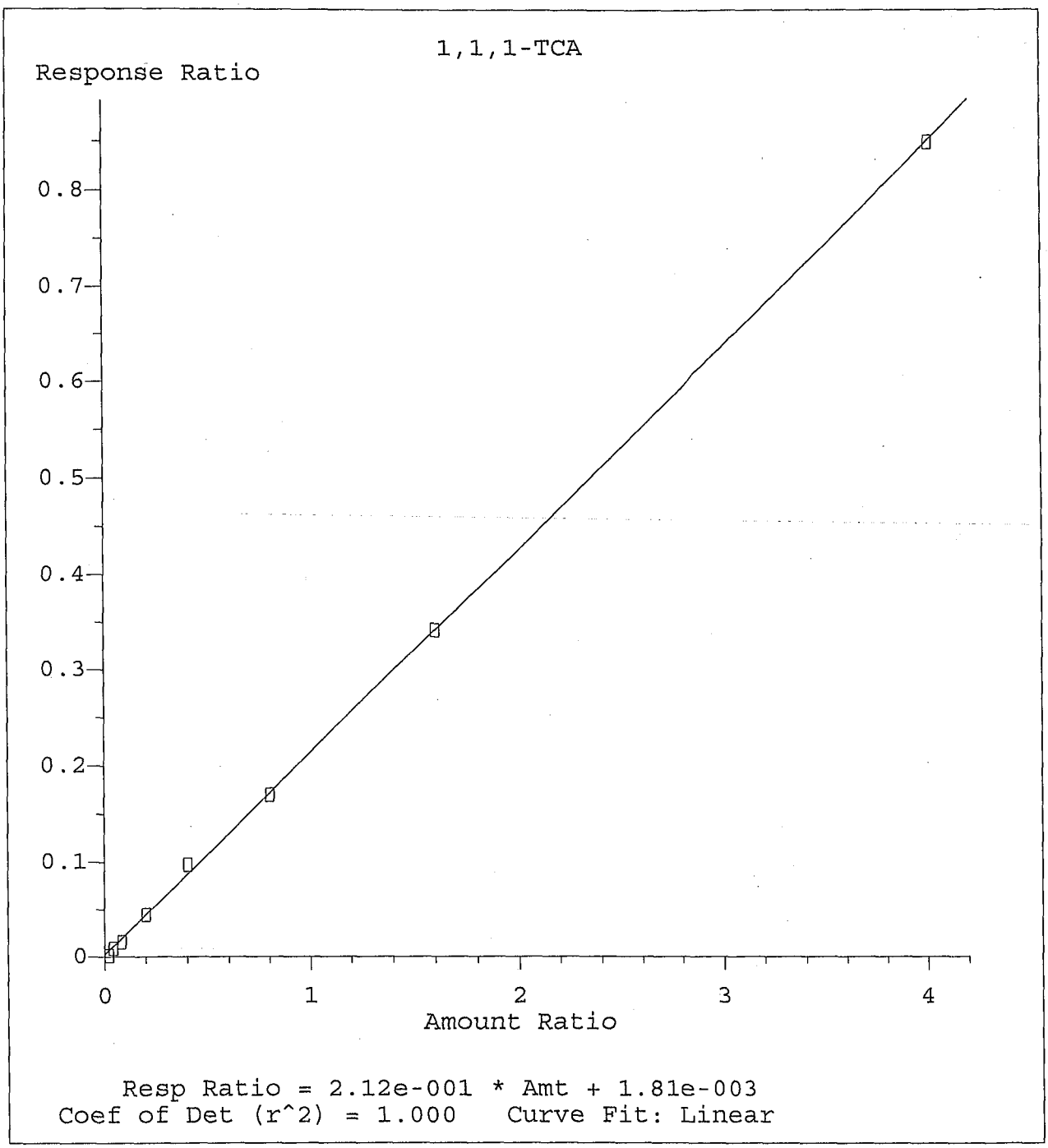

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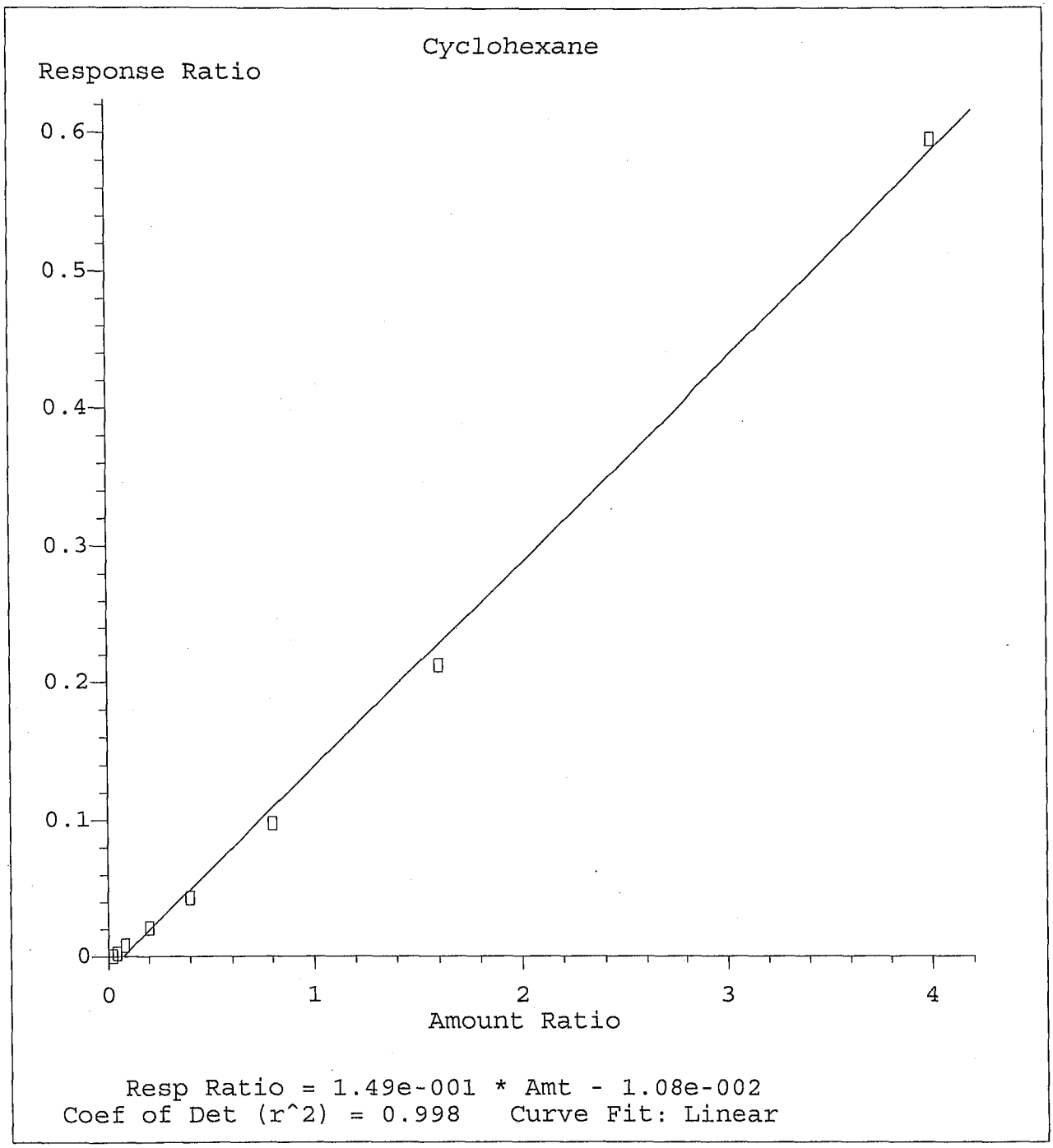

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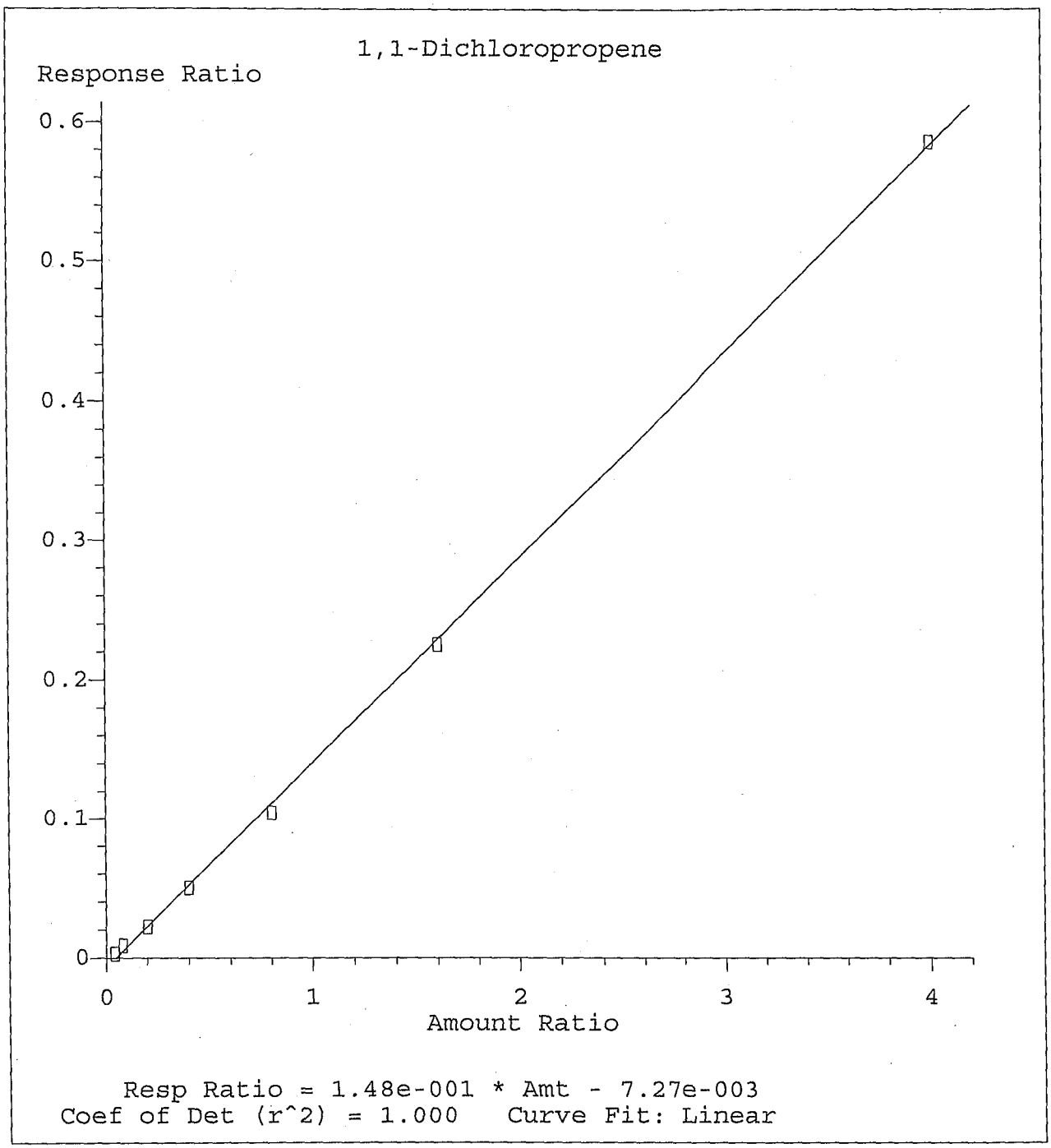

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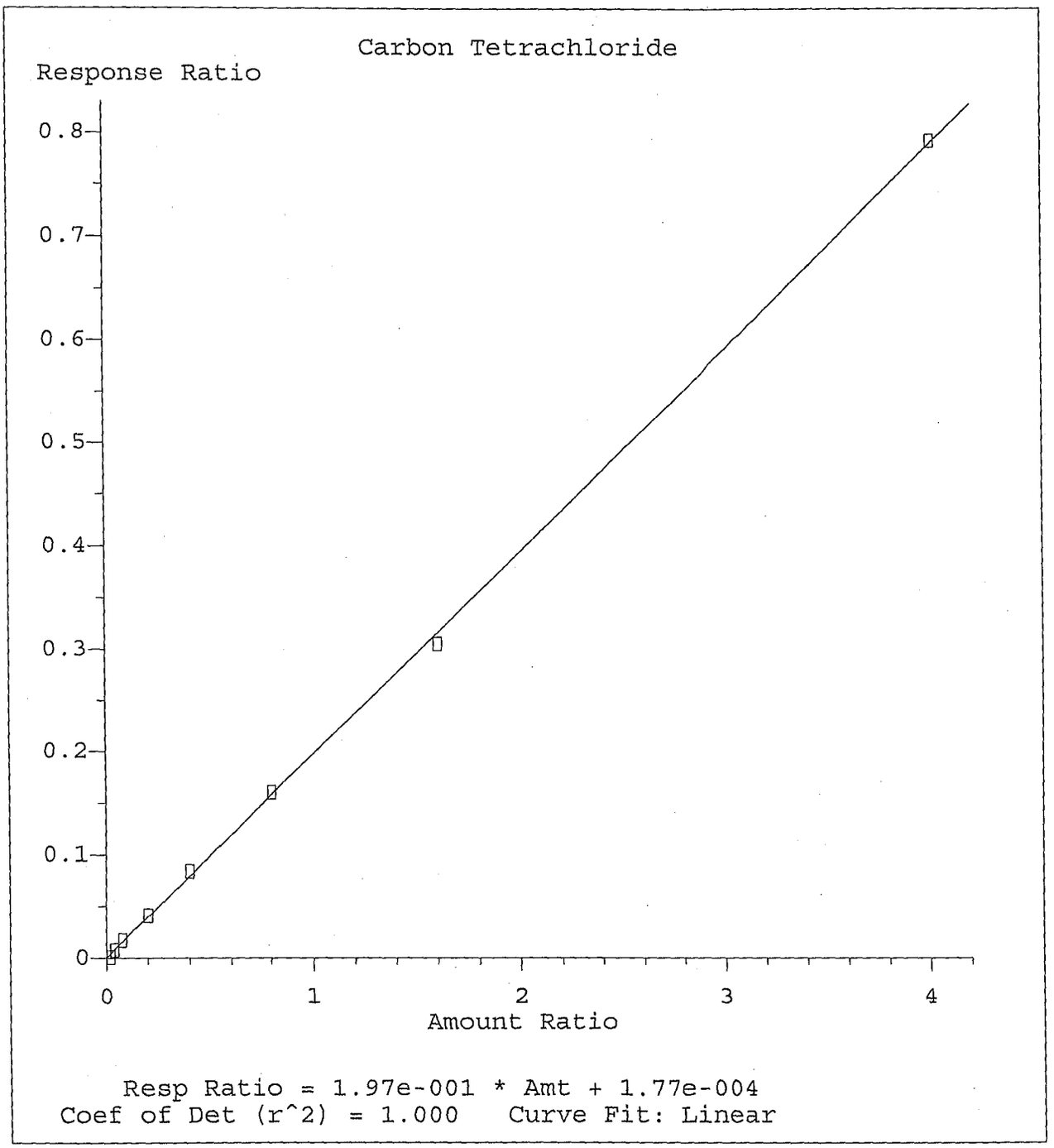

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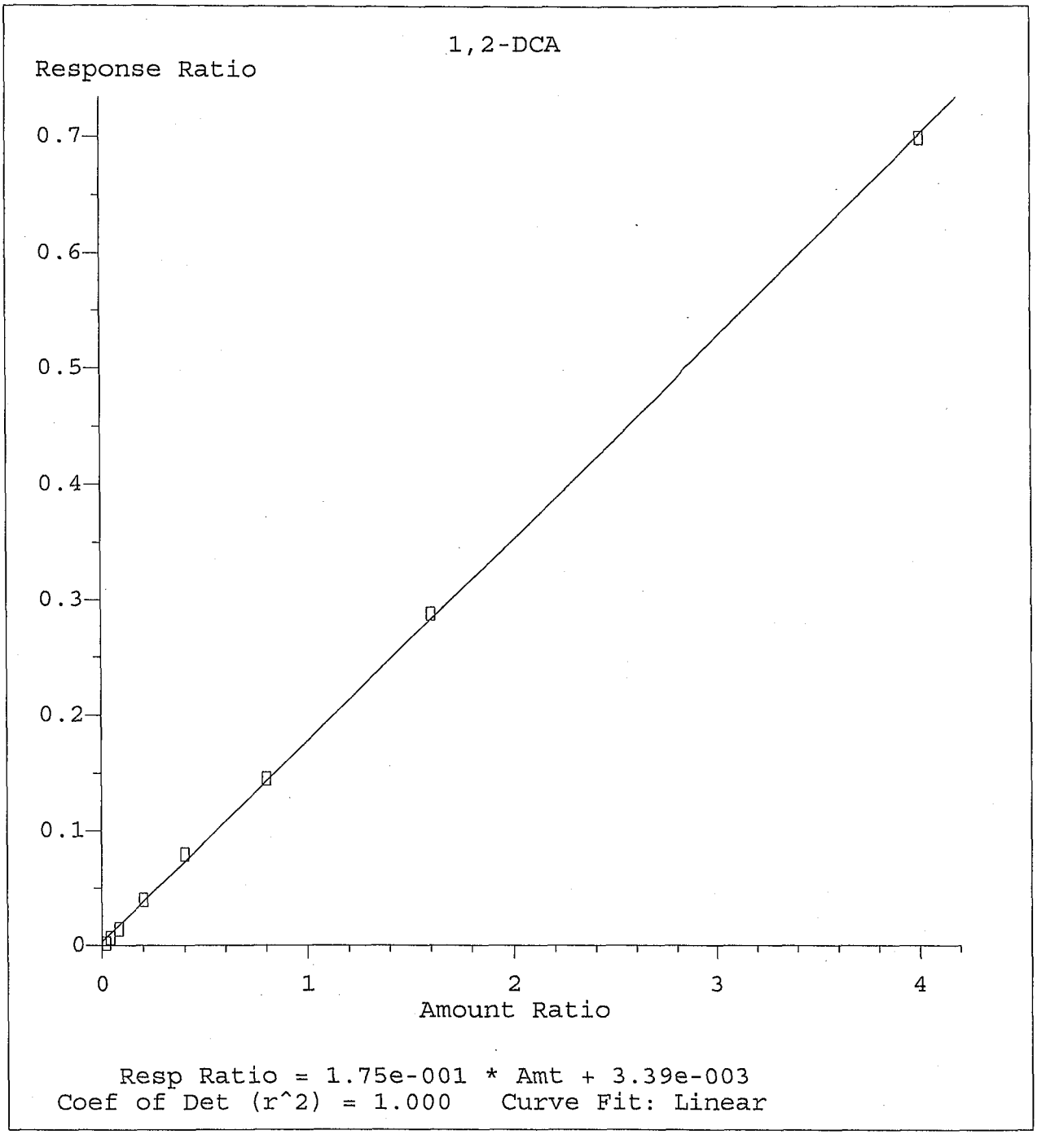

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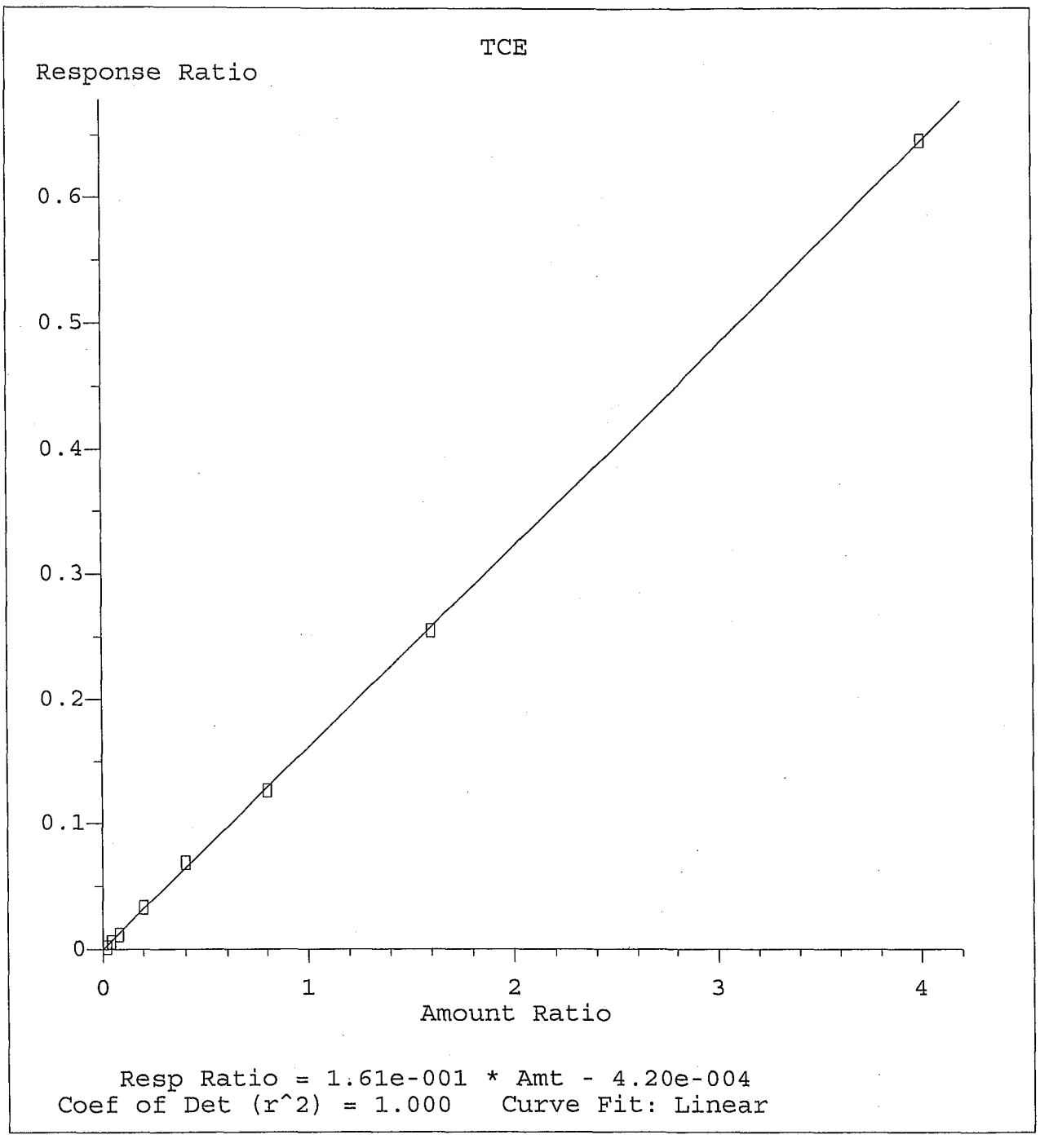

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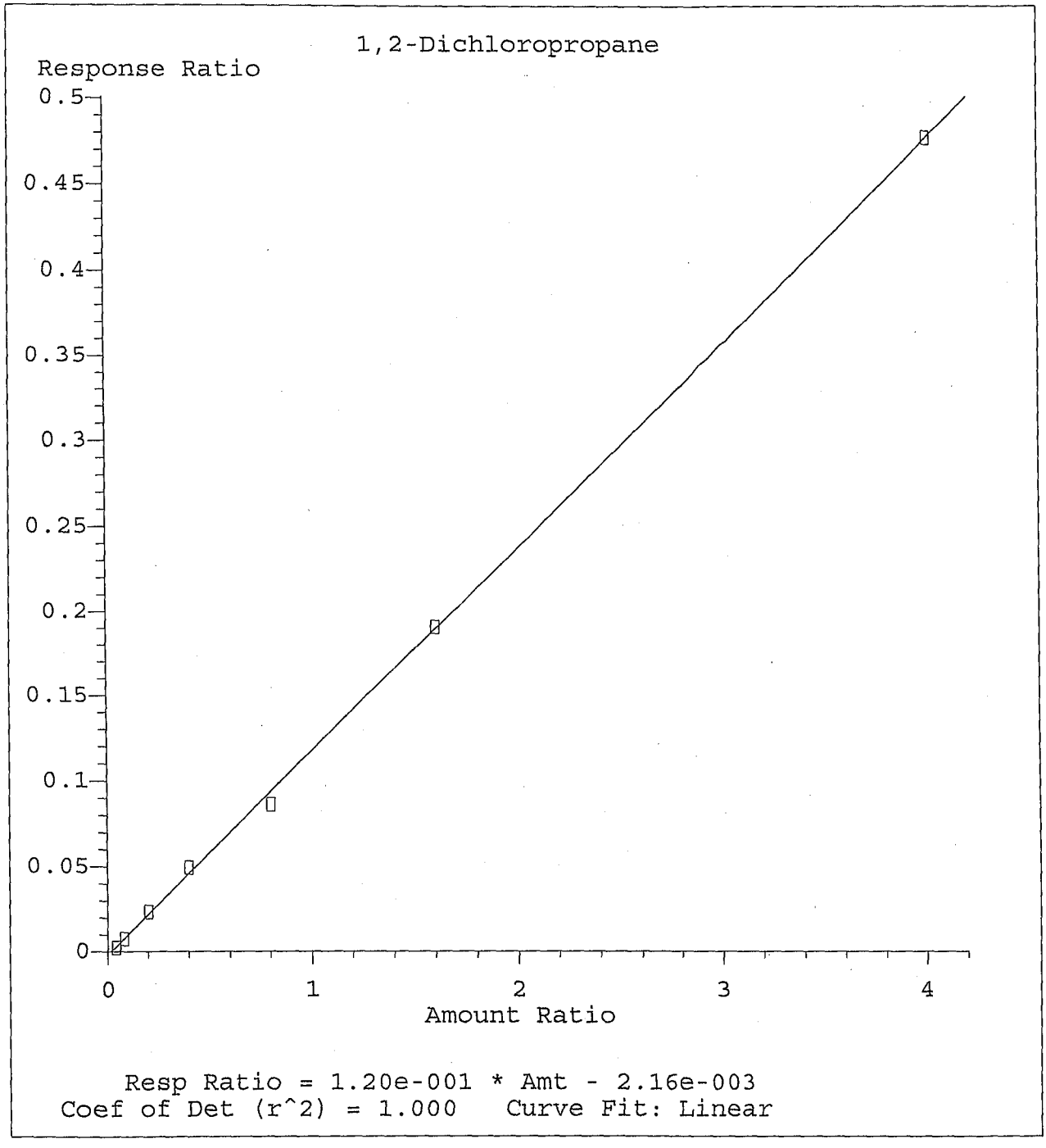

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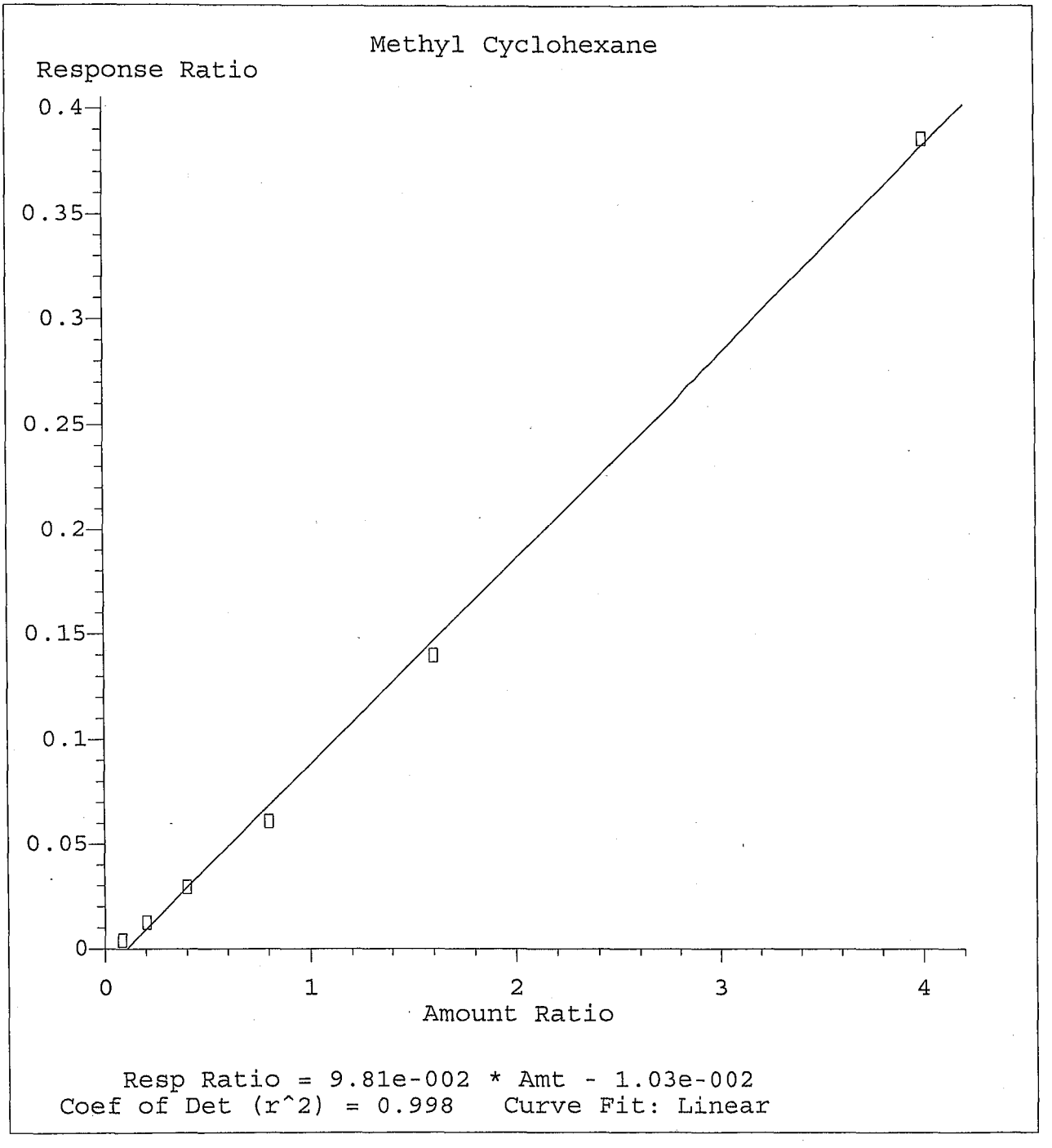

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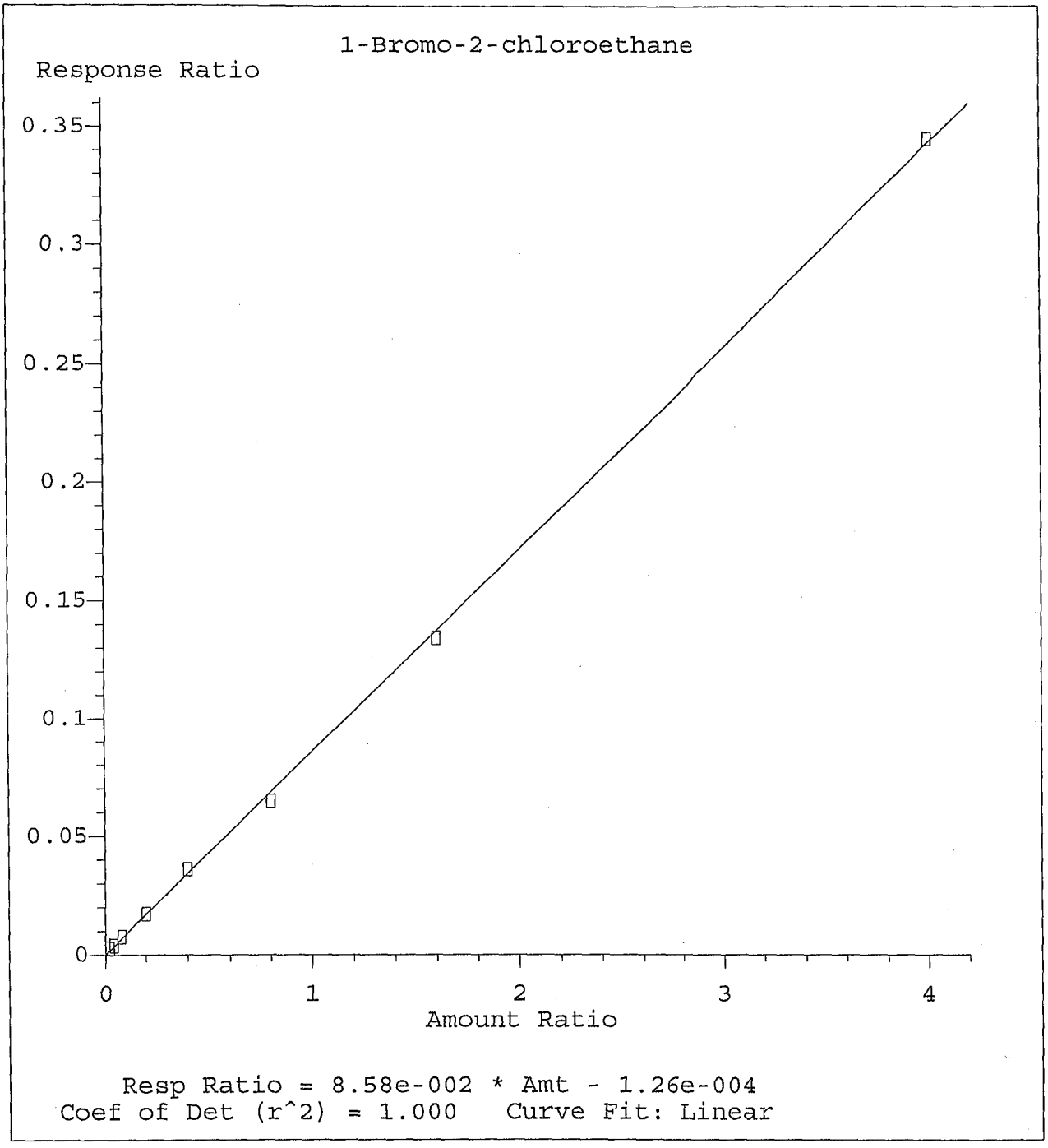

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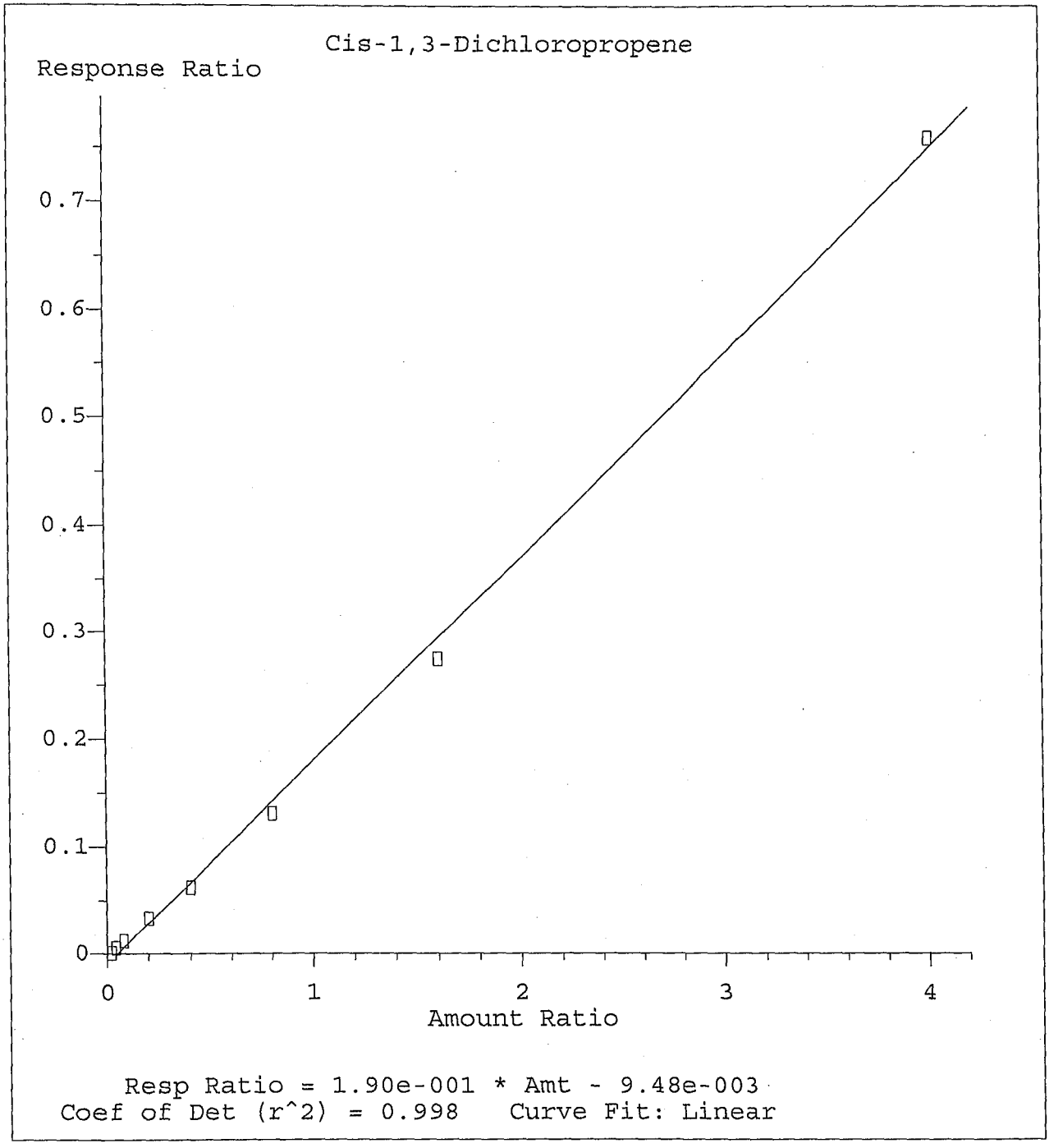

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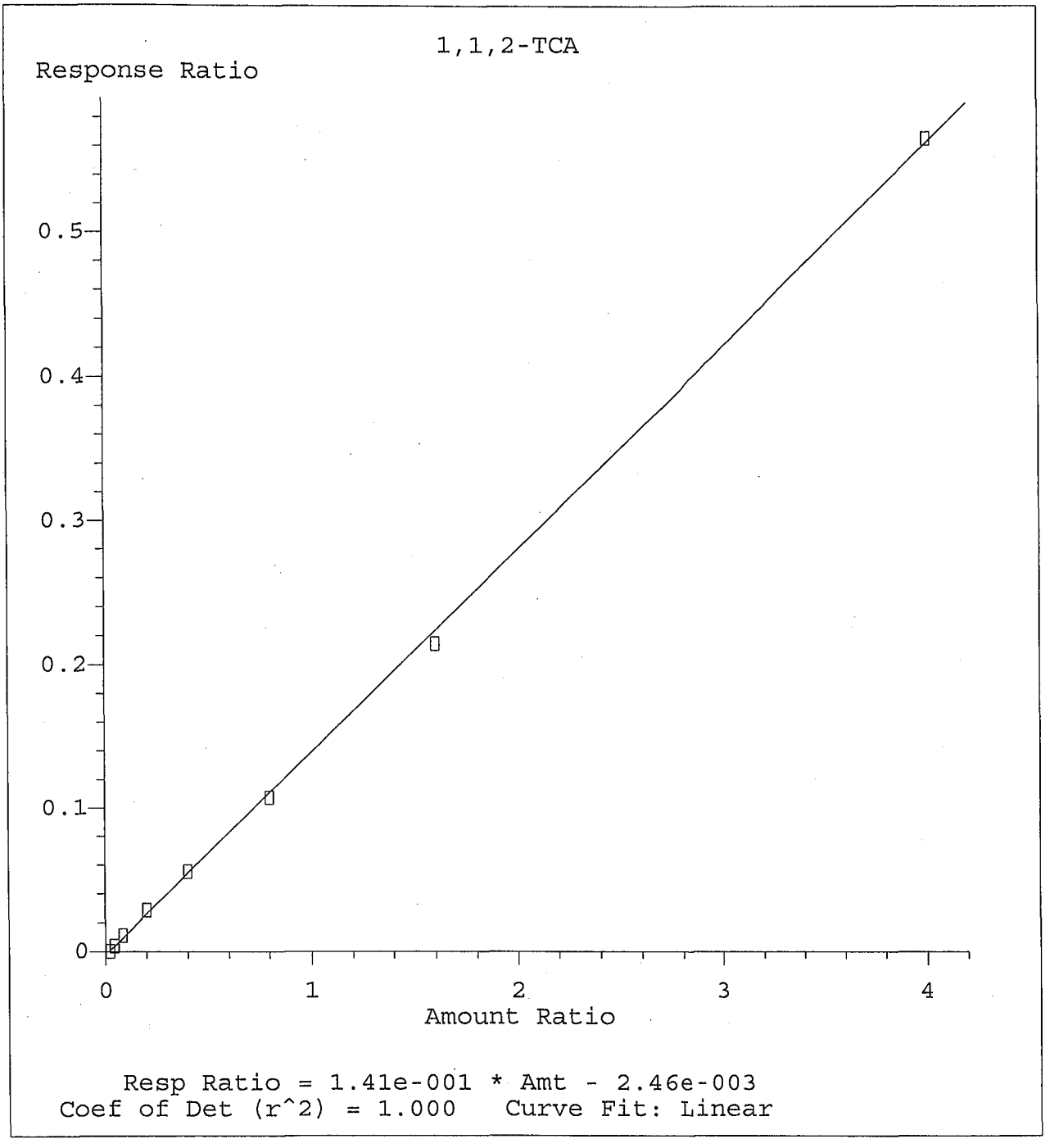

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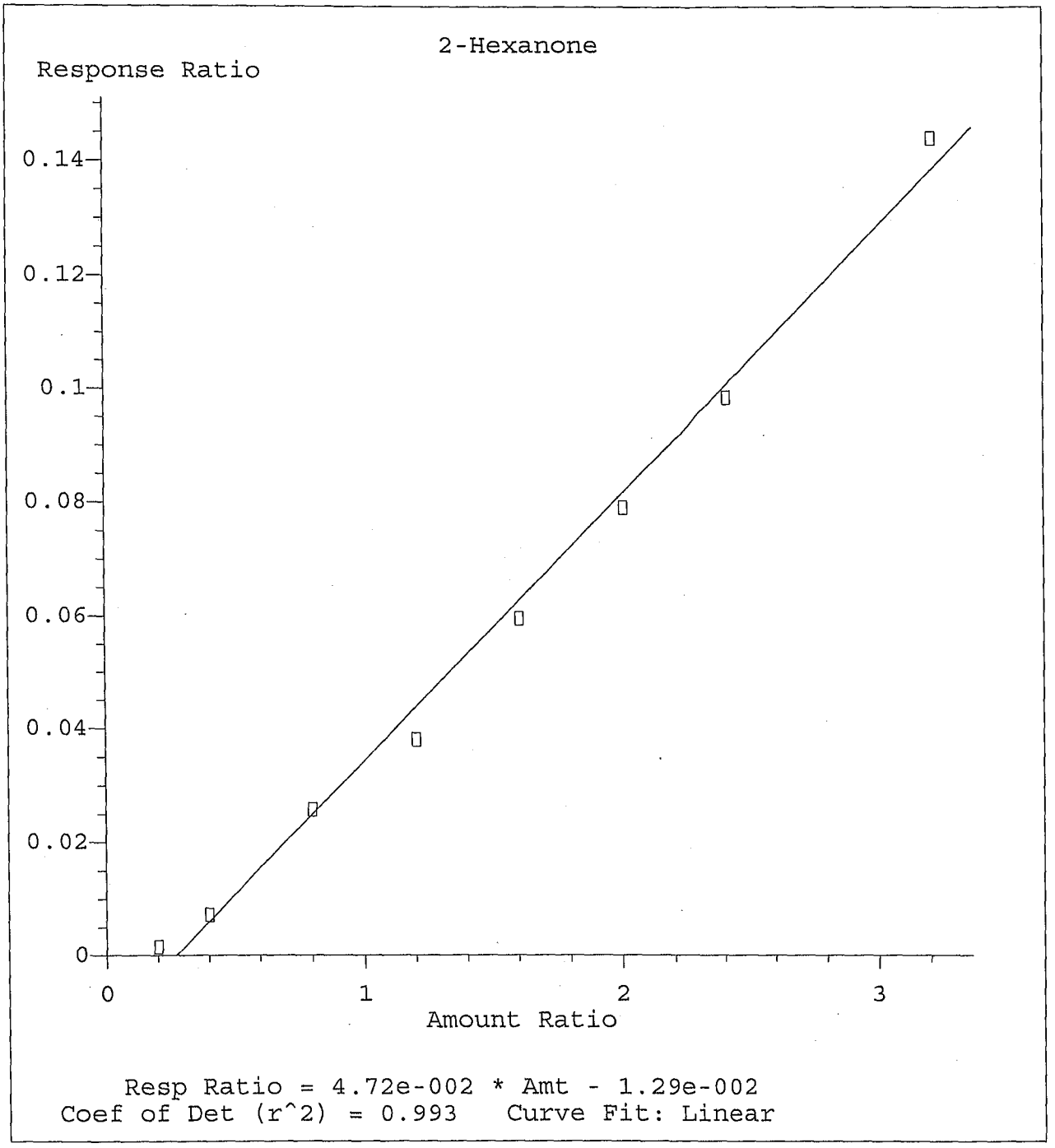

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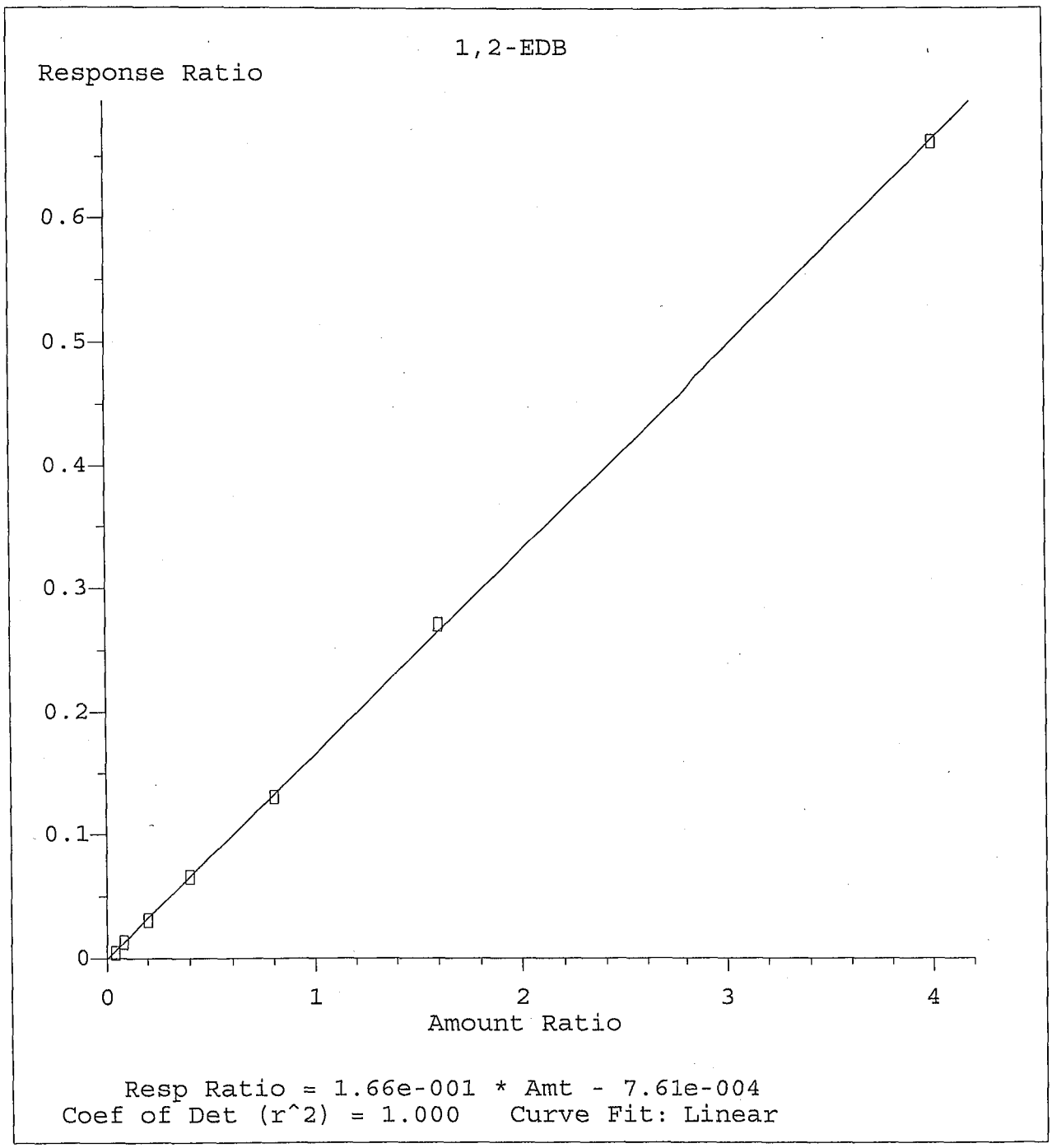

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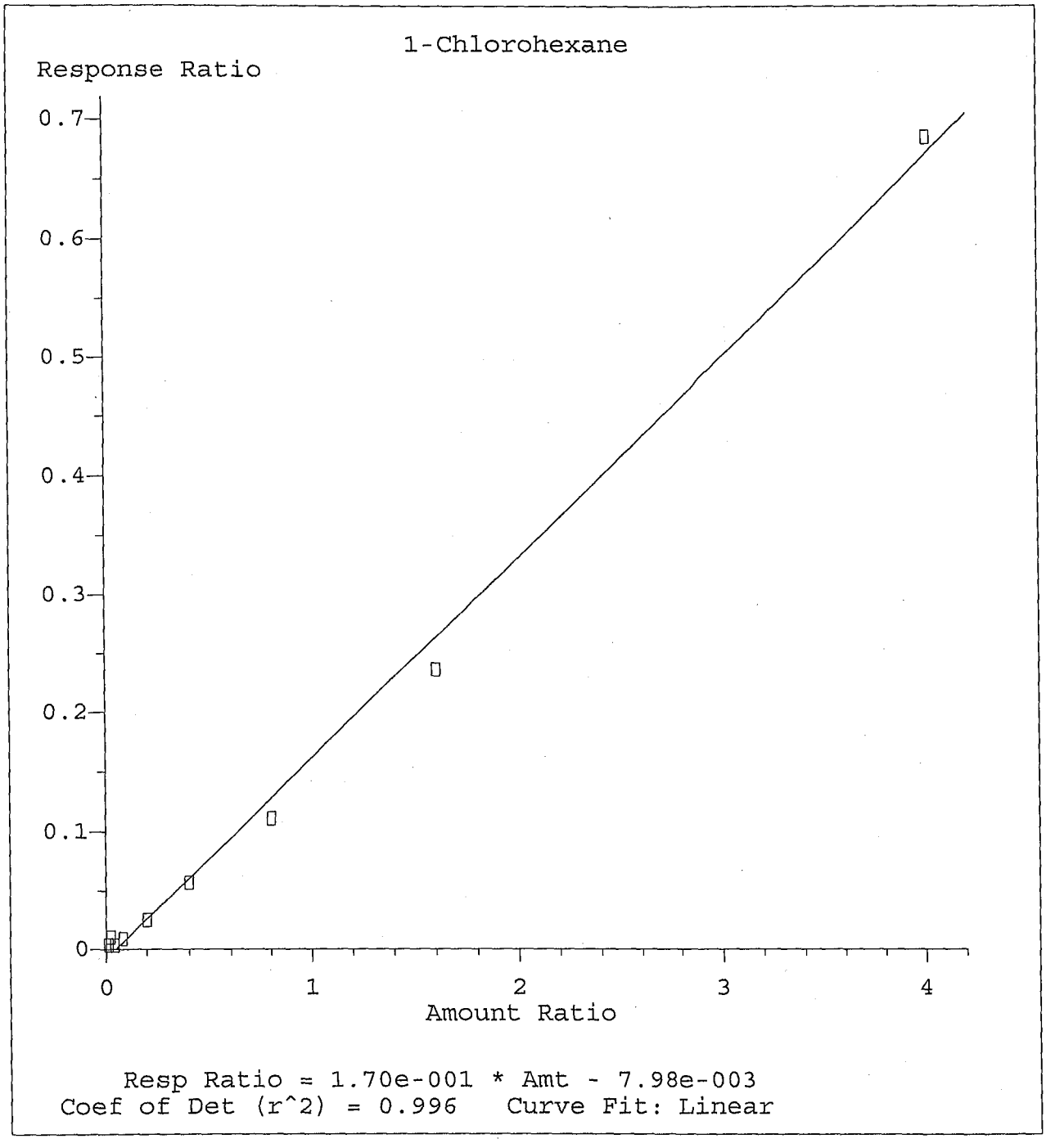

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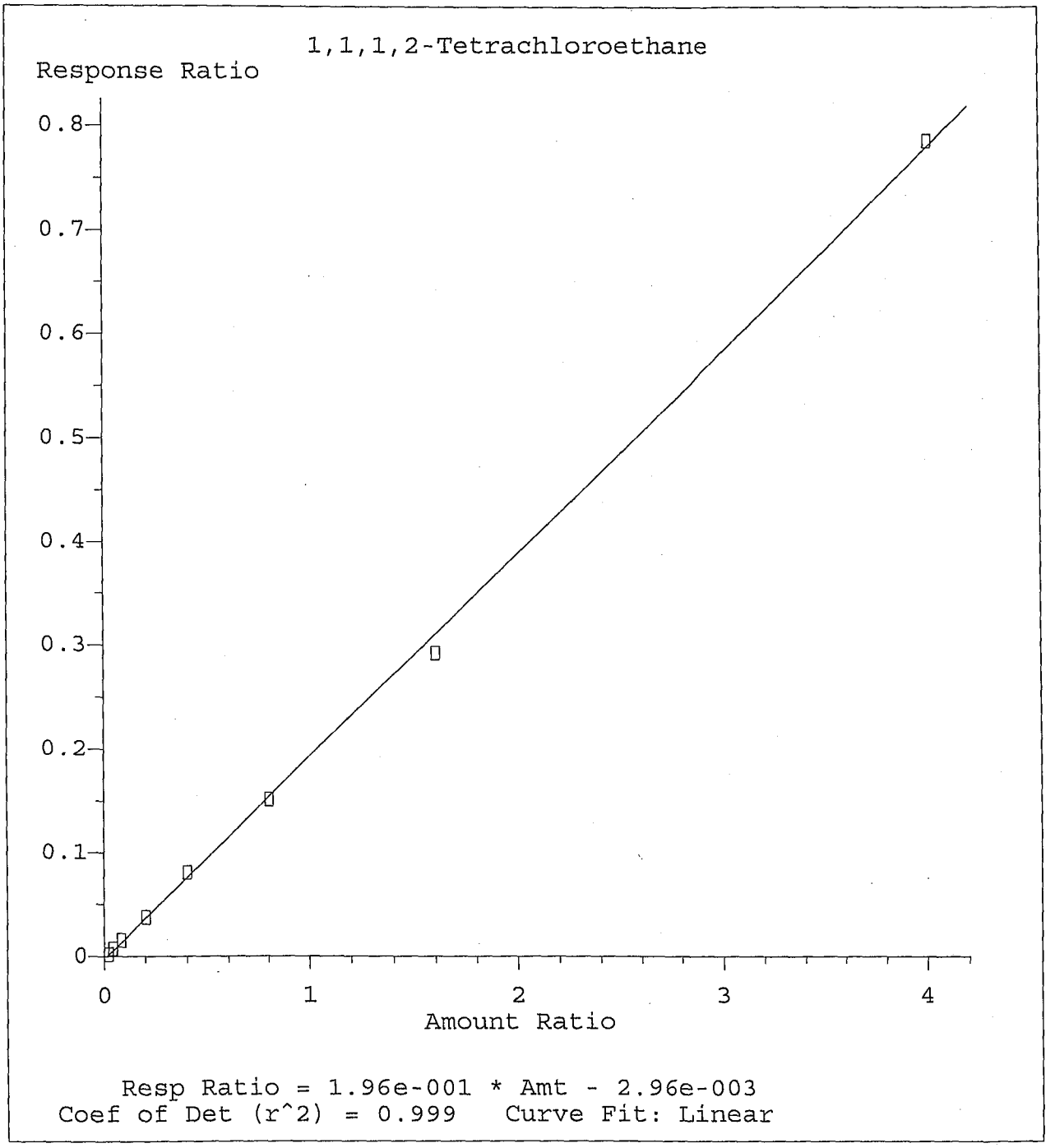

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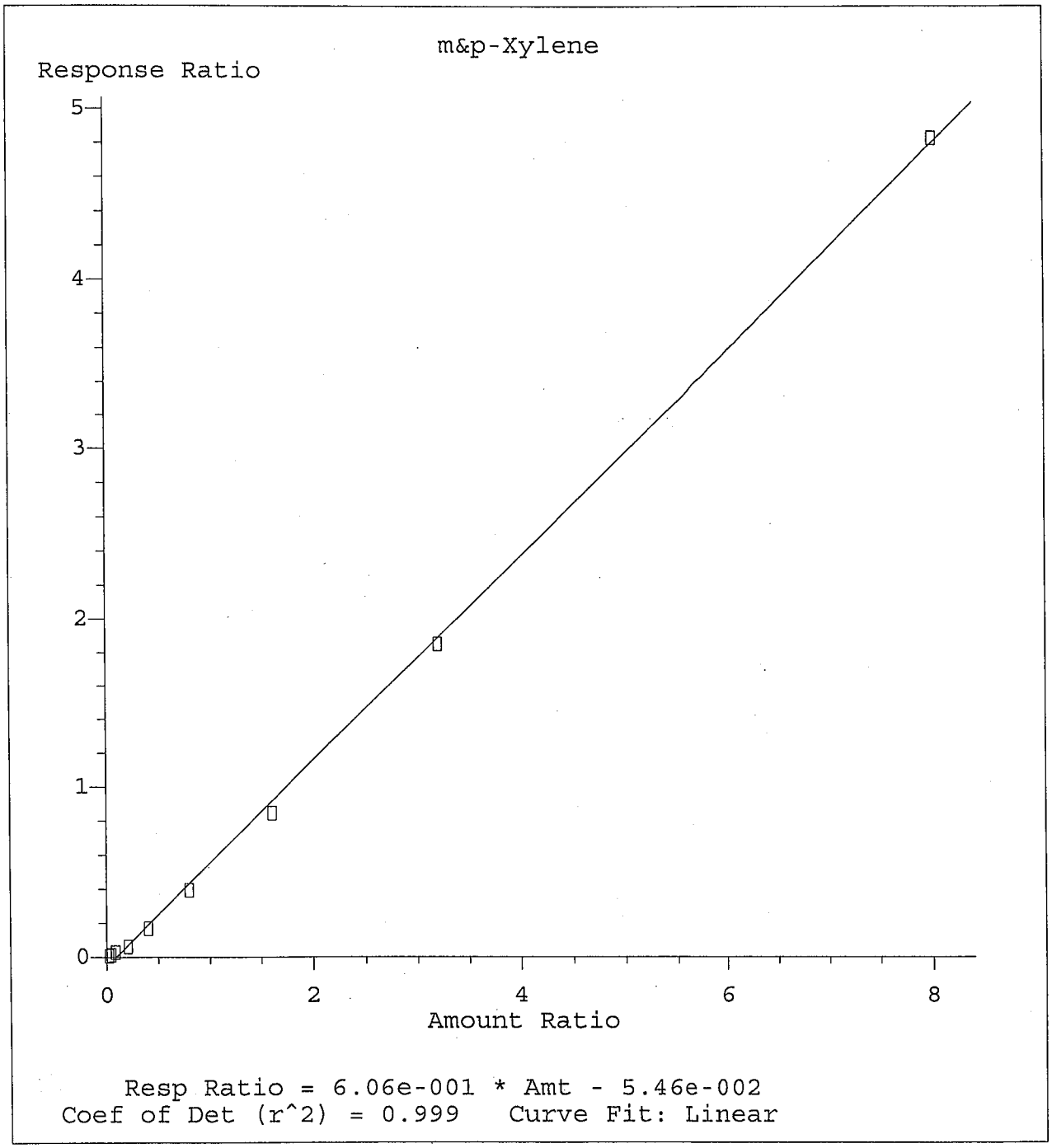

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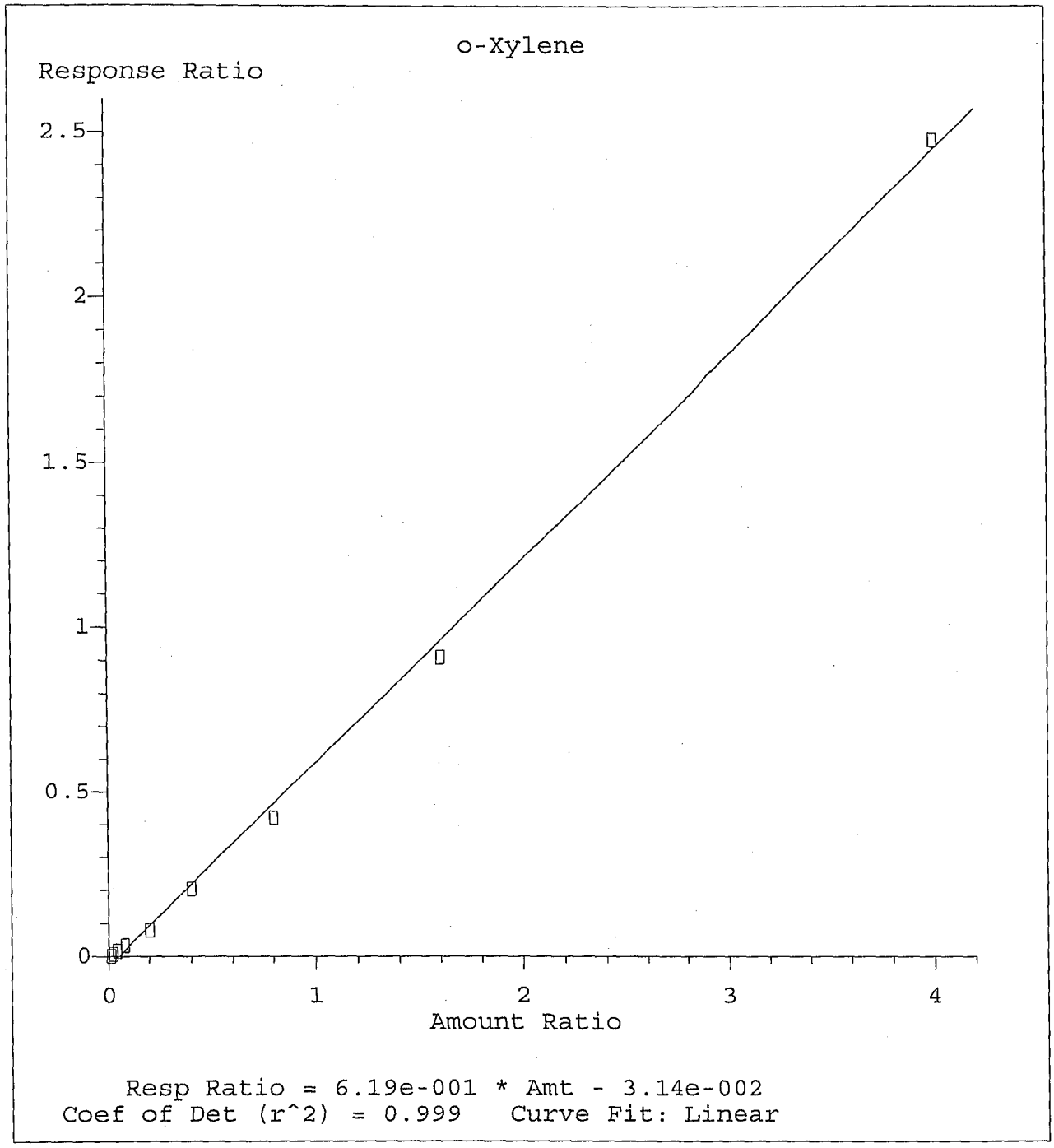

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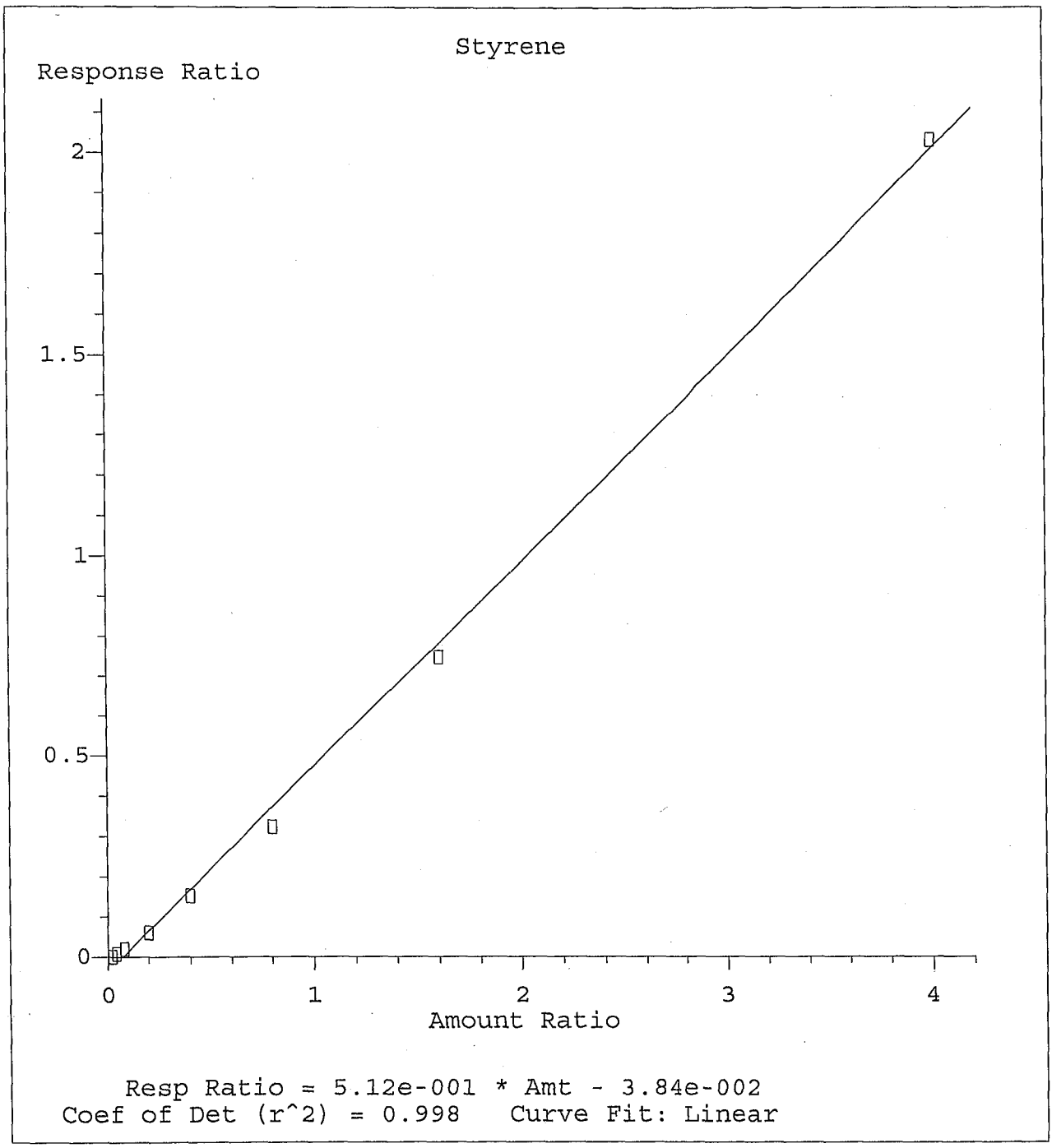

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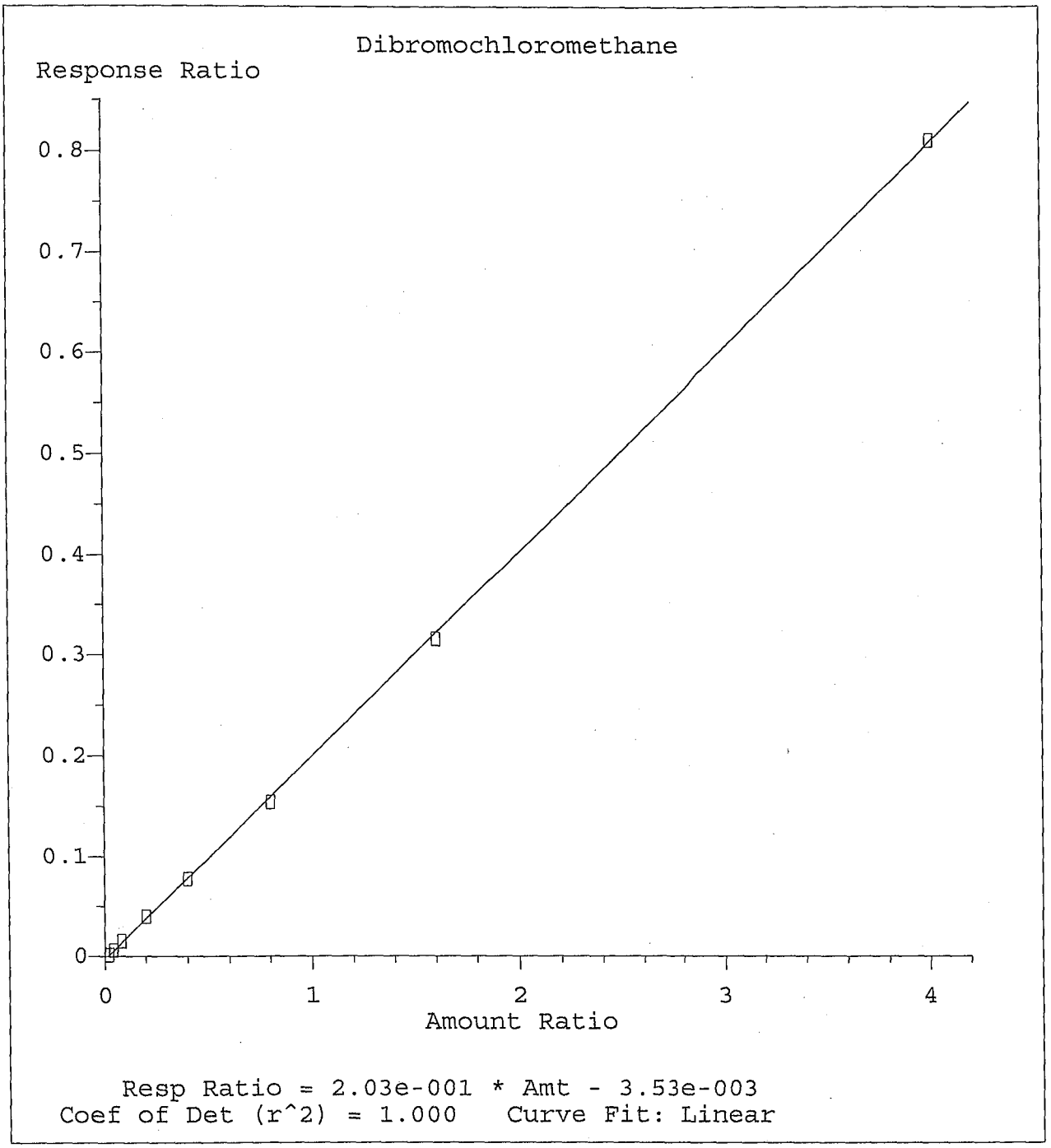
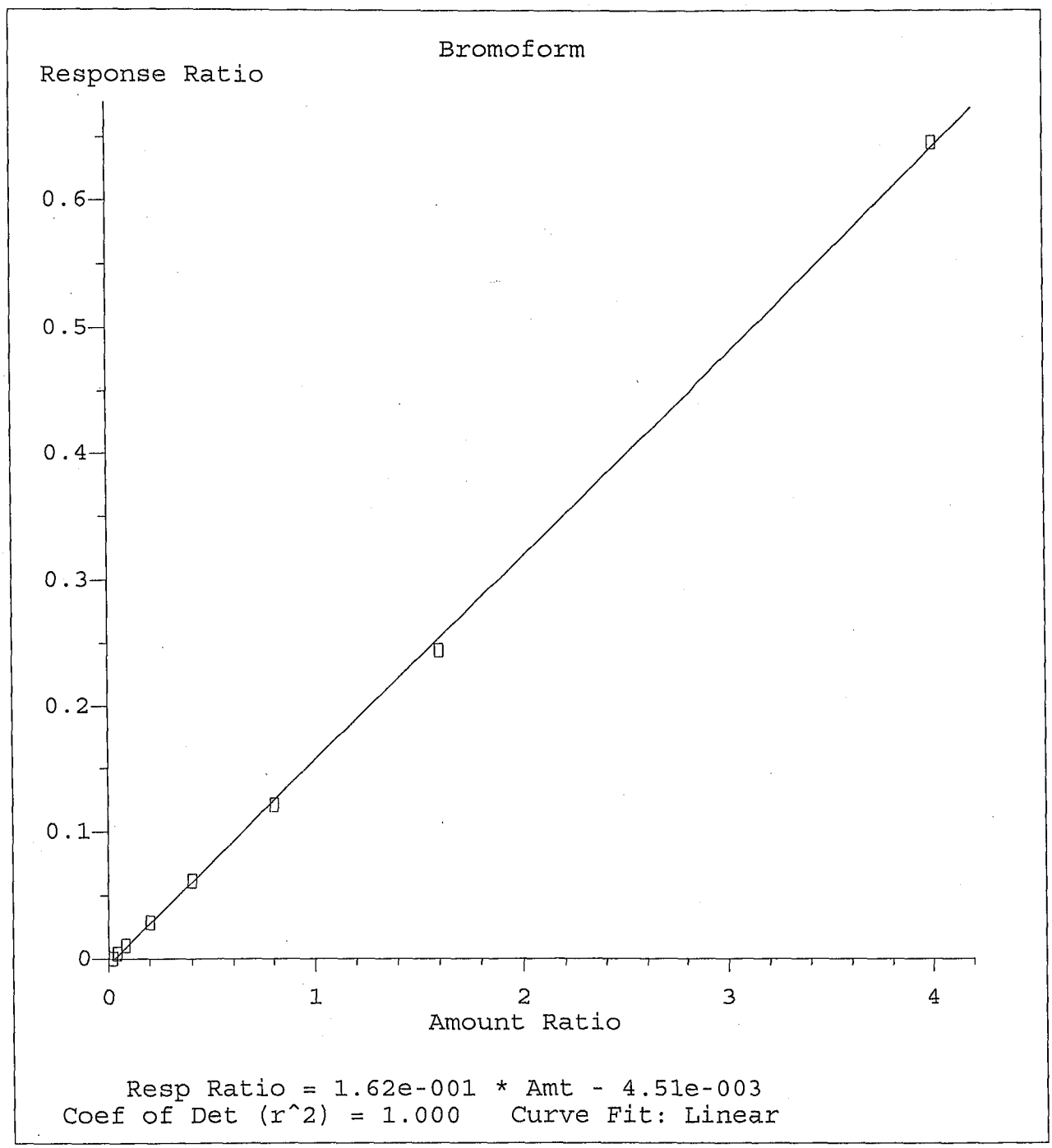
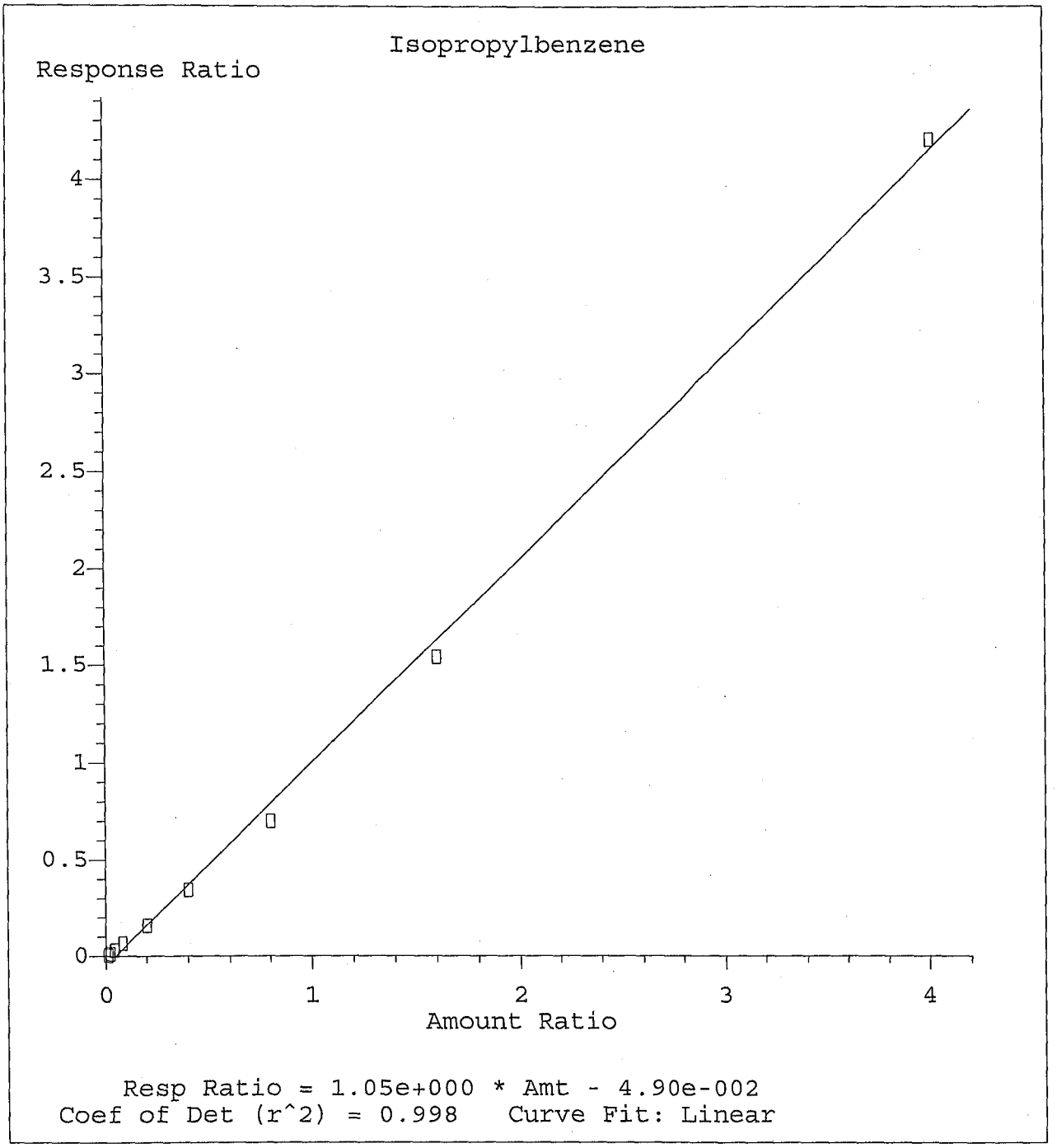


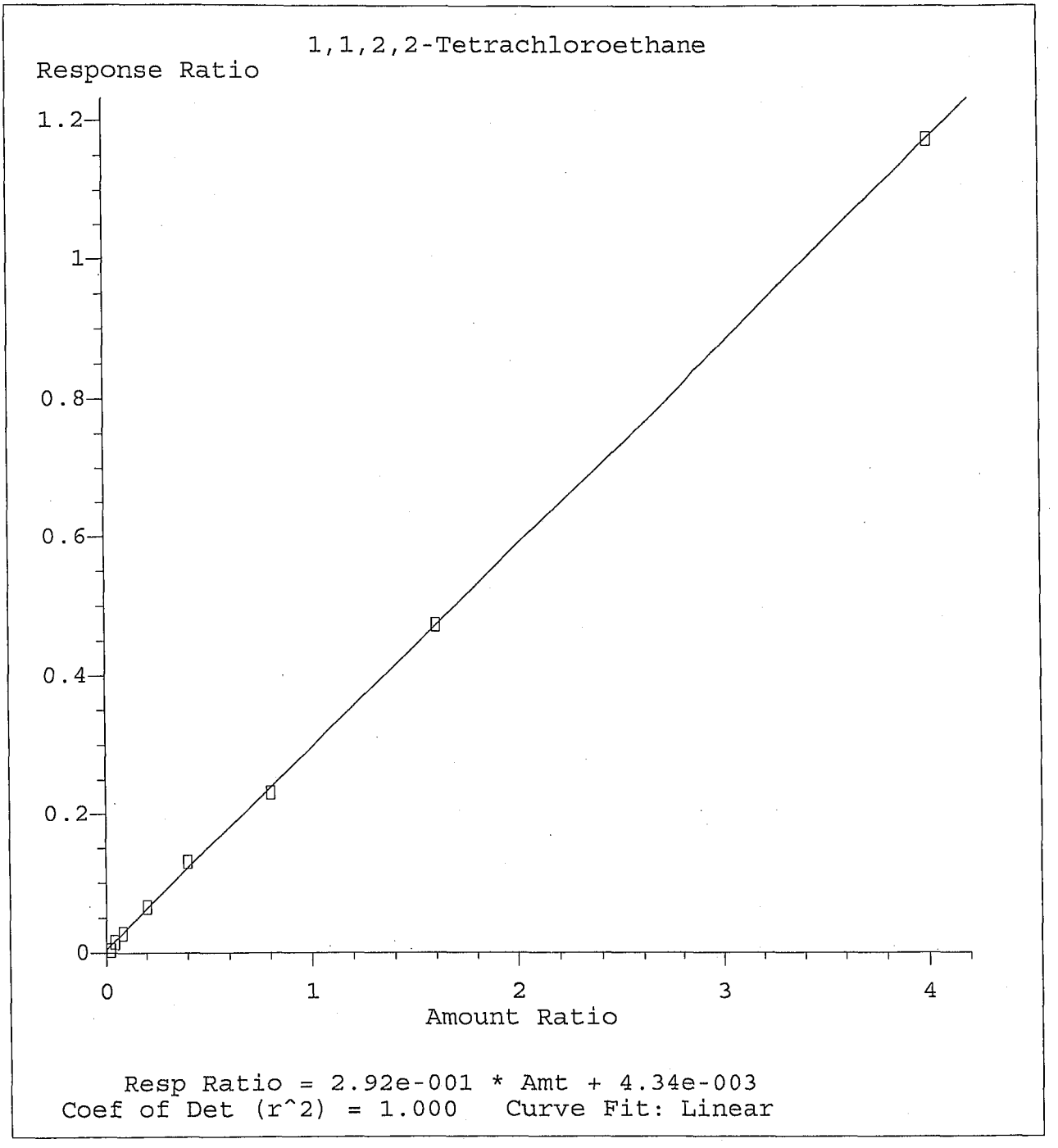
Method Name: M:\LOKI\DATA\211129\L1129W.M
Calibration Table Last Updated: Tue Nov 30 10:12:54 2021



Method Name: M:\LOKI\DATA\211129\L1129W.M
Calibration Table Last Updated: Tue Nov 30 10:12:54 2021



Method Name: M:\LOKI\DATA\211129\L1129W.M
Calibration Table Last Updated: Tue Nov 30 10:12:54 2021



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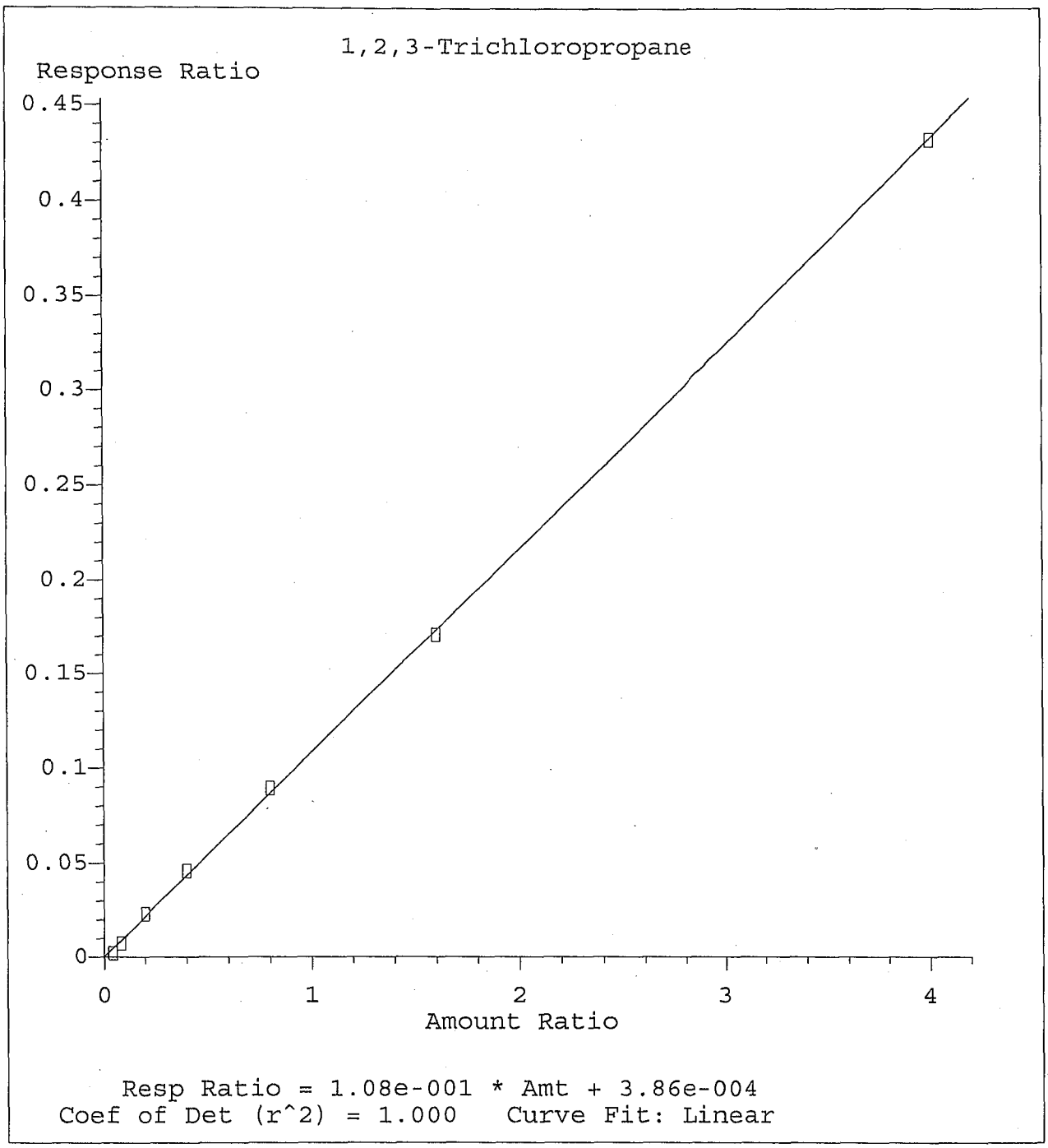
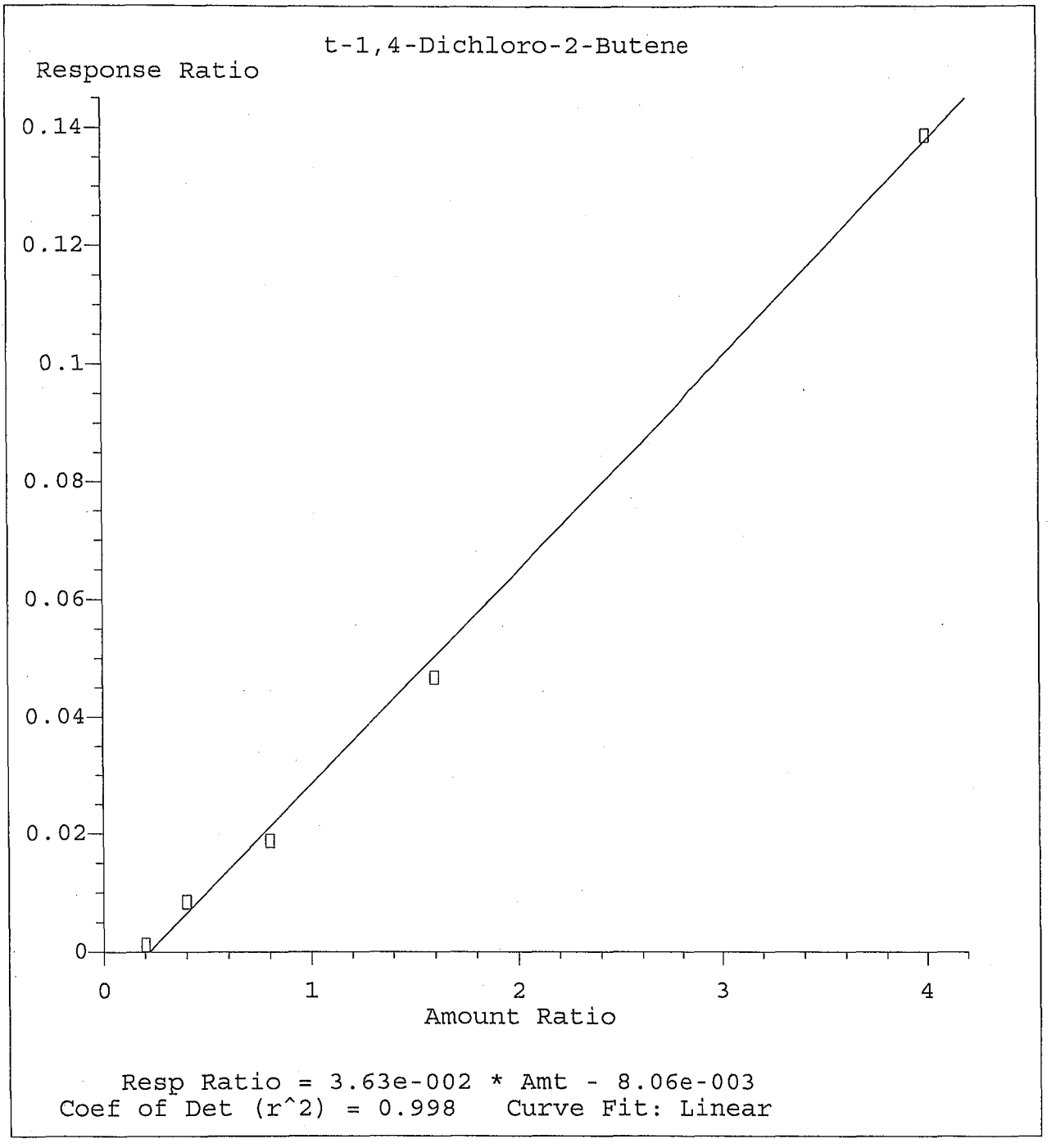
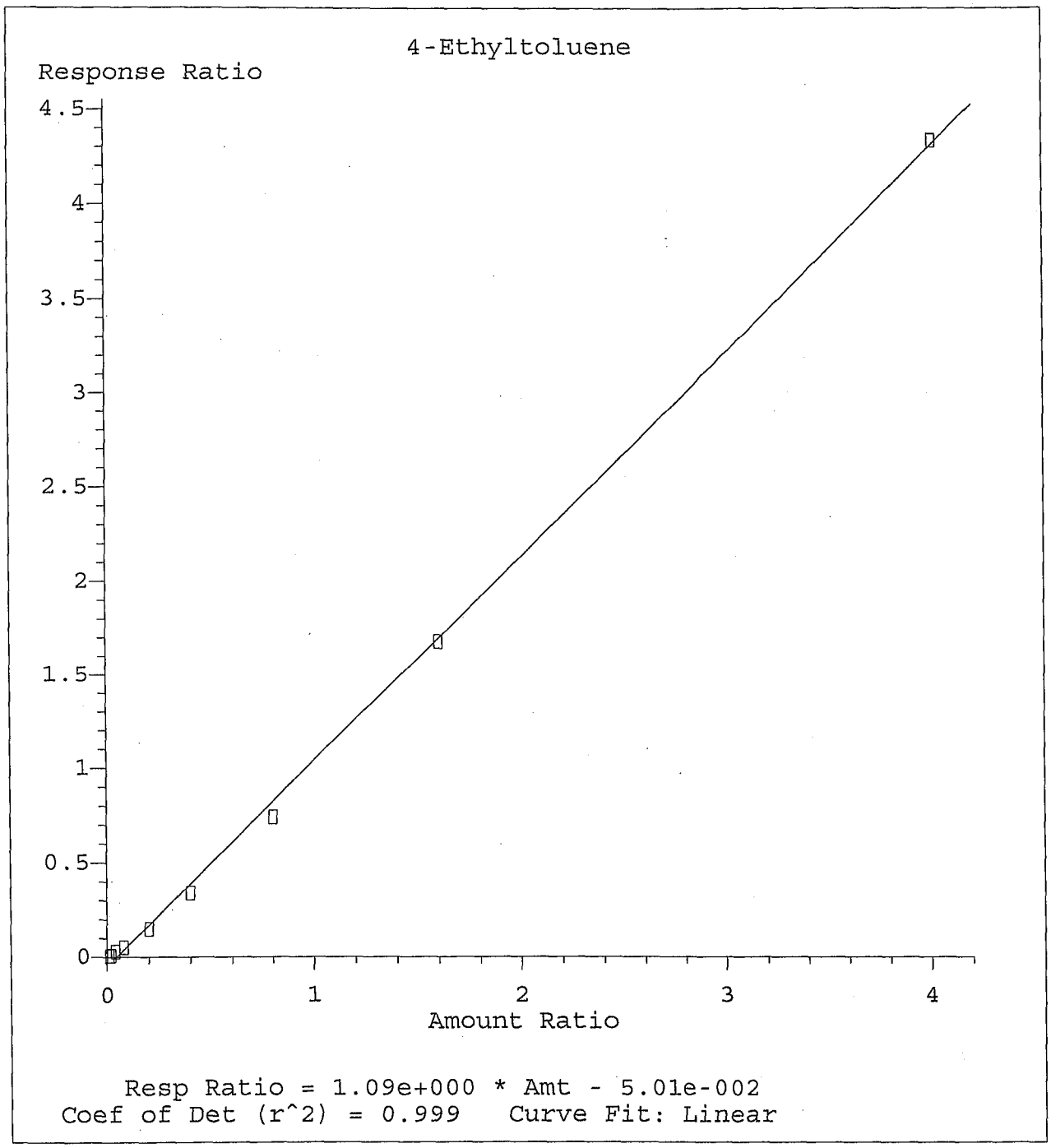
Calibration Table Last Updated: Tue Nov 30 10:12:54 2021



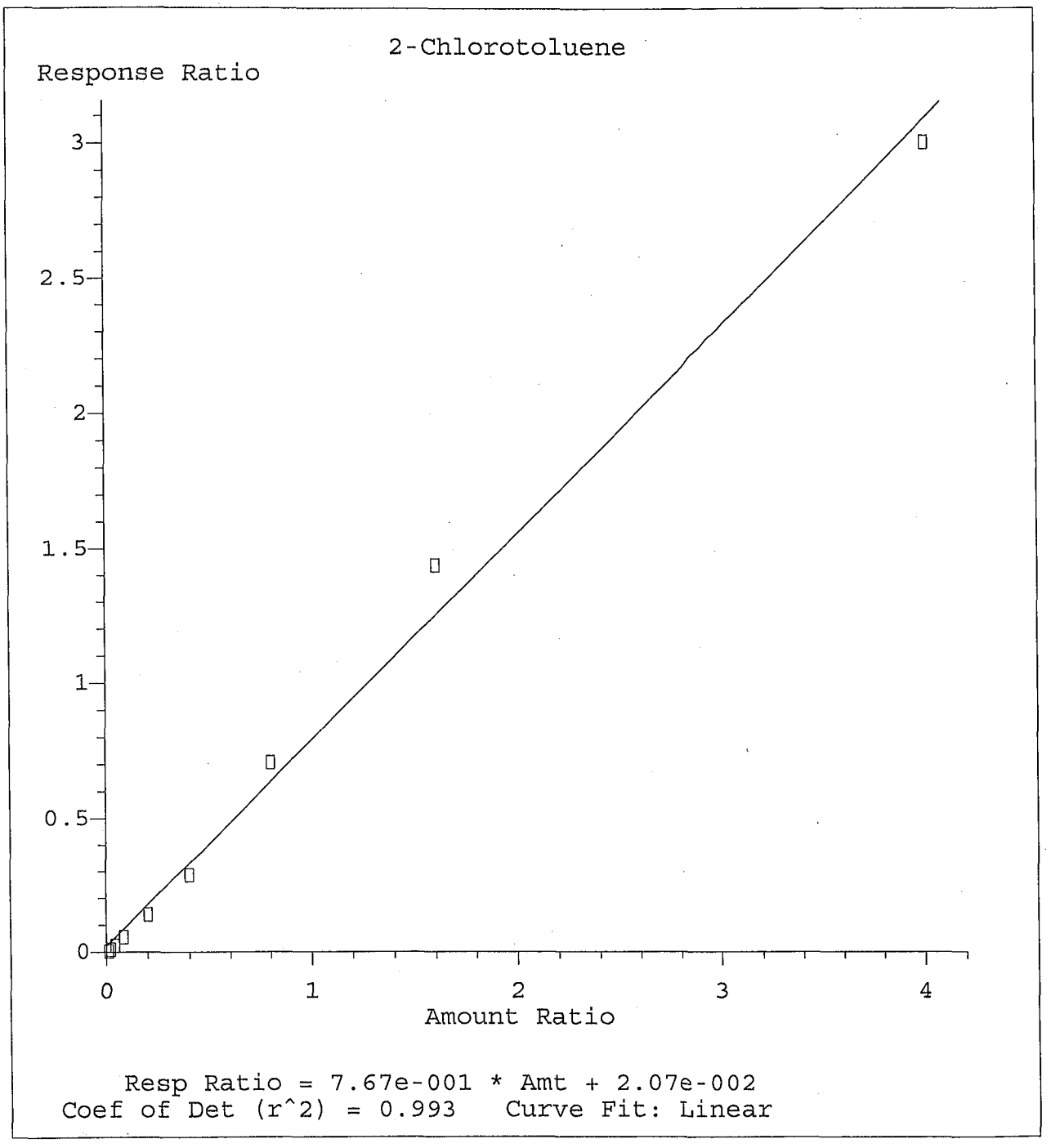
Method Name: M:\LOKI\DATA\211129\L1129W.M
Calibration Table Last Updated: Tue Nov 30 10:12:54 2021



Method Name: M:\LOKI\DATA\211129\L1129W.M
Calibration Table Last Updated: Tue Nov 30 10:12:54 2021



Method Name: M:\LOKI\DATA\211129\L1129W.M
Calibration Table Last Updated: Tue Nov 30 10:12:54 2021



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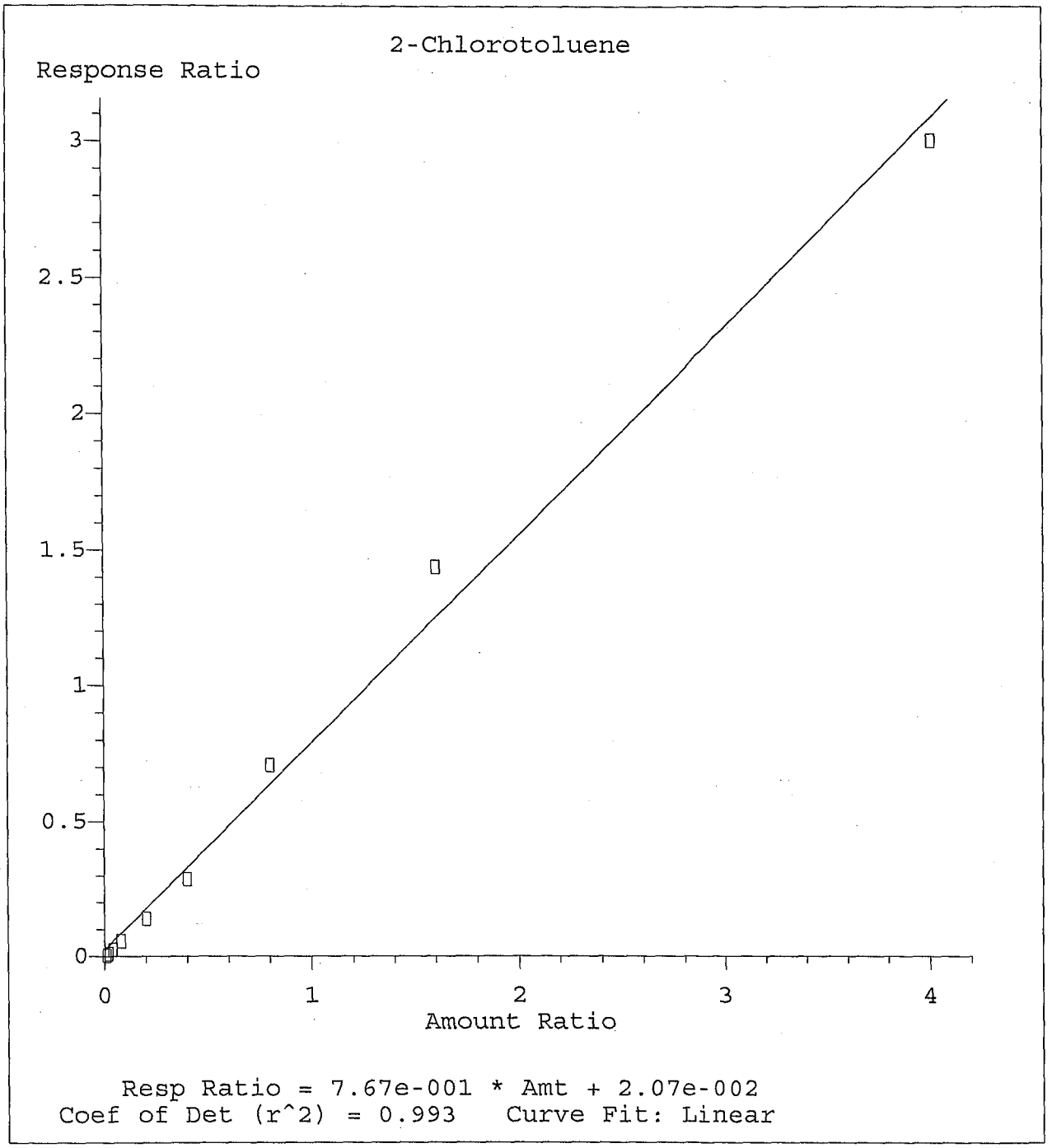
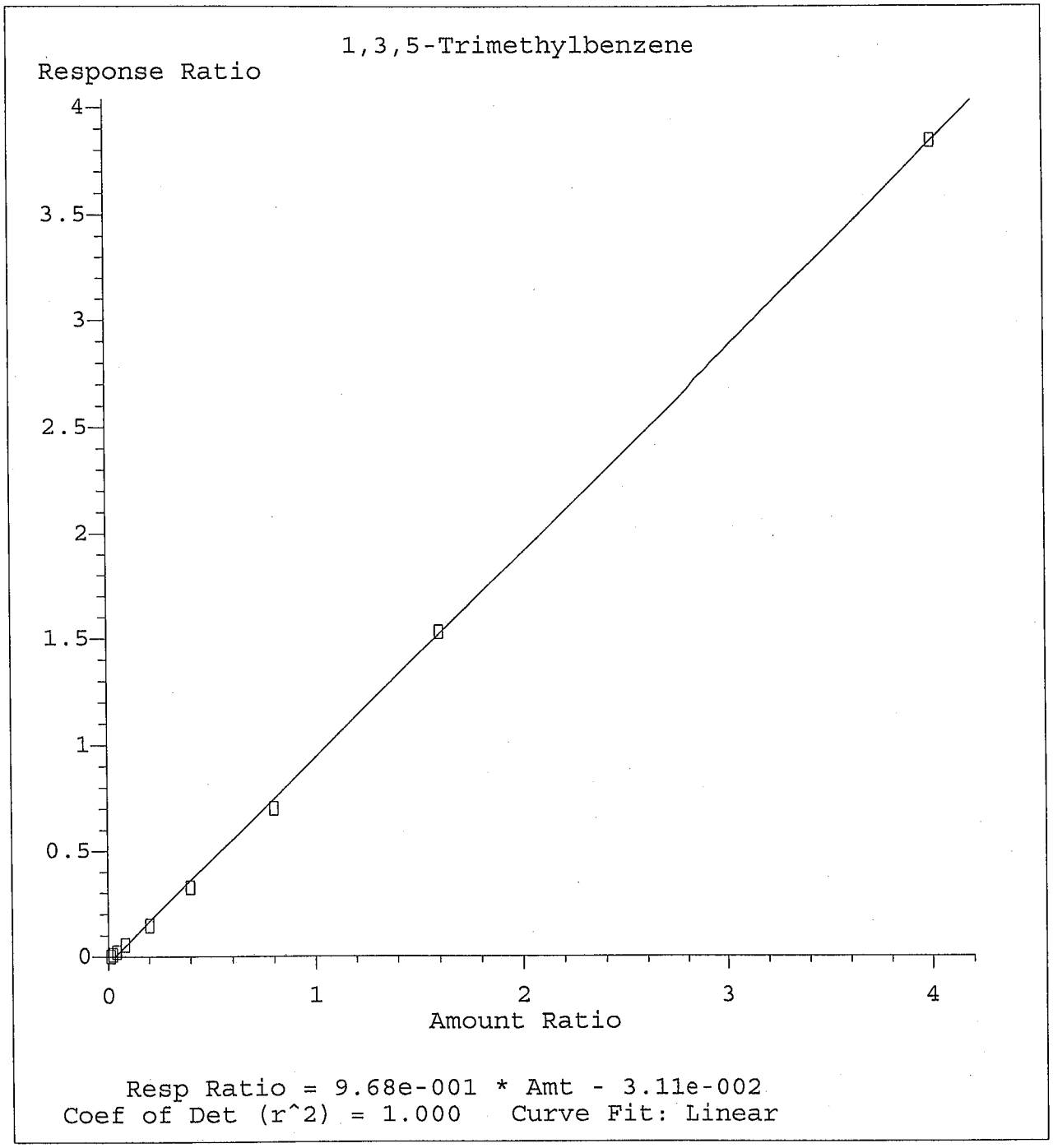
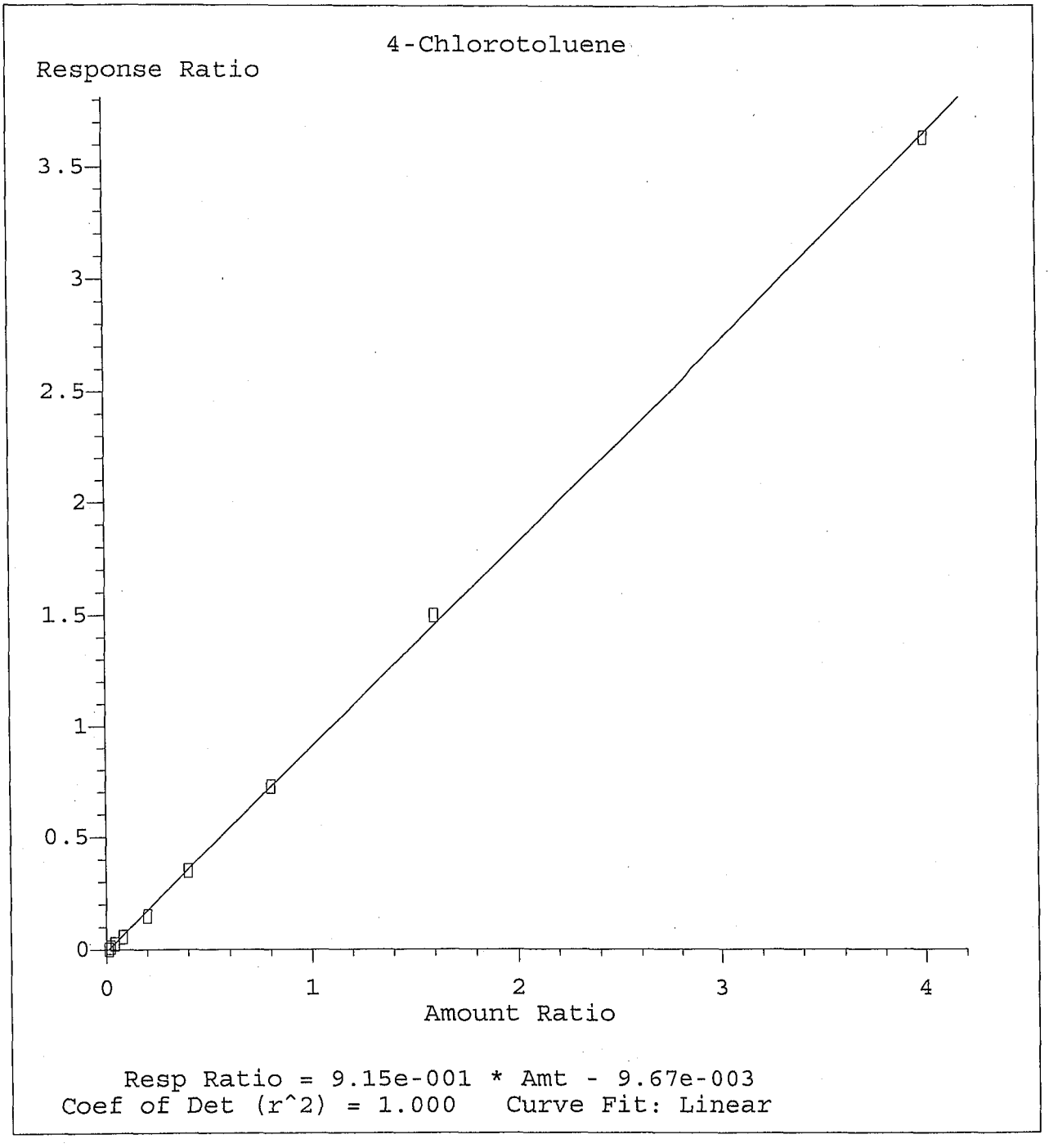
Calibration Table Last Updated: Tue Nov 30 10:12:54 2021



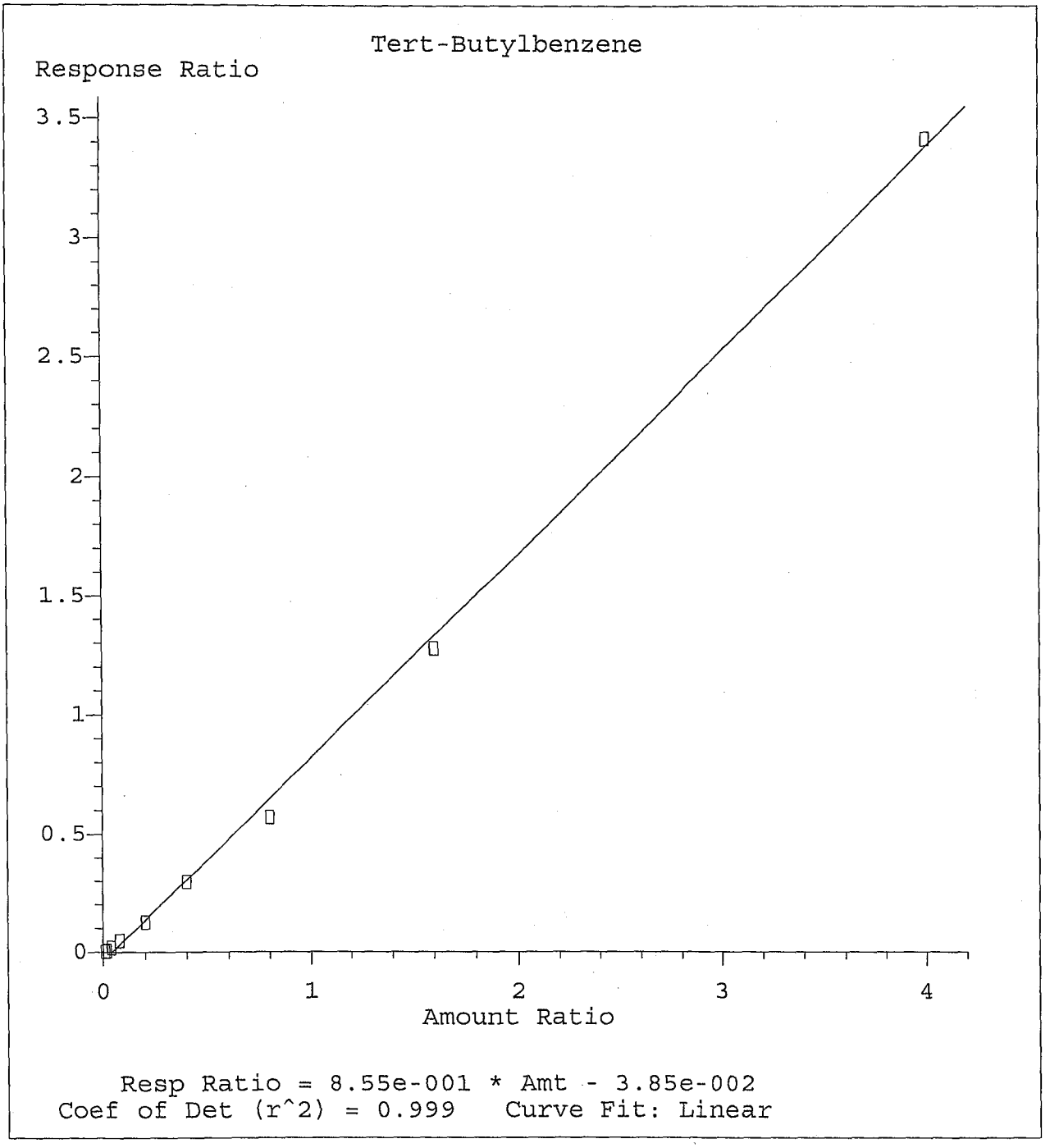
Method Name: M:\LOKI\DATA\211129\L1129W.M
Calibration Table Last Updated: Tue Nov 30 10:12:54 2021



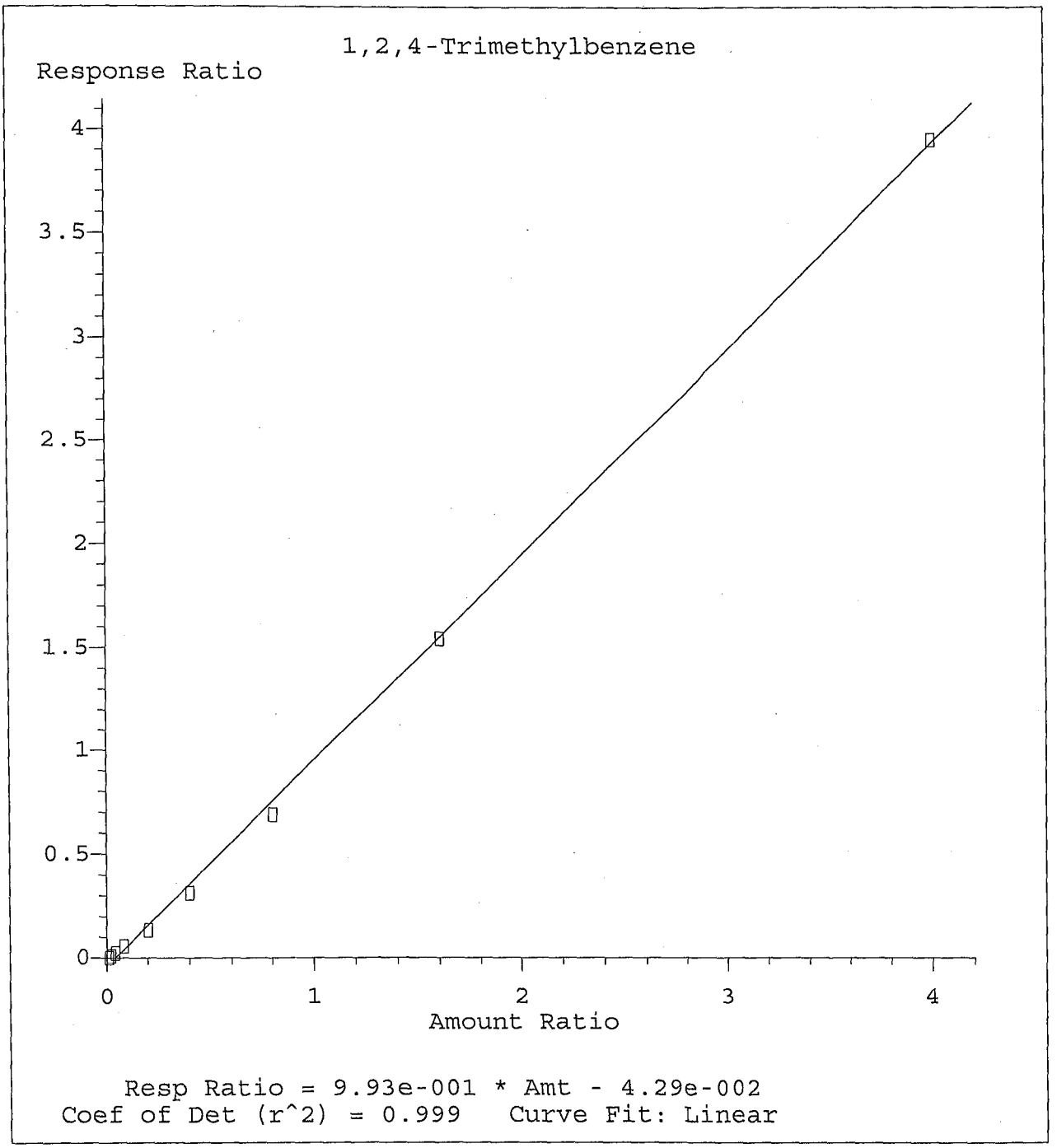
Method Name: M:\LOKI\DATA\211129\L1129W.M
Calibration Table Last Updated: Tue Nov 30 10:12:54 2021



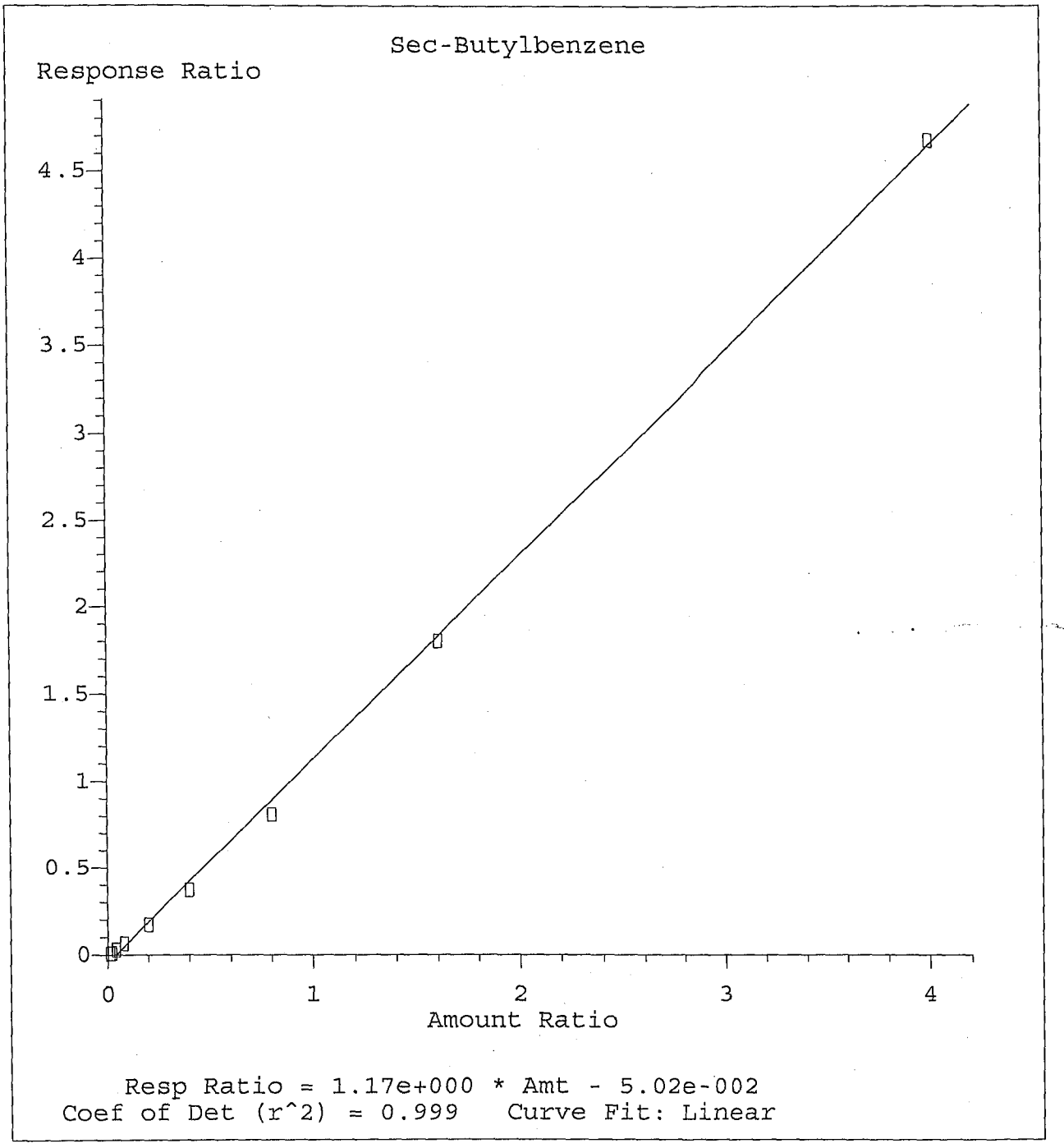
Method Name: M:\LOKI\DATA\211129\L1129W.M
Calibration Table Last Updated: Tue Nov 30 10:12:54 2021



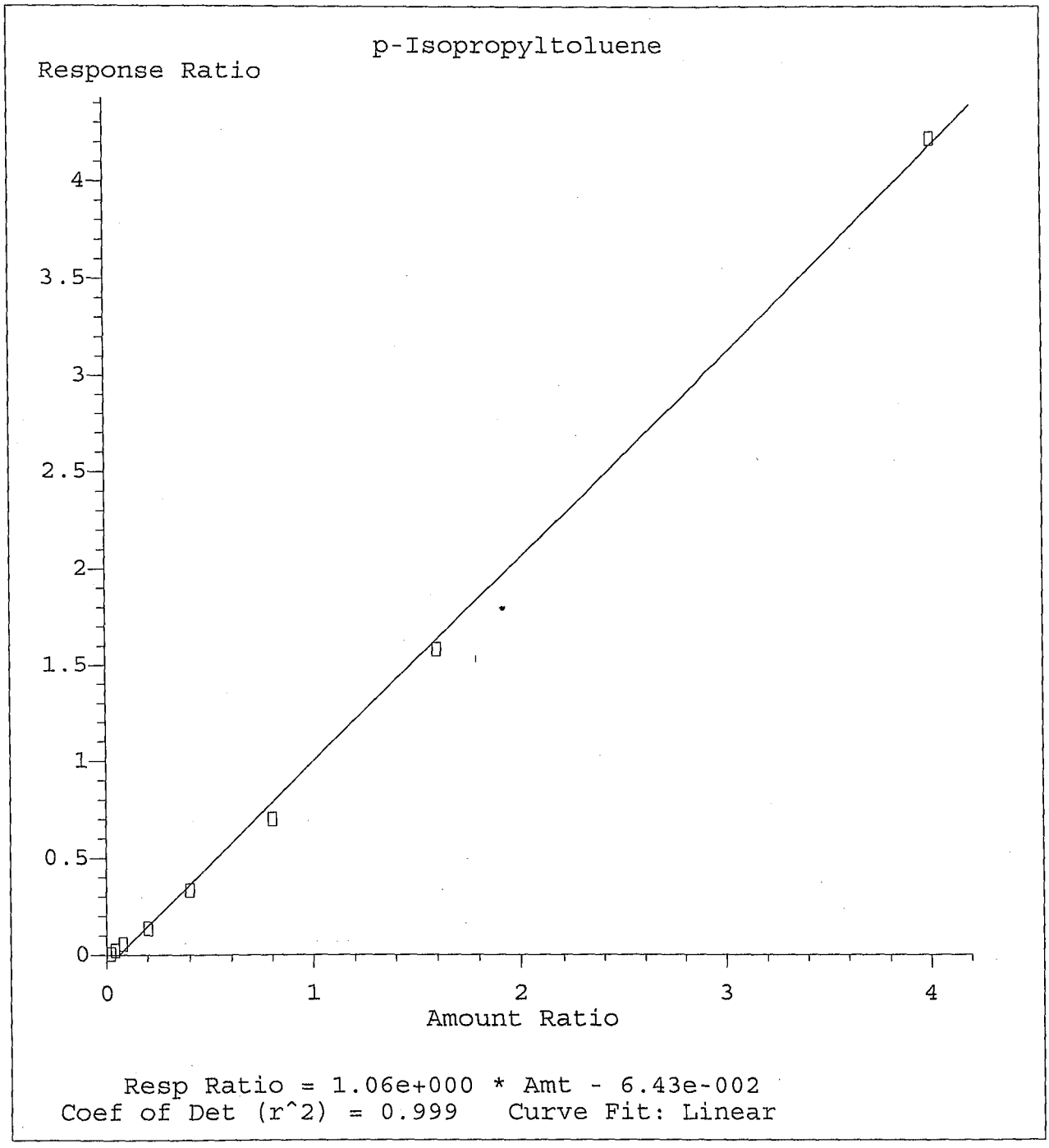
Method Name: M:\LOKI\DATA\211129\L1129W.M
Calibration Table Last Updated: Tue Nov 30 10:12:54 2021



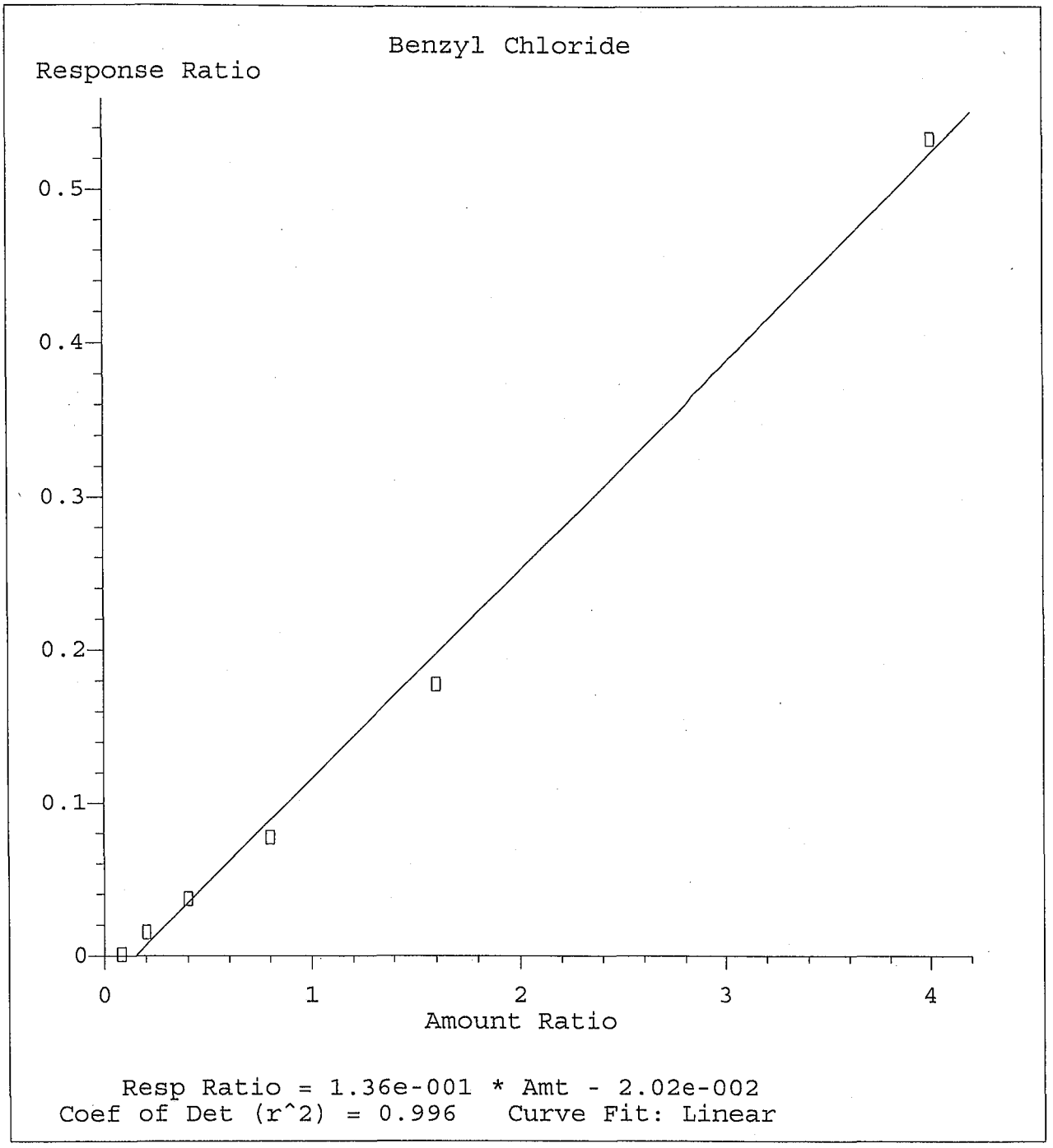
Method Name: M:\LOKI\DATA\211129\L1129W.M
Calibration Table Last Updated: Tue Nov 30 10:12:54 2021



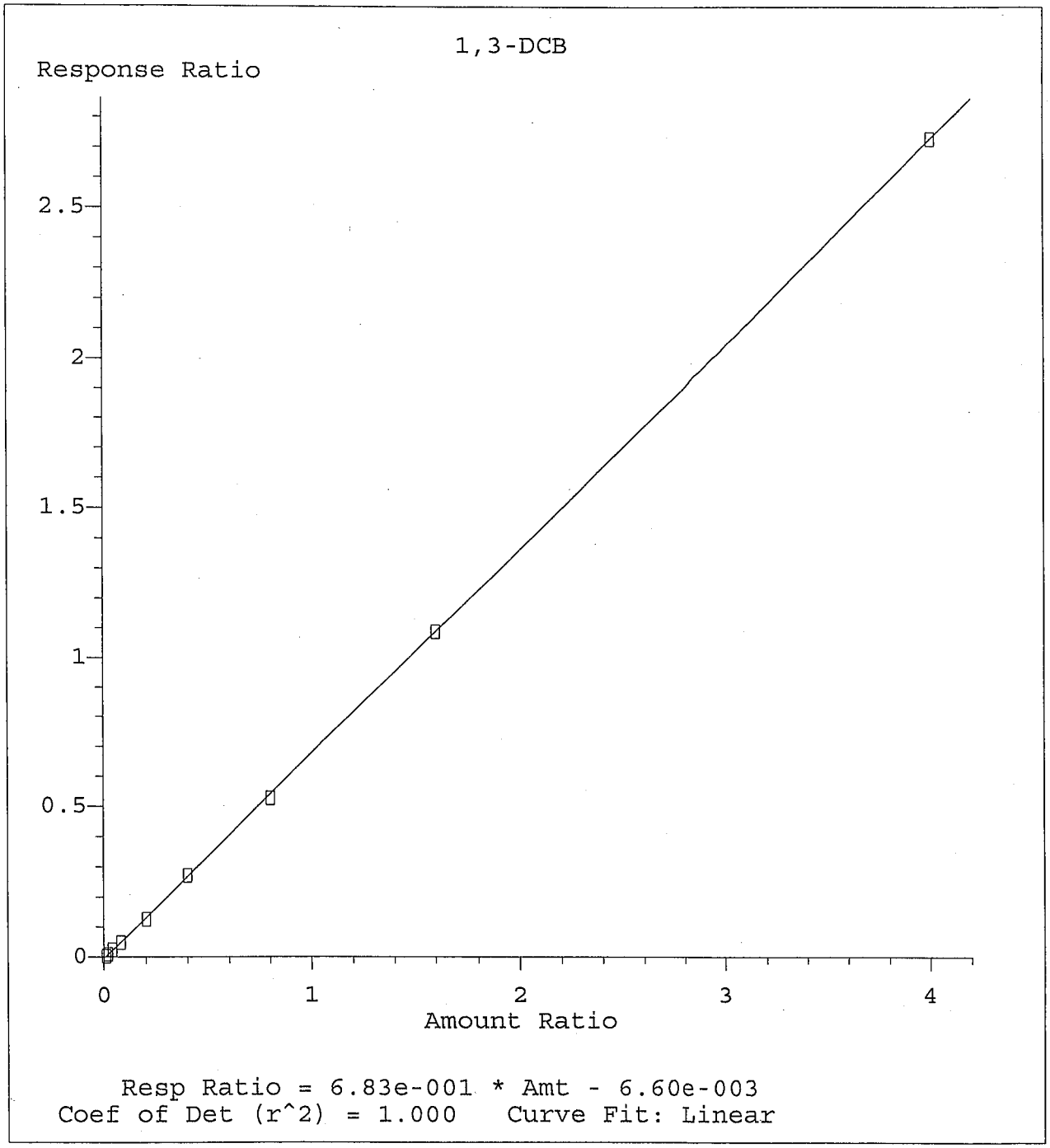
Method Name: M:\LOKI\DATA\211129\L1129W.M
Calibration Table Last Updated: Tue Nov 30 10:12:54 2021



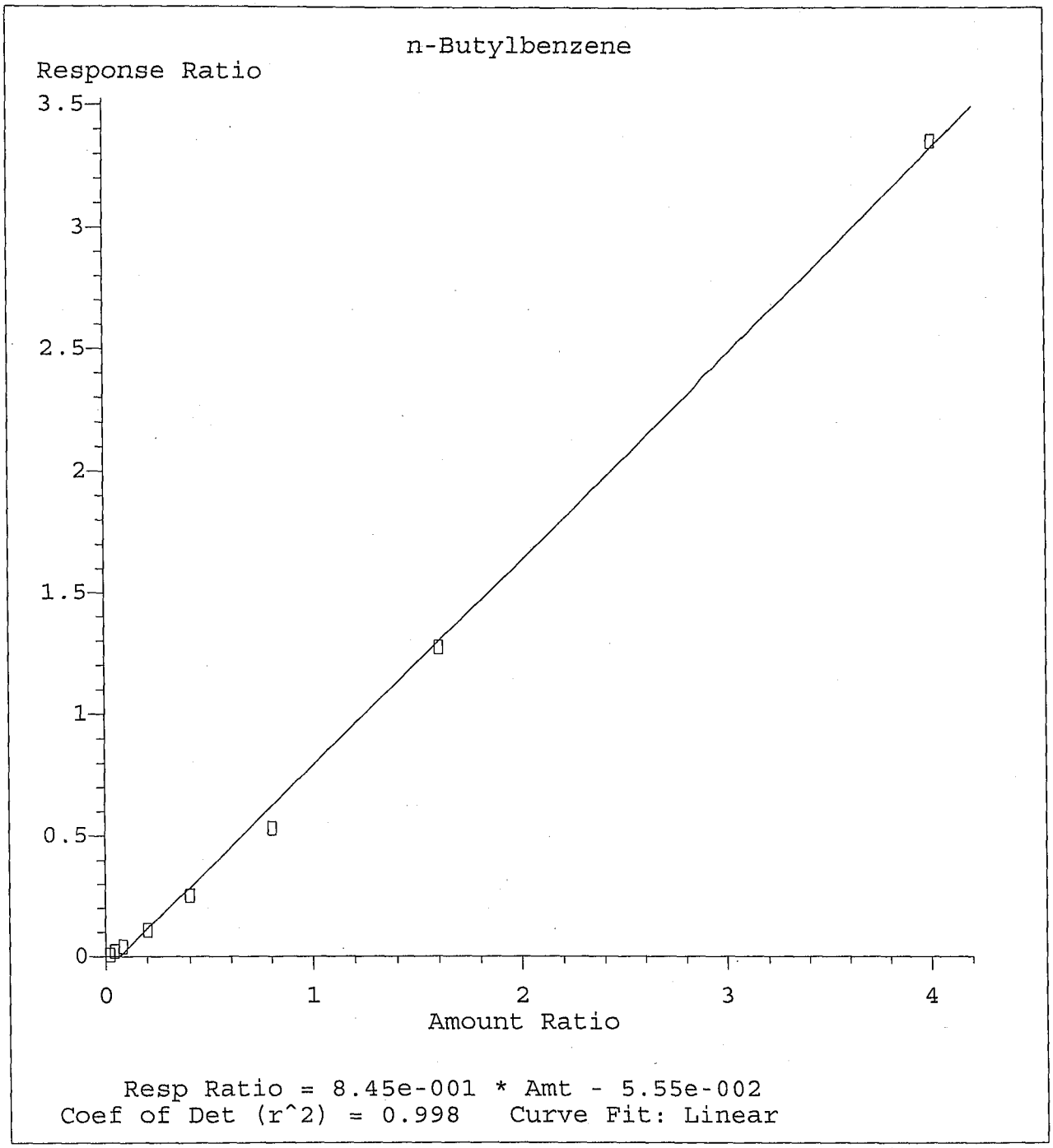
Method Name: M:\LOKI\DATA\211129\L1129W.M
Calibration Table Last Updated: Tue Nov 30 10:12:54 2021



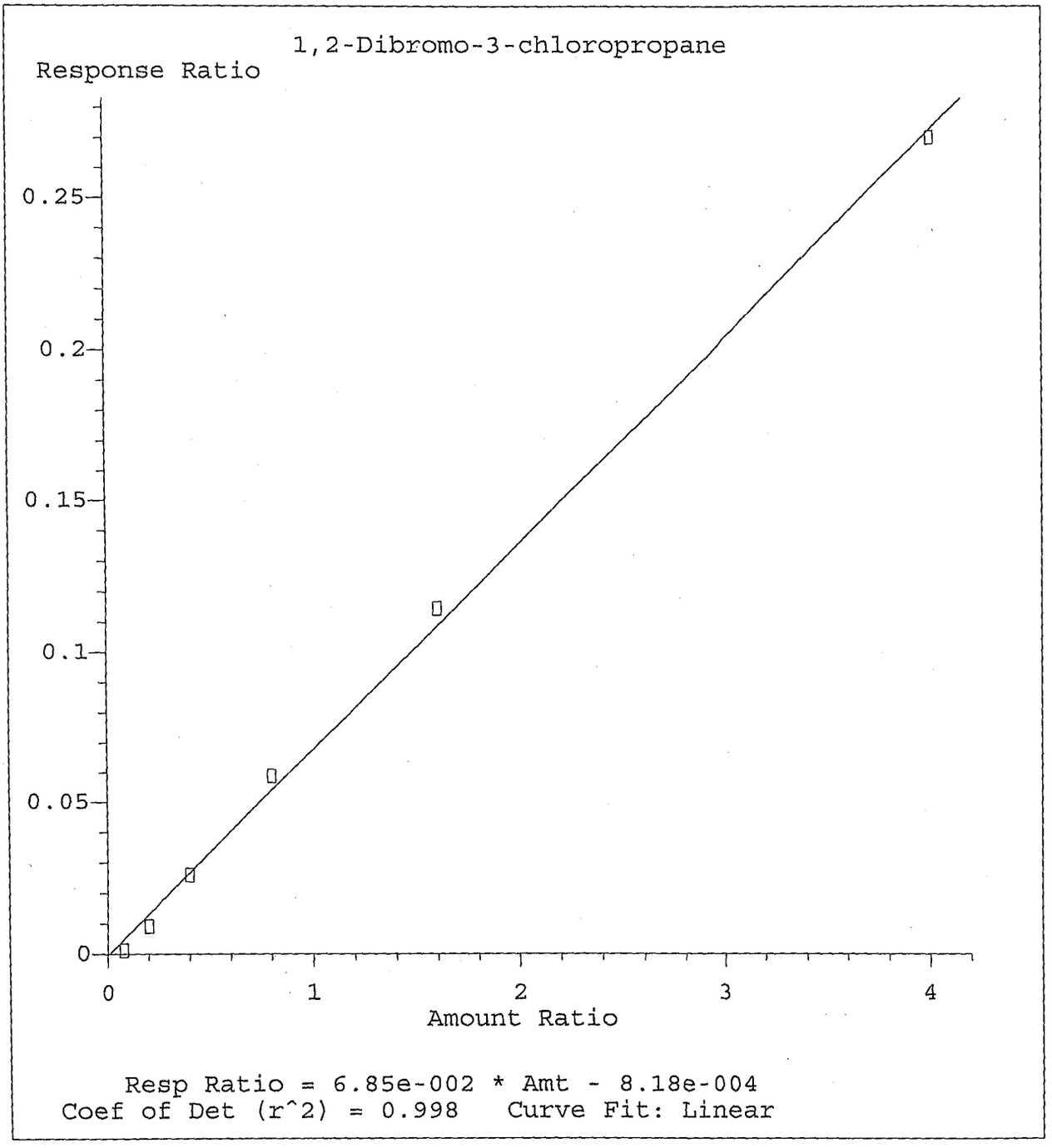
Method Name: M:\LOKI\DATA\211129\L1129W.M
Calibration Table Last Updated: Tue Nov 30 10:12:54 2021



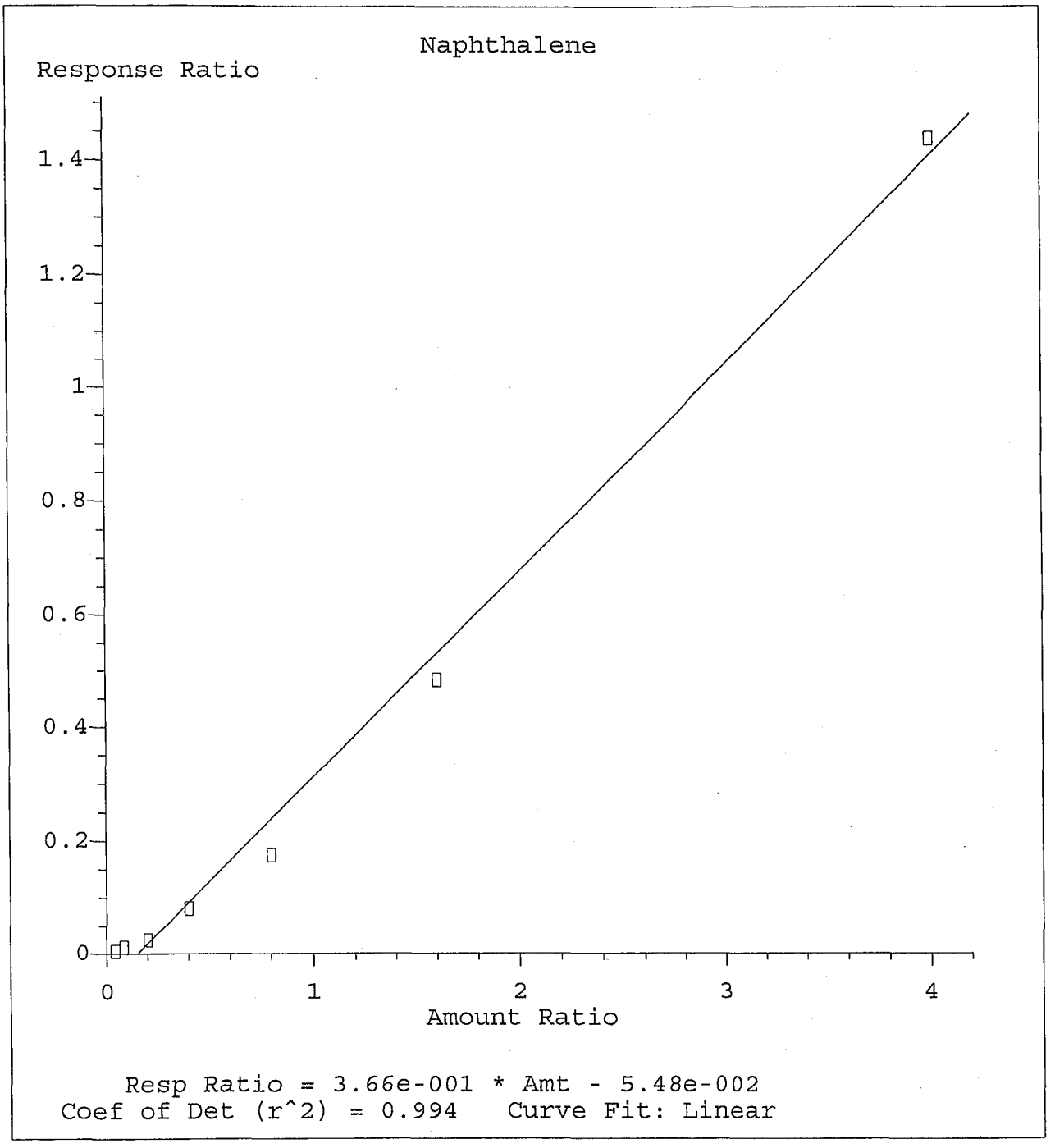
Method Name: M:\LOKI\DATA\211129\L1129W.M
Calibration Table Last Updated: Tue Nov 30 10:12:54 2021



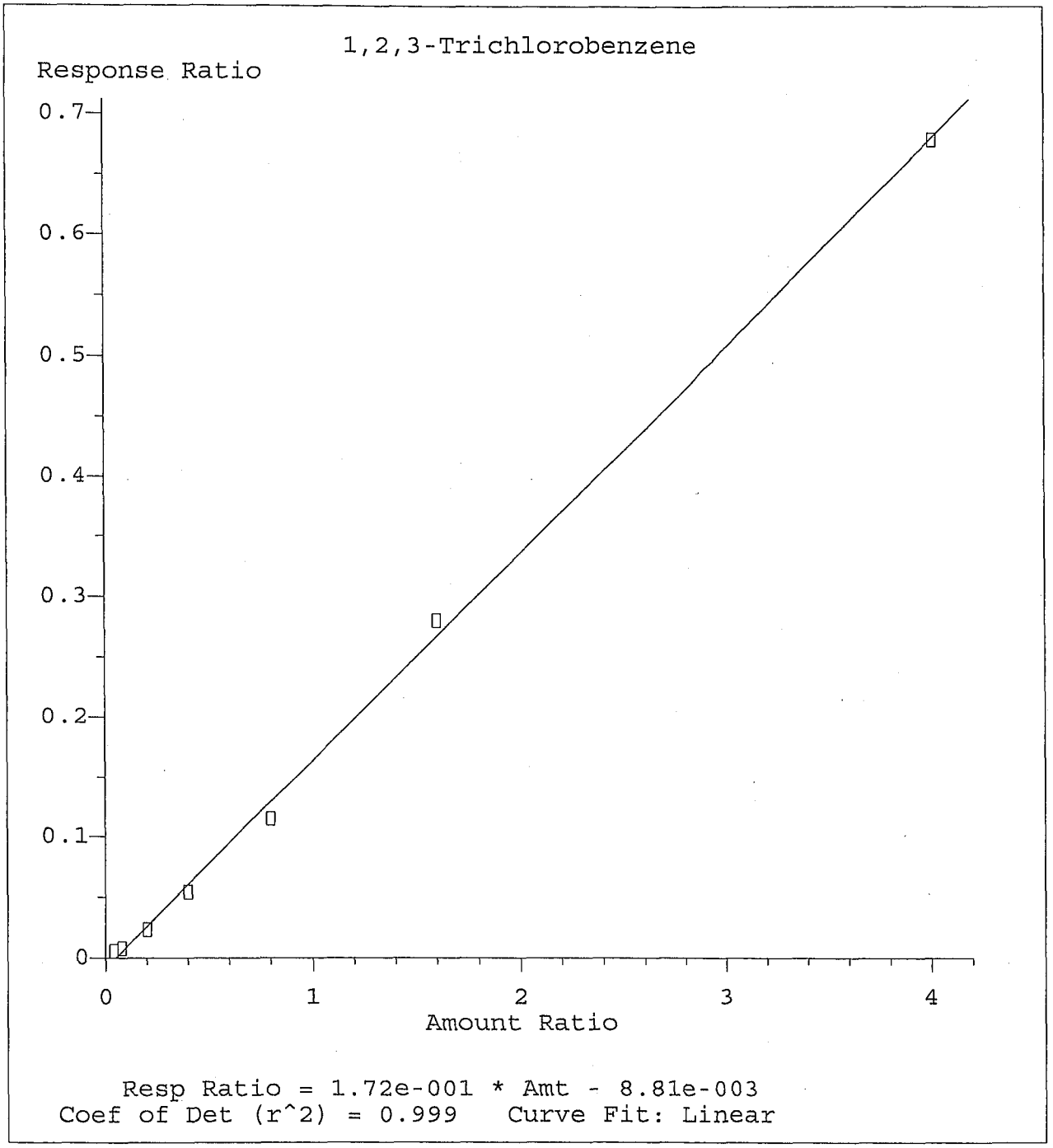
Method Name: M:\LOKI\DATA\211129\L1129W.M
Calibration Table Last Updated: Tue Nov 30 10:12:54 2021



Method Name: M:\LOKI\DATA\211129\L1129W.M
Calibration Table Last Updated: Tue Nov 30 10:12:54 2021



Method Name: M:\LOKI\DATA\211129\L1129W.M
Calibration Table Last Updated: Tue Nov 30 10:12:54 2021



Method Name: M:\LOKI\DATA\211129\L1129W.M
Calibration Table Last Updated: Tue Nov 30 10:12:54 2021

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc. SDG No:

Case No: Date Analyzed: 11/29/2021

Matrix: Water Instrument: Loki

Initial Cal. Date: 11/29/2021

Data File: 1129L16.D

		Compound	MEAN	CCRF	%D		%Drift	
1	TMCL	Dichlorodifluoromethane	0.2334	0.1572	33	TMCL	0.28	
2	TM	Freon 114	0.1011	0.1146	13	TM		
3	TMC**	Chloromethane	0.1894	0.1415	25	TMC**L	5.8	
4	TMC*L	Vinyl chloride	0.1130	0.1233	9.1	TMC*L	2.2	
5	TMCL	Bromomethane	0.1642	0.1683	2.5	TMCL	22	*NT
6	TMC	Chloroethane	0.0819	0.0754	8.0	TMC		
7	TM	Dichlorofluoromethane	0.2396	0.2207	7.9	TM		
8	TMC	Trichlorofluoromethane	0.1730	0.1536	11	TMC		
9	TM	Acrolein	0.0102	0.0083	19	TM		
10	TMC	Acetone	0.0365	0.0313	14	TMC		
11	TMC	Freon-113	0.1182	0.1154	2.3	TMC		
12	TMC*	1,1-DCE	0.1710	0.1651	3.5	TMC*		
13	TMQ	t-Butanol	0.0031	0.0036	17	TMQ	4.6	
14	TM	Acetonitrile	0.0158	0.0142	10	TM		
15	TMC	Methyl Acetate	0.0882	0.0791	10	TMC		
16	TML	Iodomethane	0.0811	0.0832	2.7	TML	3.6	
17	TM	Acrylonitrile	0.0367	0.0365	0.45	TM		
18	TMCL	Methylene chloride	0.1315	0.1430	8.7	TMCL	4.2	
19	TMC	Carbon disulfide	0.2065	0.2043	1.1	TMC		
20	TMCL	Methyl t-butyl ether (MtBE)	0.0407	0.0390	4.3	TMCL	14	
21	TMCL	Trans-1,2-DCE	0.1351	0.1452	7.5	TMCL	1.4	
22	TML	Diisopropyl Ether	0.2153	0.2322	7.8	TML	3.4	
23	TMC**	1,1-DCA	0.1658	0.1885	14	TMC**L	0.32	
24	TML	Vinyl Acetate	0.0627	0.0514	18	TML	5.6	
25	TMC	MEK (2-Butanone)	0.0346	0.0336	3.1	TMC		
26	TMCL	Cis-1,2-DCE	0.1388	0.1460	5.2	TMCL	3.6	
27	TM	2,2-Dichloropropane	0.1416	0.1443	1.9	TM		
28	TMC*L	Chloroform	0.2093	0.2370	13	TMC*L	0.58	
29	TM	Bromochloromethane	0.1016	0.1052	3.6	TM		
30	TMCL	1,1,1-TCA	0.1986	0.2167	9.1	TMCL	0.08	
31	TMCL	Cyclohexane	0.0988	0.1136	15	TMCL	5.9	
32	TML	1,1-Dichloropropene	0.1204	0.1349	12	TML	3.8	
33	TM	2,2,4-Trimethylpentane	0.1014	0.0897	12	TM		
34	TMCL	Carbon Tetrachloride	0.1841	0.1906	3.5	TMCL	3.5	
35	TML	Tert Amyl Methyl Ether	0.0000	0.0345	0.00	TML		
36	TMCL	1,2-DCA	0.1711	0.1861	8.8	TMCL	1.7	
37	TMC	Benzene	0.4277	0.4641	8.5	TMC		
38	TMCL	TCE	0.1485	0.1744	17	TMCL	8.7	
39	TM	2-Pentanone	0.0560	0.0573	2.3	TM		
40	TMC*L	1,2-Dichloropropane	0.1057	0.1178	11	TMC*L	2.8	
		Average			9.4			

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

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

SDG No:
Date Analyzed: 11/29/2021
Instrument: Loki
Cal. Date: 11/29/2021
Data File: 1129L16.D

		Compound	MEAN	CCRF	%D		%Drift
41	TMC	Bromodichloromethane	0.1815	0.1888	4.0	TMC	
42	TMCL	Methyl Cyclohexane	0.0745	0.0787	5.5	TMCL	6.4
43	TM	Dibromomethane	0.1290	0.1298	0.60	TM	
44	TMC	MIBK (methyl isobutyl ketone)	0.0657	0.0687	4.6	TMC	
45	TML	1-Bromo-2-chloroethane	0.0947	0.0846	11	TML	1.1
46	TMCL	Cis-1,3-Dichloropropene	0.1452	0.1609	11	TMCL	2.7
47	TMC*	Toluene	0.4988	0.5301	6.3	TMC*	
48	TMC	Trans-1,3-Dichloropropene	0.0906	0.0856	5.6	TMC	
49	TMCL	1,1,2-TCA	0.1186	0.1382	16	TMCL	2.3
50	TMCL	2-Hexanone	0.0316	0.0353	12	TMCL	12
51	TMCL	1,2-EDB	0.1568	0.1591	1.5	TMCL	3.2
52	TMC	Tetrachloroethene	0.1253	0.1240	1.0	TMC	
53	TML	1-Chlorohexane	0.1967	0.1257	36	TML	14
54	TML	1,1,1,2-Tetrachloroethane	0.1800	0.1855	3.0	TML	1.4
55	TMCL	m&p-Xylene	0.4444	0.4952	11	TMCL	7.0
56	TMCL	o-Xylene	0.4314	0.4969	15	TMCL	7.1
57	TMCL	Styrene	0.3268	0.3837	17	TMCL	6.2
58	TM	1,3-Dichloropropane	0.2148	0.2246	4.6	TM	
59	TMCL	Dibromochloromethane	0.1745	0.1869	7.1	TMCL	3.5
60	TMC**	Chlorobenzene	0.4633	0.4730	2.1	TMC**	
61	TMC*	Ethylbenzene	0.3467	0.3546	2.3	TMC*	
62	TMC**	Bromoform	0.1282	0.1412	10	TMC**L	5.7
63	TMCL	Isopropylbenzene	0.8012	0.9035	13	TMCL	2.3
64	TMC**	1,1,2,2-Tetrachloroethane	0.3096	0.2700	13	TMC**L	11
65	TML	1,2,3-Trichloropropane	0.1001	0.1024	2.3	TML	6.0
66	TML	t-1,4-Dichloro-2-Butene	0.0230	0.0236	2.6	TML	20
67	TM	Bromobenzene	0.3184	0.3437	7.9	TM	
68	TM	n-Propylbenzene	0.8952	1.042	16	TM	
69	TML	4-Ethyltoluene	0.7866	0.8813	12	TML	7.7
70	TML	2-Chlorotoluene	0.6786	0.7472	10	TML	9.3
71	TML	1,3,5-Trimethylbenzene	0.7007	0.8500	21	TML	4.1
72	TML	4-Chlorotoluene	0.7285	0.9094	25	TML	2.0
73	TML	Tert-Butylbenzene	0.6111	0.7228	18	TML	4.2
74	TML	1,2,4-Trimethylbenzene	0.6794	0.8689	28	TML	1.7
75	TML	Sec-Butylbenzene	0.8602	1.006	17	TML	3.6
76	TML	p-Isopropyltoluene	0.7648	0.8894	16	TML	1.0
77	TML	Benzyl Chloride	0.0878	0.0911	3.8	TML	4.1
78	TMCL	1,3-DCB	0.5907	0.7151	21	TMCL	7.0
79	TMC	1,4-DCB	0.6606	0.7285	10	TMC	
80	TML	n-Butylbenzene	0.6141	0.7272	18	TML	2.4
		Average			11.0		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

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

SDG No:
Date Analyzed: 11/29/2021
Instrument: Loki
Cal. Date: 11/29/2021
Data File: 1129L16.D

		Compound	MEAN	CCRF	%D		%Drift	
81	TMC	1,2-DCB	0.6230	0.6664	7.0	TMC		
82	TM	Hexachloroethane	0.2151	0.1936	10	TM		
83	TMCL	1,2-Dibromo-3-chloropropane	0.0565	0.0650	15	TMCL	2.1	
84	TMC	1,2,4-Trichlorobenzene	0.1658	0.2046	23	TMC		*NT
85	TM	Hexachlorobutadiene	0.1033	0.1035	0.18	TM		
86	TML	Naphthalene	0.2101	0.3349	59	TML	29	*NT
87	TML	1,2,3-Trichlorobenzene	0.1417	0.1648	16	TML	8.4	
88								
89								
90								
91								
92								
93								
94								
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113								
114								
115								
116								
117								
118								
119								
120								
		Average			18.6			

Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L16.D Vial: 14
Acq On : 29 Nov 21 19:48 Operator:
Sample : (SS) 10ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 10:13 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	6.31	96	68711	25.00	ppb		0.00
56) Chlorobenzene-D5 (IS)	9.78	117	60026	25.00	ppb		0.00
71) 1,4-Dichlorobenzene-D4 (IS	12.36	152	41914	25.00	ppb		0.00
System Monitoring Compounds							
32) Dibromofluoromethane(S)	5.45	113	20224	23.69	ppb		0.00
Spiked Amount 25.000			Recovery =	94.780%			
37) 1,2-DCA-D4(S)	5.87	65	21123	23.85	ppb		0.00
Spiked Amount 25.000			Recovery =	95.416%			
57) Toluene-D8(S)	8.18	98	67992	26.06	ppb		0.00
Spiked Amount 25.000			Recovery =	104.248%			
65) 4-Bromofluorobenzene(S)	11.07	174	26990	25.96	ppb		0.00
Spiked Amount 25.000			Recovery =	103.840%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.08	85	4321	9.97	ppb		99
3) Freon 114	1.18	85	3150	11.34	ppb		96
4) Chloromethane	1.22	50	3888	9.42	ppb		96
5) Vinyl chloride	1.31	62	3389	10.22	ppb		93
6) Bromomethane	1.56	96	4626	7.76	ppb		82
7) Chloroethane	1.65	64	2071	9.20	ppb		93
8) Dichlorofluoromethane	1.84	67	6065	9.21	ppb		94
9) Trichlorofluoromethane	1.88	101	4221	8.88	ppb		87
10) Acrolein	2.28	56	2847	101.27	ppb		92
11) Acetone	2.45	43	4298	42.89	ppb	#	80
12) Freon-113	2.39	101	3173	9.77	ppb		93
13) 1,1-DCE	2.37	61	4537	9.65	ppb		96
14) t-Butanol	3.16	59	1234	119.21	ppb		93
15) Acetonitrile	2.75	41	4882	112.44	ppb		98
16) Methyl Acetate	2.84	43	2175	8.97	ppb		99
17) Iodomethane	2.51	142	2288	10.36	ppb		96
18) Acrylonitrile	3.25	53	1004	9.95	ppb		96
19) Methylene chloride	2.92	84	3930	10.42	ppb		97
20) Carbon disulfide	2.57	76	5614	9.89	ppb		99
21) Methyl t-butyl ether (MtBE	3.32	73	1072	11.36	ppb		100
22) Trans-1,2-DCE	3.26	61	3990	10.14	ppb		97
23) Diisopropyl Ether	4.07	45	6381	9.66	ppb		98
24) 1,1-DCA	3.87	63	5182	10.03	ppb		98
25) Vinyl Acetate	4.07	43	1412	9.44	ppb		100
27) MEK (2-Butanone)	4.85	43	4611	48.47	ppb		96
28) Cis-1,2-DCE	4.77	61	4013	9.64	ppb		95
29) 2,2-Dichloropropane	4.74	77	3966	10.19	ppb		89

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

Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L16.D Vial: 14
Acq On : 29 Nov 21 19:48 Operator:
Sample : (SS) 10ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 10:13 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
30) Chloroform	5.24	83	6513	10.06	ppb		97
31) Bromochloromethane	5.09	130	2891	10.36	ppb		91
33) 1,1,1-TCA	5.44	97	5956	9.99	ppb		98
34) Cyclohexane	5.50	56	3122	9.41	ppb	#	83
35) 1,1-Dichloropropene	5.67	75	3709	10.38	ppb		88
36) 2,2,4-Trimethylpentane	6.07	57	2466	8.85	ppb		93
38) Carbon Tetrachloride	5.66	119	5238	9.65	ppb		95
40) 1,2-DCA	5.97	62	5115	10.17	ppb		98
41) Benzene	5.93	78	12756	10.85	ppb		95
42) TCE	6.75	130	4794	10.87	ppb		94
43) 2-Pentanone	7.03	43	19672	127.88	ppb		99
44) 1,2-Dichloropropane	7.02	63	3237	10.28	ppb		94
45) Bromodichloromethane	7.36	83	5189	10.40	ppb		98
46) Methyl Cyclohexane	6.97	98	2162	10.64	ppb		81
47) Dibromomethane	7.15	174	3567	10.06	ppb		96
49) MIBK (methyl isobutyl ket	8.10	43	9444	52.31	ppb		95
50) 1-Bromo-2-chloroethane	7.70	63	2324	9.89	ppb		95
51) Cis-1,3-Dichloropropene	7.88	75	4421	9.73	ppb		96
52) Toluene	8.25	91	14570	10.63	ppb		98
53) Trans-1,3-Dichloropropene	8.52	75	2352	9.44	ppb		97
54) 1,1,2-TCA	8.72	97	3797	10.23	ppb		88
55) 2-Hexanone	9.04	43	4845	44.18	ppb		97
58) 1,2-EDB	9.25	107	3820	9.68	ppb		88
59) Tetrachloroethene	8.86	166	2978	9.90	ppb		92
60) 1-Chlorohexane	9.81	91	3017	8.58	ppb		93
61) 1,1,1,2-Tetrachloroethane	9.90	131	4453	9.86	ppb		76
62) m&p-Xylene	10.07	91	23780	18.59	ppb		97
63) o-Xylene	10.51	91	11930	9.29	ppb		99
64) Styrene	10.52	104	9214	9.38	ppb		96
66) 1,3-Dichloropropane	8.90	76	5392	10.46	ppb		94
67) Dibromochloromethane	9.14	129	4487	9.65	ppb		97
68) Chlorobenzene	9.80	112	11357	10.21	ppb		98
69) Ethylbenzene	9.94	91	8514	10.23	ppb		100
70) Bromoform	10.71	173	3390	9.43	ppb		99
72) Isopropylbenzene	10.92	105	15147	9.77	ppb		100
73) 1,1,2,2-Tetrachloroethane	11.24	83	4527	8.86	ppb		87
74) 1,2,3-Trichloropropane	11.28	110	1717	9.40	ppb		86
75) t-1,4-Dichloro-2-Butene	11.31	53	395	12.03	ppb		79
76) Bromobenzene	11.23	158	5763	10.79	ppb		94
77) n-Propylbenzene	11.37	91	17473	11.64	ppb		96
78) 4-Ethyltoluene	11.50	105	14775	9.23	ppb		98
79) 2-Chlorotoluene	11.45	91	12528	9.07	ppb		94

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

Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L16.D Vial: 14
Acq On : 29 Nov 21 19:48 Operator:
Sample : (SS) 10ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 10:13 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration
DataAcq Meth : L8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
80)	1,3,5-Trimethylbenzene	11.57	105	14250	9.59	ppb		92
81)	4-Chlorotoluene	11.57	91	15246	10.20	ppb		99
82)	Tert-Butylbenzene	11.93	119	12118	9.58	ppb		98
83)	1,2,4-Trimethylbenzene	11.98	105	14568	9.83	ppb		93
84)	Sec-Butylbenzene	12.18	105	16861	9.64	ppb		100
85)	p-Isopropyltoluene	12.35	119	14911	9.90	ppb		90
86)	Benzyl Chloride	12.54	91	1527	10.41	ppb	#	73
87)	1,3-DCB	12.28	146	11989	10.70	ppb		96
88)	1,4-DCB	12.39	146	12213	11.03	ppb		96
89)	n-Butylbenzene	12.80	91	12192	10.24	ppb		97
90)	1,2-DCB	12.80	146	11173	10.70	ppb		92
91)	Hexachloroethane	13.09	117	3245	9.00	ppb		98
92)	1,2-Dibromo-3-chloropropan	13.68	157	1089	9.79	ppb		93
93)	1,2,4-Trichlorobenzene	14.61	180	3430	12.34	ppb		98
94)	Hexachlorobutadiene	14.82	225	1735	10.02	ppb		88
95)	Naphthalene	14.88	128	5615	12.91	ppb		95
96)	1,2,3-Trichlorobenzene	15.15	182	2763	10.84	ppb		96

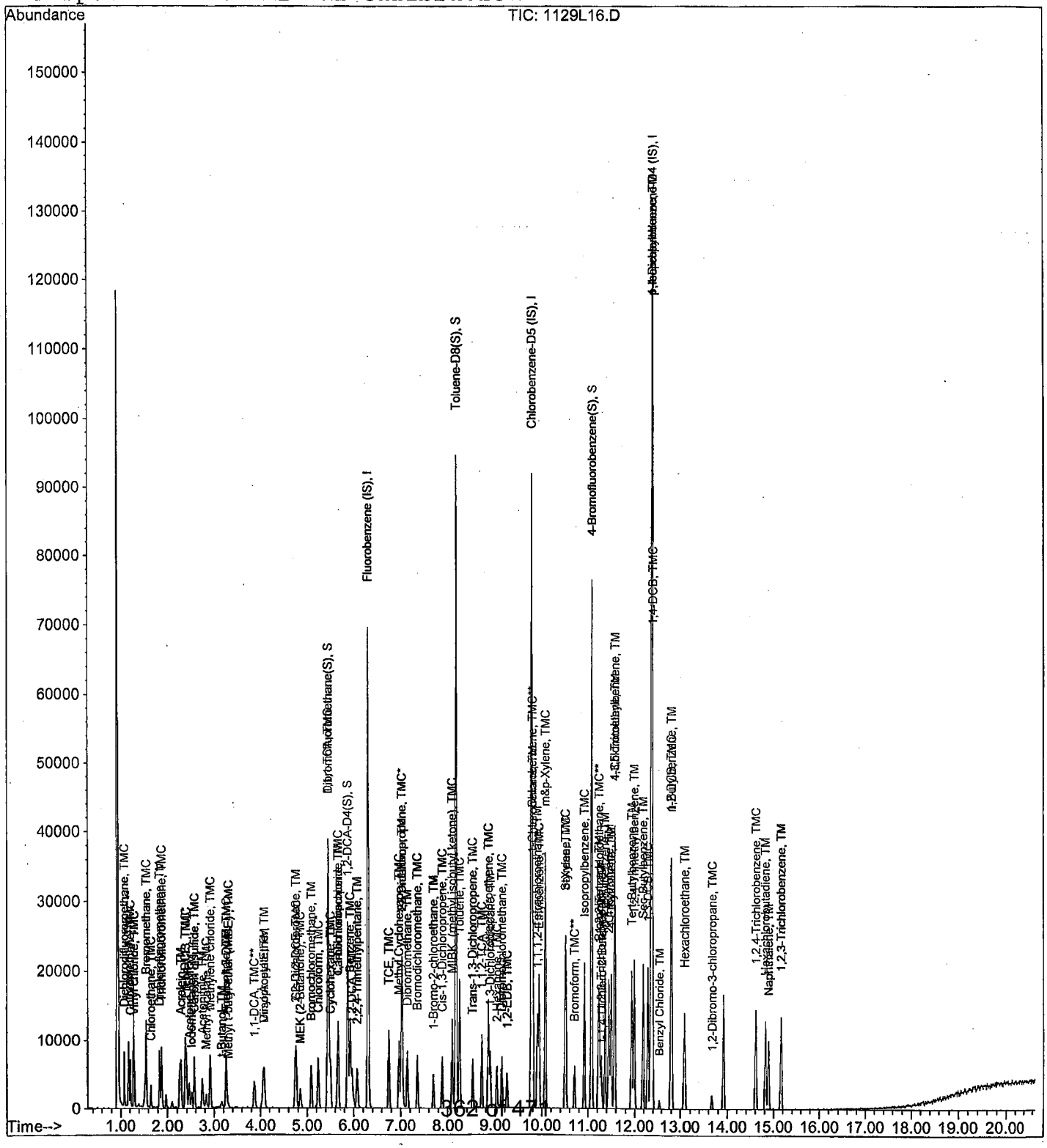
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LOKI\DATA\211129\1129L16.D Vial: 14
Acq On : 29 Nov 21 19:48 Operator:
Sample : (SS) 10ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 10:13 2021 Quant Results File: L1129W.RES

Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

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

SDG No:
Date Analyzed: 11/30/2021
Instrument: Loki
Initial Cal. Date: 11/29/2021
Data File: 1129L26.D

		Compound	MEAN	CCRF	%D		%Drift	
1	I	Fluorobenzene (IS)	ISTD			I		
2	TMCL	Dichlorodifluoromethane	0.2334	0.1562	33	TMCL	0.96	
3	TM	Freon 114	0.1011	0.1080	6.9	TM		
4	TMC**	Chloromethane	0.1894	0.1444	24	TMC**L	3.8	
5	TMC*L	Vinyl chloride	0.1130	0.1293	14	TMC*L	7.2	
6	TMCL	Bromomethane	0.1642	0.1366	17	TMCL	36	*NT
7	TMC	Chloroethane	0.0819	0.0738	9.9	TMC		
8	TM	Dichlorofluoromethane	0.2396	0.2330	2.8	TM		
9	TMC	Trichlorofluoromethane	0.1730	0.1617	6.5	TMC		
10	TM	Acrolein	0.0102	0.0080	21	TM		*NT
11	TMC	Acetone	0.0365	0.0288	21	TMC		*NT
12	TMC	Freon-113	0.1162	0.1198	1.3	TMC		
13	TMC*	1,1-DCE	0.1710	0.1624	5.0	TMC*		
14	TMQ	t-Butanol	0.0031	0.0028	7.2	TMQ	14	
15	TM	Acetonitrile	0.0158	0.0127	19	TM		
16	TMC	Methyl Acetate	0.0882	0.0727	18	TMC		
17	TML	Iodomethane	0.0811	0.0576	29	TML	18	
18	TM	Acrylonitrile	0.0367	0.0345	5.9	TM		
19	TMCL	Methylene chloride	0.1315	0.1295	1.5	TMCL	6.0	
20	TMC	Carbon disulfide	0.2065	0.1853	10	TMC		
21	TMCL	Methyl t-butyl ether (MtBE)	0.0407	0.0365	10	TMCL	9.1	
22	TMCL	Trans-1,2-DCE	0.1351	0.1486	10.0	TMCL	3.8	
23	TML	Diisopropyl Ether	0.2153	0.2397	11	TML	0.69	
24	TMC**	1,1-DCA	0.1658	0.1894	14	TMC**L	0.78	
25	TML	Vinyl Acetate	0.0627	0.0495	21	TML	9.0	
26	TMC	MEK (2-Butanone)	0.0346	0.0315	9.1	TMC		
27	TMCL	Cis-1,2-DCE	0.1388	0.1478	6.5	TMCL	2.5	
28	TM	2,2-Dichloropropane	0.1416	0.1340	5.4	TM		
29	TMC*L	Chloroform	0.2093	0.2412	15	TMC*L	2.4	
30	TM	Bromochloromethane	0.1016	0.1021	0.49	TM		
31	S	Dibromofluoromethane(S)	0.3105	0.2924	5.9	S		
32	TMCL	1,1,1-TCA	0.1986	0.2269	14	TMCL	4.7	
33	TMCL	Cyclohexane	0.0988	0.1162	18	TMCL	4.1	
34	TML	1,1-Dichloropropene	0.1204	0.1312	8.9	TML	1.2	
35	TM	2,2,4-Trimethylpentane	0.1014	0.0882	13	TM		
36	S	1,2-DCA-D4(S)	0.3222	0.3075	4.6	S		
37	TMCL	Carbon Tetrachloride	0.1841	0.1960	6.4	TMCL	0.80	
38	TML	Tert Amyl Methyl Ether	0.0000	0.0284	0.00	TML		
39	TMCL	1,2-DCA	0.1711	0.1786	4.4	TMCL	2.6	
40	TMC	Benzene	0.4277	0.4576	7.0	TMC		
		Average			11.2			

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

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

SDG No:
Date Analyzed: 11/30/2021
Instrument: Loki
Cal. Date: 11/29/2021
Data File: 1129L26.D

		Compound	MEAN	CCRF	%D		%Drift	
41	TMCL	TCE	0.1485	0.1656	12	TMCL	3.3	
42	TM	2-Pentanone	0.0560	0.0509	9.1	TM		
43	TMC*L	1,2-Dichloropropane	0.1057	0.1158	9.6	TMC*L	1.2	
44	TMC	Bromodichloromethane	0.1815	0.1868	2.9	TMC		
45	TMCL	Methyl Cyclohexane	0.0745	0.0748	0.40	TMCL	2.5	
46	TM	Dibromomethane	0.1290	0.1278	0.95	TM		
47	TMC	MIBK (methyl isobutyl ketone)	0.0657	0.0613	6.7	TMC		
48	TML	1-Bromo-2-chloroethane	0.0947	0.0812	14	TML	5.0	
49	TMCL	Cis-1,3-Dichloropropene	0.1452	0.1626	12	TMCL	1.8	
50	TMC*	Toluene	0.4988	0.5336	7.0	TMC*		
51	TMC	Trans-1,3-Dichloropropene	0.0906	0.0825	9.0	TMC		
52	TMCL	1,1,2-TCA	0.1186	0.1322	11	TMCL	1.9	
53	TMCL	2-Hexanone	0.0316	0.0290	8.2	TMCL	25	*NT
54	I	Chlorobenzene-D5 (IS)	ISTD			I		
55	S	Toluene-D8(S)	1.087	1.125	3.5	S		
56	TMCL	1,2-EDB	0.1568	0.1530	2.4	TMCL	6.8	
57	TMC	Tetrachloroethene	0.1253	0.1207	3.7	TMC		
58	TML	1-Chlorohexane	0.1967	0.1315	33	TML	11	
59	TML	1,1,1,2-Tetrachloroethane	0.1800	0.1843	2.4	TML	2.0	
60	TMCL	m&p-Xylene	0.4444	0.4916	11	TMCL	7.6	
61	TMCL	o-Xylene	0.4314	0.4931	14	TMCL	7.7	
62	TMCL	Styrene	0.3268	0.3677	13	TMCL	9.4	
63	S	4-Bromofluorobenzene(S)	0.4330	0.4434	2.4	S		
64	TM	1,3-Dichloropropane	0.2148	0.2195	2.2	TM		
65	TMCL	Dibromochloromethane	0.1745	0.1865	6.9	TMCL	3.7	
66	TMC**	Chlorobenzene	0.4633	0.4675	0.91	TMC**		
67	TMC*	Ethylbenzene	0.3467	0.3677	6.0	TMC*		
68	TMC**	Bromoform	0.1282	0.1359	6.0	TMC**L	8.9	
69	I	1,4-Dichlorobenzene-D4 (IS)	ISTD			I		
70	TMCL	Isopropylbenzene	0.8012	0.9268	16	TMCL	0.11	
71	TMC**	1,1,2,2-Tetrachloroethane	0.3096	0.2660	14	TMC**L	13	
72	TML	1,2,3-Trichloropropane	0.1001	0.0950	5.2	TML	13	
73	TML	t-1,4-Dichloro-2-Butene	0.0230	0.0109	53	TML	15	
74	TM	Bromobenzene	0.3184	0.3144	1.3	TM		
75	TM	n-Propylbenzene	0.8952	1.031	15	TM		
76	TML	4-Ethyltoluene	0.7866	0.9007	15	TML	5.9	
77	TML	2-Chlorotoluene	0.6786	0.7074	4.2	TML	15	
78	TML	1,3,5-Trimethylbenzene	0.7007	0.8797	26	TML	1.0	
79	TML	4-Chlorotoluene	0.7285	0.8597	18	TML	3.4	
80	TML	Tert-Butylbenzene	0.6111	0.7323	20	TML	3.1	
		Average			10.5			

Form 7

Continuing Calibration

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

SDG No:
Date Analyzed: 11/30/2021
Instrument: Loki
Cal. Date: 11/29/2021
Data File: 1129L26.D

		Compound	MEAN	CCRF	%D		%Drift	
81	TML	1,2,4-Trimethylbenzene	0.6794	0.8181	20	TML	6.8	
82	TML	Sec-Butylbenzene	0.8602	0.9763	13	TML	6.1	
83	TML	p-Isopropyltoluene	0.7648	0.8643	13	TML	3.4	
84	TML	Benzyl Chloride	0.0878	0.0723	18	TML	9.7	
85	TMCL	1,3-DCB	0.5907	0.6818	15	TMCL	2.2	
86	TMC	1,4-DCB	0.6606	0.6768	2.5	TMC		
87	TML	n-Butylbenzene	0.6141	0.6168	0.43	TML	11	
88	TMC	1,2-DCB	0.6230	0.6208	0.35	TMC		
89	TM	Hexachloroethane	0.2151	0.2043	5.0	TM		
90	TMCL	1,2-Dibromo-3-chloropropane	0.0565	0.0585	3.5	TMCL	12	
91	TMC	1,2,4-Trichlorobenzene	0.1658	0.1443	13	TMC		
92	TM	Hexachlorobutadiene	0.1033	0.1026	0.64	TM		
93	TML	Naphthalene	0.2101	0.1520	28	TML	21	*NT
94	TML	1,2,3-Trichlorobenzene	0.1417	0.1217	14	TML	17	
95								
96								
97								
98								
99								
100								
101								
102								
103								
104								
105								
106								
107								
108								
109								
110								
111								
112								
113								
114								
115								
116								
117								
118								
119								
120								
		Average			10.5			

Data File : M:\LOKI\DATA\211129\1129L26.D Vial: 24
Acq On : 30 Nov 21 00:24 Operator:
Sample : 211129A CCV 10ug/L Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 13:21 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	6.31	96	68318	25.00	ppb		0.00
56) Chlorobenzene-D5 (IS)	9.77	117	59015	25.00	ppb		0.00
71) 1,4-Dichlorobenzene-D4 (IS	12.36	152	39777	25.00	ppb		0.00
System Monitoring Compounds							
32) Dibromofluoromethane(S)	5.45	113	19973	23.54	ppb		0.00
Spiked Amount 25.000			Recovery =	94.140%			
37) 1,2-DCA-D4(S)	5.87	65	21007	23.86	ppb		0.00
Spiked Amount 25.000			Recovery =	95.436%			
57) Toluene-D8(S)	8.18	98	66374	25.88	ppb		0.00
Spiked Amount 25.000			Recovery =	103.512%			
65) 4-Bromofluorobenzene(S)	11.07	174	26170	25.60	ppb		0.00
Spiked Amount 25.000			Recovery =	102.412%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.08	85	4268	9.90	ppb		93
3) Freon 114	1.18	85	2952	10.69	ppb		93
4) Chloromethane	1.22	50	3947	9.62	ppb		96
5) Vinyl chloride	1.31	62	3533	10.72	ppb		97
6) Bromomethane	1.56	96	3733	6.39	ppb		82
7) Chloroethane	1.66	64	2017	9.01	ppb		96
8) Dichlorofluoromethane	1.84	67	6367	9.72	ppb		98
9) Trichlorofluoromethane	1.88	101	4420	9.35	ppb		88
10) Acrolein	2.28	56	2749	98.35	ppb		98
11) Acetone	2.45	43	3933	39.48	ppb		91
12) Freon-113	2.40	101	3273	10.13	ppb		88
13) 1,1-DCE	2.37	61	4438	9.50	ppb		93
14) t-Butanol	3.15	59	969	107.33	ppb	#	76
15) Acetonitrile	2.75	41	4346	100.67	ppb		97
16) Methyl Acetate	2.83	43	1988	8.25	ppb		99
17) Iodomethane	2.52	142	1573	8.16	ppb		95
18) Acrylonitrile	3.25	53	944	9.41	ppb		94
19) Methylene chloride	2.92	84	3539	9.40	ppb		92
20) Carbon disulfide	2.57	76	5065	8.98	ppb		95
21) Methyl t-butyl ether (MtBE	3.31	73	998	10.91	ppb		100
22) Trans-1,2-DCE	3.26	61	4061	10.38	ppb		98
23) Diisopropyl Ether	4.08	45	6551	9.93	ppb		100
24) 1,1-DCA	3.87	63	5175	10.08	ppb		97
25) Vinyl Acetate	4.07	43	1353	9.10	ppb		100
27) MEK (2-Butanone)	4.85	43	4299	45.45	ppb		96
28) Cis-1,2-DCE	4.76	61	4038	9.75	ppb		96
29) 2,2-Dichloropropane	4.75	77	3662	9.46	ppb		98

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

Data File : M:\LOKI\DATA\211129\1129L26.D Vial: 24
Acq On : 30 Nov 21 00:24 Operator:
Sample : 211129A CCV 10ug/L Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 13:21 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration
DataAcq Meth : L8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
30)	Chloroform	5.24	83	6592	10.24	ppb		89
31)	Bromochloromethane	5.09	130	2789	10.05	ppb		91
33)	1,1,1-TCA	5.44	97	6200	10.47	ppb		98
34)	Cyclohexane	5.50	56	3175	9.59	ppb		90
35)	1,1-Dichloropropene	5.67	75	3584	10.12	ppb		92
36)	2,2,4-Trimethylpentane	6.08	57	2409	8.69	ppb		92
38)	Carbon Tetrachloride	5.66	119	5355	9.92	ppb		89
40)	1,2-DCA	5.97	62	4881	9.74	ppb		92
41)	Benzene	5.93	78	12504	10.70	ppb		97
42)	TCE	6.75	130	4525	10.33	ppb		95
43)	2-Pentanone	7.03	43	17380	113.63	ppb		98
44)	1,2-Dichloropropane	7.01	63	3165	10.12	ppb		96
45)	Bromodichloromethane	7.36	83	5104	10.29	ppb		98
46)	Methyl Cyclohexane	6.97	98	2045	10.25	ppb		88
47)	Dibromomethane	7.15	174	3492	9.91	ppb		94
49)	MIBK (methyl isobutyl ket	8.10	43	8370	46.63	ppb		95
50)	1-Bromo-2-chloroethane	7.69	63	2220	9.50	ppb		96
51)	Cis-1,3-Dichloropropene	7.88	75	4444	9.82	ppb		95
52)	Toluene	8.25	91	14583	10.70	ppb		99
53)	Trans-1,3-Dichloropropene	8.52	75	2254	9.10	ppb		98
54)	1,1,2-TCA	8.72	97	3613	9.81	ppb		90
55)	2-Hexanone	9.03	43	3958	37.52	ppb		97
58)	1,2-EDB	9.25	107	3612	9.32	ppb		98
59)	Tetrachloroethene	8.86	166	2850	9.63	ppb		94
60)	1-Chlorohexane	9.81	91	3105	8.92	ppb		99
61)	1,1,1,2-Tetrachloroethane	9.90	131	4351	9.80	ppb		89
62)	m&p-Xylene	10.07	91	23208	18.47	ppb		96
63)	o-Xylene	10.50	91	11640	9.23	ppb		96
64)	Styrene	10.52	104	8681	9.06	ppb		97
66)	1,3-Dichloropropane	8.90	76	5181	10.22	ppb		94
67)	Dibromochloromethane	9.14	129	4402	9.63	ppb		98
68)	Chlorobenzene	9.80	112	11036	10.09	ppb		95
69)	Ethylbenzene	9.94	91	8679	10.60	ppb		95
70)	Bromoform	10.71	173	3208	9.11	ppb		87
72)	Isopropylbenzene	10.91	105	14746	9.99	ppb		98
73)	1,1,2,2-Tetrachloroethane	11.25	83	4232	8.72	ppb		96
74)	1,2,3-Trichloropropane	11.28	110	1511	8.71	ppb	#	57
75)	t-1,4-Dichloro-2-Butene	11.30	53	173	8.54	ppb	#	15
76)	Bromobenzene	11.23	158	5002	9.87	ppb		97
77)	n-Propylbenzene	11.37	91	16407	11.52	ppb		97
78)	4-Ethyltoluene	11.50	105	14331	9.41	ppb		95
79)	2-Chlorotoluene	11.45	91	11255	8.55	ppb		98

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

Data File : M:\LOKI\DATA\211129\1129L26.D Vial: 24
Acq On : 30 Nov 21 00:24 Operator:
Sample : 211129A CCV 10ug/L Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 13:21 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration
DataAcq Meth : L8260

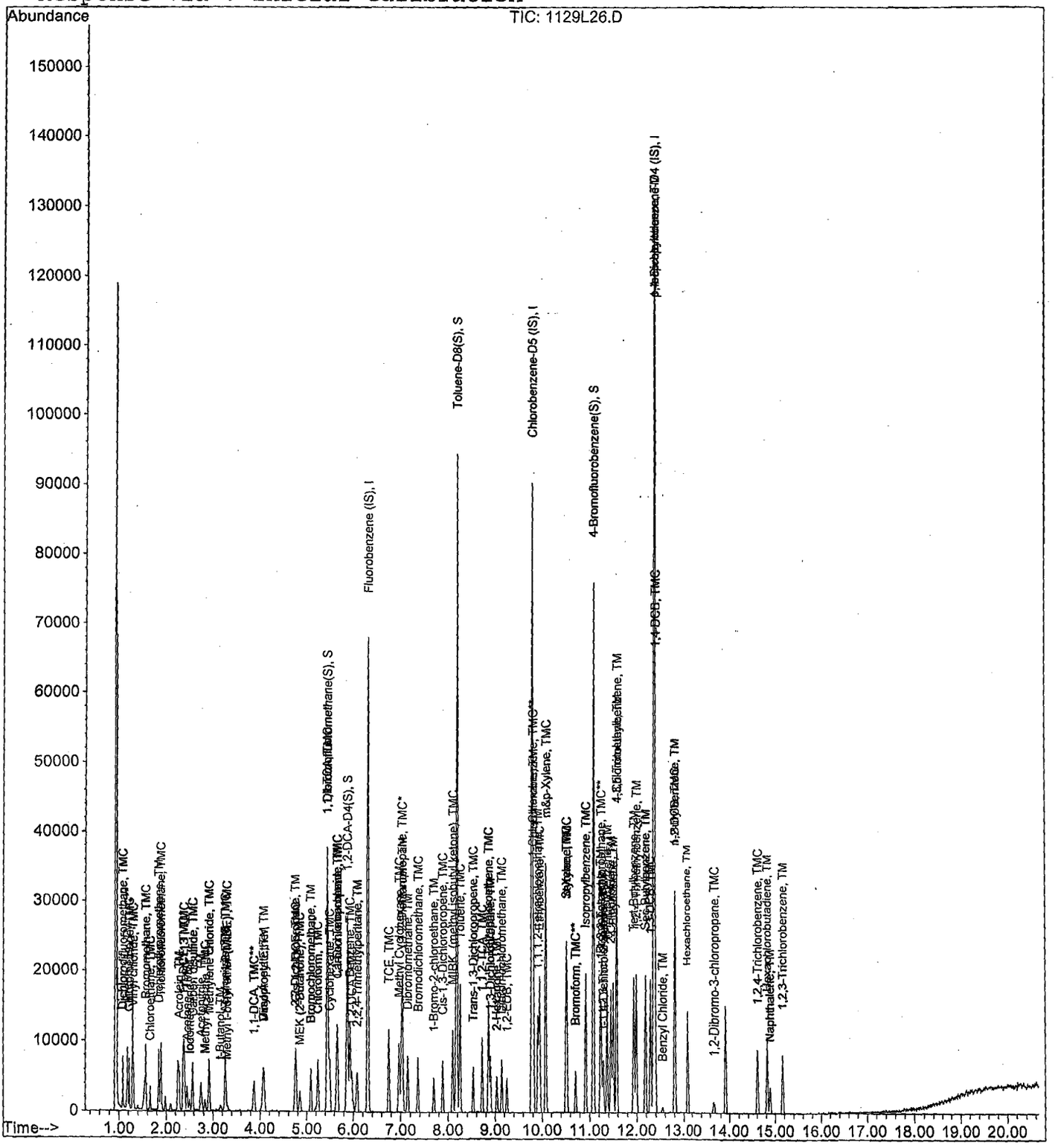
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
80)	1,3,5-Trimethylbenzene	11.57	105	13996	9.90	ppb		96
81)	4-Chlorotoluene	11.57	91	13678	9.66	ppb		95
82)	Tert-Butylbenzene	11.93	119	11651	9.69	ppb		85
83)	1,2,4-Trimethylbenzene	11.98	105	13016	9.32	ppb		86
84)	Sec-Butylbenzene	12.18	105	15533	9.39	ppb		98
85)	p-Isopropyltoluene	12.35	119	13751	9.66	ppb		94
86)	Benzyl Chloride	12.54	91	1150	9.03	ppb	#	76
87)	1,3-DCB	12.28	146	10848	10.22	ppb		94
88)	1,4-DCB	12.39	146	10769	10.25	ppb		94
89)	n-Butylbenzene	12.80	91	9813	8.94	ppb		99
90)	1,2-DCB	12.80	146	9878	9.96	ppb		91
91)	Hexachloroethane	13.08	117	3250	9.50	ppb		93
92)	1,2-Dibromo-3-chloropropan	13.68	157	930	8.84	ppb		96
93)	1,2,4-Trichlorobenzene	14.61	180	2296	8.70	ppb		99
94)	Hexachlorobutadiene	14.82	225	1633	9.94	ppb		95
95)	Naphthalene	14.89	128	2419	7.90	ppb		99
96)	1,2,3-Trichlorobenzene	15.16	182	1937	8.34	ppb		96

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

Data File : M:\LOKI\DATA\211129\1129L26.D Vial: 24
Acq On : 30 Nov 21 00:24 Operator:
Sample : 211129A CCV 10ug/L Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 13:21 2021 Quant Results File: L1129W.RES

Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

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

SDG No:
Date Analyzed: 11/30/2021
Instrument: Loki
Initial Cal. Date: 11/29/2021
Data File: 1129L45.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	TMCL	Dichlorodifluoromethane	0.2334	0.1615	31	TMCL	2.6
3	TM	Freon 114	0.1011	0.1009	0.13	TM	
4	TMC**	Chloromethane	0.1894	0.1451	23	TMC**L	3.3
5	TMC*L	Vinyl chloride	0.1130	0.1236	9.4	TMC*L	2.5
6	TMCL	Bromomethane	0.1642	0.1344	18	TMCL	37
7	TMC	Chloroethane	0.0819	0.0789	3.7	TMC	
8	TM	Dichlorofluoromethane	0.2396	0.2354	1.8	TM	
9	TMC	Trichlorofluoromethane	0.1730	0.1545	11	TMC	
10	TM	Acrolein	0.0102	0.0076	26	TM	
11	TMC	Acetone	0.0365	0.0314	14	TMC	
12	TMC	Freon-113	0.1182	0.1226	3.7	TMC	
13	TMC*	1,1-DCE	0.1710	0.1669	2.4	TMC*	
14	TMQ	t-Butanol	0.0031	0.0041	33	TMQ	0.73
15	TM	Acetonitrile	0.0158	0.0140	12	TM	
16	TMC	Methyl Acetate	0.0882	0.0827	6.3	TMC	
17	TML	Iodomethane	0.0811	0.0643	21	TML	13
18	TM	Acrylonitrile	0.0367	0.0352	4.0	TM	
19	TMCL	Methylene chloride	0.1315	0.1516	15	TMCL	11
20	TMC	Carbon disulfide	0.2065	0.1898	8.1	TMC	
21	TMCL	Methyl t-butyl ether (MtBE)	0.0407	0.0591	45	TMCL	50
22	TMCL	Trans-1,2-DCE	0.1351	0.1542	14	TMCL	7.7
23	TML	Diisopropyl Ether	0.2153	0.2501	16	TML	3.1
24	TMC**	1,1-DCA	0.1658	0.2042	23	TMC**L	8.9
25	TML	Vinyl Acetate	0.0627	0.0530	16	TML	2.7
26	TMC	MEK (2-Butanone)	0.0346	0.0337	2.6	TMC	
27	TMCL	Cis-1,2-DCE	0.1388	0.1492	7.5	TMCL	1.6
28	TM	2,2-Dichloropropane	0.1416	0.1179	17	TM	
29	TMC*L	Chloroform	0.2093	0.2535	21	TMC*L	7.8
30	TM	Bromochloromethane	0.1016	0.1082	6.5	TM	
31	S	Dibromofluoromethane(S)	0.3105	0.2965	4.5	S	
32	TMCL	1,1,1-TCA	0.1986	0.2237	13	TMCL	3.2
33	TMCL	Cyclohexane	0.0988	0.1289	30	TMCL	4.4
34	TML	1,1-Dichloropropene	0.1204	0.1368	14	TML	5.1
35	TM	2,2,4-Trimethylpentane	0.1014	0.0845	17	TM	
36	S	1,2-DCA-D4(S)	0.3222	0.3076	4.5	S	
37	TMCL	Carbon Tetrachloride	0.1841	0.2072	13	TMCL	4.9
38	TML	Tert Amyl Methyl Ether	0.0000	0.0319	0.00	TML	
39	TMCL	1,2-DCA	0.1711	0.2035	19	TMCL	12
40	TMC	Benzene	0.4277	0.4768	11	TMC	
		Average			13.8		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

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

SDG No:
Date Analyzed: 11/30/2021
Instrument: Loki
Cal. Date: 11/29/2021
Data File: 1129L45.D

		Compound	MEAN	CCRF	%D		%Drift
41	TMCL	TCE	0.1485	0.1799	21	TMCL	12
42	TM	2-Pentanone	0.0560	0.0555	0.93	TM	
43	TMC*L	1,2-Dichloropropane	0.1057	0.1210	15	TMC*L	5.5
44	TMC	Bromodichloromethane	0.1815	0.1969	8.5	TMC	
45	TMCL	Methyl Cyclohexane	0.0745	0.0787	5.6	TMCL	6.5
46	TM	Dibromomethane	0.1290	0.1415	9.7	TM	
47	TMC	MIBK (methyl isobutyl ketone)	0.0657	0.0698	6.3	TMC	
48	TML	1-Bromo-2-chloroethane	0.0947	0.0880	7.1	TML	2.8
49	TMCL	Cis-1,3-Dichloropropene	0.1452	0.1527	5.1	TMCL	7.0
50	TMC*	Toluene	0.4988	0.5431	8.9	TMC*	
51	TMC	Trans-1,3-Dichloropropene	0.0906	0.0842	7.1	TMC	
52	TMCL	1,1,2-TCA	0.1186	0.1317	11	TMCL	2.3
53	TMCL	2-Hexanone	0.0316	0.0328	4.0	TMCL	17
54	I	Chlorobenzene-D5 (IS)	ISTD			I	
55	S	Toluene-D8(S)	1.087	1.152	6.0	S	
56	TMCL	1,2-EDB	0.1568	0.1738	11	TMCL	5.7
57	TMC	Tetrachloroethene	0.1253	0.1275	1.8	TMC	
58	TML	1-Chlorohexane	0.1967	0.1350	31	TML	8.7
59	TML	1,1,1,2-Tetrachloroethane	0.1800	0.1944	8.0	TML	3.2
60	TMCL	m&p-Xylene	0.4444	0.5027	13	TMCL	5.8
61	TMCL	o-Xylene	0.4314	0.5299	23	TMCL	1.8
62	TMCL	Styrene	0.3268	0.3790	16	TMCL	7.2
63	S	4-Bromofluorobenzene(S)	0.4330	0.4647	7.3	S	
64	TM	1,3-Dichloropropane	0.2148	0.2404	12	TM	
65	TMCL	Dibromochloromethane	0.1745	0.1958	12	TMCL	0.85
66	TMC**	Chlorobenzene	0.4633	0.4962	7.1	TMC**	
67	TMC*	Ethylbenzene	0.3467	0.3702	6.8	TMC*	
68	TMC**	Bromoform	0.1282	0.1372	7.0	TMC**L	8.1
69	I	1,4-Dichlorobenzene-D4 (IS)	ISTD			I	
70	TMCL	Isopropylbenzene	0.8012	0.9070	13	TMCL	2.0
71	TMC**	1,1,2,2-Tetrachloroethane	0.3096	0.2659	14	TMC**L	13
72	TML	1,2,3-Trichloropropane	0.1001	0.1178	18	TML	8.3
73	TML	t-1,4-Dichloro-2-Butene	0.0230	0.0160	30	TML	0.38
74	TM	Bromobenzene	0.3184	0.3268	2.6	TM	
75	TM	n-Propylbenzene	0.8952	1.040	16	TM	
76	TML	4-Ethyltoluene	0.7866	0.9387	19	TML	2.4
77	TML	2-Chlorotoluene	0.6786	0.8832	30	TML	8.4
78	TML	1,3,5-Trimethylbenzene	0.7007	0.8588	23	TML	3.2
79	TML	4-Chlorotoluene	0.7285	0.9155	26	TML	2.7
80	TML	Tert-Butylbenzene	0.6111	0.7560	24	TML	0.32
		Average			12.8		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

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

SDG No:
Date Analyzed: 11/30/2021
Instrument: Loki
Cal. Date: 11/29/2021
Data File: 1129L45.D

		Compound	MEAN	CCRF	%D		%Drift	
81	TML	1,2,4-Trimethylbenzene	0.6794	0.8406	24	TML	4.6	
82	TML	Sec-Butylbenzene	0.8602	1.020	19	TML	2.5	
83	TML	p-Isopropyltoluene	0.7648	0.8578	12	TML	4.0	
84	TML	Benzyl Chloride	0.0878	0.0700	20	TML	11	
85	TMCL	1,3-DCB	0.5907	0.6624	12	TMCL	0.67	
86	TMC	1,4-DCB	0.6606	0.6981	5.7	TMC		
87	TML	n-Butylbenzene	0.6141	0.6622	7.8	TML	5.3	
88	TMC	1,2-DCB	0.6230	0.6651	6.7	TMC		
89	TM	Hexachloroethane	0.2151	0.1959	8.9	TM		
90	TMCL	1,2-Dibromo-3-chloropropane	0.0565	0.0605	7.2	TMCL	8.6	
91	TMC	1,2,4-Trichlorobenzene	0.1658	0.1662	0.20	TMC		
92	TM	Hexachlorobutadiene	0.1033	0.1009	2.3	TM		
93	TML	Naphthalene	0.2101	0.6731	220	TML	122	*NT
94	TML	1,2,3-Trichlorobenzene	0.1417	0.1565	10	TML	3.6	
95								
96								
97								
98								
99								
100								
101								
102								
103								
104								
105								
106								
107								
108								
109								
110								
111								
112								
113								
114								
115								
116								
117								
118								
119								
120								
		Average			25.4			

Data File : M:\LOKI\DATA\211129\1129L45.D Vial: 43
Acq On : 30 Nov 21 9:09 Operator:
Sample : Ending CCV 10ug/L 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 13:22 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	6.31	96	67272	25.00	ppb		0.00
56) Chlorobenzene-D5 (IS)	9.78	117	58246	25.00	ppb		0.00
71) 1,4-Dichlorobenzene-D4 (IS	12.36	152	39767	25.00	ppb		0.00
System Monitoring Compounds							
32) Dibromofluoromethane(S)	5.46	113	19944	23.87	ppb		0.00
Spiked Amount 25.000			Recovery =	95.468%			
37) 1,2-DCA-D4(S)	5.87	65	20693	23.87	ppb		0.00
Spiked Amount 25.000			Recovery =	95.472%			
57) Toluene-D8(S)	8.18	98	67110	26.51	ppb		0.00
Spiked Amount 25.000			Recovery =	106.040%			
65) 4-Bromofluorobenzene(S)	11.07	174	27069	26.83	ppb		0.00
Spiked Amount 25.000			Recovery =	107.328%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.08	85	4346	10.26	ppb		90
3) Freon 114	1.18	85	2716	9.99	ppb		91
4) Chloromethane	1.22	50	3904	9.67	ppb		96
5) Vinyl chloride	1.31	62	3326	10.25	ppb		92
6) Bromomethane	1.56	96	3616	6.30	ppb		89
7) Chloroethane	1.66	64	2123	9.63	ppb		97
8) Dichlorofluoromethane	1.84	67	6333	9.82	ppb		89
9) Trichlorofluoromethane	1.88	101	4158	8.93	ppb		95
10) Acrolein	2.29	56	2542	92.36	ppb		89
11) Acetone	2.45	43	4229	43.11	ppb		87
12) Freon-113	2.40	101	3298	10.37	ppb		89
13) 1,1-DCE	2.37	61	4492	9.76	ppb	#	88
14) t-Butanol	3.16	59	1365	125.91	ppb		93
15) Acetonitrile	2.75	41	4693	110.40	ppb		98
16) Methyl Acetate	2.84	43	2225	9.37	ppb		100
17) Iodomethane	2.52	142	1730	8.73	ppb		95
18) Acrylonitrile	3.25	53	948	9.60	ppb		98
19) Methylene chloride	2.92	84	4079	11.08	ppb		98
20) Carbon disulfide	2.57	76	5107	9.19	ppb	#	94
21) Methyl t-butyl ether (MtBE	3.31	73	1591	14.99	ppb	#	100
22) Trans-1,2-DCE	3.27	61	4148	10.77	ppb		98
23) Diisopropyl Ether	4.08	45	6731	10.31	ppb		95
24) 1,1-DCA	3.87	63	5495	10.89	ppb		94
25) Vinyl Acetate	4.07	43	1425	9.73	ppb		100
27) MEK (2-Butanone)	4.85	43	4537	48.71	ppb		98
28) Cis-1,2-DCE	4.77	61	4016	9.84	ppb		97
29) 2,2-Dichloropropane	4.75	77	3173	8.33	ppb	#	34

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

Data File : M:\LOKI\DATA\211129\1129L45.D Vial: 43
Acq On : 30 Nov 21 9:09 Operator:
Sample : Ending CCV 10ug/L 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 13:22 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration
DataAcq Meth : L8260

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30)	Chloroform	5.24	83	6822	10.78	ppb	95
31)	Bromochloromethane	5.09	130	2912	10.65	ppb	88
33)	1,1,1-TCA	5.44	97	6020	10.32	ppb	98
34)	Cyclohexane	5.51	56	3468	10.44	ppb	84
35)	1,1-Dichloropropene	5.67	75	3682	10.51	ppb	95
36)	2,2,4-Trimethylpentane	6.07	57	2273	8.33	ppb	94
38)	Carbon Tetrachloride	5.66	119	5576	10.49	ppb	97
40)	1,2-DCA	5.97	62	5475	11.16	ppb	98
41)	Benzene	5.93	78	12829	11.15	ppb	99
42)	TCE	6.75	130	4840	11.21	ppb	93
43)	2-Pentanone	7.03	43	18652	123.84	ppb	98
44)	1,2-Dichloropropane	7.02	63	3257	10.55	ppb	89
45)	Bromodichloromethane	7.36	83	5298	10.85	ppb	98
46)	Methyl Cyclohexane	6.97	98	2118	10.65	ppb	80
47)	Dibromomethane	7.15	174	3807	10.97	ppb	94
49)	MIBK (methyl isobutyl ket	8.10	43	9392	53.14	ppb	97
50)	1-Bromo-2-chloroethane	7.70	63	2367	10.28	ppb	99
51)	Cis-1,3-Dichloropropene	7.89	75	4108	9.30	ppb	97
52)	Toluene	8.25	91	14613	10.89	ppb	94
53)	Trans-1,3-Dichloropropene	8.52	75	2265	9.29	ppb	95
54)	1,1,2-TCA	8.72	97	3545	9.77	ppb	90
55)	2-Hexanone	9.03	43	4417	41.61	ppb	96
58)	1,2-EDB	9.25	107	4049	10.57	ppb	92
59)	Tetrachloroethene	8.86	166	2971	10.18	ppb	95
60)	1-Chlorohexane	9.81	91	3145	9.13	ppb	86
61)	1,1,1,2-Tetrachloroethane	9.91	131	4530	10.32	ppb	79
62)	m&p-Xylene	10.07	91	23422	18.84	ppb	99
63)	o-Xylene	10.50	91	12345	9.82	ppb	100
64)	Styrene	10.52	104	8830	9.28	ppb	97
66)	1,3-Dichloropropane	8.90	76	5601	11.19	ppb	93
67)	Dibromochloromethane	9.14	129	4561	10.08	ppb	95
68)	Chlorobenzene	9.81	112	11561	10.71	ppb	94
69)	Ethylbenzene	9.94	91	8626	10.68	ppb	98
70)	Bromoform	10.70	173	3196	9.19	ppb	95
72)	Isopropylbenzene	10.91	105	14427	9.80	ppb	97
73)	1,1,2,2-Tetrachloroethane	11.24	83	4229	8.72	ppb	99
74)	1,2,3-Trichloropropane	11.28	110	1874	10.83	ppb	86
75)	t-1,4-Dichloro-2-Butene	11.31	53	255	9.96	ppb	91
76)	Bromobenzene	11.23	158	5198	10.26	ppb	86
77)	n-Propylbenzene	11.36	91	16547	11.62	ppb	98
78)	4-Ethyltoluene	11.50	105	14931	9.76	ppb	91
79)	2-Chlorotoluene	11.45	91	14049	10.84	ppb	94

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

Data File : M:\LOKI\DATA\211129\1129L45.D Vial: 43
Acq On : 30 Nov 21 9:09 Operator:
Sample : Ending CCV 10ug/L 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 13:22 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration
DataAcq Meth : L8260

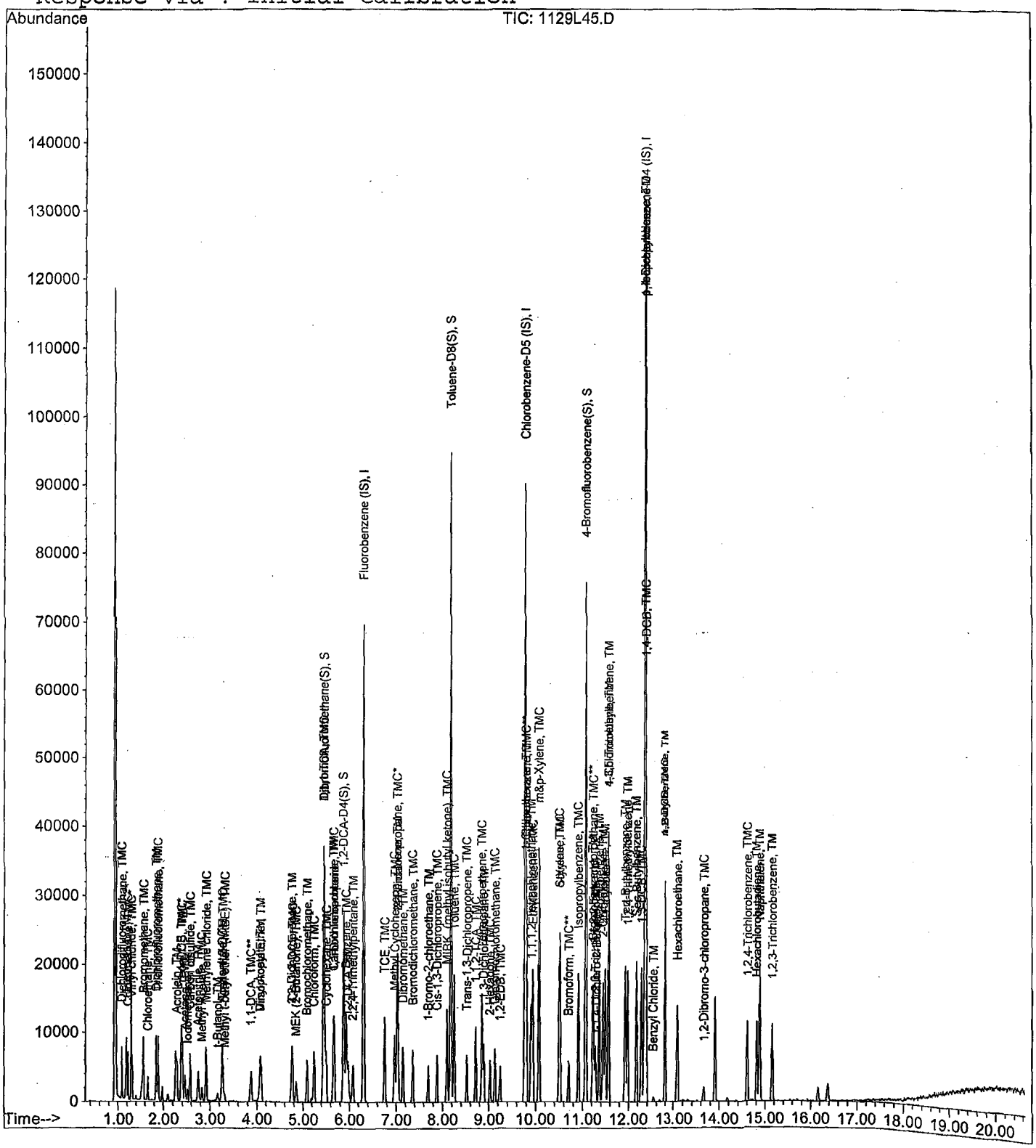
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
80)	1,3,5-Trimethylbenzene	11.57	105	13660	9.68	ppb		90
81)	4-Chlorotoluene	11.57	91	14563	10.27	ppb		99
82)	Tert-Butylbenzene	11.93	119	12026	9.97	ppb		92
83)	1,2,4-Trimethylbenzene	11.98	105	13372	9.54	ppb		100
84)	Sec-Butylbenzene	12.18	105	16219	9.75	ppb		98
85)	p-Isopropyltoluene	12.35	119	13645	9.60	ppb		88
86)	Benzyl Chloride	12.54	91	1114	8.86	ppb		91
87)	1,3-DCB	12.28	146	10536	9.93	ppb		98
88)	1,4-DCB	12.39	146	11105	10.57	ppb		97
89)	n-Butylbenzene	12.81	91	10533	9.47	ppb		99
90)	1,2-DCB	12.80	146	10579	10.67	ppb		98
91)	Hexachloroethane	13.09	117	3116	9.11	ppb		99
92)	1,2-Dibromo-3-chloropropan	13.68	157	963	9.14	ppb	#	84
93)	1,2,4-Trichlorobenzene	14.61	180	2643	10.02	ppb		98
94)	Hexachlorobutadiene	14.82	225	1605	9.77	ppb		97
95)	Naphthalene	14.88	128	10707	22.16	ppb		95
96)	1,2,3-Trichlorobenzene	15.16	182	2489	10.36	ppb		100

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

Data File : M:\LOKI\DATA\211129\1129L45.D Vial: 43
Acq On : 30 Nov 21 9:09 Operator:
Sample : Ending CCV 10ug/L 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 13:22 2021 Quant Results File: L1129W.RES

Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration



1129L45.D L1129W.M Wed Dec 01 15:28:50 2021 Page 4

ORGANICS
Raw Data

Quantitation Report (QT Reviewed)

Data File : M:\LOKI\DATA\211129\1129L35.D Vial: 33
Acq On : 30 Nov 21 4:33 Operator:
Sample : BA46713W01 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 15:32 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.31	96	58630	25.00	ppb	0.00
56) Chlorobenzene-D5 (IS)	9.78	117	51881	25.00	ppb	0.00
71) 1,4-Dichlorobenzene-D4 (IS	12.36	152	29651	25.00	ppb	0.00
System Monitoring Compounds						
32) Dibromofluoromethane(S)	5.46	113	18111	24.87	ppb	0.00
Spiked Amount 25.000			Recovery = 99.472%			
37) 1,2-DCA-D4(S)	5.87	65	19062	25.23	ppb	0.00
Spiked Amount 25.000			Recovery = 100.912%			
57) Toluene-D8(S)	8.18	98	53706	23.82	ppb	0.00
Spiked Amount 25.000			Recovery = 95.272%			
65) 4-Bromofluorobenzene(S)	11.07	174	19645	21.86	ppb	0.00
Spiked Amount 25.000			Recovery = 87.448%			

Target Compounds Qvalue

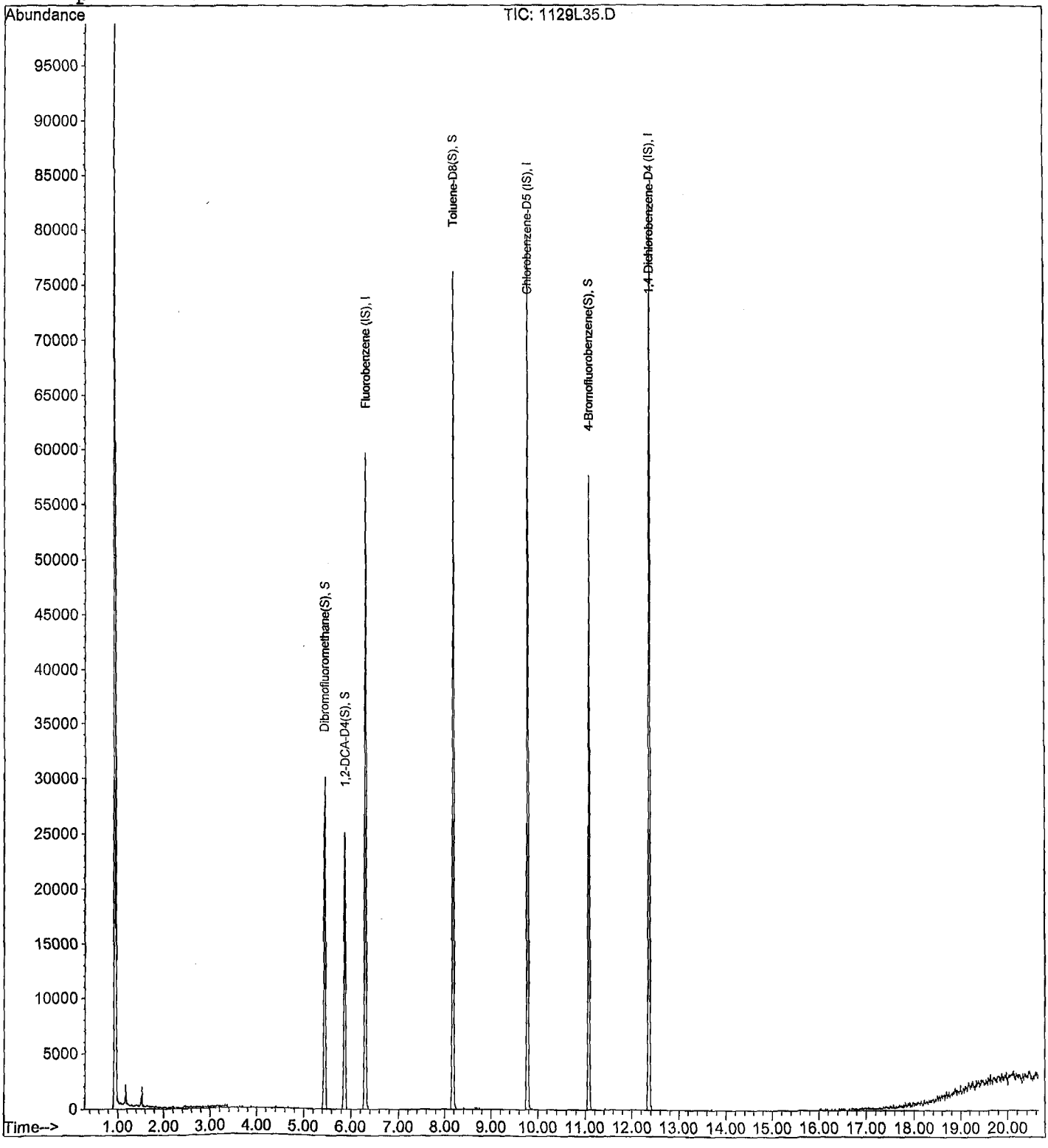
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LOKI\DATA\211129\1129L35.D Vial: 33
Acq On : 30 Nov 21 4:33 Operator:
Sample : BA46713W01 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 15:32 2021 Quant Results File: L1129W.RES

Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LOKI\DATA\211129\1129L36.D Vial: 34
Acq On : 30 Nov 21 5:00 Operator:
Sample : BA46714W01 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 5.00

Quant Time: Dec 4 5:51 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	58913	25.000	ppb	0.00
56) Chlorobenzene-D5 (IS)	9.78	117	52215	25.000	ppb	0.00
71) 1,4-Dichlorobenzene-D4 (IS	12.36	152	29863	25.000	ppb	0.00
System Monitoring Compounds						
32) Dibromofluoromethane(S)	5.45	113	18202	24.873	ppb	0.00
Spiked Amount 25.000			Recovery =	99.492%		
37) 1,2-DCA-D4(S)	5.87	65	19396	25.546	ppb	0.00
Spiked Amount 25.000			Recovery =	102.184%		
57) Toluene-D8(S)	8.18	98	54881	24.183	ppb	0.00
Spiked Amount 25.000			Recovery =	96.732%		
65) 4-Bromofluorobenzene(S)	11.07	174	20371	22.525	ppb	0.00
Spiked Amount 25.000			Recovery =	90.100%		

Target Compounds Qvalue

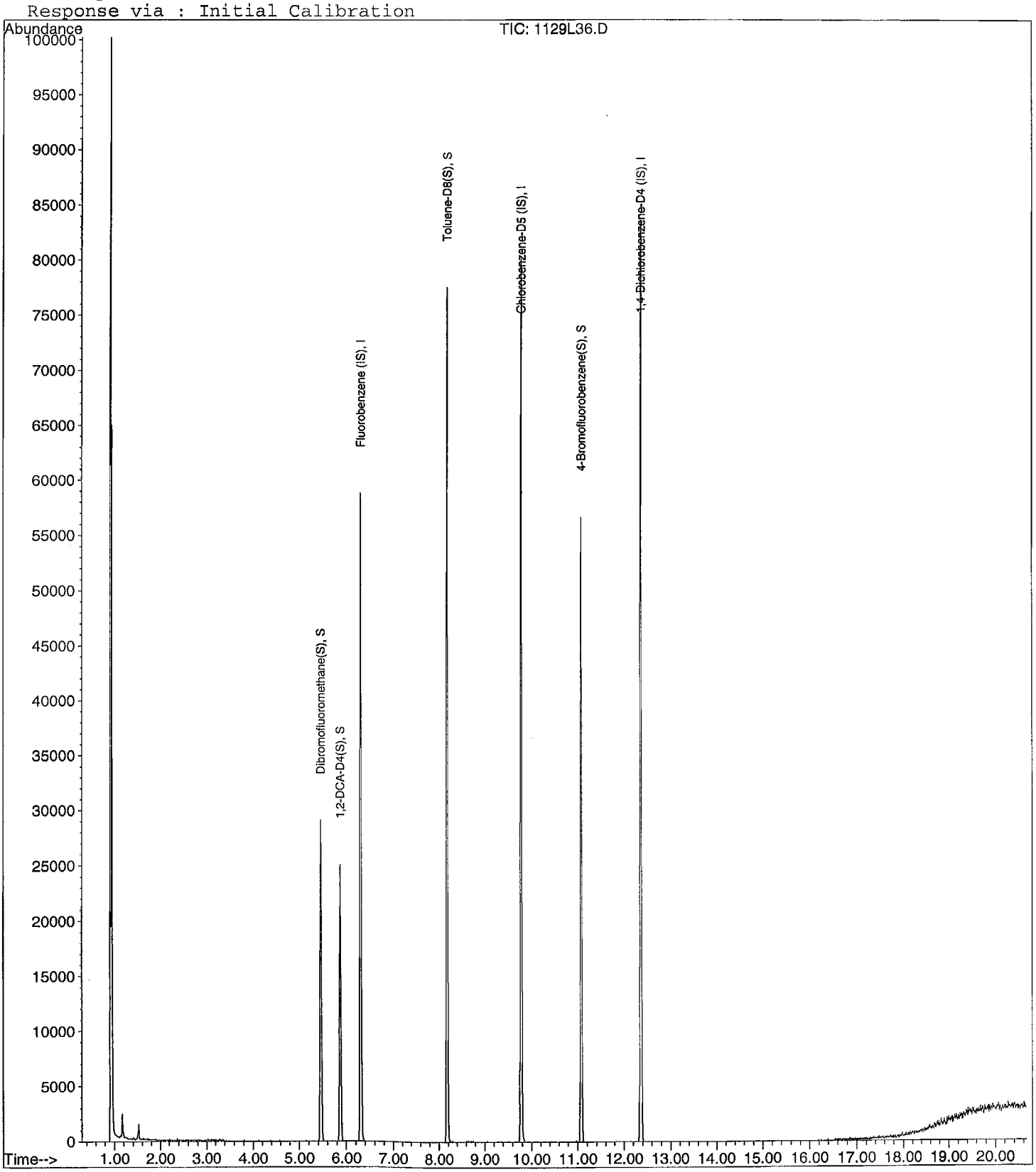
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LOKI\DATA\211129\1129L36.D Vial: 34
Acq On : 30 Nov 21 5:00 Operator:
Sample : BA46714W01 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 5.00

Quant Time: Dec 4 5:51 2021 Quant Results File: L1129W.RES

Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration



Data File : M:\LOKI\DATA\211129\1129L31.D Vial: 29
Acq On : 30 Nov 21 2:42 Operator:
Sample : 211129A BLK Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 15:27 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	62893	25.00	ppb	0.00
56) Chlorobenzene-D5 (IS)	9.78	117	54621	25.00	ppb	0.00
71) 1,4-Dichlorobenzene-D4 (IS	12.36	152	33012	25.00	ppb	0.00
System Monitoring Compounds						
32) Dibromofluoromethane(S)	5.45	113	19514	24.98	ppb	0.00
Spiked Amount 25.000			Recovery = 99.912%			
37) 1,2-DCA-D4(S)	5.87	65	19619	24.20	ppb	0.00
Spiked Amount 25.000			Recovery = 96.820%			
57) Toluene-D8(S)	8.18	98	57369	24.17	ppb	0.00
Spiked Amount 25.000			Recovery = 96.664%			
65) 4-Bromofluorobenzene(S)	11.07	174	21530	22.76	ppb	0.00
Spiked Amount 25.000			Recovery = 91.032%			

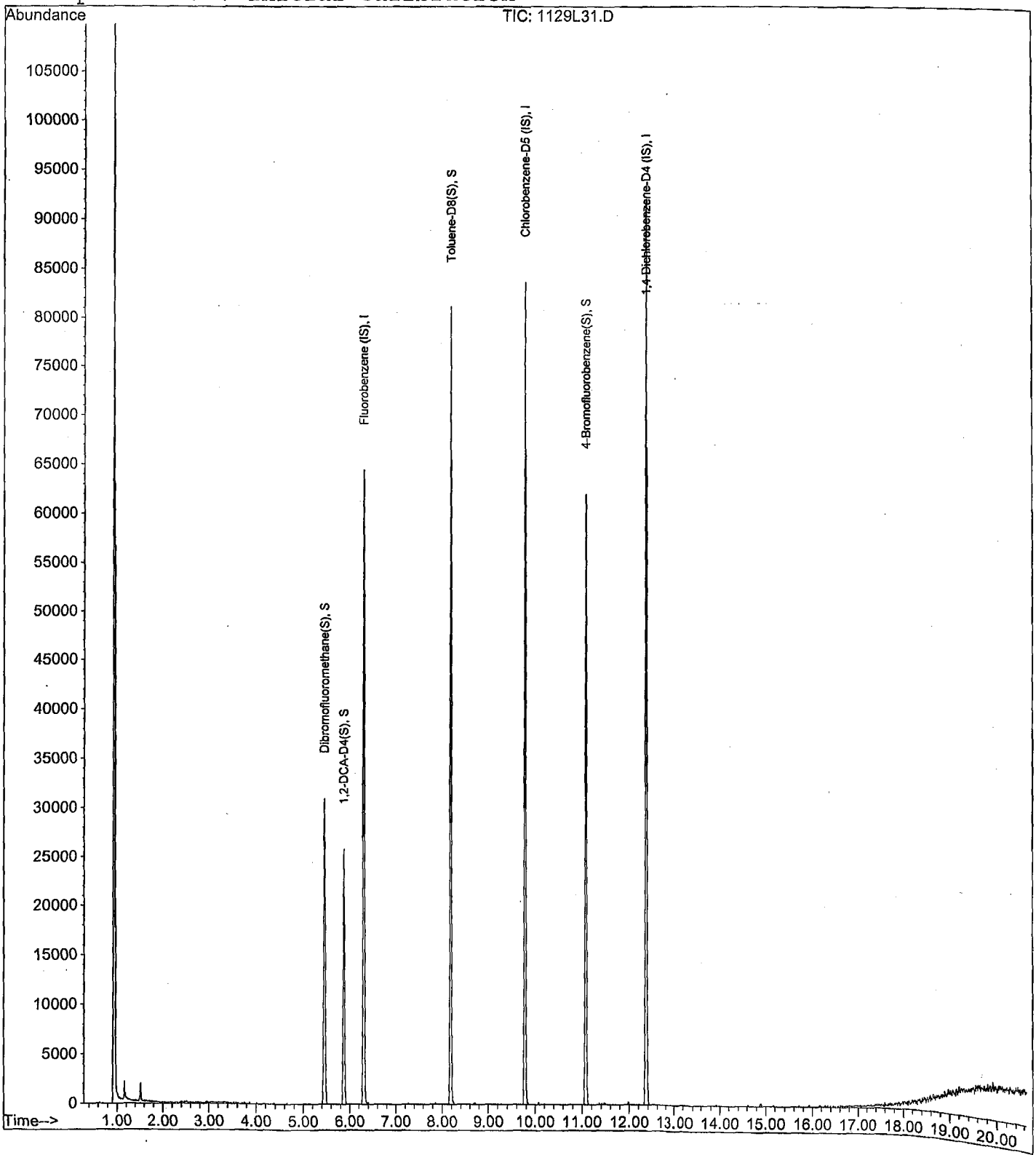
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
1129L31.D L1129W.M Wed Dec 01 15:27:39 2021 Page 1

Data File : M:\LOKI\DATA\211129\1129L31.D Vial: 29
Acq On : 30 Nov 21 2:42 Operator:
Sample : 211129A BLK Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 15:27 2021 Quant Results File: L1129W.RES

Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration



Data File : M:\LOKI\DATA\211129\1129L27.D Vial: 25
Acq On : 30 Nov 21 00:52 Operator:
Sample : 211129A LCS 10ug/L Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 13:21 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	6.30	96	67505	25.00	ppb		0.00
56) Chlorobenzene-D5 (IS)	9.78	117	57729	25.00	ppb		0.00
71) 1,4-Dichlorobenzene-D4 (IS	12.36	152	40104	25.00	ppb		0.00
System Monitoring Compounds							
32) Dibromofluoromethane(S)	5.45	113	19689	23.48	ppb		0.00
Spiked Amount 25.000			Recovery = 93.920%				
37) 1,2-DCA-D4(S)	5.87	65	20494	23.56	ppb		0.00
Spiked Amount 25.000			Recovery = 94.228%				
57) Toluene-D8(S)	8.18	98	66909	26.67	ppb		0.00
Spiked Amount 25.000			Recovery = 106.668%				
65) 4-Bromofluorobenzene(S)	11.07	174	25688	25.69	ppb		0.00
Spiked Amount 25.000			Recovery = 102.764%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.08	85	4404	10.36	ppb		96
3) Freon 114	1.18	85	2793	10.24	ppb		100
4) Chloromethane	1.22	50	3785	9.33	ppb		98
5) Vinyl chloride	1.31	62	3510	10.77	ppb		97
6) Bromomethane	1.56	96	3979	6.86	ppb		84
7) Chloroethane	1.66	64	2159	9.76	ppb		92
8) Dichlorofluoromethane	1.84	67	6337	9.79	ppb		97
9) Trichlorofluoromethane	1.88	101	4201	8.99	ppb		96
10) Acrolein	2.28	56	2809	101.71	ppb		93
11) Acetone	2.45	43	4017	40.81	ppb		88
12) Freon-113	2.39	101	3293	10.32	ppb		93
13) 1,1-DCE	2.37	61	4530	9.81	ppb		94
14) t-Butanol	3.16	59	1037	111.19	ppb		93
15) Acetonitrile	2.75	41	4223	99.00	ppb		92
16) Methyl Acetate	2.83	43	2278	9.56	ppb		97
17) Iodomethane	2.51	142	1839	9.06	ppb		89
18) Acrylonitrile	3.25	53	1011	10.20	ppb	#	86
19) Methylene chloride	2.92	84	3858	10.42	ppb		94
20) Carbon disulfide	2.57	76	5138	9.21	ppb		96
21) Methyl t-butyl ether (MtBE	3.30	73	1334	13.23	ppb	#	100
22) Trans-1,2-DCE	3.26	61	4126	10.68	ppb		91
23) Diisopropyl Ether	4.07	45	6480	9.94	ppb		97
24) 1,1-DCA	3.87	63	5336	10.53	ppb		99
25) Vinyl Acetate	4.07	43	1559	10.60	ppb		100
27) MEK (2-Butanone)	4.85	43	4418	47.27	ppb		91
28) Cis-1,2-DCE	4.76	61	4058	9.91	ppb		97
29) 2,2-Dichloropropane	4.75	77	3500	9.15	ppb		96

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

Data File : M:\LOKI\DATA\211129\1129L27.D Vial: 25
Acq On : 30 Nov 21 00:52 Operator:
Sample : 211129A LCS 10ug/L Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 13:21 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration
DataAcq Meth : L8260

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30)	Chloroform	5.24	83	6521	10.25	ppb	96
31)	Bromochloromethane	5.09	130	2894	10.55	ppb	88
33)	1,1,1-TCA	5.44	97	6172	10.55	ppb	92
34)	Cyclohexane	5.50	56	3183	9.70	ppb	95
35)	1,1-Dichloropropene	5.67	75	3372	9.70	ppb	98
36)	2,2,4-Trimethylpentane	6.08	57	2543	9.29	ppb	96
38)	Carbon Tetrachloride	5.66	119	5262	9.87	ppb	91
40)	1,2-DCA	5.97	62	5012	10.14	ppb	99
41)	Benzene	5.93	78	12447	10.78	ppb	93
42)	TCE	6.75	130	4490	10.37	ppb	90
43)	2-Pentanone	7.03	43	18200	120.42	ppb	98
44)	1,2-Dichloropropane	7.02	63	3234	10.45	ppb	91
45)	Bromodichloromethane	7.36	83	5358	10.93	ppb	99
46)	Methyl Cyclohexane	6.96	98	2278	11.23	ppb	89
47)	Dibromomethane	7.15	174	3717	10.67	ppb	98
49)	MIBK (methyl isobutyl ket	8.10	43	8773	49.46	ppb	98
50)	1-Bromo-2-chloroethane	7.70	63	2207	9.56	ppb	97
51)	Cis-1,3-Dichloropropene	7.88	75	4384	9.81	ppb	94
52)	Toluene	8.25	91	14757	10.96	ppb	98
53)	Trans-1,3-Dichloropropene	8.52	75	2293	9.37	ppb	98
54)	1,1,2-TCA	8.72	97	3604	9.90	ppb	98
55)	2-Hexanone	9.04	43	4442	41.69	ppb	88
58)	1,2-EDB	9.25	107	3762	9.91	ppb	91
59)	Tetrachloroethene	8.86	166	2997	10.36	ppb	92
60)	1-Chlorohexane	9.81	91	3299	9.59	ppb	95
61)	1,1,1,2-Tetrachloroethane	9.90	131	4380	10.08	ppb	87
62)	m&p-Xylene	10.07	91	24027	19.42	ppb	99
63)	o-Xylene	10.50	91	12027	9.67	ppb	93
64)	Styrene	10.52	104	8921	9.43	ppb	93
66)	1,3-Dichloropropane	8.89	76	5194	10.47	ppb	97
67)	Dibromochloromethane	9.14	129	4365	9.75	ppb	94
68)	Chlorobenzene	9.80	112	11367	10.63	ppb	94
69)	Ethylbenzene	9.94	91	8424	10.52	ppb	97
70)	Bromoform	10.71	173	3213	9.31	ppb	88
72)	Isopropylbenzene	10.92	105	14297	9.65	ppb	98
73)	1,1,2,2-Tetrachloroethane	11.25	83	4316	8.83	ppb	94
74)	1,2,3-Trichloropropane	11.29	110	1642	9.40	ppb	86
75)	t-1,4-Dichloro-2-Butene	11.31	53	310	10.87	ppb	81
76)	Bromobenzene	11.23	158	5482	10.73	ppb	91
77)	n-Propylbenzene	11.37	91	16774	11.68	ppb	99
78)	4-Ethyltoluene	11.50	105	14561	9.48	ppb	98
79)	2-Chlorotoluene	11.45	91	12054	9.12	ppb	95

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

Data File : M:\LOKI\DATA\211129\1129L27.D Vial: 25
Acq On : 30 Nov 21 00:52 Operator:
Sample : 211129A LCS 10ug/L Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 13:21 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration
DataAcq Meth : L8260

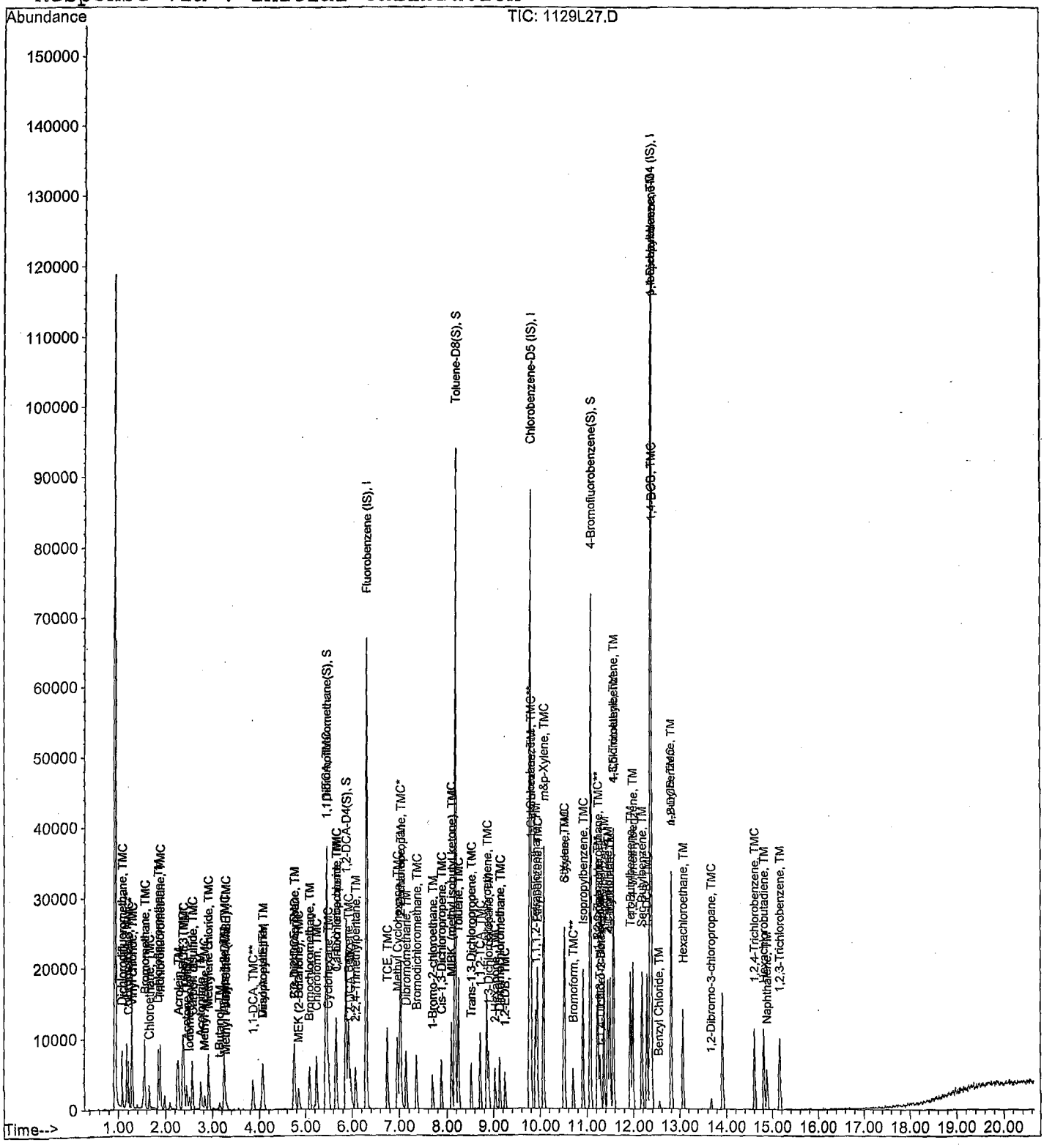
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
80)	1,3,5-Trimethylbenzene	11.57	105	14582	10.20	ppb		84
81)	4-Chlorotoluene	11.57	91	14306	10.01	ppb		96
82)	Tert-Butylbenzene	11.93	119	12164	9.99	ppb		97
83)	1,2,4-Trimethylbenzene	11.98	105	13608	9.62	ppb		97
84)	Sec-Butylbenzene	12.18	105	15957	9.54	ppb		100
85)	p-Isopropyltoluene	12.35	119	14455	10.01	ppb		95
86)	Benzyl Chloride	12.54	91	1463	10.42	ppb	#	80
87)	1,3-DCB	12.28	146	11226	10.48	ppb		97
88)	1,4-DCB	12.38	146	11339	10.70	ppb		92
89)	n-Butylbenzene	12.81	91	11157	9.87	ppb		99
90)	1,2-DCB	12.80	146	10851	10.86	ppb		95
91)	Hexachloroethane	13.08	117	3008	8.72	ppb		96
92)	1,2-Dibromo-3-chloropropan	13.68	157	878	8.29	ppb	#	75
93)	1,2,4-Trichlorobenzene	14.61	180	2832	10.65	ppb		89
94)	Hexachlorobutadiene	14.82	225	1577	9.52	ppb		98
95)	Naphthalene	14.88	128	3416	9.57	ppb	#	91
96)	1,2,3-Trichlorobenzene	15.15	182	2223	9.32	ppb		99

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

Data File : M:\LOKI\DATA\211129\1129L27.D Vial: 25
Acq On : 30 Nov 21 00:52 Operator:
Sample : 211129A LCS 10ug/L Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 13:21 2021 Quant Results File: L1129W.RES

Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration



Data File : M:\LOKI\DATA\211129\1129L28.D Vial: 26
Acq On : 30 Nov 21 1:20 Operator:
Sample : 211129A LCSD 10ug/L Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 13:22 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	6.30	96	68608	25.00	ppb		0.00
56) Chlorobenzene-D5 (IS)	9.78	117	60251	25.00	ppb		0.00
71) 1,4-Dichlorobenzene-D4 (IS	12.36	152	40852	25.00	ppb		0.00
System Monitoring Compounds							
32) Dibromofluoromethane(S)	5.45	113	19900	23.35	ppb		0.00
Spiked Amount 25.000			Recovery = 93.400%				
37) 1,2-DCA-D4(S)	5.87	65	20675	23.38	ppb		0.00
Spiked Amount 25.000			Recovery = 93.532%				
57) Toluene-D8(S)	8.18	98	66794	25.51	ppb		0.00
Spiked Amount 25.000			Recovery = 102.028%				
65) 4-Bromofluorobenzene(S)	11.07	174	25808	24.73	ppb		0.00
Spiked Amount 25.000			Recovery = 98.924%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.08	85	4145	9.56	ppb		89
3) Freon 114	1.18	85	2948	10.63	ppb		100
4) Chloromethane	1.22	50	4001	9.72	ppb		92
5) Vinyl chloride	1.31	62	3380	10.21	ppb		90
6) Bromomethane	1.56	96	4028	6.83	ppb		80
7) Chloroethane	1.66	64	2119	9.42	ppb		93
8) Dichlorofluoromethane	1.84	67	6581	10.01	ppb		99
9) Trichlorofluoromethane	1.88	101	4452	9.38	ppb		98
10) Acrolein	2.28	56	2724	97.04	ppb		97
11) Acetone	2.45	43	4255	42.53	ppb		93
12) Freon-113	2.40	101	3326	10.26	ppb		91
13) 1,1-DCE	2.37	61	4499	9.59	ppb		94
14) t-Butanol	3.15	59	1283	121.38	ppb		95
15) Acetonitrile	2.75	41	4240	97.80	ppb		93
16) Methyl Acetate	2.83	43	2008	8.29	ppb		94
17) Iodomethane	2.51	142	1967	9.37	ppb		81
18) Acrylonitrile	3.24	53	953	9.46	ppb	#	92
19) Methylene chloride	2.92	84	3845	10.20	ppb		92
20) Carbon disulfide	2.57	76	5023	8.86	ppb		96
21) Methyl t-butyl ether (MtBE	3.31	73	1167	11.99	ppb	#	100
22) Trans-1,2-DCE	3.26	61	4274	10.89	ppb		95
23) Diisopropyl Ether	4.07	45	6890	10.34	ppb		97
24) 1,1-DCA	3.87	63	5373	10.43	ppb		99
25) Vinyl Acetate	4.07	43	1405	9.41	ppb		100
27) MEK (2-Butanone)	4.85	43	4462	46.97	ppb		100
28) Cis-1,2-DCE	4.76	61	4151	9.97	ppb		95
29) 2,2-Dichloropropane	4.75	77	4069	10.47	ppb	#	82

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

Data File : M:\LOKI\DATA\211129\1129L28.D Vial: 26
Acq On : 30 Nov 21 1:20 Operator:
Sample : 211129A LCSD 10ug/L Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 13:22 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration
DataAcq Meth : L8260

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30)	Chloroform	5.24	83	6769	10.48	ppb	96
31)	Bromochloromethane	5.09	130	2930	10.51	ppb	90
33)	1,1,1-TCA	5.44	97	6092	10.24	ppb	98
34)	Cyclohexane	5.50	56	3404	10.11	ppb	92
35)	1,1-Dichloropropene	5.67	75	3633	10.20	ppb	97
36)	2,2,4-Trimethylpentane	6.08	57	2353	8.45	ppb	91
38)	Carbon Tetrachloride	5.66	119	5297	9.77	ppb	95
40)	1,2-DCA	5.97	62	5208	10.38	ppb	93
41)	Benzene	5.93	78	12946	11.03	ppb	98
42)	TCE	6.75	130	4788	10.88	ppb	97
43)	2-Pentanone	7.03	43	18230	118.68	ppb	97
44)	1,2-Dichloropropane	7.02	63	3251	10.34	ppb	94
45)	Bromodichloromethane	7.36	83	5305	10.65	ppb	98
46)	Methyl Cyclohexane	6.97	98	2070	10.31	ppb	82
47)	Dibromomethane	7.15	174	3669	10.36	ppb	85
49)	MIBK (methyl isobutyl ket	8.10	43	9004	49.95	ppb	95
50)	1-Bromo-2-chloroethane	7.69	63	2334	9.94	ppb	98
51)	Cis-1,3-Dichloropropene	7.88	75	4362	9.63	ppb	94
52)	Toluene	8.25	91	15210	11.11	ppb	95
53)	Trans-1,3-Dichloropropene	8.52	75	2205	8.86	ppb	98
54)	1,1,2-TCA	8.72	97	3755	10.14	ppb	87
55)	2-Hexanone	9.03	43	4443	41.13	ppb	95
58)	1,2-EDB	9.25	107	3792	9.58	ppb	97
59)	Tetrachloroethene	8.86	166	2843	9.41	ppb	95
60)	1-Chlorohexane	9.81	91	3301	9.24	ppb	94
61)	1,1,1,2-Tetrachloroethane	9.90	131	4448	9.81	ppb	79
62)	m&p-Xylene	10.07	91	23565	18.38	ppb	95
63)	o-Xylene	10.51	91	12282	9.49	ppb	96
64)	Styrene	10.52	104	9059	9.22	ppb	97
66)	1,3-Dichloropropane	8.90	76	5120	9.89	ppb	97
67)	Dibromochloromethane	9.14	129	4358	9.35	ppb	99
68)	Chlorobenzene	9.80	112	11178	10.01	ppb	96
69)	Ethylbenzene	9.94	91	9150	10.95	ppb	100
70)	Bromoform	10.71	173	3174	8.85	ppb	87
72)	Isopropylbenzene	10.92	105	14943	9.87	ppb	97
73)	1,1,2,2-Tetrachloroethane	11.24	83	4446	8.93	ppb	99
74)	1,2,3-Trichloropropane	11.29	110	1655	9.30	ppb	90
75)	t-1,4-Dichloro-2-Butene	11.31	53	334	11.18	ppb	83
76)	Bromobenzene	11.23	158	5612	10.78	ppb	95
77)	n-Propylbenzene	11.37	91	17536	11.99	ppb	98
78)	4-Ethyltoluene	11.50	105	15398	9.79	ppb	97
79)	2-Chlorotoluene	11.45	91	13784	10.32	ppb	91

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

Data File : M:\LOKI\DATA\211129\1129L28.D Vial: 26
Acq On : 30 Nov 21 1:20 Operator:
Sample : 211129A LCSD 10ug/L Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 13:22 2021 Quant Results File: L1129W.RES

Quant Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration
DataAcq Meth : L8260

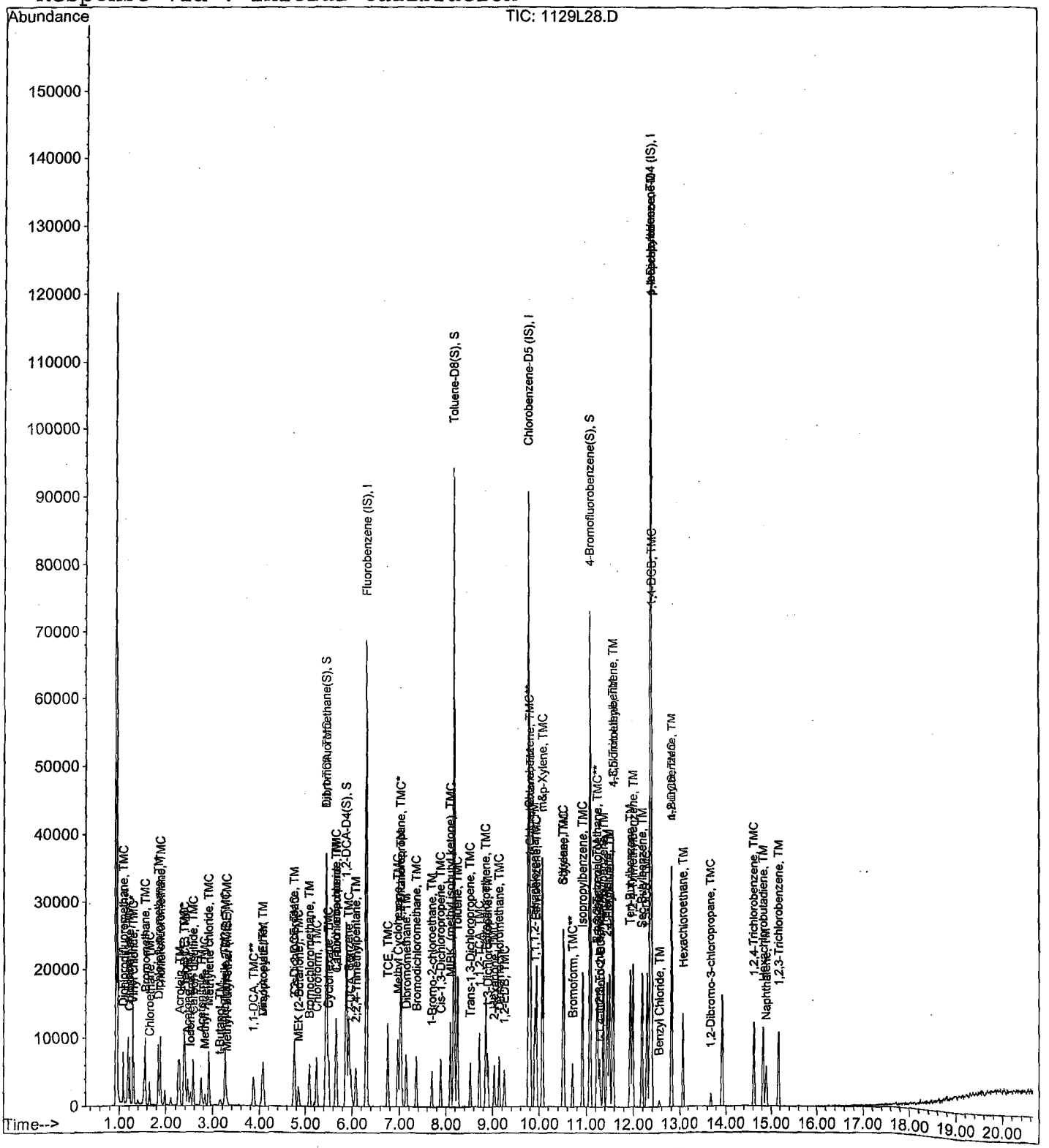
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
80) 1,3,5-Trimethylbenzene	11.57	105	14563	10.01	ppb		95
81) 4-Chlorotoluene	11.57	91	15385	10.55	ppb		97
82) Tert-Butylbenzene	11.93	119	12397	10.00	ppb		99
83) 1,2,4-Trimethylbenzene	11.99	105	13835	9.60	ppb		92
84) Sec-Butylbenzene	12.18	105	16930	9.89	ppb		99
85) p-Isopropyltoluene	12.35	119	14379	9.81	ppb		90
86) Benzyl Chloride	12.54	91	1328	9.69	ppb		88
87) 1,3-DCB	12.29	146	11363	10.42	ppb		92
88) 1,4-DCB	12.39	146	11643	10.79	ppb		94
89) n-Butylbenzene	12.80	91	11665	10.08	ppb		96
90) 1,2-DCB	12.80	146	10652	10.46	ppb		96
91) Hexachloroethane	13.09	117	3196	9.09	ppb		84
92) 1,2-Dibromo-3-chloropropan	13.68	157	917	8.50	ppb		93
93) 1,2,4-Trichlorobenzene	14.61	180	3118	11.51	ppb		88
94) Hexachlorobutadiene	14.82	225	1577	9.34	ppb		92
95) Naphthalene	14.89	128	3270	9.22	ppb	#	91
96) 1,2,3-Trichlorobenzene	15.16	182	2500	10.16	ppb		96

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

Data File : M:\LOKI\DATA\211129\1129L28.D Vial: 26
Acq On : 30 Nov 21 1:20 Operator:
Sample : 211129A LCSD 10ug/L Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Nov 30 13:22 2021 Quant Results File: L1129W.RES

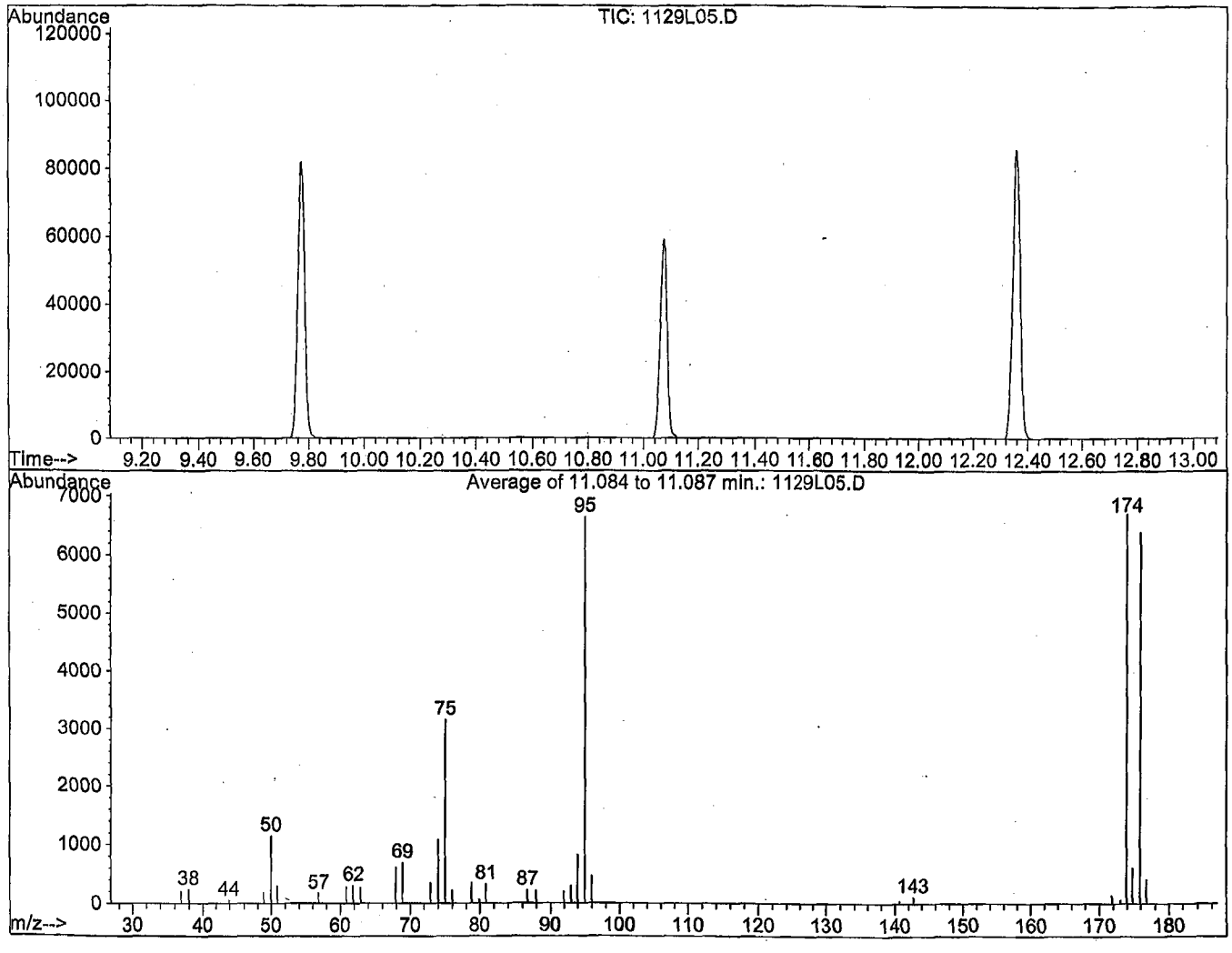
Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Nov 30 10:12:54 2021
Response via : Initial Calibration



Data File : M:\LOKI\DATA\211129\1129L05.D
Acq On : 29 Nov 21 14:43
Sample : BLK
Misc : IS&S: 9/1/21

Vial: 3
Operator:
Inst : Loki
Multiplr: 1.00

Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B



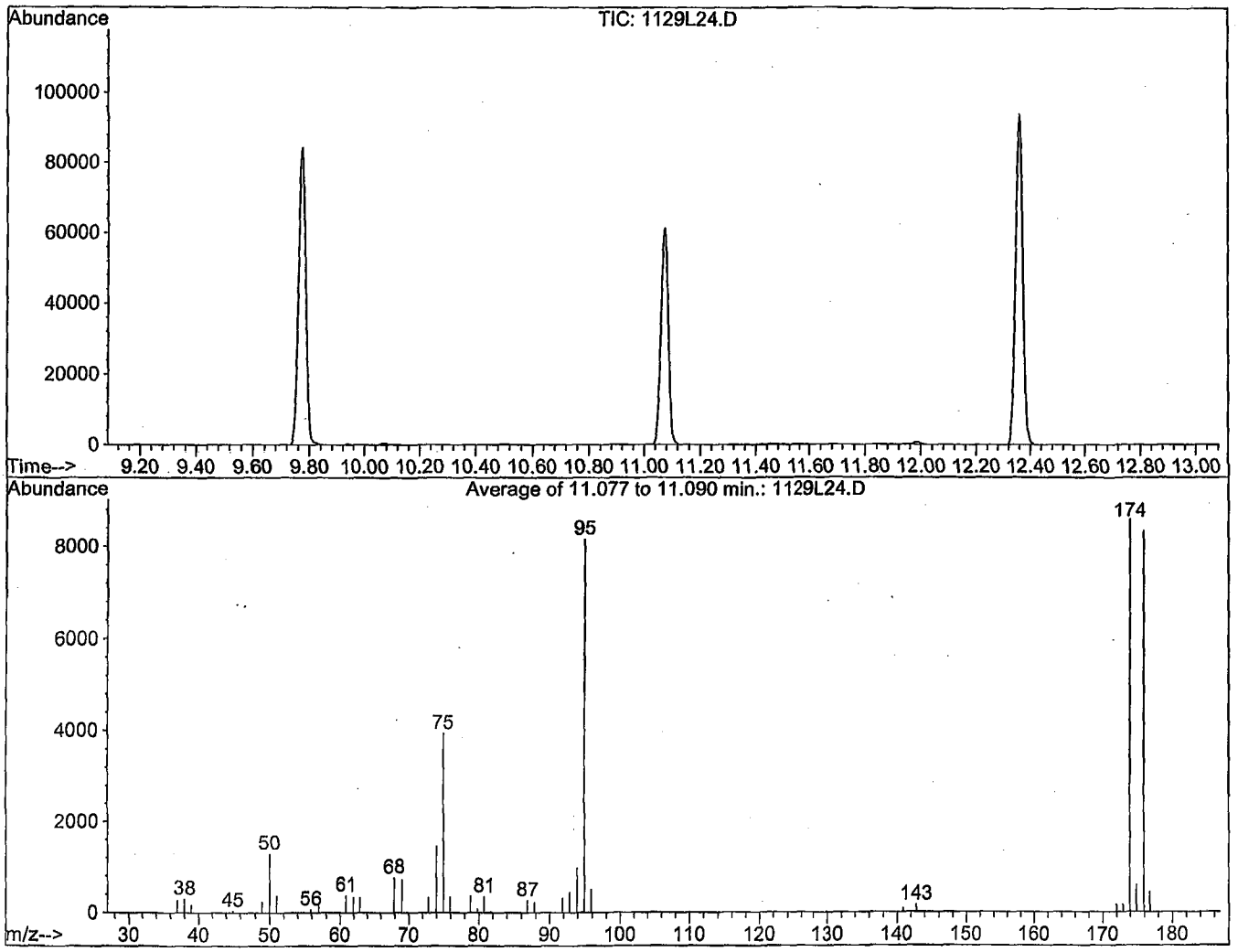
Spectrum Information: Average of 11.084 to 11.087 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.4	1155	PASS
75	95	30	60	47.6	3162	PASS
95	95	100	100	100.0	6637	PASS
96	95	5	9	7.0	466	PASS
173	174	0.00	2	1.0	64	PASS
174	95	50	200	101.0	6701	PASS
175	174	5	9	9.1	607	PASS
176	174	95	100	95.3	6386	PASS
177	176	5	9	6.5	415	PASS

Data File : M:\LOKI\DATA\211129\1129L24.D
Acq On : 29 Nov 21 23:29
Sample : 25ug/L BFB STD 10/29/21
Misc : IS&S: 9/1/21

Vial: 22
Operator:
Inst : Loki
Multiplr: 1.00

Method : M:\LOKI\DATA\211129\L1129W.M (RTE Integrator)
Title : METHOD 8260B



Spectrum Information: Average of 11.077 to 11.090 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.8	1288	PASS
75	95	30	60	48.3	3937	PASS
95	95	100	100	100.0	8157	PASS
96	95	5	9	6.1	500	PASS
173	174	0.00	2	1.9	167	PASS
174	95	50	200	105.4	8597	PASS
175	174	5	9	6.8	586	PASS
176	174	95	100	97.1	8346	PASS
177	176	5	9	5.3	439	PASS

1129L24.D L1129W.M Wed Dec 01 15:25:52 2021

LOKI 8260 Standard Prep

LOKI 8260 Water Calibration Curve

0.3ug/L

Prepared By (Initials): CH

Prepared: 11/29/2021

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: 11/29/2021

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: 11/29/2021

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: 11/29/2021

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: 11/29/2021

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: 11/29/2021

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: 11/29/2021

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: 11/29/2021

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: 11/29/2021

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

LOKI 8260 Water Second Source (SS)

Prepared: 11/29/2021

Prepared By (Initials): CH

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: 11/29/2021

Prepared By (Initials): CH

Expires: 11/30/2021

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

Injection Log

Directory: M:\LOKI\DATA\211129\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	3	1129L05.D	1	25ug/L BFB STD 10/29/21	IS&S: 9/1/21	29 Nov 21 14:43
2	4	1129L06.D	1	0.3ug/L VOC STD 11/29/21	IS&S: 9/1/21	29 Nov 21 15:11
3	5	1129L07.D	1	0.5ug/L VOC STD 11/29/21	IS&S: 9/1/21	29 Nov 21 15:39
4	6	1129L08.D	1	1ug/L VOC STD 11/29/21	IS&S: 9/1/21	29 Nov 21 16:07
5	7	1129L09.D	1	2ug/L VOC STD 11/29/21	IS&S: 9/1/21	29 Nov 21 16:34
6	8	1129L10.D	1	5ug/L VOC STD 11/29/21	IS&S: 9/1/21	29 Nov 21 17:02
7	9	1129L11.D	1	10ug/L VOC STD 11/29/21	IS&S: 9/1/21	29 Nov 21 17:30
8	10	1129L12.D	1	20ug/L VOC STD 11/29/21	IS&S: 9/1/21	29 Nov 21 17:57
9	11	1129L13.D	1	40ug/L VOC STD 11/29/21	IS&S: 9/1/21	29 Nov 21 18:25
10	12	1129L14.D	1	100ug/L VOC STD 11/29/21	IS&S: 9/1/21	29 Nov 21 18:53
11	14	1129L16.D	1	(SS) 10ug/L VOC STD 11/29/21	IS&S: 9/1/21	29 Nov 21 19:48
12	22	1129L24.D	1	25ug/L BFB STD 10/29/21	IS&S: 9/1/21	29 Nov 21 23:29
13	24	1129L26.D	1	211129A CCV 10ug/L	IS&S: 9/1/21	30 Nov 21 00:24
14	25	1129L27.D	1	211129A LCS 10ug/L	IS&S: 9/1/21	30 Nov 21 00:52
15	26	1129L28.D	1	211129A LCSD 10ug/L	IS&S: 9/1/21	30 Nov 21 1:20
16	29	1129L31.D	1	211129A BLK	IS&S: 9/1/21	30 Nov 21 2:42
17	33	1129L35.D	1	BA46713W01	IS&S: 9/1/21	30 Nov 21 4:33
18	34	1129L36.D	5	BA46714W01	IS&S: 9/1/21	30 Nov 21 5:00
19	43	1129L45.D	1	Ending CCV 10ug/L 11/29/21	IS&S: 9/1/21	30 Nov 21 9:09

ORGANICS
Calibration Data

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 11/29/2021
Matrix: Water Instrument: Loki
Initials: EO

			1129L17.D	1129L18.D	1129L19.D	1129L20.D	1129L21.D	1129L22.D	1129L23.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	5.351	2.187	1.143	0.4792	0.3164	0.2907	0.2749				1.4	130	TMHB	0.992		
3	I	Chlorobenzene-D5 (IS)																
4	I	1,4-Dichlorobenzene-D (IS)																
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
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33																		
34																		
35																		

Data File : M:\LOKI\DATA\211129\1129L17.D Vial: 15
Acq On : 29 Nov 21 20:16 Operator:
Sample : 20ug/L GAS STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 11:44 2021 Quant Results File: LGAS1129.RI

Quant Method : M:\LOKI\DATA\211129\LGAS1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:44:00 2021
Response via : Initial Calibration
DataAcq Meth : L8260

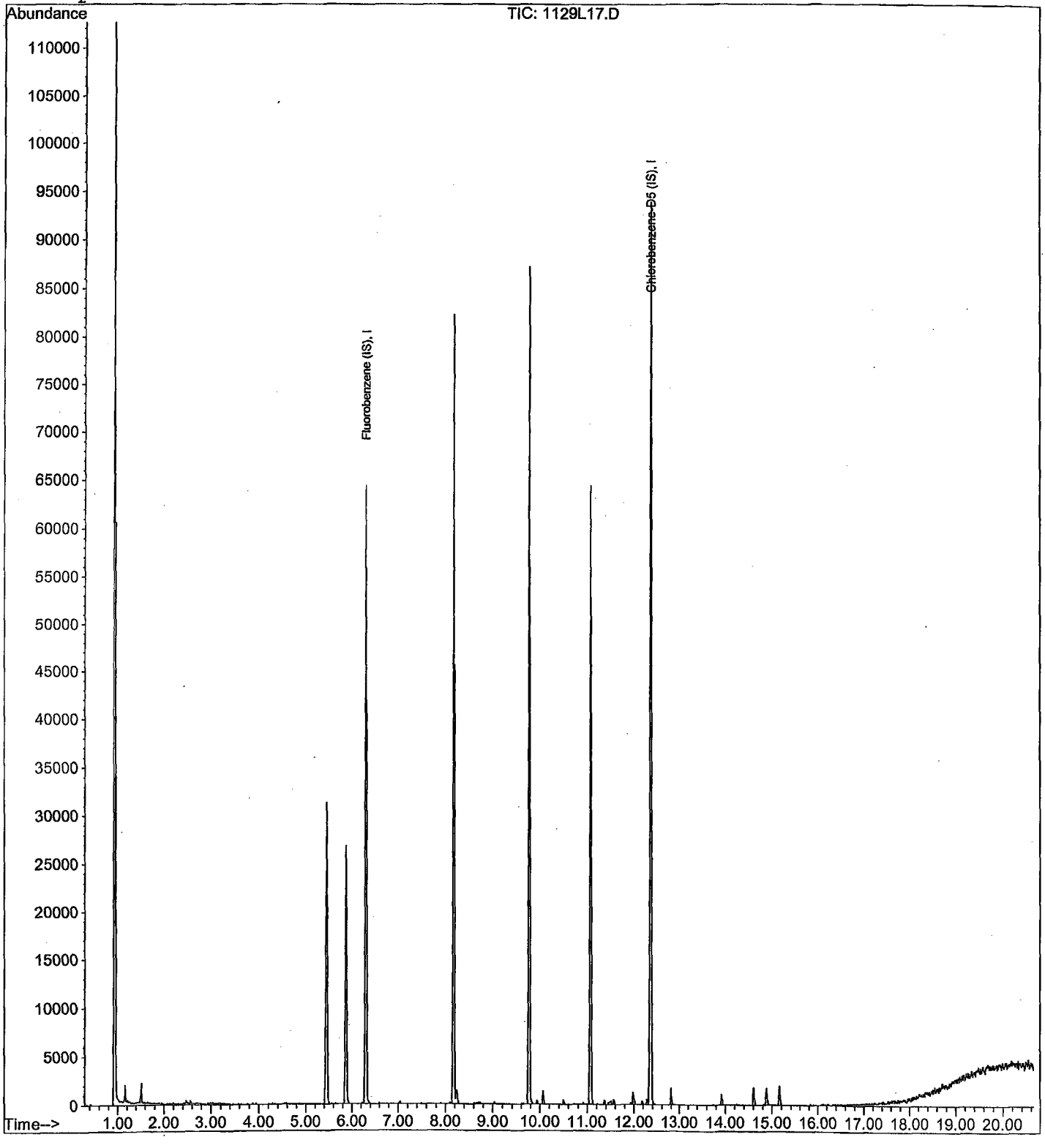
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.31	TIC	126669	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.36	TIC	183070	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	0.00	TIC	0	0.00	ppb	-12.54
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline C6-C10	8.18	TIC	542259m	-0.58	ppb	100

(#) = qualifier out of range (m) = manual integration
1129L17.D LGAS1129.M Wed Dec 01 11:51:12 2021 Page 1

Data File : M:\LOKI\DATA\211129\1129L17.D Vial: 15
Acq On : 29 Nov 21 20:16 Operator:
Sample : 20ug/L GAS STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 11:44 2021 Quant Results File: LGAS1129.RE

Method : M:\LOKI\DATA\211129\LGAS1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:45:27 2021
Response via : Initial Calibration



Data File : M:\LOKI\DATA\211129\1129L18.D Vial: 16
Acq On : 29 Nov 21 20:44 Operator:
Sample : 50ug/L GAS STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 11:44 2021 Quant Results File: LGAS1129.RE

Quant Method : M:\LOKI\DATA\211129\LGAS1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:44:00 2021
Response via : Initial Calibration
DataAcq Meth : L8260

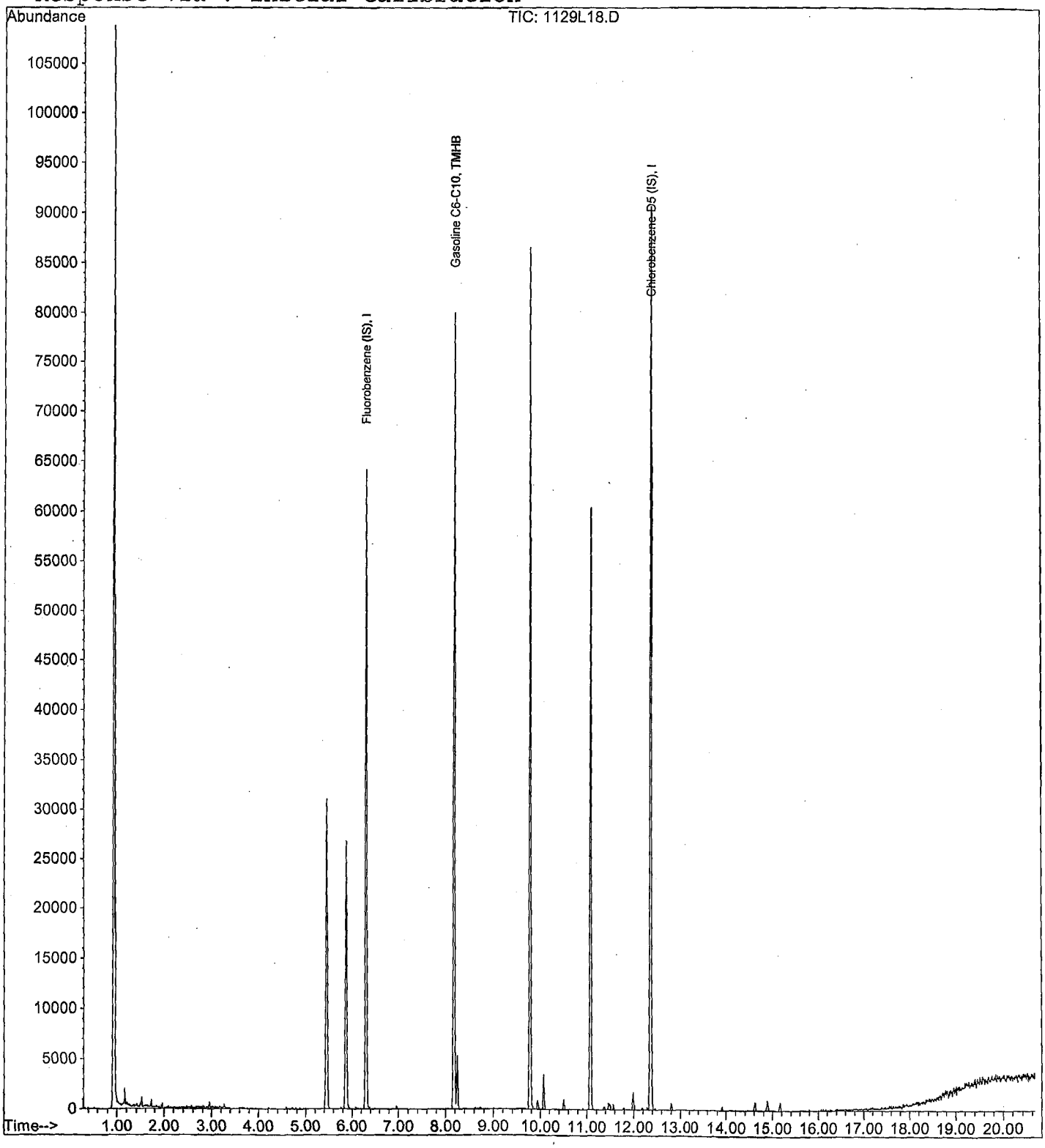
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	TIC	124451	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.36	TIC	178072	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	0.00	TIC	0	0.00	ppb	-12.54
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline C6-C10	8.18	TIC	544304m	9.06	ppb	100

(#) = qualifier out of range (m) = manual integration
1129L18.D LGAS1129.M Wed Dec 01 11:51:13 2021 Page 1

Data File : M:\LOKI\DATA\211129\1129L18.D Vial: 16
Acq On : 29 Nov 21 20:44 Operator:
Sample : 50ug/L GAS STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 11:44 2021 Quant Results File: LGAS1129.R

Method : M:\LOKI\DATA\211129\LGAS1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:45:27 2021
Response via : Initial Calibration



Data File : M:\LOKI\DATA\211129\1129L19.D Vial: 17
Acq On : 29 Nov 21 21:11 Operator:
Sample : 100ug/L GAS STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 11:44 2021 Quant Results File: LGAS1129.R

Quant Method : M:\LOKI\DATA\211129\LGAS1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:44:00 2021
Response via : Initial Calibration
DataAcq Meth : L8260

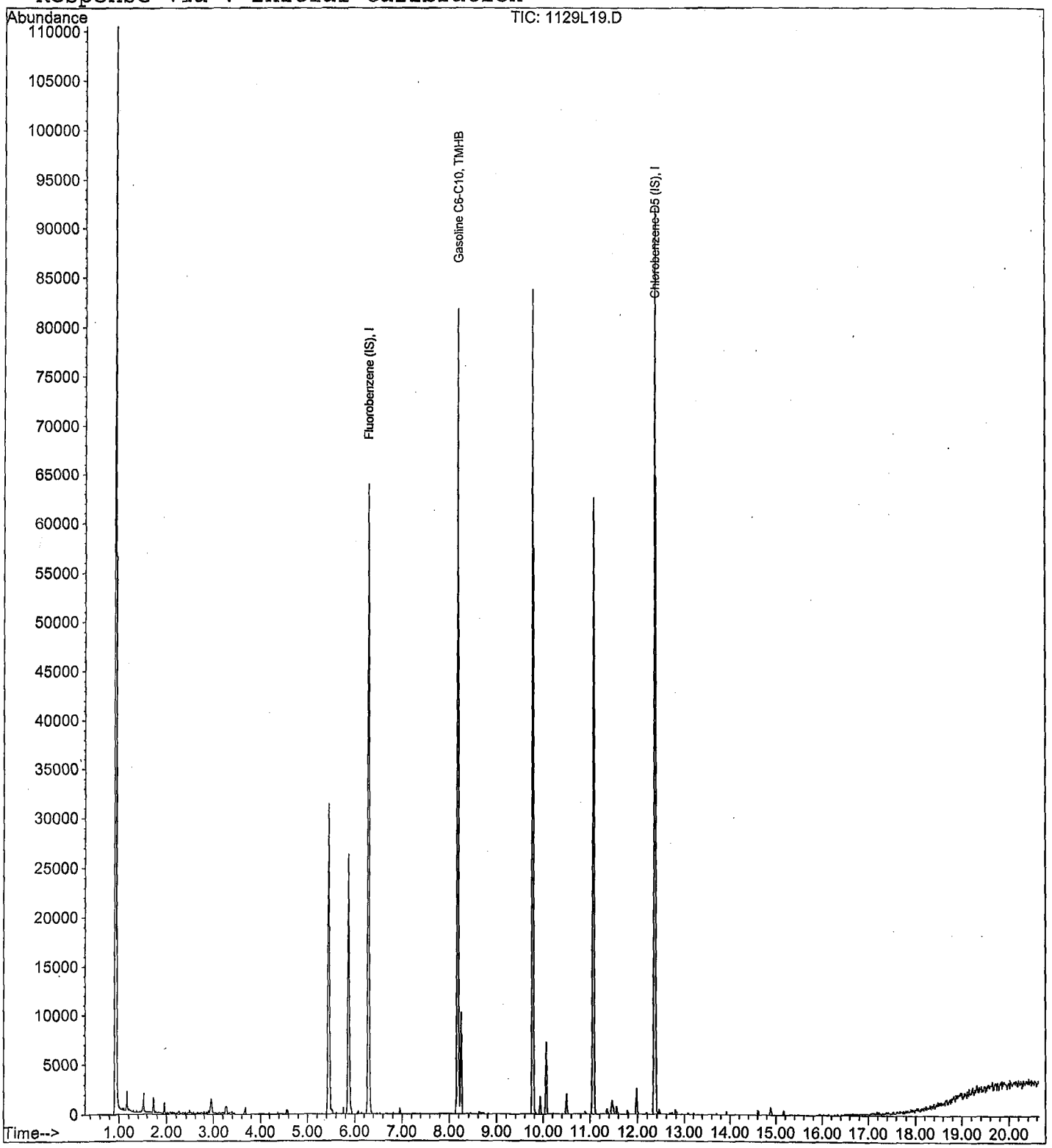
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	TIC	125351	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.36	TIC	179277	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	0.00	TIC	0	0.00	ppb	-12.54
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline C6-C10	8.18	TIC	573031m	29.60	ppb	100

(#) = qualifier out of range (m) = manual integration
1129L19.D LGAS1129.M Wed Dec 01 11:51:13 2021 Page 1

Data File : M:\LOKI\DATA\211129\1129L19.D Vial: 17
Acq On : 29 Nov 21 21:11 Operator:
Sample : 100ug/L GAS STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 11:44 2021 Quant Results File: LGAS1129.RE

Method : M:\LOKI\DATA\211129\LGAS1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:45:27 2021
Response via : Initial Calibration



Data File : M:\LOKI\DATA\211129\1129L20.D Vial: 18
Acq On : 29 Nov 21 21:39 Operator:
Sample : 300ug/L GAS STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 11:44 2021 Quant Results File: LGAS1129.RE

Quant Method : M:\LOKI\DATA\211129\LGAS1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:44:00 2021
Response via : Initial Calibration
DataAcq Meth : L8260

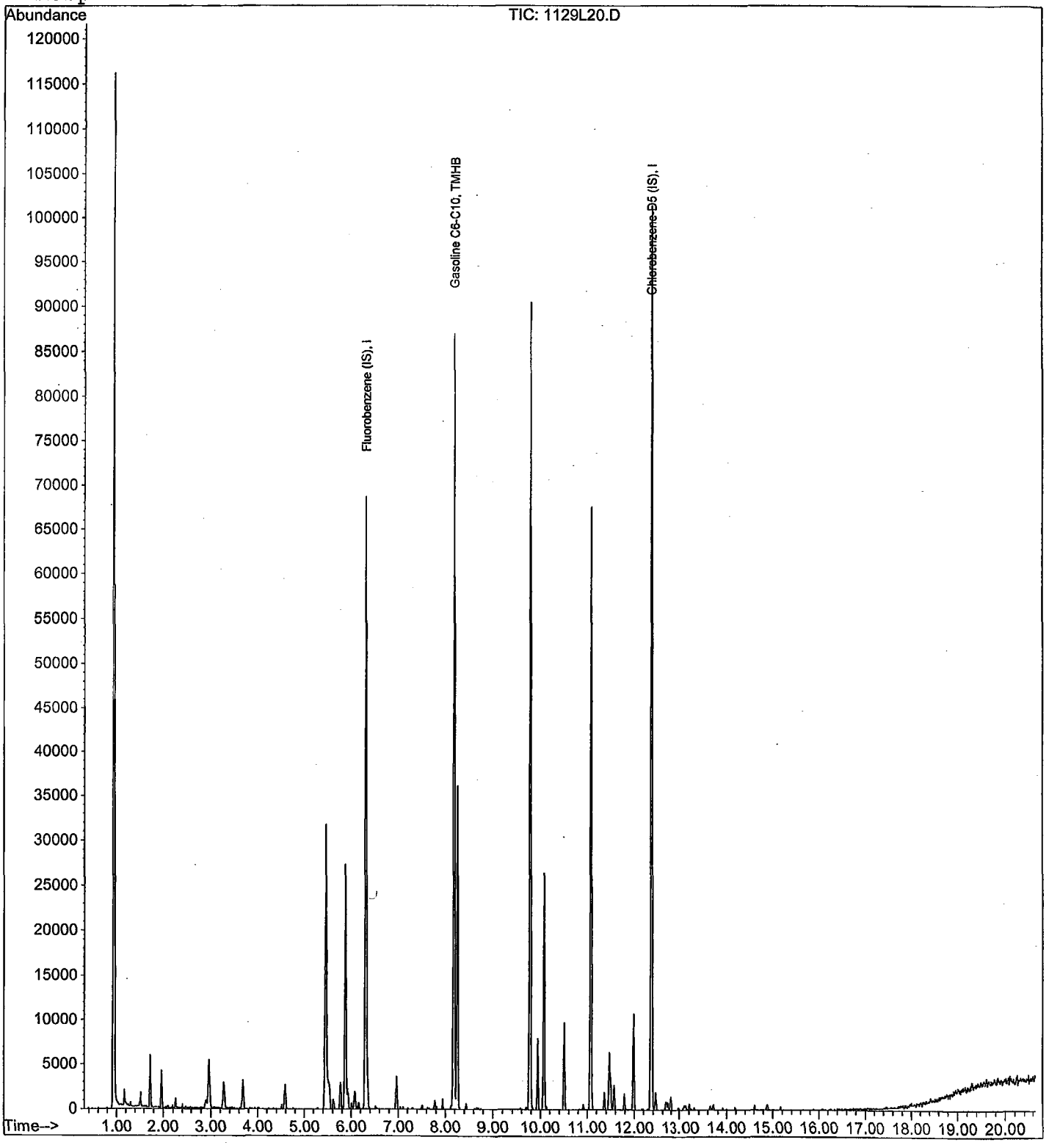
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.31	TIC	134100	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.36	TIC	192872	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	0.00	TIC	0	0.00	ppb	-12.54
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline C6-C10	8.18	TIC	771084m	152.06	ppb	100

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

Data File : M:\LOKI\DATA\211129\1129L20.D Vial: 18
Acq On : 29 Nov 21 21:39 Operator:
Sample : 300ug/L GAS STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 11:44 2021 Quant Results File: LGAS1129.RE

Method : M:\LOKI\DATA\211129\LGAS1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:45:27 2021
Response via : Initial Calibration



Data File : M:\LOKI\DATA\211129\1129L21.D Vial: 19
Acq On : 29 Nov 21 22:06 Operator:
Sample : 600ug/L GAS STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 11:44 2021 Quant Results File: LGAS1129.RE

Quant Method : M:\LOKI\DATA\211129\LGAS1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:44:00 2021
Response via : Initial Calibration
DataAcq Meth : L8260

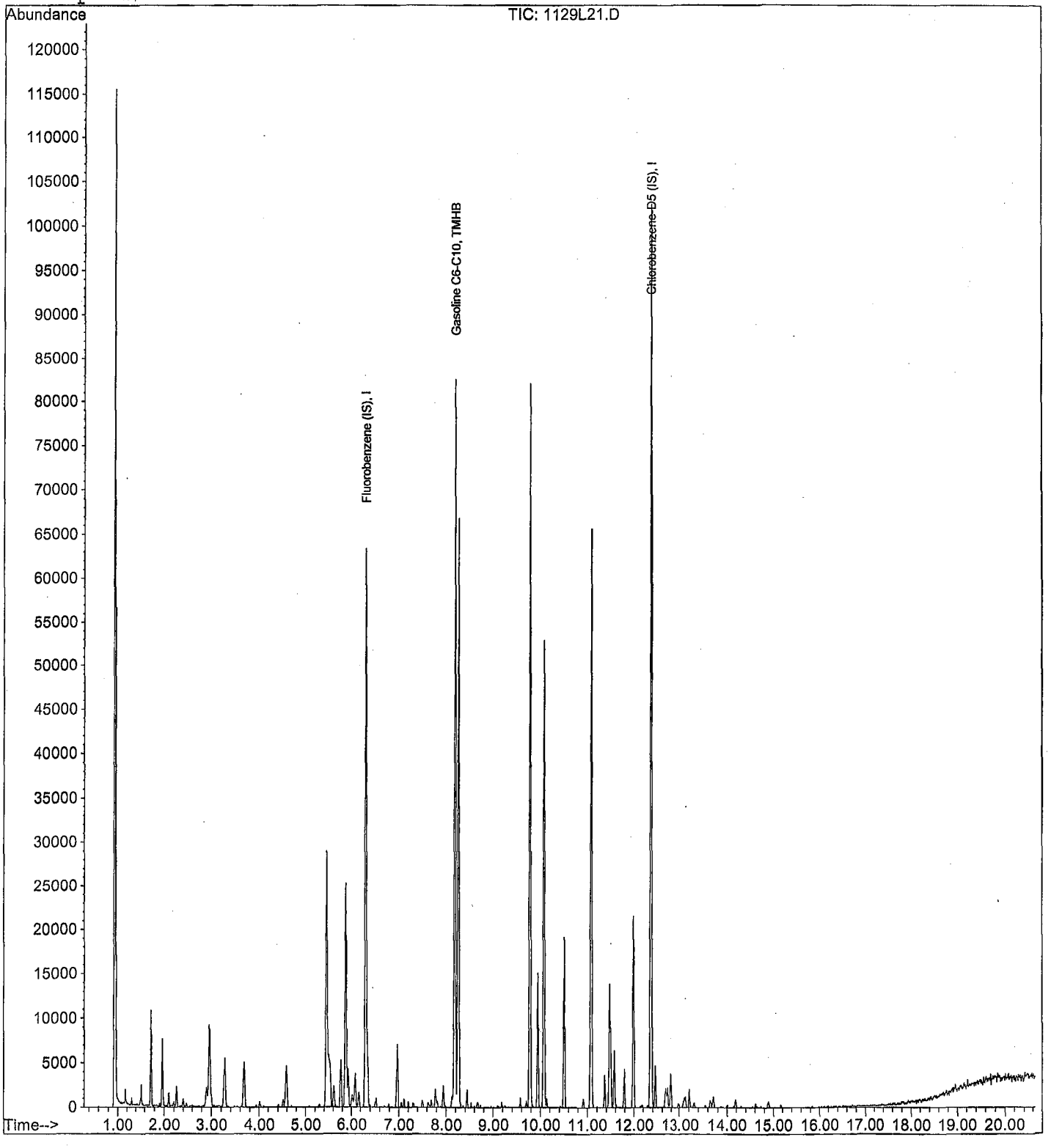
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	TIC	126608	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.36	TIC	191863	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	0.00	TIC	0	0.00	ppb	-12.54
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline C6-C10	8.18	TIC	961409m	343.60	ppb	100

(#) = qualifier out of range (m) = manual integration
1129L21.D LGAS1129.M Wed Dec 01 11:51:15 2021 Page 1

Data File : M:\LOKI\DATA\211129\1129L21.D Vial: 19
Acq On : 29 Nov 21 22:06 Operator:
Sample : 600ug/L GAS STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 11:44 2021 Quant Results File: LGAS1129.RE

Method : M:\LOKI\DATA\211129\LGAS1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:45:27 2021
Response via : Initial Calibration



Data File : M:\LOKI\DATA\211129\1129L22.D Vial: 20
Acq On : 29 Nov 21 22:34 Operator:
Sample : 800ug/L GAS STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 11:44 2021 Quant Results File: LGAS1129.RE

Quant Method : M:\LOKI\DATA\211129\LGAS1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:44:00 2021
Response via : Initial Calibration
DataAcq Meth : L8260

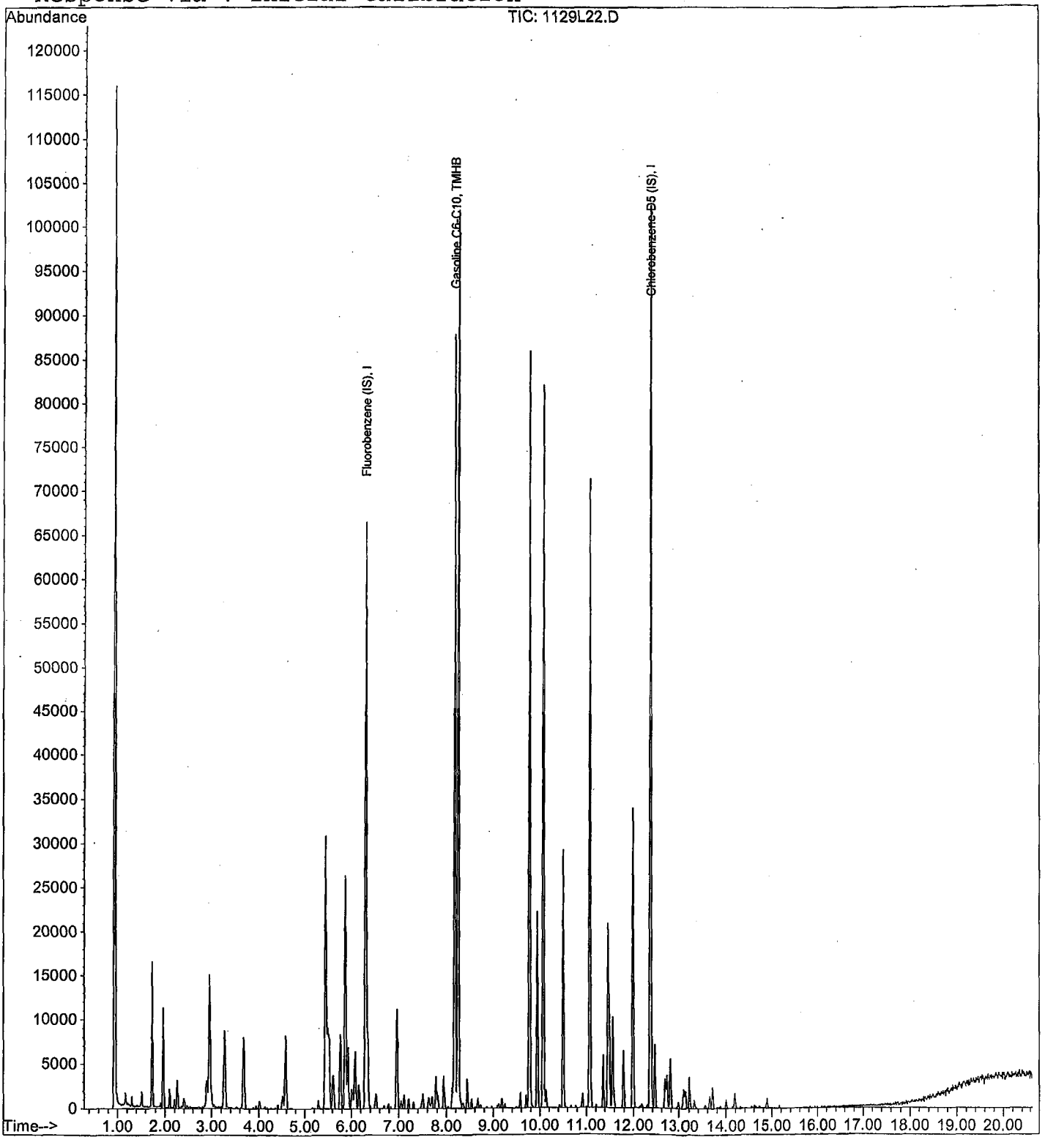
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.31	TIC	136911	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.36	TIC	197472	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	0.00	TIC	0	0.00	ppb	-12.54
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline C6-C10	8.18	TIC	1273581m	521.12	ppb	100

(#) = qualifier out of range (m) = manual integration
1129L22.D LGAS1129.M Wed Dec 01 11:51:15 2021 Page 1

Data File : M:\LOKI\DATA\211129\1129L22.D Vial: 20
Acq On : 29 Nov 21 22:34 Operator:
Sample : 800ug/L GAS STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 11:44 2021 Quant Results File: LGAS1129.RE

Method : M:\LOKI\DATA\211129\LGAS1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:45:27 2021
Response via : Initial Calibration



Data File : M:\LOKI\DATA\211129\1129L23.D Vial: 21
Acq On : 29 Nov 21 23:02 Operator:
Sample : 1000ug/L GAS STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 11:44 2021 Quant Results File: LGAS1129.RE

Quant Method : M:\LOKI\DATA\211129\LGAS1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:44:00 2021
Response via : Initial Calibration
DataAcq Meth : L8260

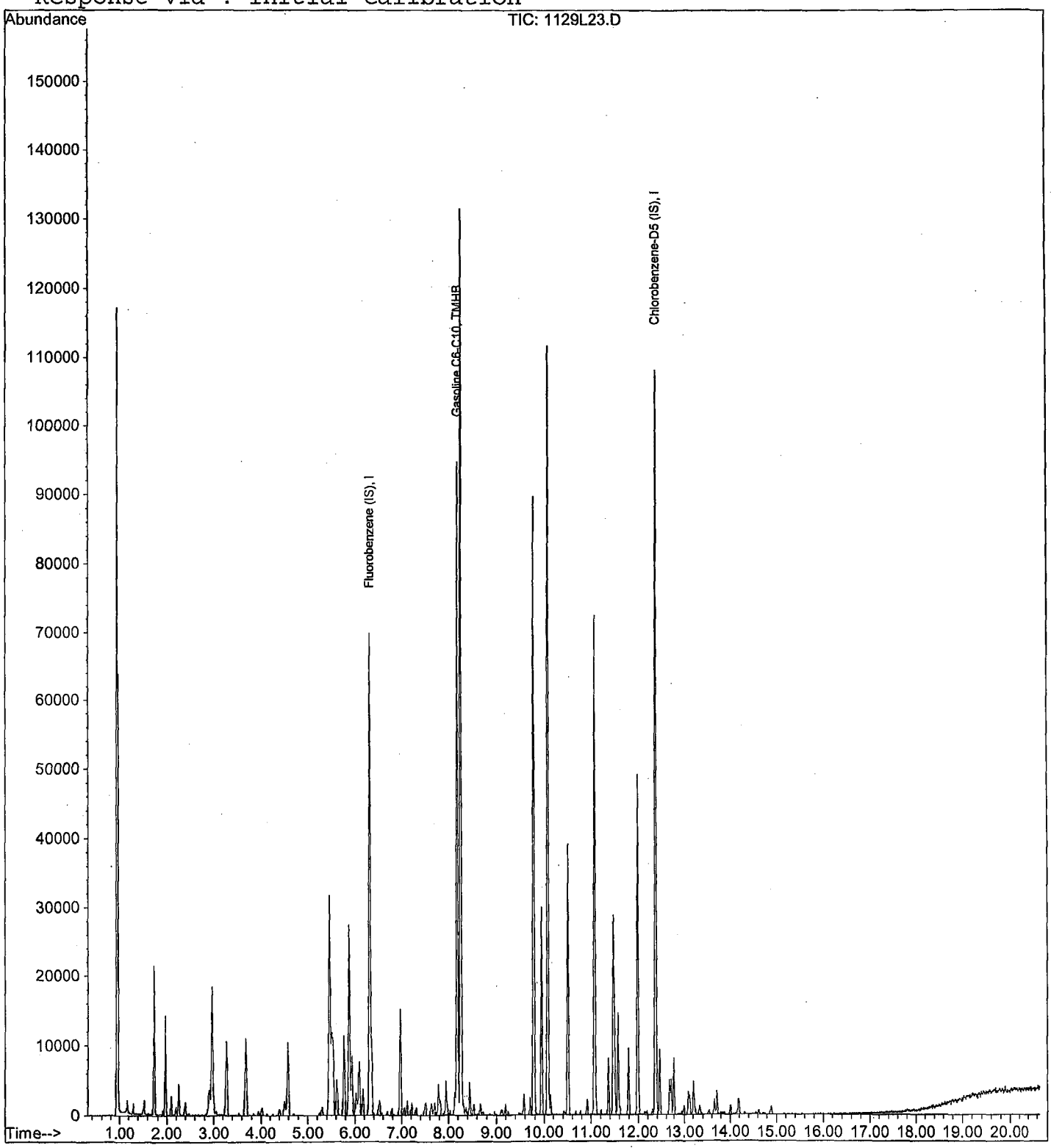
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.31	TIC	142235	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.36	TIC	206539	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	0.00	TIC	0	0.00	ppb	-12.54
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline C6-C10	8.18	TIC	1564213m	697.24	ppb	100

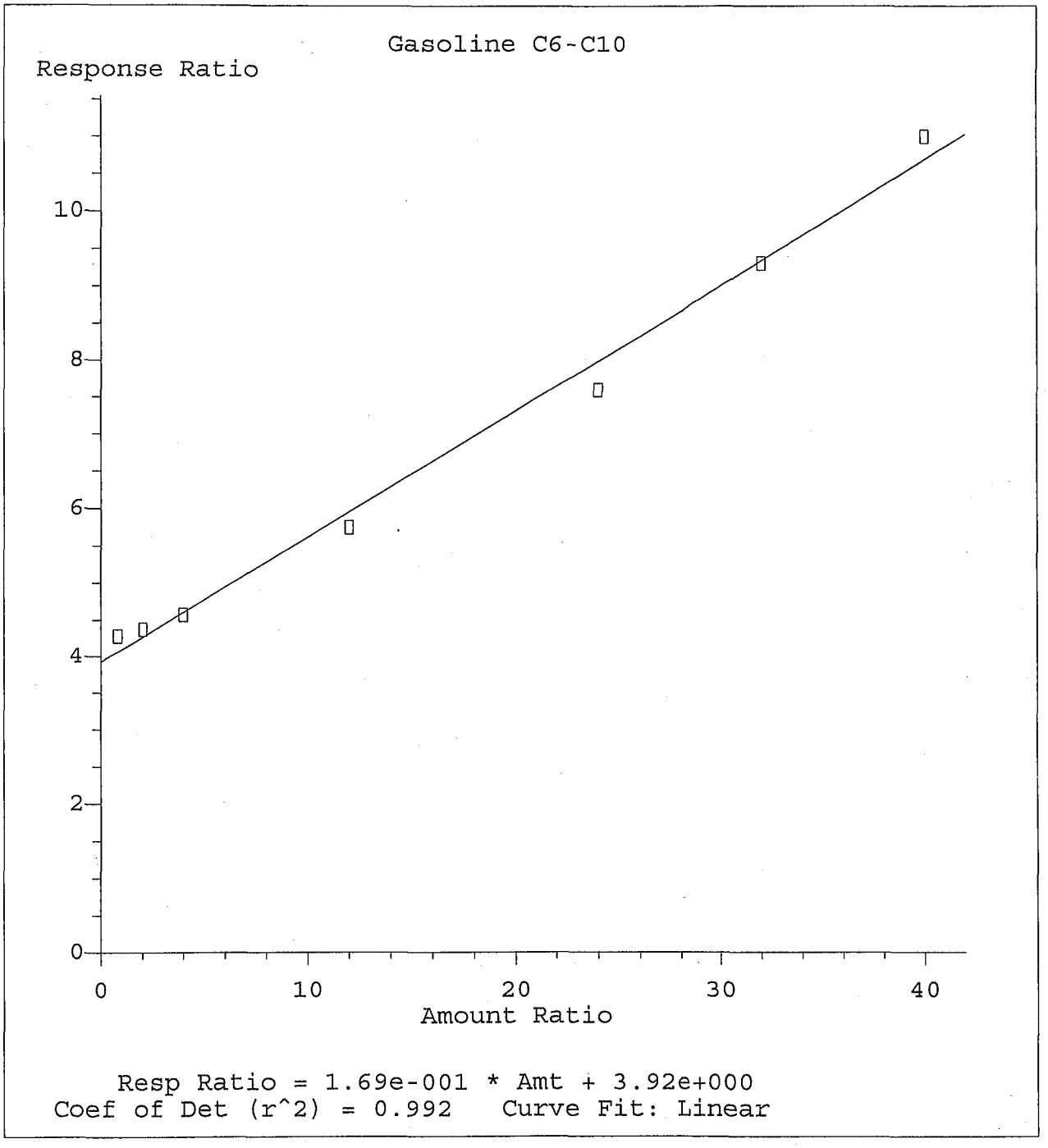
(#) = qualifier out of range (m) = manual integration
1129L23.D LGAS1129.M Wed Dec 01 11:51:16 2021 Page 1

Data File : M:\LOKI\DATA\211129\1129L23.D Vial: 21
Acq On : 29 Nov 21 23:02 Operator:
Sample : 1000ug/L GAS STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 11:44 2021 Quant Results File: LGAS1129.RES

Method : M:\LOKI\DATA\211129\LGAS1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:45:27 2021
Response via : Initial Calibration





Method Name: M:\LOKI\DATA\211129\LGAS1129.M
Calibration Table Last Updated: Wed Dec 01 11:45:27 2021

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

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

SDG No:
Date Analyzed: 11/29/2021
Instrument: Loki
Initial Cal. Date: 11/29/2021
Data File: 1129L25.D

		Compound	MEAN	CCRF	%D		%Drift
1	TMHB	Gasoline C6-C10	1.435	0.4881	66	TMHBL	4.6
2							
3							
4							
5							
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39							
40							
		Average			66.0		

Data File : M:\LOKI\DATA\211129\1129L25.D Vial: 23
Acq On : 29 Nov 21 23:57 Operator:
Sample : (SS) 300ug/L GAS STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 11:46 2021 Quant Results File: LGAS1129.RES

Quant Method : M:\LOKI\DATA\211129\LGAS1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:45:27 2021
Response via : Initial Calibration
DataAcq Meth : L8260

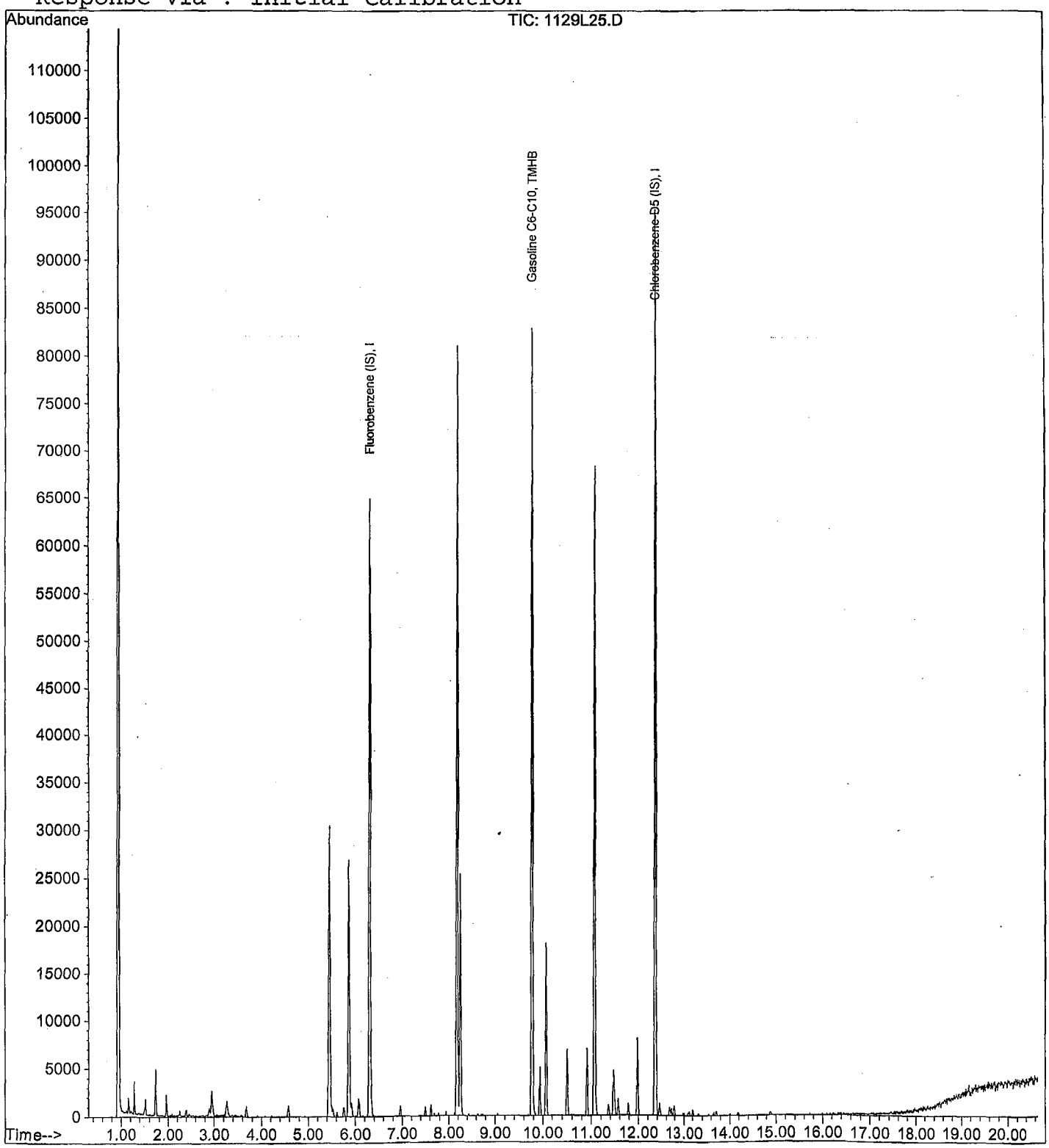
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	TIC	127574	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.36	TIC	181033	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	0.00	TIC	0	0.00	ppb	-12.54
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline C6-C10	9.77	TIC	747241m	286.08	ppb	100

(#) = qualifier out of range (m) = manual integration
1129L25.D LGAS1129.M Wed Dec 01 11:53:18 2021 Page 1

Data File : M:\LOKI\DATA\211129\1129L25.D Vial: 23
Acq On : 29 Nov 21 23:57 Operator:
Sample : (SS) 300ug/L GAS STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 11:46 2021 Quant Results File: LGAS1129.RES

Method : M:\LOKI\DATA\211129\LGAS1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:45:27 2021
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 11/29/2021
Matrix: Water Instrument: Loki Initials: EO

		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	r^2	Q	Mf
			1129L06.D	1129L07.D	1129L08.D	1129L09.D	1129L10.D	1129L11.D	1129L12.D	1129L13.D	1129L14.D							
1	I	Fluorobenzene (IS)																
2	S	Dibromofluoromethane(S)	0.3810	0.3408	0.2991	0.2973	0.3093	0.3078	0.2975	0.2934	0.2688		0.31	10	S			
3	S	1,2-DCA-D4(S)	0.3827	0.3619	0.3201	0.3092	0.3273	0.3229	0.3039	0.3018	0.2698		0.32	10	S			
4	I	Chlorobenzene-D5 (IS)																
5	S	Toluene-D8(S)	1.099	1.130	0.9590	0.9826	1.097	1.114	1.159	1.181	1.058		1.1	6.9	S			
6	S	4-Bromofluorobenzene(S)	0.4590	0.4110	0.3756	0.3460	0.4192	0.4452	0.4734	0.4843	0.4834		0.43	11	S			
7	I	1,4-Dichlorobenzene-D4 (IS)																
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35																		

Data File : M:\LOKI\DATA\211129\1129L06.D Vial: 4
Acq On : 29 Nov 21 15:11 Operator:
Sample : 0.3ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 16:24 2021 Quant Results File: LSUR1129.RE

Quant Method : M:\LOKI\DATA\211129\LSUR1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:59:30 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	57920	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.77	117	51918	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D4 (IS	12.36	152	28603	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.45	113	4413	6.13	ppb	0.00
Spiked Amount 25.000			Recovery = 24.536%			
3) 1,2-DCA-D4(S)	5.87	65	4433	5.94	ppb	0.00
Spiked Amount 25.000			Recovery = 23.756%			
5) Toluene-D8(S)	8.18	98	11410	5.06	ppb	0.00
Spiked Amount 25.000			Recovery = 20.228%			
6) 4-Bromofluorobenzene(S)	11.07	174	4766	5.30	ppb	0.00
Spiked Amount 25.000			Recovery = 21.200%			

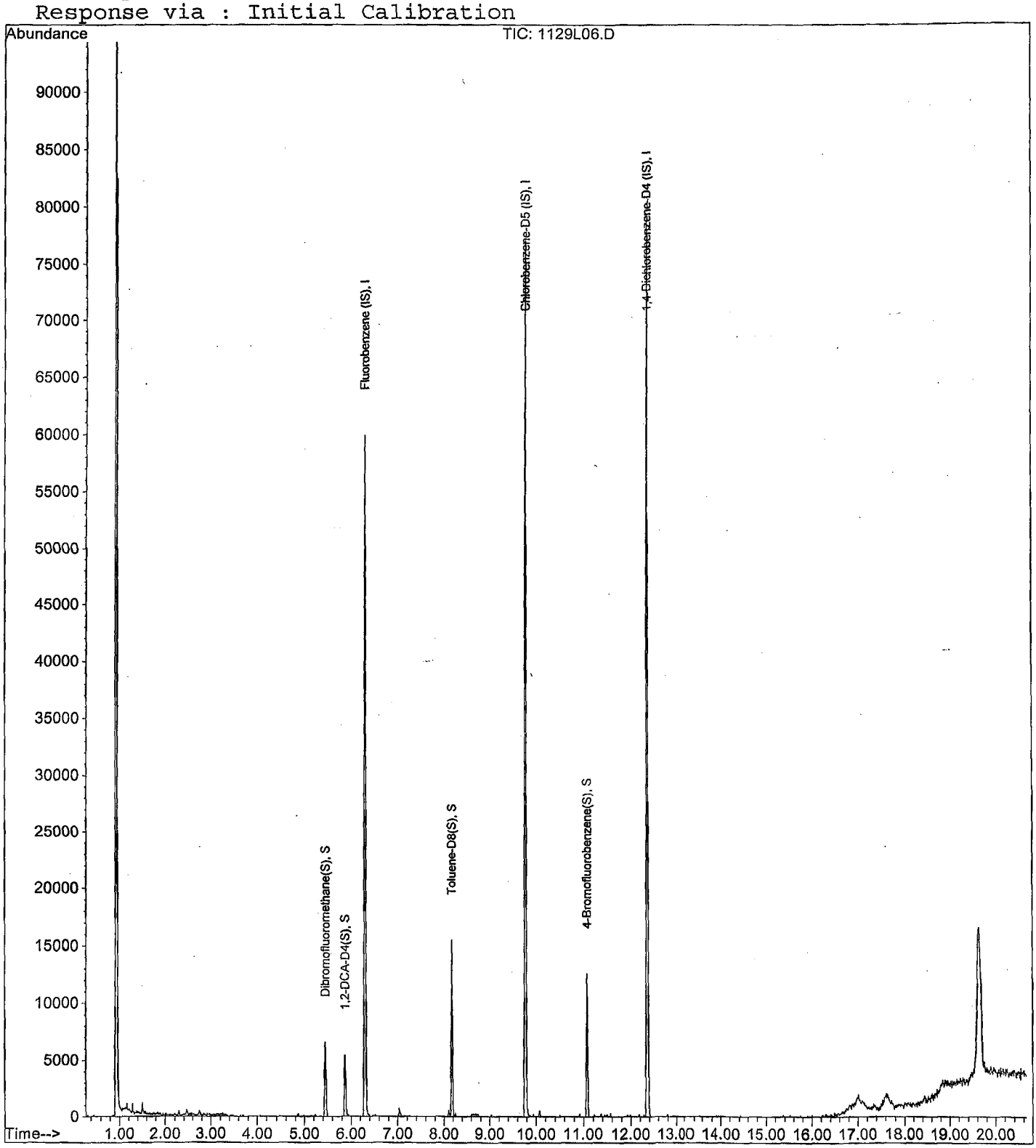
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
1129L06.D LSUR1129.M Wed Dec 01 16:27:22 2021 Page 1

Data File : M:\LOKI\DATA\211129\1129L06.D Vial: 4
Acq On : 29 Nov 21 15:11 Operator:
Sample : 0.3ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 16:24 2021 Quant Results File: LSUR1129.RE

Method : M:\LOKI\DATA\211129\LSUR1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:59:30 2021
Response via : Initial Calibration



Data File : M:\LOKI\DATA\211129\1129L07.D Vial: 5
Acq On : 29 Nov 21 15:39 Operator:
Sample : 0.5ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 16:24 2021 Quant Results File: LSUR1129.RE

Quant Method : M:\LOKI\DATA\211129\LSUR1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:59:30 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	60232	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.78	117	52563	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D4 (IS	12.36	152	29762	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.45	113	4105	5.49	ppb	0.00
Spiked Amount 25.000			Recovery =	21.948%		
3) 1,2-DCA-D4(S)	5.87	65	4359	5.62	ppb	0.00
Spiked Amount 25.000			Recovery =	22.464%		
5) Toluene-D8(S)	8.18	98	11880	5.20	ppb	0.00
Spiked Amount 25.000			Recovery =	20.800%		
6) 4-Bromofluorobenzene(S)	11.07	174	4321	4.75	ppb	0.00
Spiked Amount 25.000			Recovery =	18.984%		

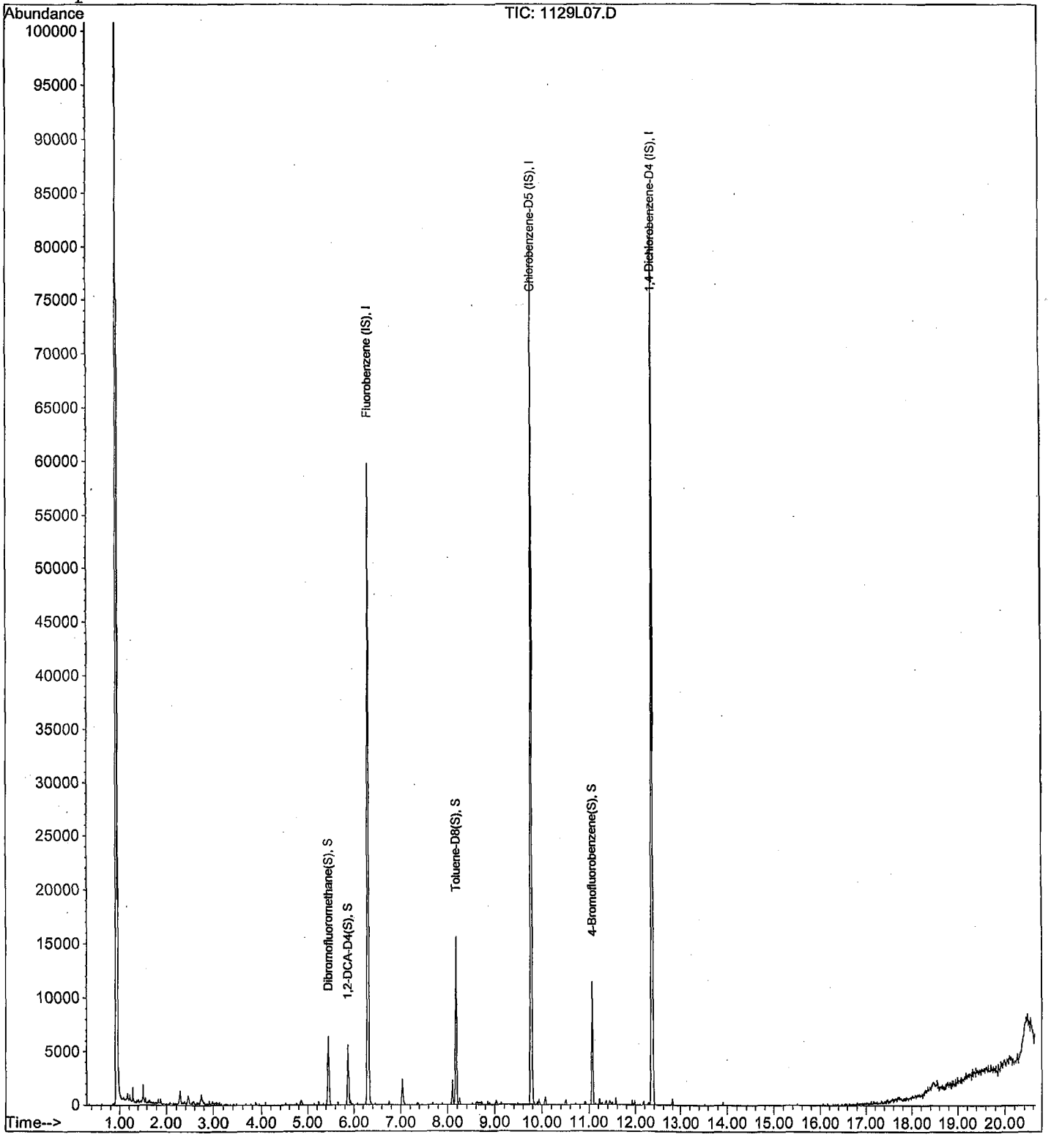
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
1129L07.D LSUR1129.M Wed Dec 01 16:27:23 2021 Page 1

Data File : M:\LOKI\DATA\211129\1129L07.D Vial: 5
Acq On : 29 Nov 21 15:39 Operator:
Sample : 0.5ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 16:24 2021 Quant Results File: LSUR1129.RE

Method : M:\LOKI\DATA\211129\LSUR1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:59:30 2021
Response via : Initial Calibration



Data File : M:\LOKI\DATA\211129\1129L08.D Vial: 6
Acq On : 29 Nov 21 16:07 Operator:
Sample : 1ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 16:25 2021 Quant Results File: LSUR1129.RI

Quant Method : M:\LOKI\DATA\211129\LSUR1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:59:30 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.31	96	59195	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.78	117	52852	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D4 (IS	12.36	152	31101	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.45	113	7083	9.63	ppb	0.00
Spiked Amount 25.000			Recovery =	38.532%		
3) 1,2-DCA-D4(S)	5.87	65	7580	9.94	ppb	0.00
Spiked Amount 25.000			Recovery =	39.744%		
5) Toluene-D8(S)	8.17	98	20275	8.83	ppb	0.00
Spiked Amount 25.000			Recovery =	35.304%		
6) 4-Bromofluorobenzene(S)	11.07	174	7940	8.67	ppb	0.00
Spiked Amount 25.000			Recovery =	34.696%		

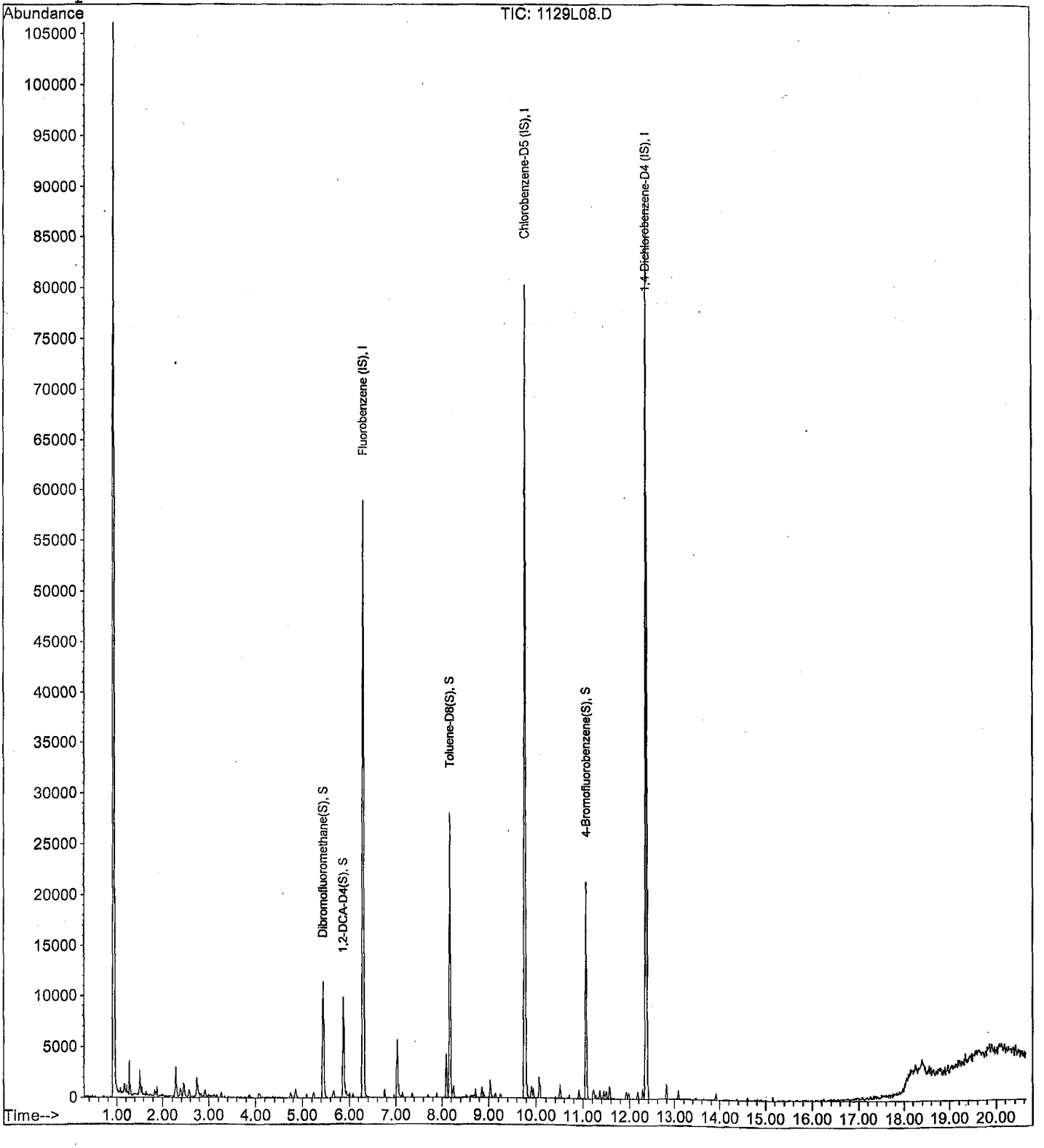
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
1129L08.D LSUR1129.M Wed Dec 01 16:27:24 2021 Page 1

Data File : M:\LOKI\DATA\211129\1129L08.D Vial: 6
Acq On : 29 Nov 21 16:07 Operator:
Sample : 1ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 16:25 2021 Quant Results File: LSUR1129.RE

Method : M:\LOKI\DATA\211129\LSUR1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:59:30 2021
Response via : Initial Calibration



Data File : M:\LOKI\DATA\211129\1129L09.D Vial: 7
Acq On : 29 Nov 21 16:34 Operator:
Sample : 2ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 16:25 2021 Quant Results File: LSUR1129.RE

Quant Method : M:\LOKI\DATA\211129\LSUR1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:59:30 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.31	96	60708	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.78	117	54676	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D4 (IS	12.36	152	31774	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.45	113	7220	9.57	ppb	0.00
Spiked Amount 25.000			Recovery = 38.296%			
3) 1,2-DCA-D4(S)	5.87	65	7509	9.60	ppb	0.00
Spiked Amount 25.000			Recovery = 38.392%			
5) Toluene-D8(S)	8.17	98	21489	9.04	ppb	0.00
Spiked Amount 25.000			Recovery = 36.172%			
6) 4-Bromofluorobenzene(S)	11.07	174	7567	7.99	ppb	0.00
Spiked Amount 25.000			Recovery = 31.960%			

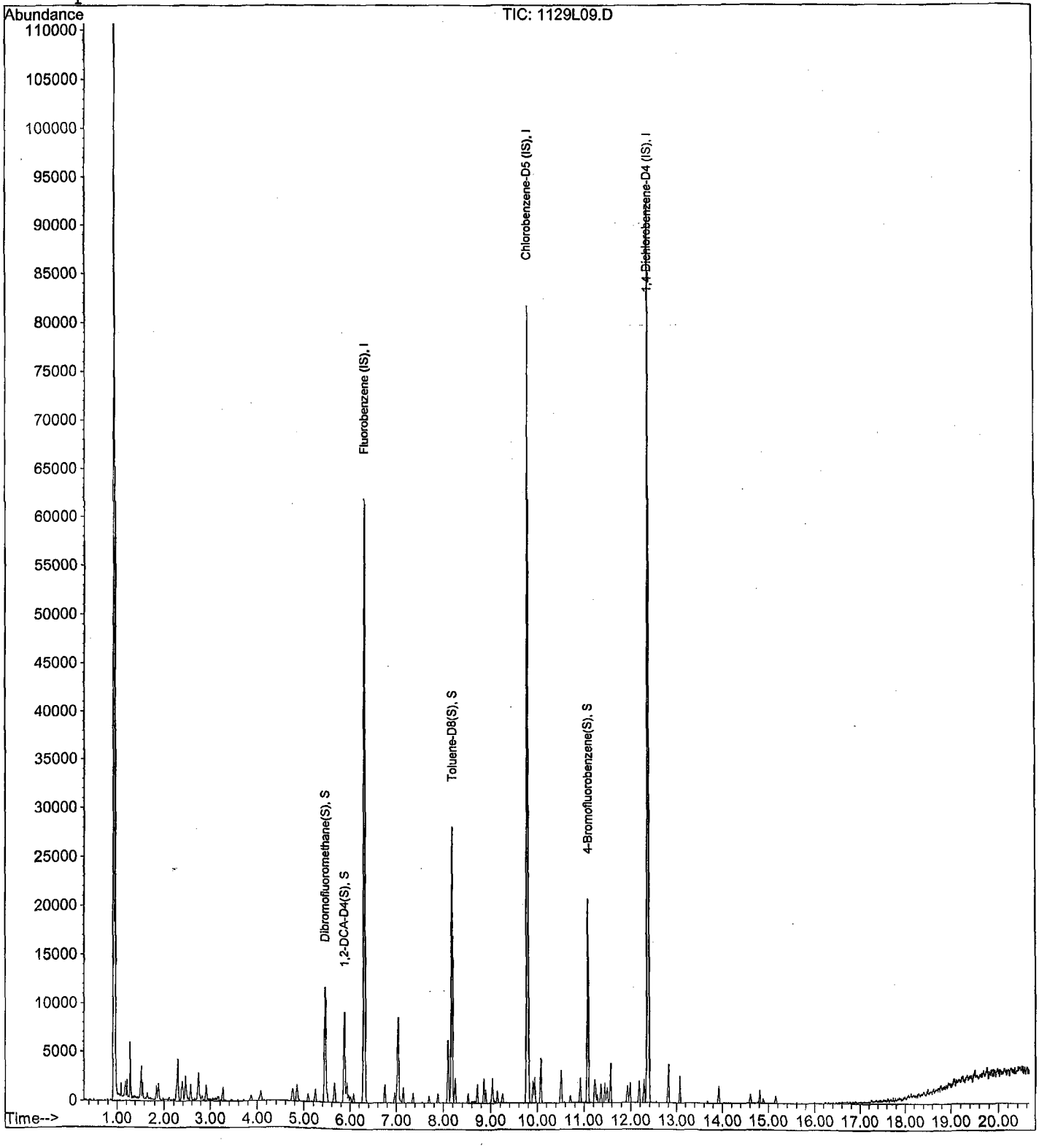
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
1129L09.D LSUR1129.M Wed Dec 01 16:27:24 2021 Page 1

Data File : M:\LOKI\DATA\211129\1129L09.D Vial: 7
Acq On : 29 Nov 21 16:34 Operator:
Sample : 2ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 16:25 2021 Quant Results File: LSUR1129.RE

Method : M:\LOKI\DATA\211129\LSUR1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:59:30 2021
Response via : Initial Calibration



Data File : M:\LOKI\DATA\211129\1129L10.D Vial: 8
Acq On : 29 Nov 21 17:02 Operator:
Sample : 5ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 16:25 2021 Quant Results File: LSUR1129.RE

Quant Method : M:\LOKI\DATA\211129\LSUR1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:59:30 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	61476	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.77	117	55788	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D4 (IS	12.36	152	36826	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.45	113	19012	24.90	ppb	0.00
Spiked Amount 25.000			Recovery =	99.584%		
3) 1,2-DCA-D4(S)	5.87	65	20121	25.40	ppb	0.00
Spiked Amount 25.000			Recovery =	101.584%		
5) Toluene-D8(S)	8.17	98	61199	25.24	ppb	0.00
Spiked Amount 25.000			Recovery =	100.960%		
6) 4-Bromofluorobenzene(S)	11.07	174	23387	24.20	ppb	0.00
Spiked Amount 25.000			Recovery =	96.812%		

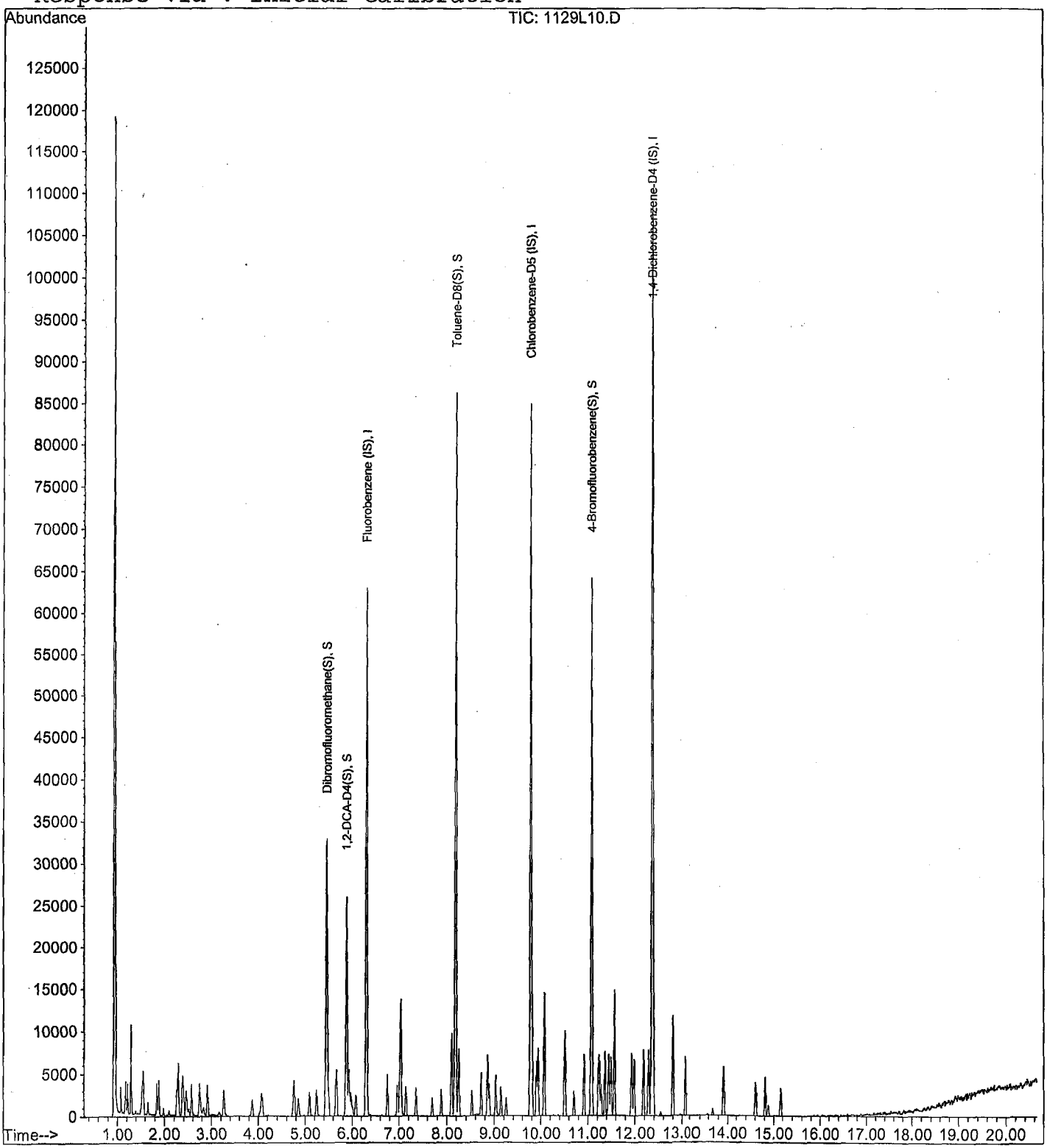
Target Compounds Qvalue

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

Data File : M:\LOKI\DATA\211129\1129L10.D Vial: 8
Acq On : 29 Nov 21 17:02 Operator:
Sample : 5ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 16:25 2021 Quant Results File: LSUR1129.RI

Method : M:\LOKI\DATA\211129\LSUR1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:59:30 2021
Response via : Initial Calibration



Data File : M:\LOKI\DATA\211129\1129L11.D Vial: 9
Acq On : 29 Nov 21 17:30 Operator:
Sample : 10ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 16:25 2021 Quant Results File: LSUR1129.RE

Quant Method : M:\LOKI\DATA\211129\LSUR1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:59:30 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	63065	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.78	117	55999	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D4 (IS	12.36	152	38835	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.45	113	19414	24.78	ppb	0.00
Spiked Amount 25.000			Recovery =	99.128%		
3) 1,2-DCA-D4(S)	5.87	65	20363	25.05	ppb	0.00
Spiked Amount 25.000			Recovery =	100.216%		
5) Toluene-D8(S)	8.18	98	62355	25.62	ppb	0.00
Spiked Amount 25.000			Recovery =	102.480%		
6) 4-Bromofluorobenzene(S)	11.07	174	24933	25.71	ppb	0.00
Spiked Amount 25.000			Recovery =	102.824%		

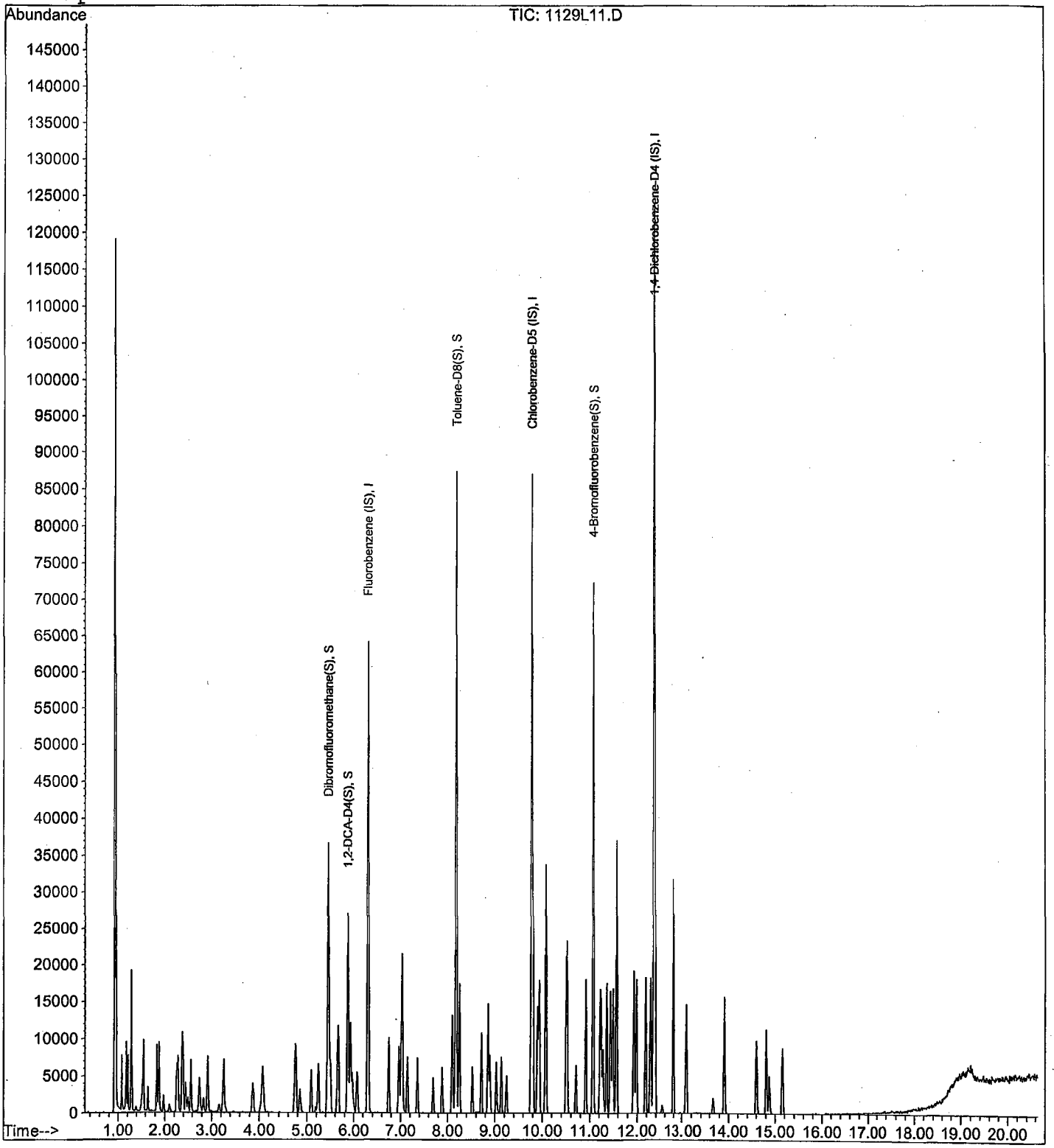
Target Compounds Qvalue

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

Data File : M:\LOKI\DATA\211129\1129L11.D Vial: 9
Acq On : 29 Nov 21 17:30 Operator:
Sample : 10ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 16:25 2021 Quant Results File: LSUR1129.RE

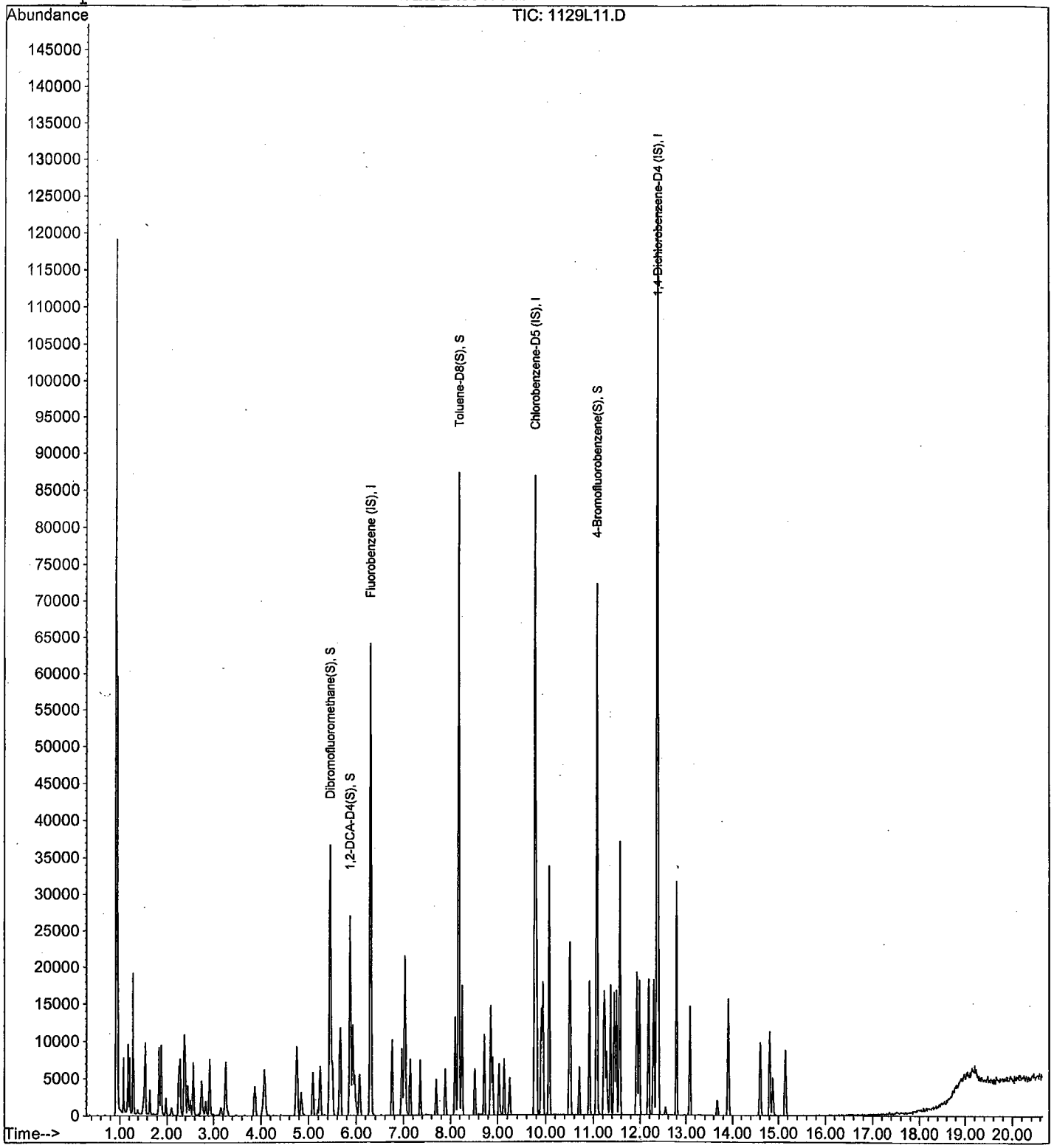
Method : M:\LOKI\DATA\211129\LSUR1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:59:30 2021
Response via : Initial Calibration



Data File : M:\LOKI\DATA\211129\1129L11.D Vial: 9
Acq On : 29 Nov 21 17:30 Operator:
Sample : 10ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 16:25 2021 Quant Results File: LSUR1129.RE

Method : M:\LOKI\DATA\211129\LSUR1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:59:30 2021
Response via : Initial Calibration



Acq On : 29 Nov 21 17:57 Operator:
Sample : 20ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 16:25 2021 Quant Results File: LSUR1129.RF

Quant Method : M:\LOKI\DATA\211129\LSUR1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:59:30 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	70045	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.77	117	60915	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D4 (IS	12.36	152	44236	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.45	113	41670	47.89	ppb	0.00
Spiked Amount 25.000			Recovery =	191.564%		
3) 1,2-DCA-D4(S)	5.87	65	42579	47.17	ppb	0.00
Spiked Amount 25.000			Recovery =	188.672%		
5) Toluene-D8(S)	8.18	98	141241	53.35	ppb	0.00
Spiked Amount 25.000			Recovery =	213.396%		
6) 4-Bromofluorobenzene(S)	11.07	174	57671	54.66	ppb	0.00
Spiked Amount 25.000			Recovery =	218.644%		

Target Compounds Qvalue

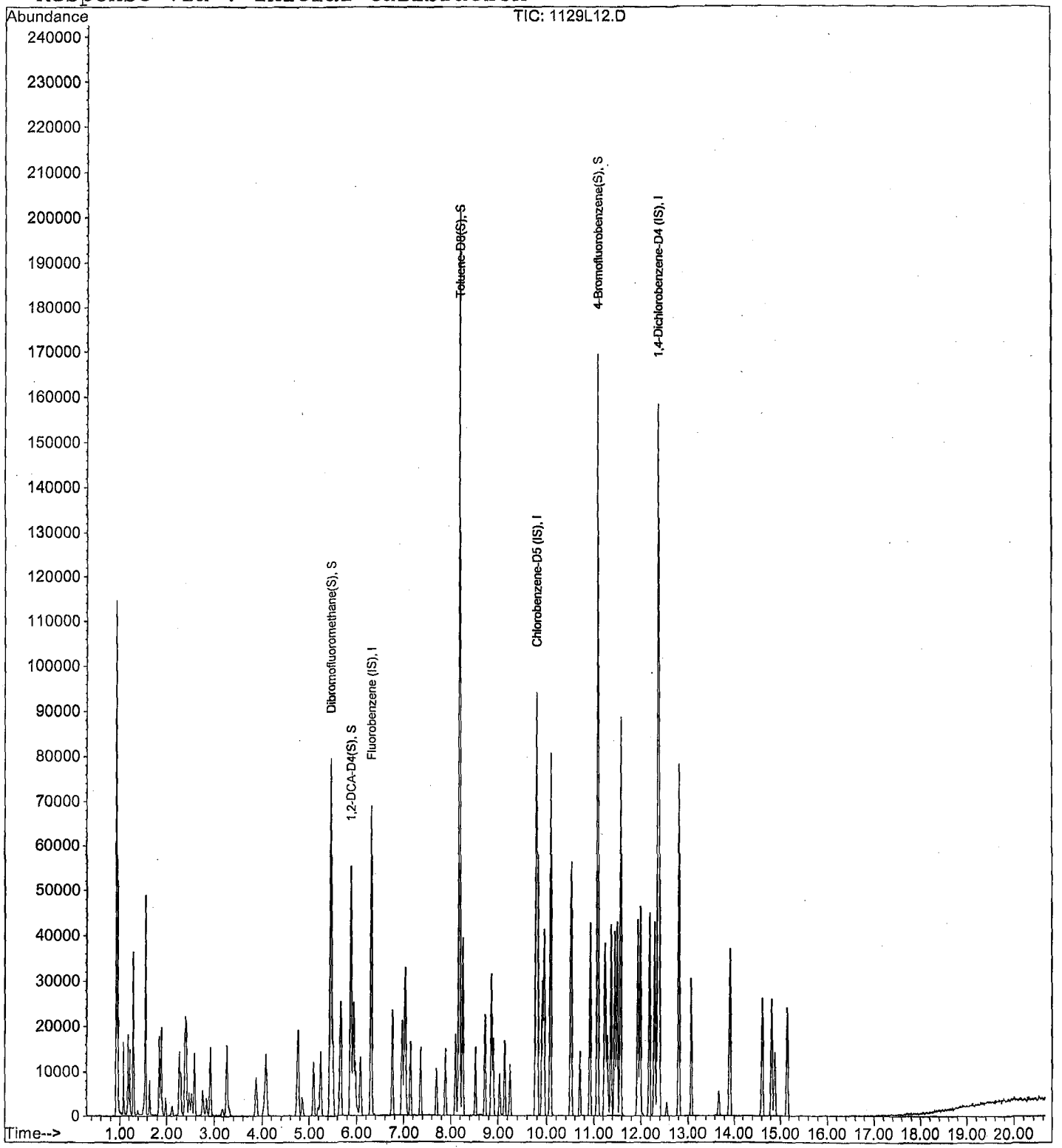
(#) = qualifier out of range (m) = manual integration
1129L12.D LSUR1129.M Wed Dec 01 16:27:27 2021 Page 1

Acq On : 29 Nov 21 17:57
Sample : 20ug/L VOC STD 11/29/21
Misc : IS&S: 9/1/21

Vial: 10
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Dec 1 16:25 2021 Quant Results File: LSUR1129.RI

Method : M:\LOKI\DATA\211129\LSUR1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:59:30 2021
Response via : Initial Calibration



Acq On : 29 Nov 21 18:25 Operator:
Sample : 40ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 16:25 2021 Quant Results File: LSUR1129.RI

Quant Method : M:\LOKI\DATA\211129\LSUR1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:59:30 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	71155	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.78	117	62470	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D4 (IS	12.36	152	44449	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.45	113	41752	47.24	ppb	0.00
Spiked Amount 25.000			Recovery = 188.948%			
3) 1,2-DCA-D4(S)	5.87	65	42955	46.84	ppb	0.00
Spiked Amount 25.000			Recovery = 187.368%			
5) Toluene-D8(S)	8.18	98	147548	54.34	ppb	0.00
Spiked Amount 25.000			Recovery = 217.376%			
6) 4-Bromofluorobenzene(S)	11.07	174	60504	55.92	ppb	0.00
Spiked Amount 25.000			Recovery = 223.676%			

Target Compounds Qvalue

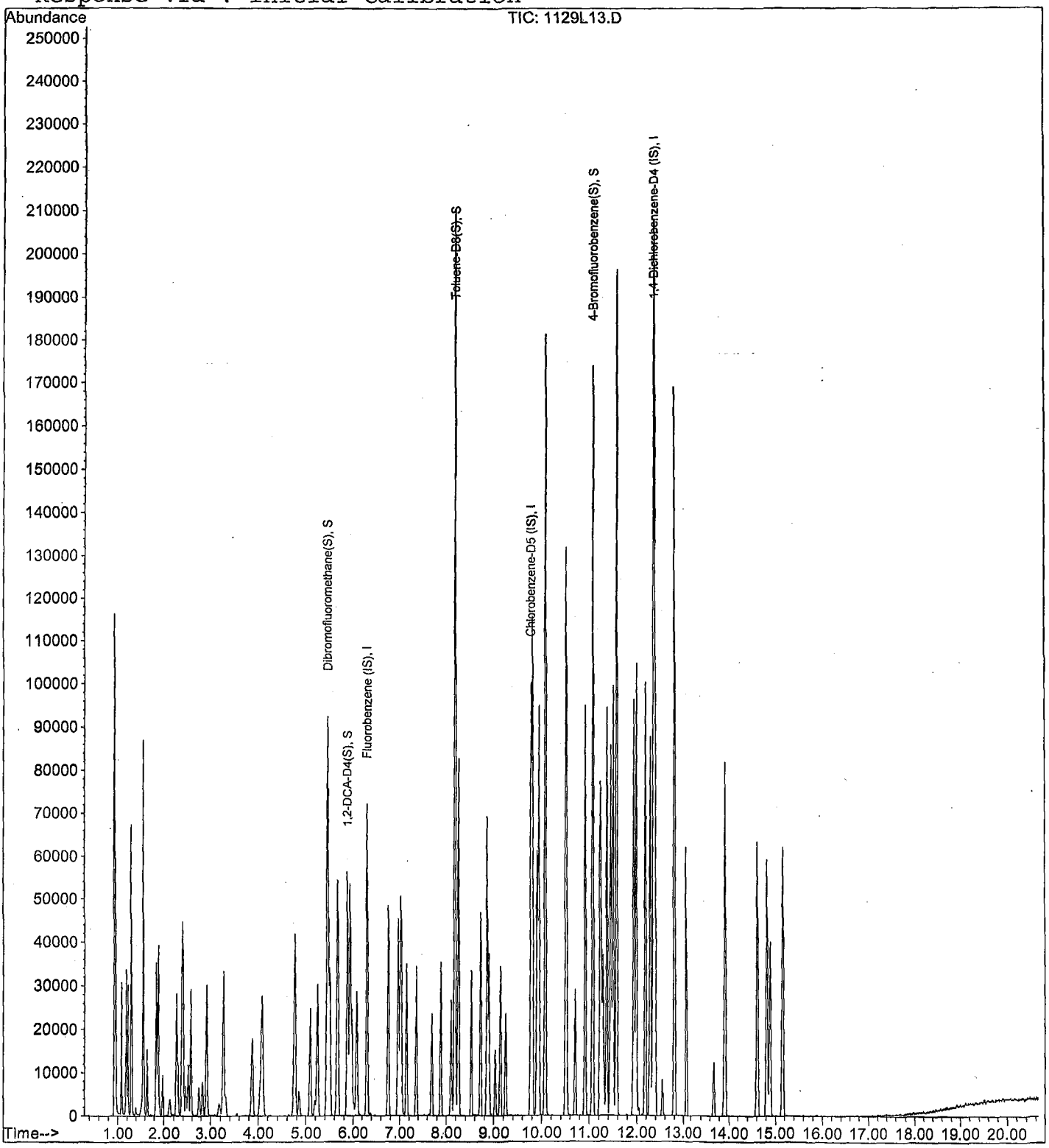
(#) = qualifier out of range (m) = manual integration

Vial: 11

Acq On : 29 Nov 21 18:25 Operator:
Sample : 40ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 16:25 2021 Quant Results File: LSUR1129.RI

Method : M:\LOKI\DATA\211129\LSUR1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:59:30 2021
Response via : Initial Calibration



Acq On : 29 Nov 21 18:53 Operator:
Sample : 100ug/L VOC STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

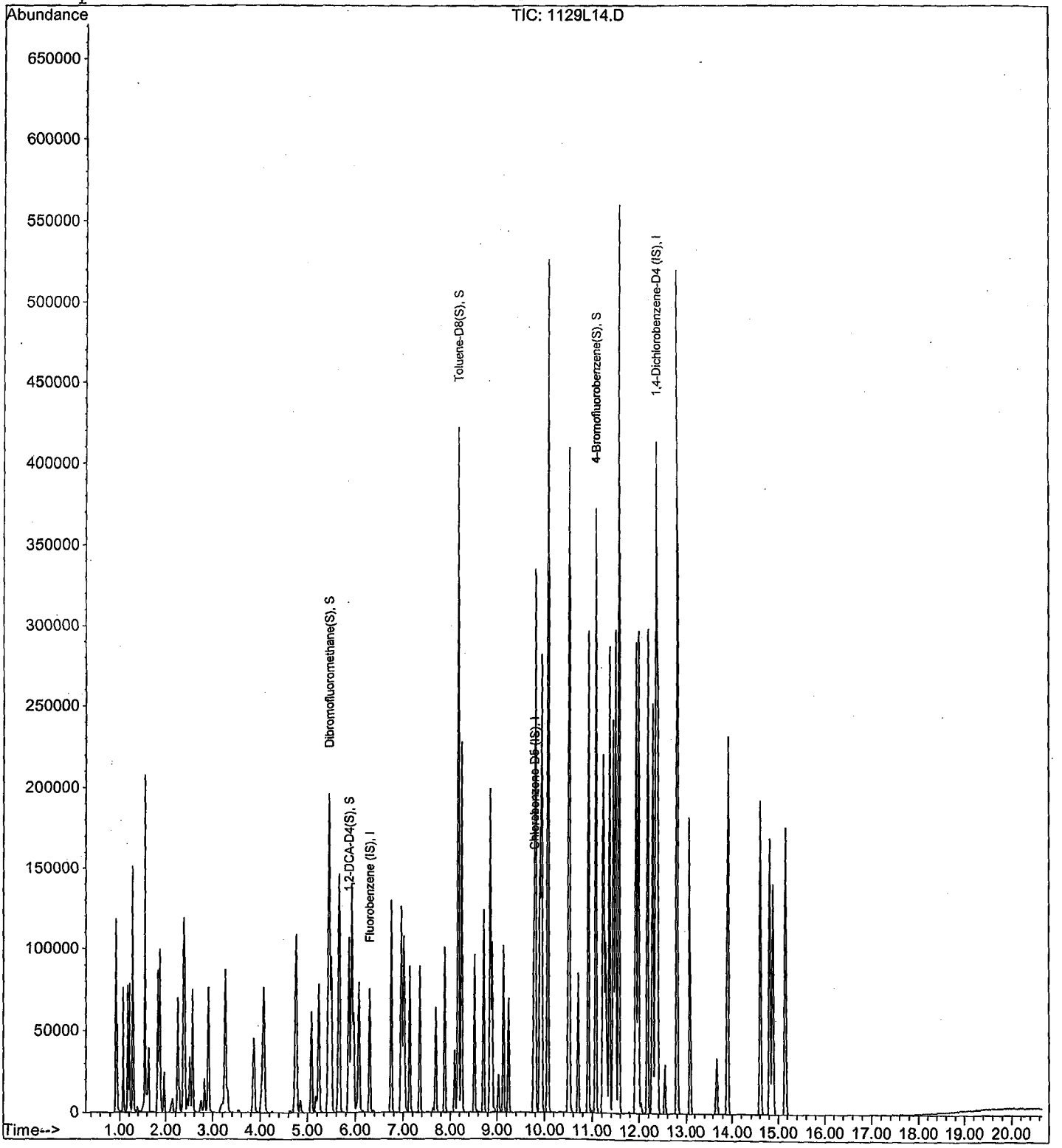
Quant Time: Dec 1 16:25 2021 Quant Results File: LSUR1129.RE

Quant Method : M:\LOKI\DATA\211129\LSUR1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:59:30 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	74637	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.78	117	70009	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D4 (IS	12.36	152	51004	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.45	113	80251	86.56	ppb	0.00
Spiked Amount 25.000			Recovery = 346.232%			
3) 1,2-DCA-D4(S)	5.87	65	80562	83.75	ppb	0.00
Spiked Amount 25.000			Recovery = 335.016%			
5) Toluene-D8(S)	8.17	98	296195	97.34	ppb	0.00
Spiked Amount 25.000			Recovery = 389.380%			
6) 4-Bromofluorobenzene(S)	11.07	174	135366	111.63	ppb	0.00
Spiked Amount 25.000			Recovery = 446.540%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
1129L14.D LSUR1129.M Wed Dec 01 16:27:29 2021 Page 1


Abundance
TIC: 1129L14.D
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Time-->
1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00 19.00 20.00
Dibromofluoromethane(S), S
1,2-DCA-D4(S), S
Fluorobenzene (IS), I
Toluene-D8(S), S
Chlorobenzene-D5 (IS), I
4-Bromofluorobenzene(S), S
1,4-Dichlorobenzene-D4 (IS), I

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

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

SDG No:
Date Analyzed: 11/29/2021
Instrument: Loki
Initial Cal. Date: 11/29/2021
Data File: 1129L25.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	S	Dibromofluoromethane(S)	0.3105	0.3028	2.5	S	
3	S	1,2-DCA-D4(S)	0.3222	0.3171	1.6	S	
4	I	Chlorobenzene-D5 (IS)	ISTD			I	
5	S	Toluene-D8(S)	1.087	1.054	3.0	S	
6	S	4-Bromofluorobenzene(S)	0.4330	0.4243	2.0	S	
7	I	1,4-Dichlorobenzene-D4 (IS)	ISTD			I	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
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22							
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24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			2.3		

Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L25.D Vial: 23
Acq On : 29 Nov 21 23:57 Operator:
Sample : (SS) 300ug/L GAS STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 12:04 2021 Quant Results File: LSUR1129.RES

Quant Method : M:\LOKI\DATA\211129\LSUR1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:59:30 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	64746	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.77	117	55062	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D4 (IS	12.36	152	33727	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.45	113	19608	24.38	ppb	0.00
Spiked Amount 25.000			Recovery =	97.520%		
3) 1,2-DCA-D4(S)	5.87	65	20528	24.60	ppb	0.00
Spiked Amount 25.000			Recovery =	98.408%		
5) Toluene-D8(S)	8.18	98	58056	24.26	ppb	0.00
Spiked Amount 25.000			Recovery =	97.040%		
6) 4-Bromofluorobenzene(S)	11.07	174	23364	24.50	ppb	0.00
Spiked Amount 25.000			Recovery =	97.992%		

Target Compounds Qvalue

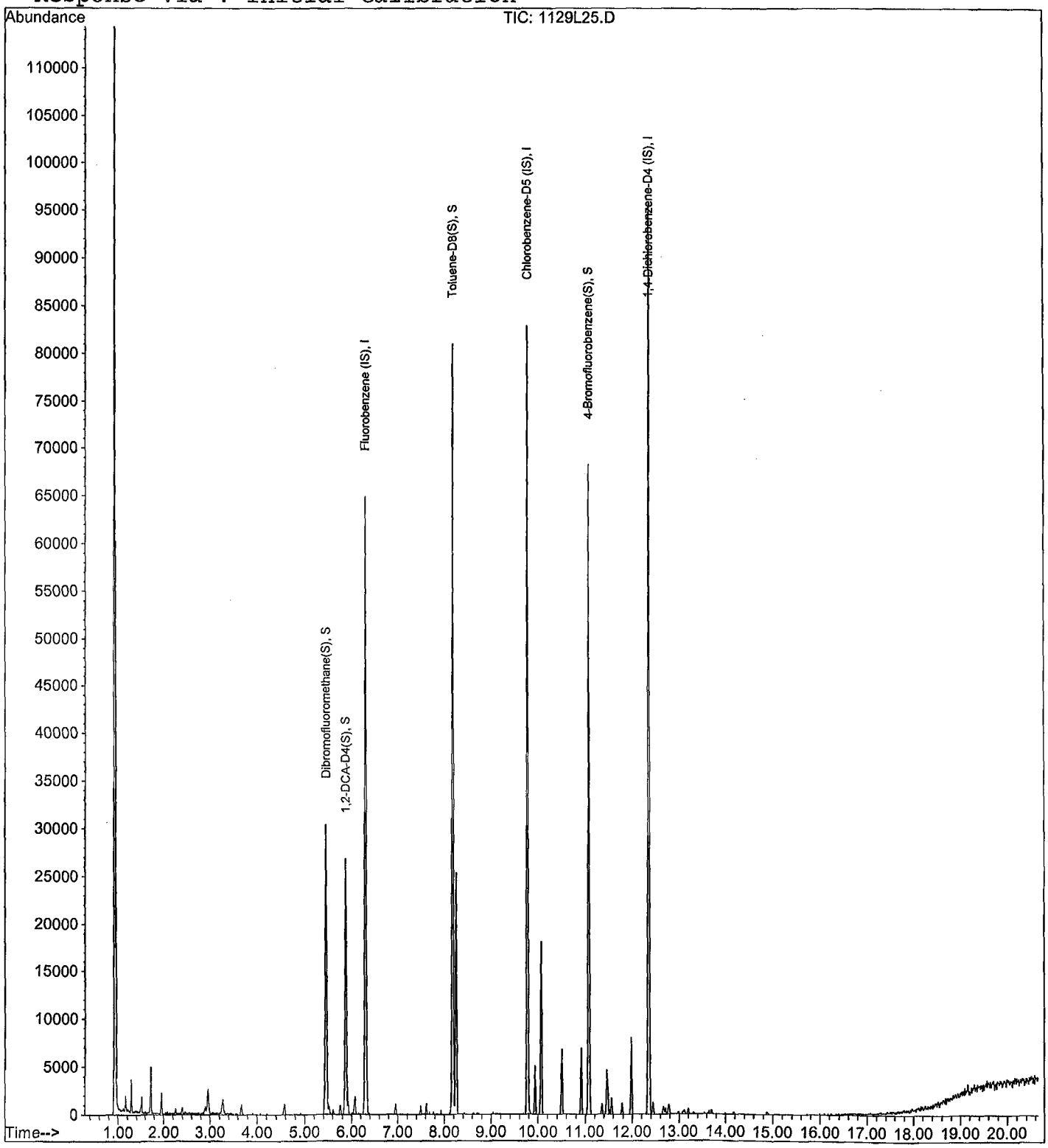
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LOKI\DATA\211129\1129L25.D Vial: 23
Acq On : 29 Nov 21 23:57 Operator:
Sample : (SS) 300ug/L GAS STD 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 12:04 2021 Quant Results File: LSUR1129.RES

Method : M:\LOKI\DATA\211129\LSUR1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:59:30 2021
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

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

SDG No:
Date Analyzed: 11/30/2021
Instrument: Loki
Initial Cal. Date: 11/29/2021
Data File: 1129L46.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	TMHB	Gasoline C6-C10	1.435	0.5190	64	TMHBL	14
3	I	Chlorobenzene-D5 (IS)	ISTD			I	
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
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31							
32							
33							
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35							
36							
37							
38							
39							
40							
		Average			64.0		

Quantitation Report (QT Reviewed)

Data File : M:\LOKI\DATA\211129\1129L46.D Vial: 44
Acq On : 30 Nov 21 9:37 Operator:
Sample : Ending CCV 300ug/L 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 12:12 2021 Quant Results File: LGAS1129.RES

Quant Method : M:\LOKI\DATA\211129\LGAS1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:45:27 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.31	TIC	122888	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.36	TIC	177009	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	0.00	TIC	0	0.00	ppb	-12.54
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline C6-C10	8.18	TIC	765345m	340.87	ppb	100

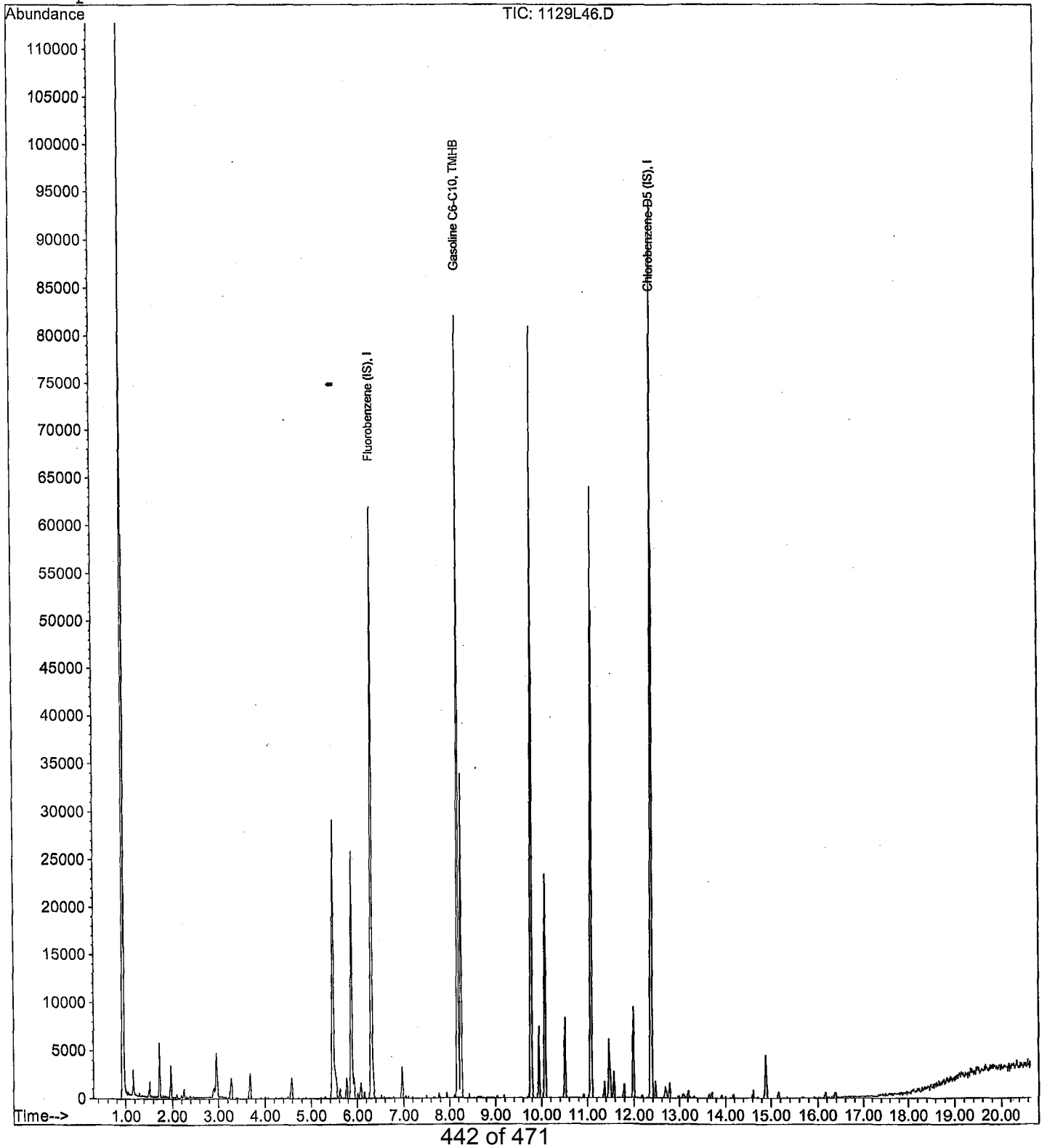
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LOKI\DATA\211129\1129L46.D Vial: 44
Acq On : 30 Nov 21 9:37 Operator:
Sample : Ending CCV 300ug/L 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 12:12 2021 Quant Results File: LGAS1129.RES

Method : M:\LOKI\DATA\211129\LGAS1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:45:27 2021
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

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

SDG No:
Date Analyzed: 11/30/2021
Instrument: Loki
Initial Cal. Date: 11/29/2021
Data File: 1129L46.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	S	Dibromofluoromethane(S)	0.3105	0.2999	3.4	S	
3	S	1,2-DCA-D4(S)	0.3222	0.3167	1.7	S	
4	I	Chlorobenzene-D5 (IS)	ISTD			I	
5	S	Toluene-D8(S)	1.087	1.065	2.0	S	
6	S	4-Bromofluorobenzene(S)	0.4330	0.4211	2.7	S	
7	I	1,4-Dichlorobenzene-D4 (IS)	ISTD			I	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
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28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			2.5		

Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L46.D Vial: 44
Acq On : 30 Nov 21 9:37 Operator:
Sample : Ending CCV 300ug/L 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 12:13 2021 Quant Results File: LSUR1129.RES

Quant Method : M:\LOKI\DATA\211129\LSUR1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:59:30 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.31	96	61750	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.77	117	53487	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D4 (IS	12.36	152	32381	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.45	113	18516	24.14	ppb	0.00
Spiked Amount 25.000			Recovery =	96.556%		
3) 1,2-DCA-D4(S)	5.87	65	19555	24.57	ppb	0.00
Spiked Amount 25.000			Recovery =	98.292%		
5) Toluene-D8(S)	8.18	98	56983	24.51	ppb	0.00
Spiked Amount 25.000			Recovery =	98.048%		
6) 4-Bromofluorobenzene(S)	11.07	174	22524	24.31	ppb	0.00
Spiked Amount 25.000			Recovery =	97.252%		

Target Compounds Qvalue

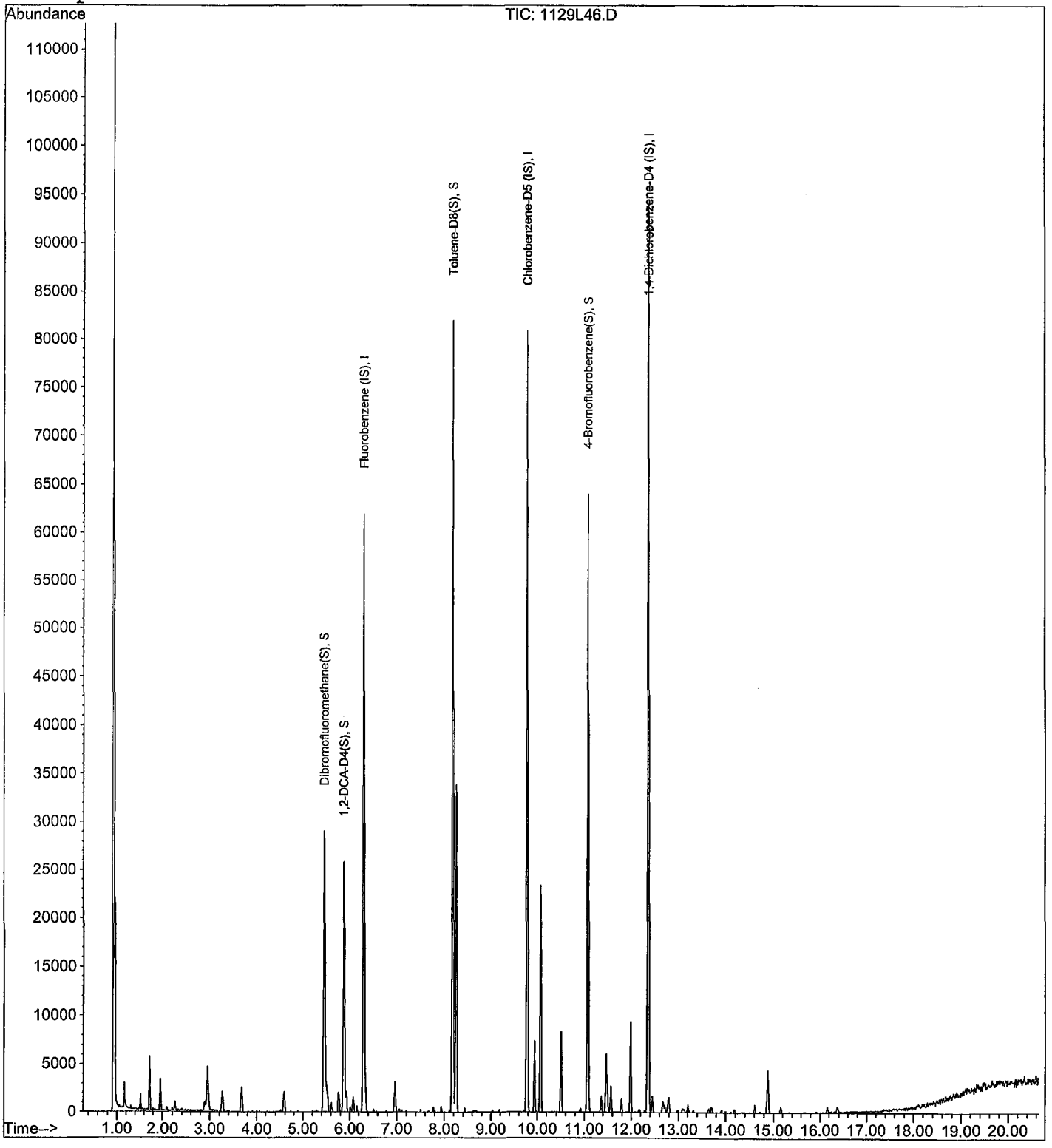
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LOKI\DATA\211129\1129L46.D Vial: 44
Acq On : 30 Nov 21 9:37 Operator:
Sample : Ending CCV 300ug/L 11/29/21 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 12:13 2021 Quant Results File: LSUR1129.RES

Method : M:\LOKI\DATA\211129\LSUR1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:59:30 2021
Response via : Initial Calibration



ORGANICS
Raw Data

Quantitation Report (QT Reviewed)

Data File : M:\LOKI\DATA\211129\1129L35.D Vial: 33
Acq On : 30 Nov 21 4:33 Operator:
Sample : BA46713W01 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 12:16 2021 Quant Results File: LGAS1129.RES

Quant Method : M:\LOKI\DATA\211129\LGAS1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:45:27 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.31	TIC	116554	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.36	TIC	156903	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	0.00	TIC	0	0.00	ppb	-12.54

System Monitoring Compounds

Target Compounds Qvalue

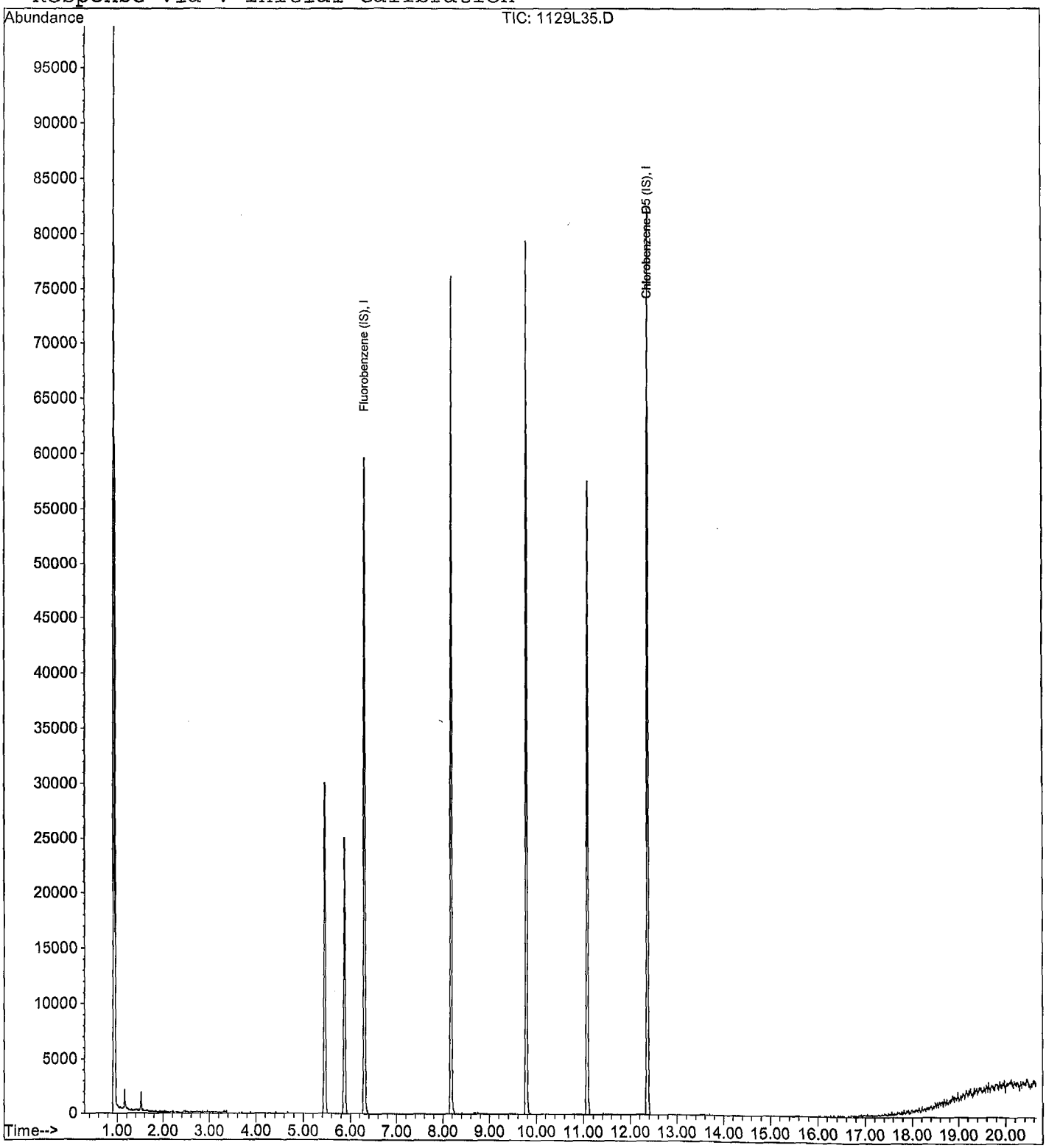
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LOKI\DATA\211129\1129L35.D Vial: 33
Acq On : 30 Nov 21 4:33 Operator:
Sample : BA46713W01 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 12:16 2021 Quant Results File: LGAS1129.RES

Method : M:\LOKI\DATA\211129\LGAS1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:45:27 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L35.D Vial: 33
Acq On : 30 Nov 21 4:33 Operator:
Sample : BA46713W01 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 12:22 2021 Quant Results File: LSUR1129.RES

Quant Method : M:\LOKI\DATA\211129\LSUR1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:59:30 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.31	96	58630	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.78	117	51881	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D4 (IS	12.36	152	29651	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.46	113	18111	24.87	ppb	0.00
Spiked Amount 25.000			Recovery =	99.472%		
3) 1,2-DCA-D4(S)	5.87	65	19062	25.23	ppb	0.00
Spiked Amount 25.000			Recovery =	100.912%		
5) Toluene-D8(S)	8.18	98	53706	23.82	ppb	0.00
Spiked Amount 25.000			Recovery =	95.272%		
6) 4-Bromofluorobenzene(S)	11.07	174	19645	21.86	ppb	0.00
Spiked Amount 25.000			Recovery =	87.448%		

Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data File : M:\LOKI\DATA\211129\1129L36.D Vial: 34
Acq On : 30 Nov 21 5:00 Operator:
Sample : BA46714W01 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 5.00

Quant Time: Dec 1 12:17 2021 Quant Results File: LGAS1129.RES

Quant Method : M:\LOKI\DATA\211129\LGAS1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:45:27 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	TIC	114838	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.36	TIC	159451	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	0.00	TIC	0	0.00	ppb	-12.54

System Monitoring Compounds

Target Compounds Qvalue

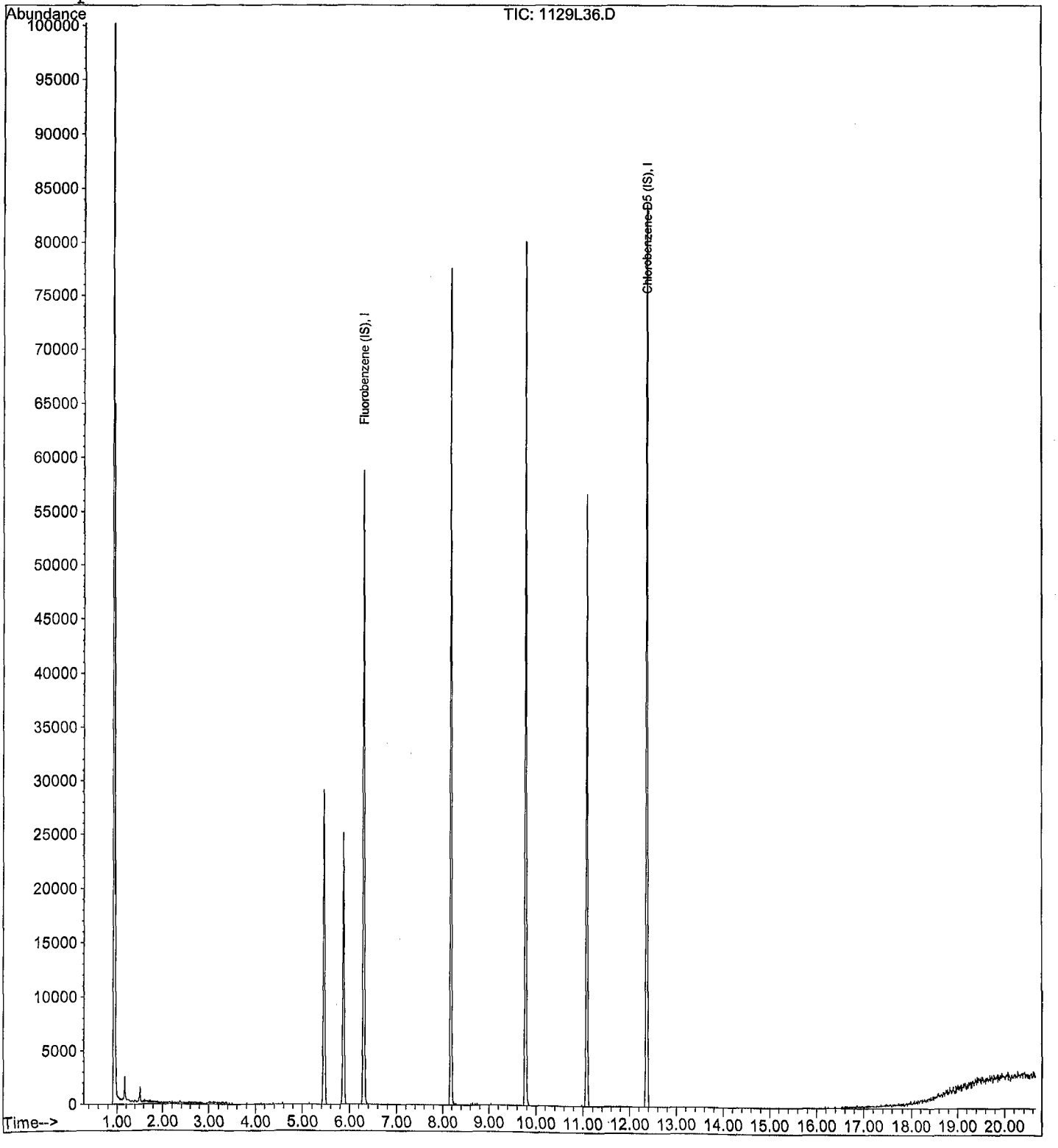
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LOKI\DATA\211129\1129L36.D Vial: 34
Acq On : 30 Nov 21 5:00 Operator:
Sample : BA46714W01 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 5.00

Quant Time: Dec 1 12:17 2021 Quant Results File: LGAS1129.RES

Method : M:\LOKI\DATA\211129\LGAS1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:45:27 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L36.D Vial: 34
Acq On : 30 Nov 21 5:00 Operator:
Sample : BA46714W01 Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 5.00

Quant Time: Dec 1 12:22 2021 Quant Results File: LSUR1129.RES

Quant Method : M:\LOKI\DATA\211129\LSUR1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:59:30 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	58913	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.78	117	52215	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D4 (IS	12.36	152	29863	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.45	113	18202	24.87	ppb	0.00
Spiked Amount 25.000			Recovery = 99.492%			
3) 1,2-DCA-D4(S)	5.87	65	19396	25.55	ppb	0.00
Spiked Amount 25.000			Recovery = 102.184%			
5) Toluene-D8(S)	8.18	98	54881	24.18	ppb	0.00
Spiked Amount 25.000			Recovery = 96.732%			
6) 4-Bromofluorobenzene(S)	11.07	174	20371	22.52	ppb	0.00
Spiked Amount 25.000			Recovery = 90.100%			

Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data File : M:\LOKI\DATA\211129\1129L31.D Vial: 29
Acq On : 30 Nov 21 2:42 Operator:
Sample : 211129A BLK Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 12:09 2021 Quant Results File: LGAS1129.RES

Quant Method : M:\LOKI\DATA\211129\LGAS1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:45:27 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	TIC	123859	25.00 ppb	0.00
3) Chlorobenzene-D5 (IS)	12.36	TIC	173765	25.00 ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	0.00	TIC	0	0.00 ppb	-12.54

System Monitoring Compounds

Target Compounds Qvalue

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

Quantitation Report

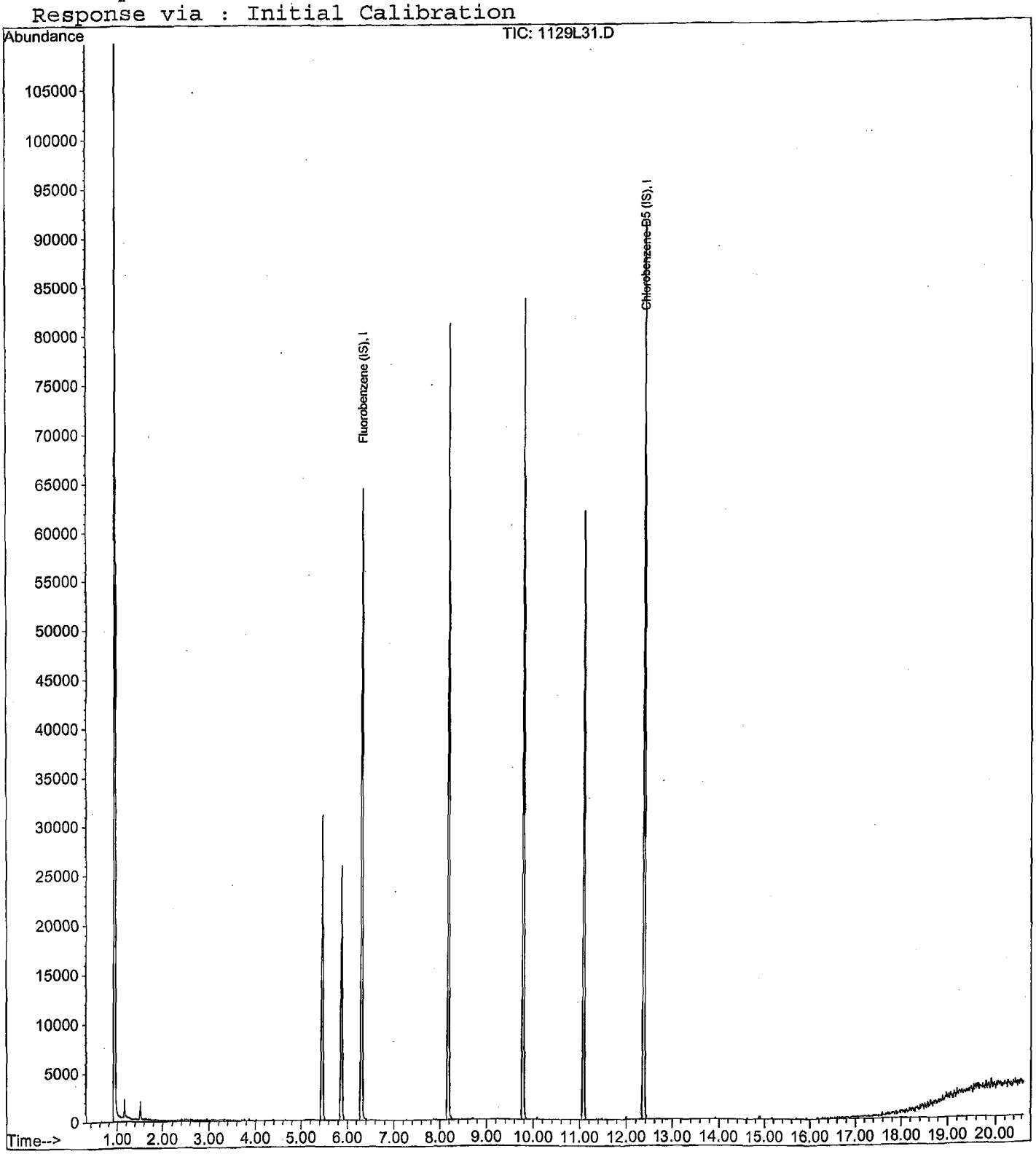
Data File : M:\LOKI\DATA\211129\1129L31.D
Acq On : 30 Nov 21 2:42
Sample : 211129A BLK
Misc : IS&S: 9/1/21

Vial: 29
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Dec 1 12:09 2021

Quant Results File: LGAS1129.RES

Method : M:\LOKI\DATA\211129\LGAS1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:45:27 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L31.D Vial: 29
Acq On : 30 Nov 21 2:42 Operator:
Sample : 211129A BLK Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 12:10 2021 Quant Results File: LSUR1129.RES

Quant Method : M:\LOKI\DATA\211129\LSUR1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:59:30 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	62893	25.00 ppb	0.00
4) Chlorobenzene-D5 (IS)	9.78	117	54621	25.00 ppb	0.00
7) 1,4-Dichlorobenzene-D4 (IS	12.36	152	33012	25.00 ppb	0.00
System Monitoring Compounds					
2) Dibromofluoromethane(S)	5.45	113	19514	24.98 ppb	0.00
Spiked Amount 25.000			Recovery =	99.912%	
3) 1,2-DCA-D4(S)	5.87	65	19619	24.20 ppb	0.00
Spiked Amount 25.000			Recovery =	96.820%	
5) Toluene-D8(S)	8.18	98	57369	24.17 ppb	0.00
Spiked Amount 25.000			Recovery =	96.664%	
6) 4-Bromofluorobenzene(S)	11.07	174	21530	22.76 ppb	0.00
Spiked Amount 25.000			Recovery =	91.032%	

Target Compounds Qvalue

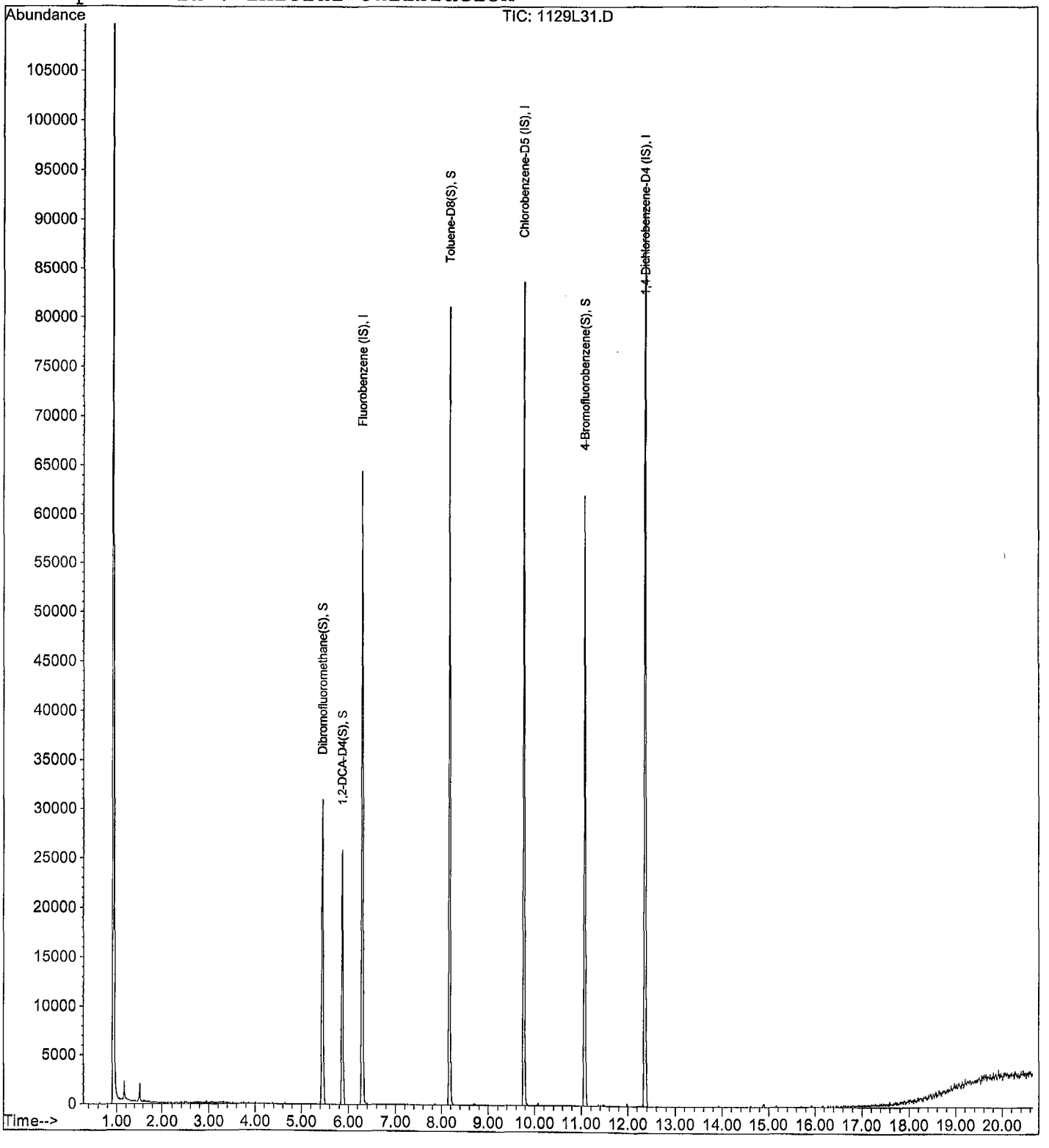
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LOKI\DATA\211129\1129L31.D Vial: 29
Acq On : 30 Nov 21 2:42 Operator:
Sample : 211129A BLK Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 12:10 2021 Quant Results File: LSUR1129.RES

Method : M:\LOKI\DATA\211129\LSUR1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:59:30 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LOKI\DATA\211129\1129L29.D Vial: 27
Acq On : 30 Nov 21 1:47 Operator:
Sample : 211129A LCS 300ug/L Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 11:47 2021 Quant Results File: LGAS1129.RES

Quant Method : M:\LOKI\DATA\211129\LGAS1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:45:27 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.31	TIC	135486	25.00 ppb	0.00
3) Chlorobenzene-D5 (IS)	12.36	TIC	194370	25.00 ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	0.00	TIC	0	0.00 ppb	-12.54
System Monitoring Compounds					
Target Compounds					Qvalue
2) Gasoline C6-C10	9.78	TIC	828979m	324.70 ppb	100

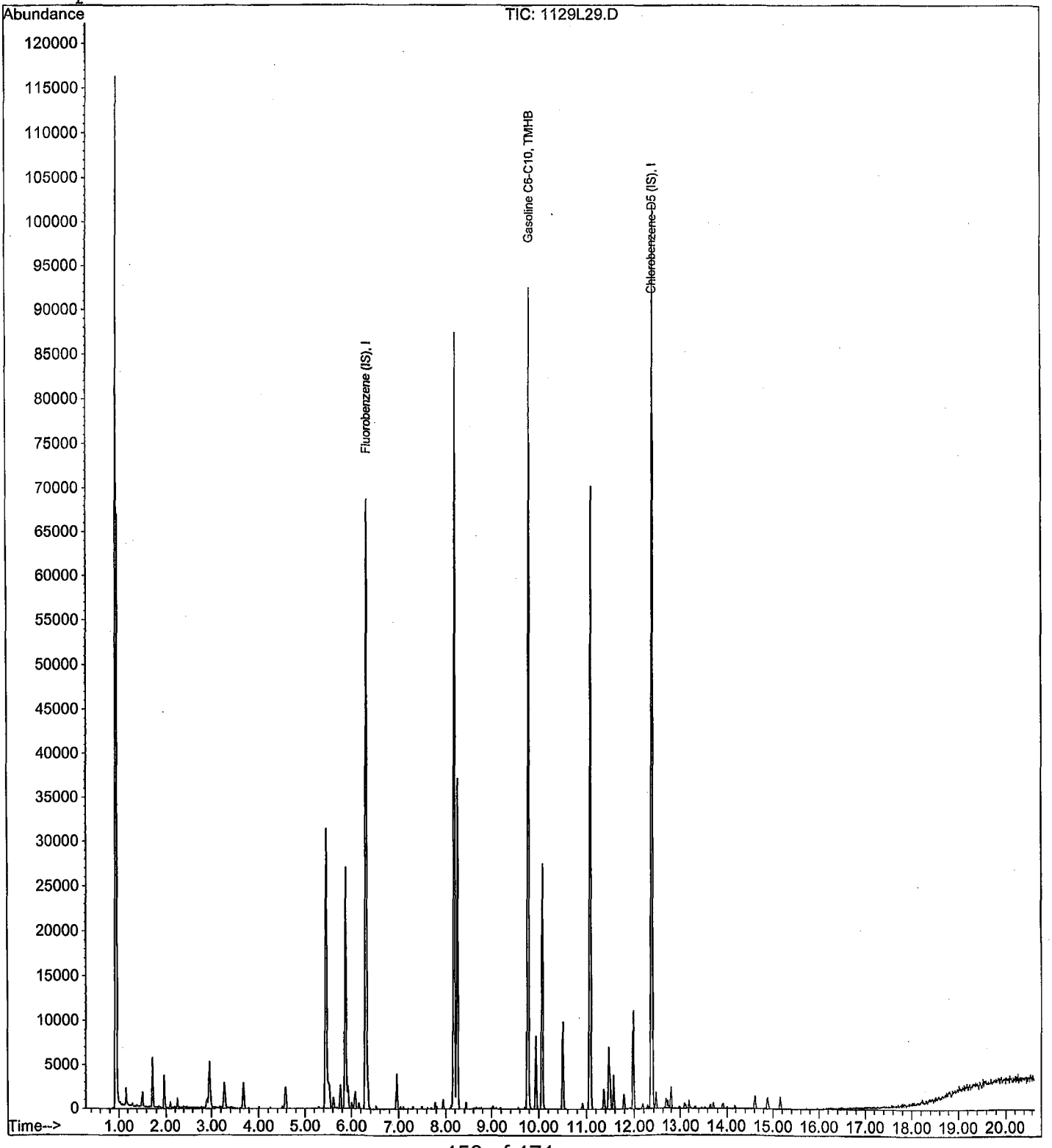
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LOKI\DATA\211129\1129L29.D Vial: 27
Acq On : 30 Nov 21 1:47 Operator:
Sample : 211129A LCS 300ug/L Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 11:47 2021 Quant Results File: LGAS1129.RES

Method : M:\LOKI\DATA\211129\LGAS1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:45:27 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L29.D Vial: 27
Acq On : 30 Nov 21 1:47 Operator:
Sample : 211129A LCS 300ug/L Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 12:04 2021 Quant Results File: LSUR1129.RES

Quant Method : M:\LOKI\DATA\211129\LSUR1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:59:30 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.31	96	68190	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.78	117	58685	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D4 (IS	12.36	152	36960	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.46	113	19828	23.41	ppb	0.00
Spiked Amount 25.000			Recovery =	93.632%		
3) 1,2-DCA-D4(S)	5.87	65	20608	23.45	ppb	0.00
Spiked Amount 25.000			Recovery =	93.800%		
5) Toluene-D8(S)	8.18	98	62862	24.65	ppb	0.00
Spiked Amount 25.000			Recovery =	98.584%		
6) 4-Bromofluorobenzene(S)	11.07	174	25000	24.60	ppb	0.00
Spiked Amount 25.000			Recovery =	98.384%		

Target Compounds Qvalue

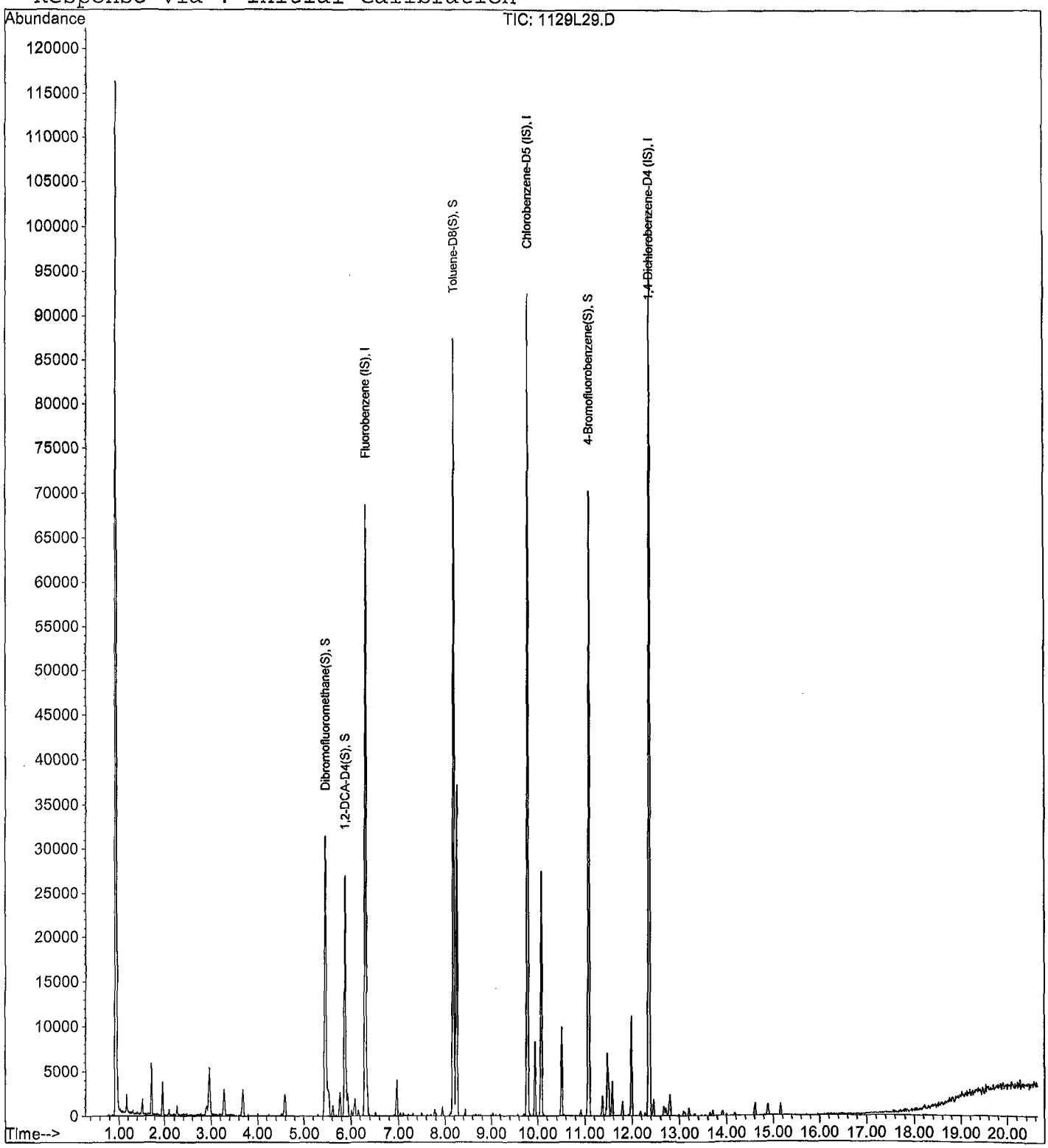
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LOKI\DATA\211129\1129L29.D Vial: 27
Acq On : 30 Nov 21 1:47 Operator:
Sample : 211129A LCS 300ug/L Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 12:04 2021 Quant Results File: LSUR1129.RES

Method : M:\LOKI\DATA\211129\LSUR1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:59:30 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LOKI\DATA\211129\1129L30.D Vial: 28
Acq On : 30 Nov 21 2:15 Operator:
Sample : 211129A LCSD 300ug/L Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 11:47 2021 Quant Results File: LGAS1129.RE

Quant Method : M:\LOKI\DATA\211129\LGAS1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:45:27 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.31	TIC	127667	25.00 ppb	0.00
3) Chlorobenzene-D5 (IS)	12.36	TIC	184062	25.00 ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	0.00	TIC	0	0.00 ppb	-12.54
System Monitoring Compounds					
Target Compounds					Qvalue
2) Gasoline C6-C10	8.18	TIC	754242m	293.55 ppb	100

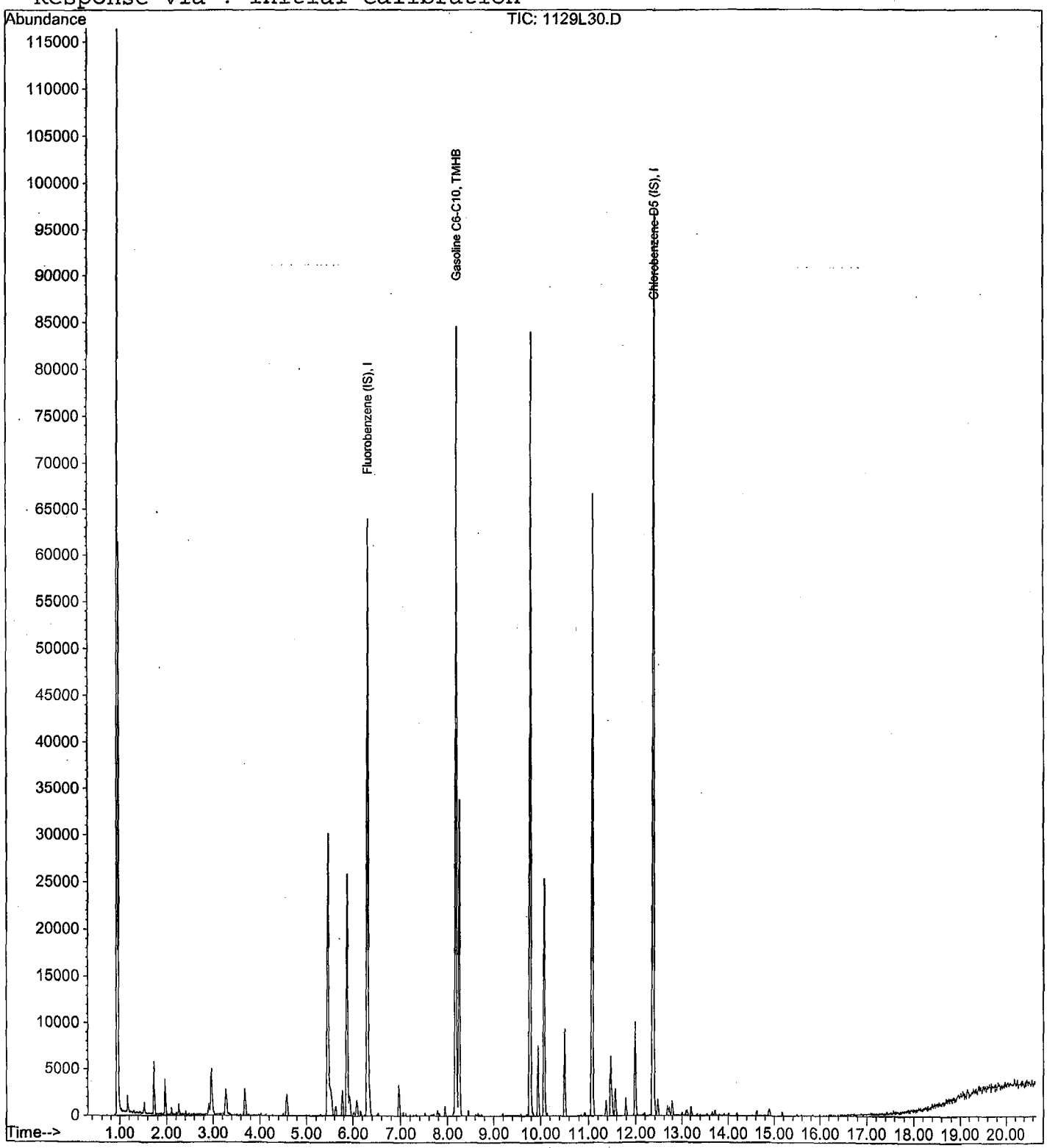
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LOKI\DATA\211129\1129L30.D Vial: 28
Acq On : 30 Nov 21 2:15 Operator:
Sample : 211129A LCSD 300ug/L Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 11:47 2021 Quant Results File: LGAS1129.RES

Method : M:\LOKI\DATA\211129\LGAS1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:45:27 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\211129\1129L30.D Vial: 28
Acq On : 30 Nov 21 2:15 Operator:
Sample : 211129A LCSD 300ug/L Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 12:04 2021 Quant Results File: LSUR1129.RES

Quant Method : M:\LOKI\DATA\211129\LSUR1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:59:30 2021
Response via : Initial Calibration
DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.31	96	64044	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.78	117	55482	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D4 (IS	12.36	152	34300	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.45	113	19062	23.96	ppb	0.00
Spiked Amount 25.000			Recovery = 95.844%			
3) 1,2-DCA-D4(S)	5.87	65	19815	24.01	ppb	0.00
Spiked Amount 25.000			Recovery = 96.028%			
5) Toluene-D8(S)	8.18	98	60177	24.96	ppb	0.00
Spiked Amount 25.000			Recovery = 99.824%			
6) 4-Bromofluorobenzene(S)	11.07	174	23692	24.65	ppb	0.00
Spiked Amount 25.000			Recovery = 98.616%			

Target Compounds Qvalue

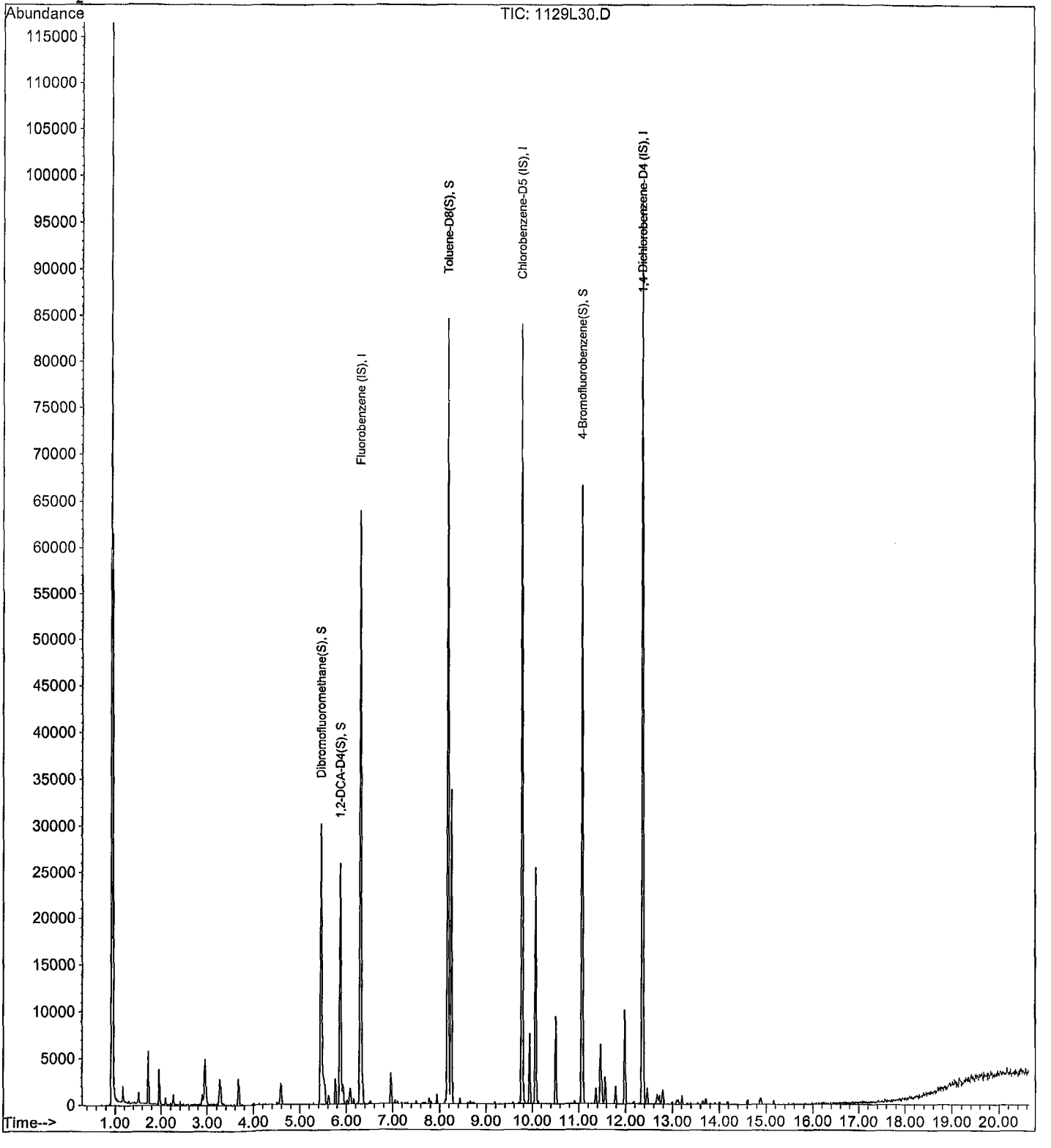
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LOKI\DATA\211129\1129L30.D Vial: 28
Acq On : 30 Nov 21 2:15 Operator:
Sample : 211129A LCSD 300ug/L Inst : Loki
Misc : IS&S: 9/1/21 Multiplr: 1.00

Quant Time: Dec 1 12:04 2021 Quant Results File: LSUR1129.RES

Method : M:\LOKI\DATA\211129\LSUR1129.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Dec 01 11:59:30 2021
Response via : Initial Calibration



LOKI 8260 Standard Prep

LOKI 8260 Water Calibration Curve

Prepared By (Initials): CH

0.3ug/L

Prepared: 11/29/2021

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: 11/29/2021

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: 11/29/2021

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: 11/29/2021

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: 11/29/2021

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: 11/29/2021

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: 11/29/2021

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: 11/29/2021

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: 11/29/2021

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

LOKI 8260 Water Second Source (SS)

Prepared: 11/29/2021

Prepared By (Initials): CH

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: 11/29/2021

Prepared By (Initials): CH

Expires: 11/30/2021

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

THOR Gas Standard Prep

Gas Primary Working Standard

Prepared: 8/6/2021 — **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	80uL	2mL	Methanol	2,000

LOKI Gas Calibration Curve

Prepared: 11/29/2021 — **Prepared By (Initials): CH**

Expires: 1/28/2022

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 08/06/21	1/4/2022	N/A	1uL	100mL	P&T Water	20
VOA Gasses Standards	Phenova	50ug/L	2,000	Prepared 08/06/21	1/4/2022	N/A	2.5uL	100mL	P&T Water	50
VOA Gasses Standards	Phenova	100ug/L	2,000	Prepared 08/06/21	1/4/2022	N/A	5uL	100mL	P&T Water	100
VOA Gasses Standards	Phenova	300ug/L	2,000	Prepared 08/06/21	1/4/2022	N/A	15uL	100mL	P&T Water	300
VOA Gasses Standards	Phenova	600ug/L	2,000	Prepared 08/06/21	1/4/2022	N/A	30uL	100mL	P&T Water	600
VOA Gasses Standards	Phenova	800ug/L	2,000	Prepared 08/06/21	1/4/2022	N/A	40uL	100mL	P&T Water	800
VOA Gasses Standards	Phenova	1,000ug/L	2,000	Prepared 08/06/21	1/4/2022	N/A	50uL	100mL	P&T Water	1,000

Zeus Gas Second Source

Prepared: 11/29/2021 — **Prepared By (Initials): CH**

Expires: 1/28/2022

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

THOR Gas Continuing Calibrations/Lab Control Spikes

Prepared: 11/29/2021 — **Prepared By (Initials): CH**

Expires: 11/30/2021

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 08/06/21	1/4/2022	N/A	15uL	100mL	P&T Water	300

Injection Log

Directory: M:\LOKI\DATA\211129\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	4	1129L06.D	1	0.3ug/L VOC STD 11/29/21	IS&S: 9/1/21	29 Nov 21 15:11
2	5	1129L07.D	1	0.5ug/L VOC STD 11/29/21	IS&S: 9/1/21	29 Nov 21 15:39
3	6	1129L08.D	1	1ug/L VOC STD 11/29/21	IS&S: 9/1/21	29 Nov 21 16:07
4	7	1129L09.D	1	2ug/L VOC STD 11/29/21	IS&S: 9/1/21	29 Nov 21 16:34
5	8	1129L10.D	1	5ug/L VOC STD 11/29/21	IS&S: 9/1/21	29 Nov 21 17:02
6	9	1129L11.D	1	10ug/L VOC STD 11/29/21	IS&S: 9/1/21	29 Nov 21 17:30
7	10	1129L12.D	1	20ug/L VOC STD 11/29/21	IS&S: 9/1/21	29 Nov 21 17:57
8	11	1129L13.D	1	40ug/L VOC STD 11/29/21	IS&S: 9/1/21	29 Nov 21 18:25
9	12	1129L14.D	1	100ug/L VOC STD 11/29/21	IS&S: 9/1/21	29 Nov 21 18:53
10	15	1129L17.D	1	20ug/L GAS STD 11/29/21	IS&S: 9/1/21	29 Nov 21 20:16
11	16	1129L18.D	1	50ug/L GAS STD 11/29/21	IS&S: 9/1/21	29 Nov 21 20:44
12	17	1129L19.D	1	100ug/L GAS STD 11/29/21	IS&S: 9/1/21	29 Nov 21 21:11
13	18	1129L20.D	1	300ug/L GAS STD 11/29/21	IS&S: 9/1/21	29 Nov 21 21:39
14	19	1129L21.D	1	600ug/L GAS STD 11/29/21	IS&S: 9/1/21	29 Nov 21 22:06
15	20	1129L22.D	1	800ug/L GAS STD 11/29/21	IS&S: 9/1/21	29 Nov 21 22:34
16	21	1129L23.D	1	1000ug/L GAS STD 11/29/21	IS&S: 9/1/21	29 Nov 21 23:02
17	23	1129L25.D	1	(SS) 300ug/L GAS STD 11/29/21	IS&S: 9/1/21	29 Nov 21 23:57
18	27	1129L29.D	1	211129A LCS 300ug/L	IS&S: 9/1/21	30 Nov 21 1:47
19	28	1129L30.D	1	211129A LCSD 300ug/L	IS&S: 9/1/21	30 Nov 21 2:15
20	29	1129L31.D	1	211129A BLK	IS&S: 9/1/21	30 Nov 21 2:42
21	33	1129L35.D	1	BA46713W01	IS&S: 9/1/21	30 Nov 21 4:33
22	34	1129L36.D	5	BA46714W01	IS&S: 9/1/21	30 Nov 21 5:00
23	44	1129L46.D	1	Ending CCV 300ug/L 11/29/21	IS&S: 9/1/21	30 Nov 21 9:37

INORGANIC ANALYSIS
Calibration and Raw Data

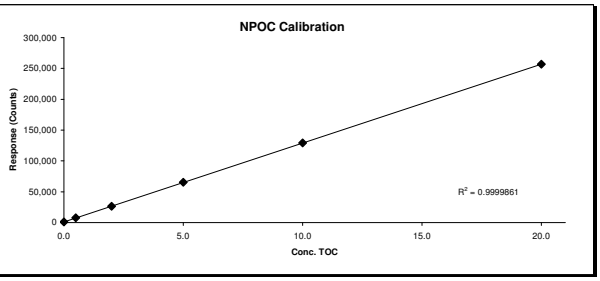
TOTAL ORGANIC CARBON

Method: WetChem | Units mg/L | Instrument: Tic Toc

Analyte: TOC | QCG: 211129A

Analyist: EA | 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'd By (Initials)** EA

Prep Date 11/27/2021

Exp Date 11/27/2022

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer 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'd By (Initials)** EA

Prep Date 11/27/2021

Exp Date 11/27/2022

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer 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'd By (Initials)** EA

Prep Date See Data

Exp Date 1 year

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer 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'd By (Initials)** EA

Prep Date See Data

Exp Date 1 year

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer 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'd By (Initials)** EA

Prep Date See Data

Exp Date 1 year

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer 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